

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 56442 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jun 21 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

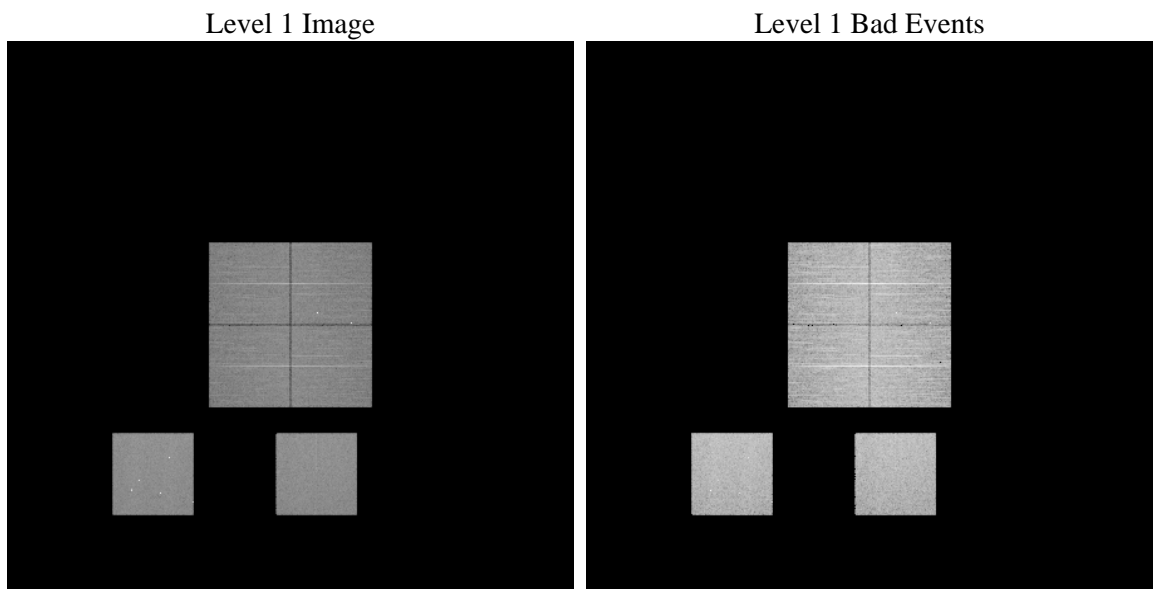
# 1 Front

seq_num	&#160	Sequence number
obs_id	56442	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	146.66418711491	Nominal RA [deg]
dec_nom	31.644857588913	Nominal Dec [deg]
roll_nom	193.73416684503	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7992.9720599055	Sum of GTIs [s]
livetime	7891.760234893	Livetime [s]
ontime0	7992.9310199022	Sum of GTIs [s]
ontime1	7992.8899798989	Sum of GTIs [s]
ontime2	7992.8489398956	Sum of GTIs [s]
ontime3	7993.0130999088	Sum of GTIs [s]
ontime5	7992.8078998923	Sum of GTIs [s]
ontime7	7992.9720599055	Sum of GTIs [s]
l2events	441075	Number of level 2 events

