

# V&V Reference Report

## L2 ASCDS Version : 10.2.2

Observation 52662 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jul 3 2014

## 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

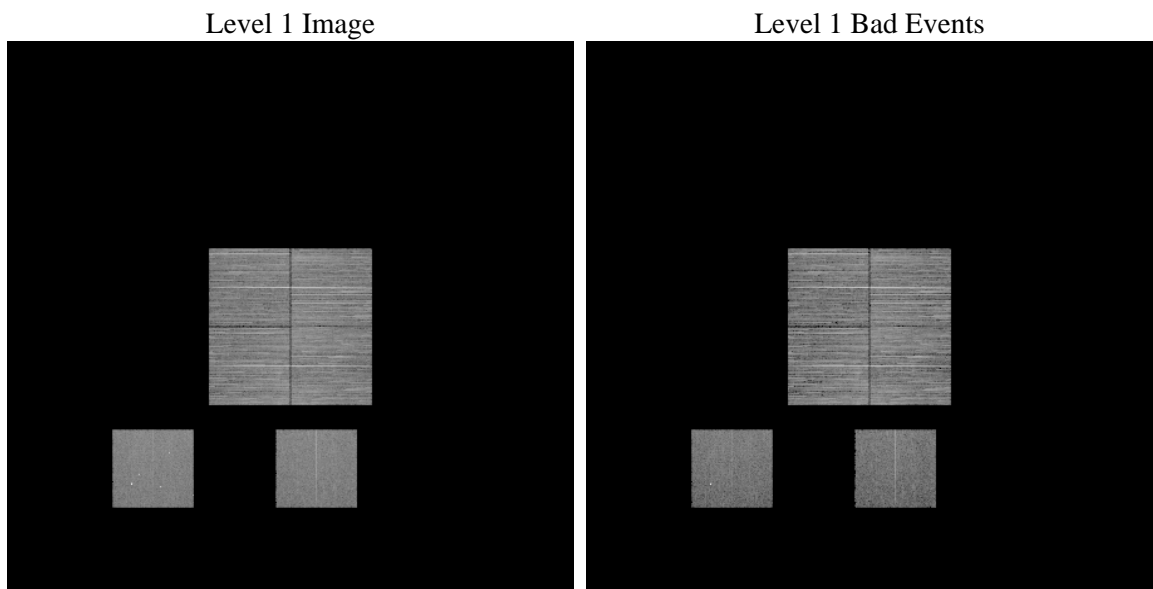
# 1 Front

seq_num	&#160	Sequence number
obs_id	52662	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	181.01478304112	Nominal RA [deg]
dec_nom	42.973399164553	Nominal Dec [deg]
roll_nom	259.26852554089	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8204.7857207656	Sum of GTIs [s]
livetime	8100.8917836404	Livetime [s]
ontime0	8113.9987255931	Sum of GTIs [s]
ontime1	8120.4398552179	Sum of GTIs [s]
ontime2	8091.2295845747	Sum of GTIs [s]
ontime3	8107.5721831322	Sum of GTIs [s]
ontime5	8204.6215607524	Sum of GTIs [s]
ontime7	8204.7857207656	Sum of GTIs [s]
l2events	193505	Number of level 2 events

