

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 54702 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 17 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

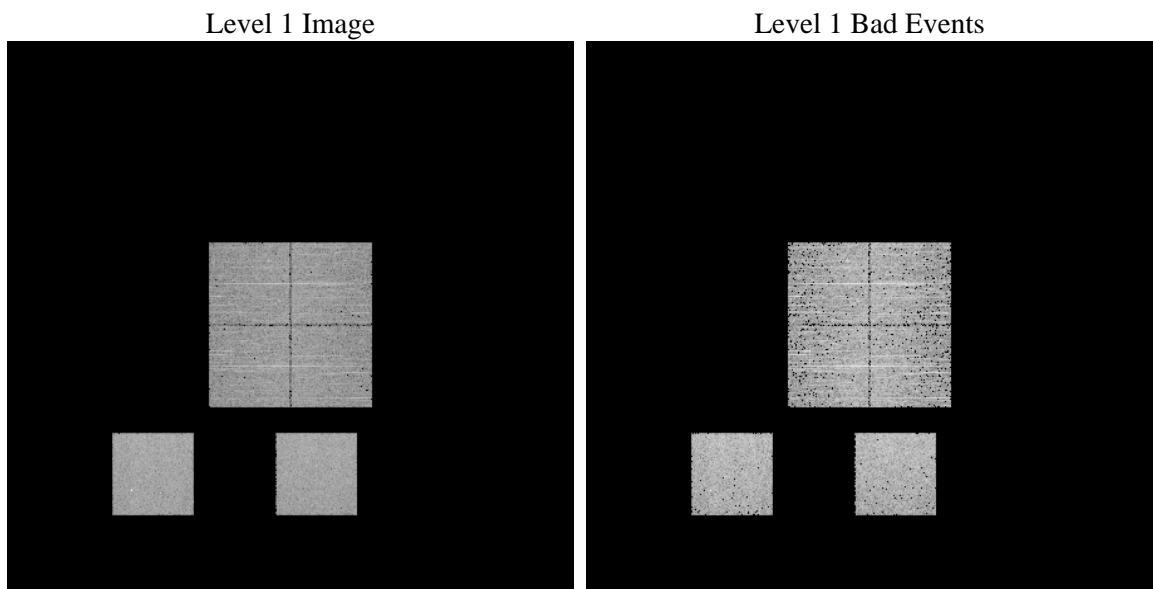
# 1 Front

seq_num	&#160	Sequence number
obs_id	54702	Observation id
title	ACIS-012357 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	225.50908283506	Nominal RA [deg]
dec_nom	-35.472084849666	Nominal Dec [deg]
roll_nom	41.413200333597	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3004.7999888659	Sum of GTIs [s]
livetime	2966.7514021335	Livetime [s]
ontime0	3004.7999888659	Sum of GTIs [s]
ontime1	3004.7999888659	Sum of GTIs [s]
ontime2	3004.7999888659	Sum of GTIs [s]
ontime3	3004.7999888659	Sum of GTIs [s]
ontime5	3004.7999888659	Sum of GTIs [s]
ontime7	3004.7999888659	Sum of GTIs [s]
l2events	106778	Number of level 2 events