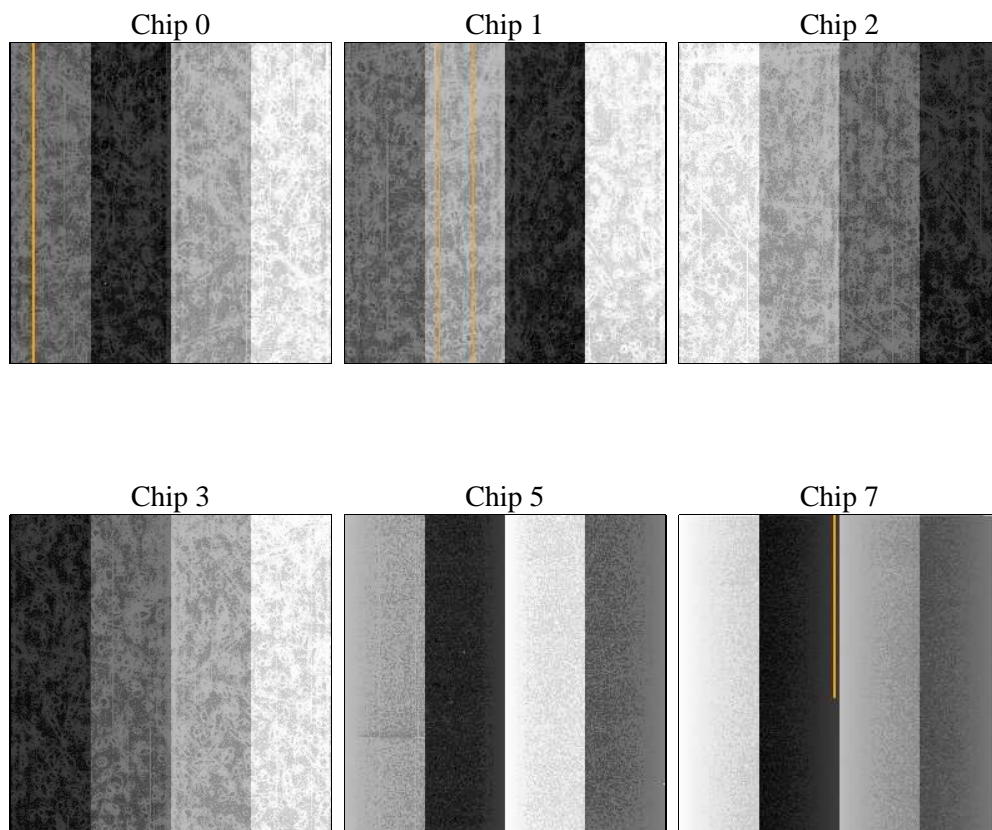
## 2 OBI

### 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	7992.9720599055	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	7992.9310199022	Sum of GTIs [s]
date	2012-06-21T16:33:52	Date and time of file creation	ontime1	7992.8899798989	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	7992.8489398956	Sum of GTIs [s]
			ontime3	7993.0130999088	Sum of GTIs [s]
			ontime5	7992.8078998923	Sum of GTIs [s]
			ontime7	7992.9720599055	Sum of GTIs [s]
			l1events	913001	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	135535	140024	138137	141881	182351	175073	grade 0 events	35959	39837	36285	36126	18540	19155
rejected events	70225	70066	73591	77156	75481	73573		26%	28%	26%	25%	10%	10%
rejected %	51%	50%	53%	54%	41%	42%	grade 1 events	278	270	288	293	309	157
								0%	0%	0%	0%	0%	0%
							grade 2 events	12258	12747	11678	11734	38375	22924
								9%	9%	8%	8%	21%	13%
							grade 3 events	4689	4577	4685	4695	4621	9816
								3%	3%	3%	3%	2%	5%
							grade 4 events	4535	4594	4603	4596	4688	9452
								3%	3%	3%	3%	2%	5%
							grade 5 events	4107	4208	3958	4496	9491	11397
								3%	3%	2%	3%	5%	6%
							grade 6 events	10241	10688	9790	9920	44458	43770
								7%	7%	7%	6%	24%	25%
							grade 7 events	63468	63103	66850	70021	61869	58402
								46%	45%	48%	49%	33%	33%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	146.6641871149104
[deg] Pointing Dec	0	31.64485758891312
[deg] Pointing Roll	0.0	193.7341668450305
[mm] SIM focus pos	-0.68282252473119	-0.68282252473119
[mm] SIM defocus	0.8505140384245534	0.8505140384245534
[mm] SIM translation stage pos	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	382903842.812494	382903842.812494
Observation start date	2010-02-18T18:10:43	2010-02-18T18:10:42
[s] Observation end time (MET)	382913389.859579	382913389.859579
Observation end date	2010-02-18T20:49:50	2010-02-18T20:49:49
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	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.06.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.9929720599055

### A.2 Comments