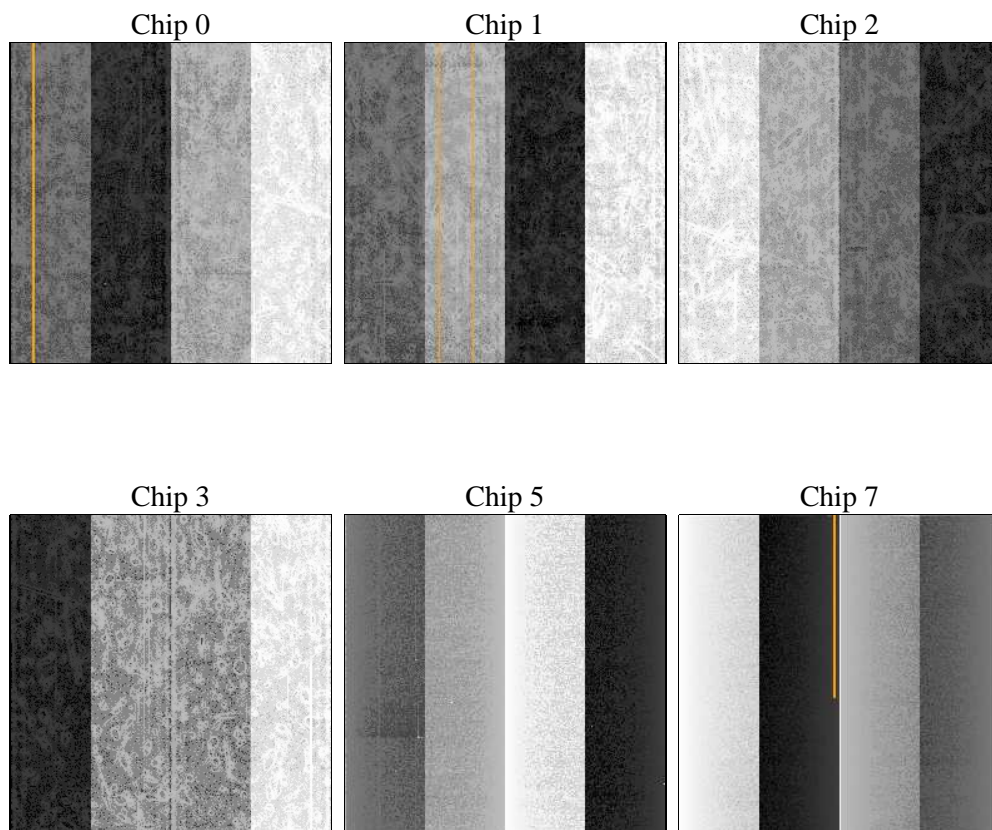
## 2 OBI

### 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	10.2.2	Processing system revision	ontime	8204.7857207656	Sum of GTIs [s]
caldsver	4.6.1	&#160	ontime0	8113.9987255931	Sum of GTIs [s]
date	2014-07-03T14:14:35	Date and time of file creation	ontime1	8120.4398552179	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8091.2295845747	Sum of GTIs [s]
			ontime3	8107.5721831322	Sum of GTIs [s]
			ontime5	8204.6215607524	Sum of GTIs [s]
			ontime7	8204.7857207656	Sum of GTIs [s]
			l1events	776450	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	125361	139908	135491	138130	123959	113601	grade 0 events	12751	12360	13164	12939	5799	6902
rejected events	100089	114554	110254	113085	69899	63767		10%	8%	9%	9%	4%	6%
rejected %	79%	81%	81%	81%	56%	56%	grade 1 events	62	63	92	78	131	76
								0%	0%	0%	0%	0%	0%
							grade 2 events	5166	5383	4856	4999	19828	12271
								4%	3%	3%	3%	15%	10%
							grade 3 events	1799	1720	1765	1721	1991	4126
								1%	1%	1%	1%	1%	3%
							grade 4 events	1732	1777	1766	1792	1853	4142
								1%	1%	1%	1%	1%	3%
							grade 5 events	2647	2732	2545	2950	5914	7192
								2%	1%	1%	2%	4%	6%
							grade 6 events	4075	4367	3942	3865	25108	22941
								3%	3%	2%	2%	20%	20%
							grade 7 events	97129	111506	107361	109786	63335	55951
								77%	79%	79%	79%	51%	49%

## 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	NONE	UPDATED
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	181.0147830411219	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	42.97339916455301	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	259.268525540888	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	520726367.365458	520726366.34046			
Observation start date	2014-07-02T22:12:47	2014-07-02T22:12:46			
[s] Observation end time (MET)	520736367.266012	520736366.24101			
Observation end date	2014-07-03T00:59:27	2014-07-03T00:59:26			
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)	2014.07.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2047857207656

### A.2 Comments