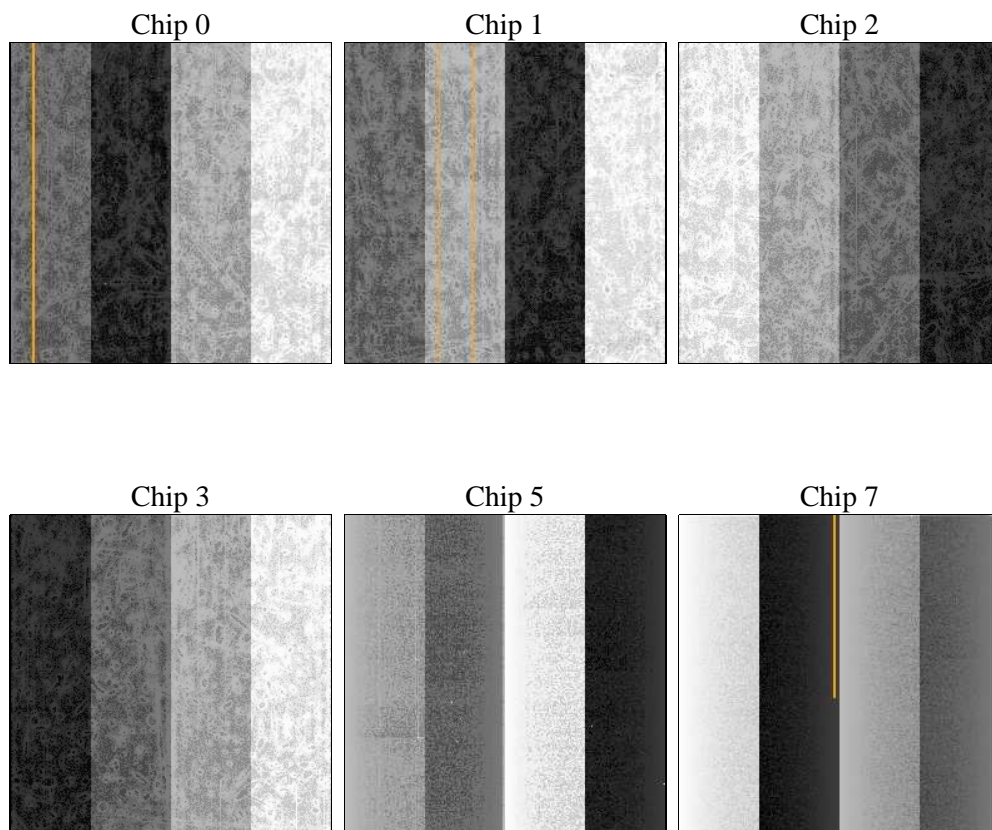
## 2 OBI

### 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	8.4.3	Processing system revision	ontime	3004.7999888659	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	3004.7999888659	Sum of GTIs [s]
date	2012-04-17T05:53:34	Date and time of file creation	ontime1	3004.7999888659	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3004.7999888659	Sum of GTIs [s]
			ontime3	3004.7999888659	Sum of GTIs [s]
			ontime5	3004.7999888659	Sum of GTIs [s]
			ontime7	3004.7999888659	Sum of GTIs [s]
			l1events	250634	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	35741	36904	37525	36857	52933	50674	grade 0 events	8331	8317	8851	8848	3403	4483
rejected events	20910	21831	22374	21868	25888	25469		23%	22%	23%	24%	6%	8%
rejected %	58%	59%	59%	59%	48%	50%	grade 1 events	50	42	61	47	143	36
								0%	0%	0%	0%	0%	0%
							grade 2 events	3085	3220	2924	2882	10626	5842
								8%	8%	7%	7%	20%	11%
							grade 3 events	1095	1146	1125	1126	1119	2478
								3%	3%	2%	3%	2%	4%
							grade 4 events	1113	1159	1219	1229	1088	2392
								3%	3%	3%	3%	2%	4%
							grade 5 events	1365	1370	1260	1460	2833	3412
								3%	3%	3%	3%	5%	6%
							grade 6 events	2629	2732	2450	2383	13311	12567
								7%	7%	6%	6%	25%	24%
							grade 7 events	18073	18918	19635	18882	20410	19464
								50%	51%	52%	51%	38%	38%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	225.5090828350555	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-35.47208484966573	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	41.4132003335966	[s] Primary exposure time	3.2	3.2
SIM focus pos (mm)	-1.4281808131	-1.4281808131			
[mm] SIM defocus	0.1051557500557434	0.1051557500557434			
SIM translation stage pos (mm)	250.4635187649	250.4635187649			
[mm] SIM translation stage offset	-0.007542945905271381	-0.007542945905271381			
[s] Observation start time (MET)	451002238.160067	451002238.160067			
Observation start date	2012-04-16T22:23:58	2012-04-16T22:23:58			
[s] Observation end time (MET)	451006785.935878	451006785.935878			
Observation end date	2012-04-16T23:39:46	2012-04-16T23:39:45			
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)	2012.04.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.0047999888659

### A.2 Comments