

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 56166 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jun 28 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

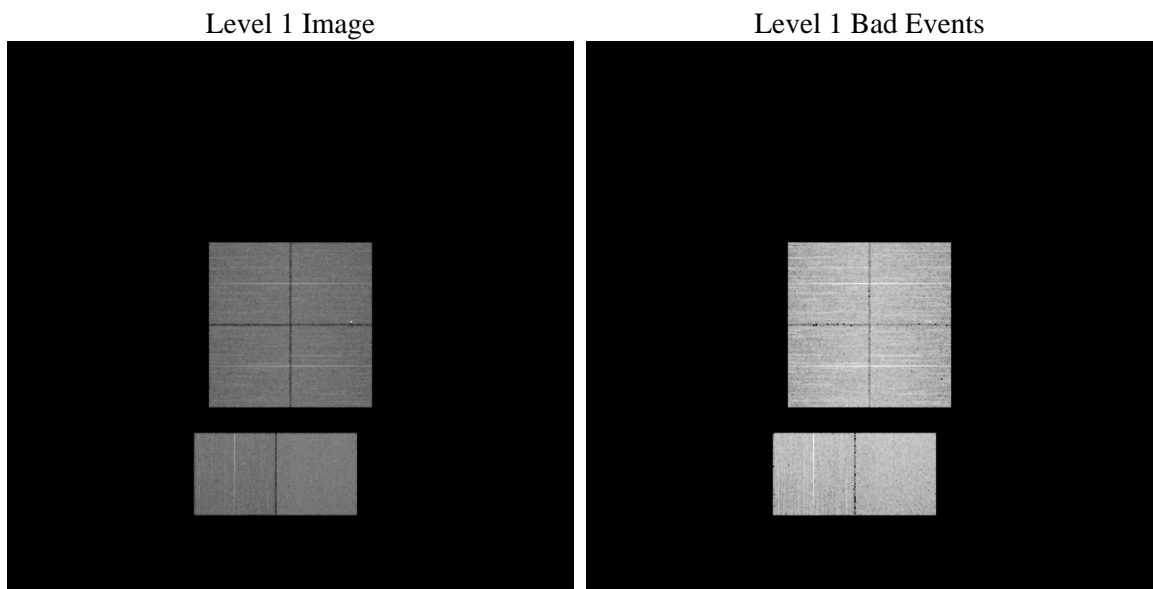
# 1 Front

seq_num	&#160	Sequence number
obs_id	56166	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	256.96733919993	Nominal RA [deg]
dec_nom	-13.030798030052	Nominal Dec [deg]
roll_nom	234.59378658922	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8117.3002759218	Sum of GTIs [s]
livetime	8014.5141321767	Livetime [s]
ontime0	8114.0182155371	Sum of GTIs [s]
ontime1	8117.2181959152	Sum of GTIs [s]
ontime2	8117.1771559119	Sum of GTIs [s]
ontime3	8117.3413159251	Sum of GTIs [s]
ontime6	8117.1361159086	Sum of GTIs [s]
ontime7	8117.3002759218	Sum of GTIs [s]
l2events	377641	Number of level 2 events

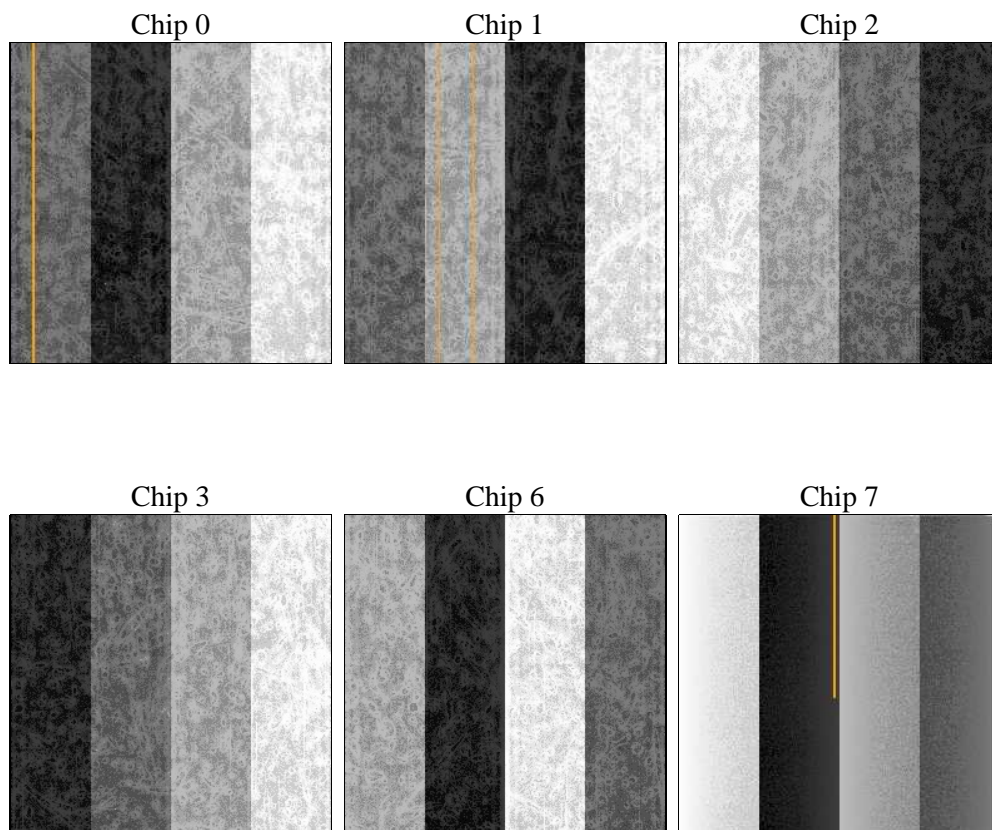
## 2 OBI

### 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	8117.3002759218	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime0	8114.0182155371	Sum of GTIs [s]
date	2012-06-29T01:32:00	Date and time of file creation	ontime1	8117.2181959152	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8117.1771559119	Sum of GTIs [s]
			ontime3	8117.3413159251	Sum of GTIs [s]
			ontime6	8117.1361159086	Sum of GTIs [s]
			ontime7	8117.3002759218	Sum of GTIs [s]
			l1events	806529	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	126041	129381	126958	128276	131699	164174	grade 0 events	32620	34327	33091	33550	33303	17056
rejected events	65720	63983	67036	67633	68919	68973		25%	26%	26%	26%	25%	10%
rejected %	52%	49%	52%	52%	52%	42%	grade 1 events	250	209	247	239	186	150
								0%	0%	0%	0%	0%	0%
							grade 2 events	11440	14088	10668	10832	11656	21189
								9%	10%	8%	8%	8%	12%
							grade 3 events	4089	4174	4156	4229	4225	8923
								3%	3%	3%	3%	3%	5%
							grade 4 events	4112	4154	4260	4323	4196	8981
								3%	3%	3%	3%	3%	5%
							grade 5 events	3823	3900	3587	4214	4287	10810
								3%	3%	2%	3%	3%	6%
							grade 6 events	9328	9950	8901	8993	10691	41002
								7%	7%	7%	7%	8%	24%
							grade 7 events	60379	58579	62048	61896	63155	56063
								47%	45%	48%	48%	47%	34%

## 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	256.9673391999295
[deg] Pointing Dec	0	-13.03079803005211
[deg] Pointing Roll	0.0	234.5937865892174
[mm] SIM focus pos	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
[mm] SIM translation stage pos	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	393873520.47031	393873520.47031
Observation start date	2010-06-25T17:18:40	2010-06-25T17:18:40
[s] Observation end time (MET)	393883068.011507	393883068.011507
Observation end date	2010-06-25T19:57:48	2010-06-25T19:57:48
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## 2.3 Star Slots

## 2.4 FID Slots

## **A Summary**

### **A.1 Status**

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.07.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1173002759218

### **A.2 Comments**