

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 56177 - 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

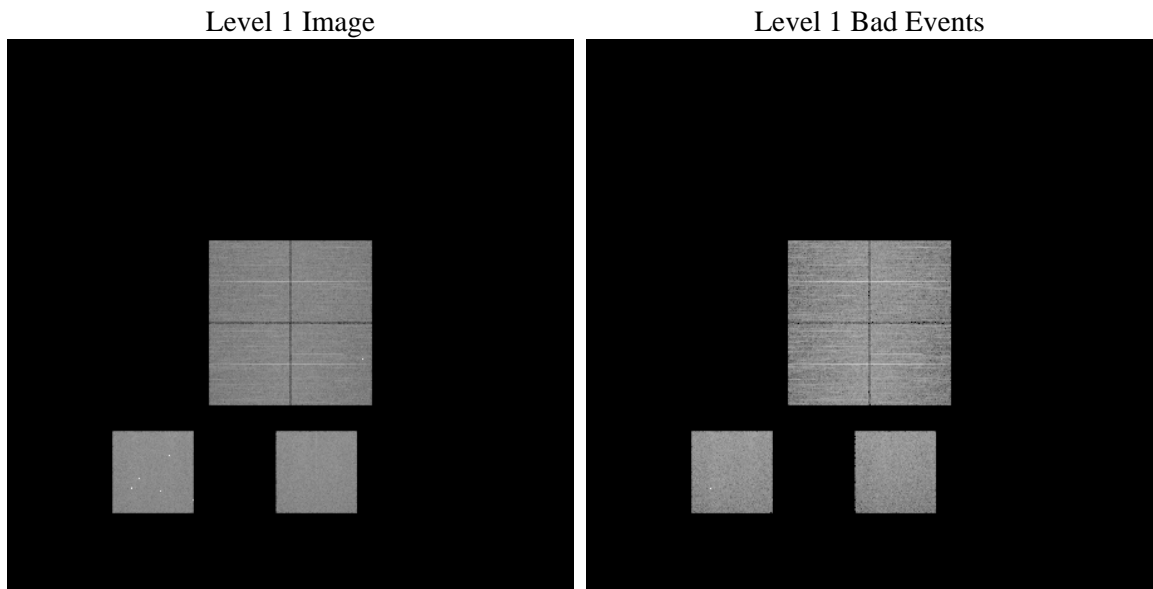
# 1 Front

seq_num	&#160	Sequence number
obs_id	56177	Observation id
title	ACIS-012357 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycycle	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	271.97412066455	Nominal RA [deg]
dec_nom	0.98752796421166	Nominal Dec [deg]
roll_nom	172.81471026259	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8280.8580128551	Sum of GTIs [s]
livetime	8176.0008025622	Livetime [s]
ontime0	8280.8580129743	Sum of GTIs [s]
ontime1	8281.2398129106	Sum of GTIs [s]
ontime2	8281.1987729073	Sum of GTIs [s]
ontime3	8280.8580129743	Sum of GTIs [s]
ontime5	8281.157732904	Sum of GTIs [s]
ontime7	8280.8580128551	Sum of GTIs [s]
l2events	419240	Number of level 2 events

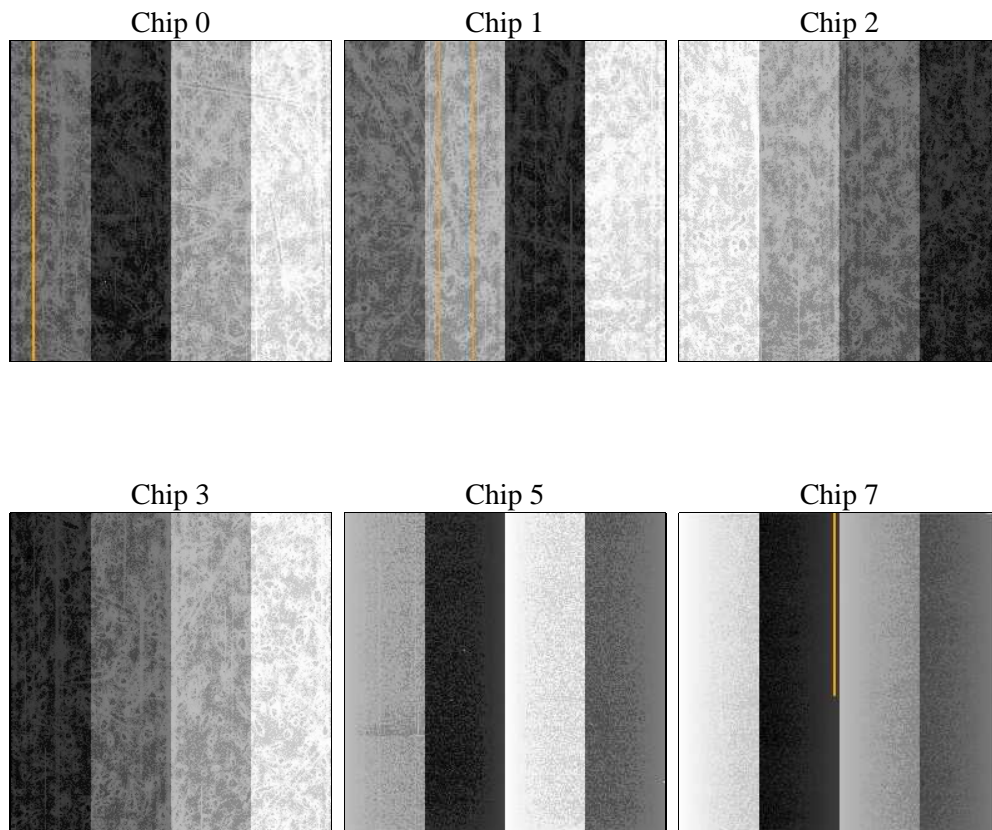
## 2 OBI

### 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	8280.8580128551	Sum of GTIs [s]
caldbver	4.5.0	&#160	ontime0	8280.8580129743	Sum of GTIs [s]
date	2012-06-28T22:13:53	Date and time of file creation	ontime1	8281.2398129106	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8281.1987729073	Sum of GTIs [s]
			ontime3	8280.8580129743	Sum of GTIs [s]
			ontime5	8281.157732904	Sum of GTIs [s]
			ontime7	8280.8580128551	Sum of GTIs [s]
			l1events	844667	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	123592	125963	129813	131328	172839	161132	grade 0 events	32732	32326	33289	36064	18296	17018
rejected events	61920	63752	68181	66784	68590	65158		26%	25%	25%	27%	10%	10%
rejected %	50%	50%	52%	50%	39%	40%	grade 1 events	187	167	228	254	272	141
								0%	0%	0%	0%	0%	0%
							grade 2 events	11351	11976	10893	10897	36134	20665
								9%	9%	8%	8%	20%	12%
							grade 3 events	4198	4081	4189	4334	4173	8924
								3%	3%	3%	3%	2%	5%
							grade 4 events	4130	4175	4192	4227	4095	8740
								3%	3%	3%	3%	2%	5%
							grade 5 events	3820	3933	3537	4334	9102	10578
								3%	3%	2%	3%	5%	6%
							grade 6 events	9261	9678	9102	9022	41592	40627
								7%	7%	7%	6%	24%	25%
							grade 7 events	57913	59627	64383	62196	59175	54439
								46%	47%	49%	47%	34%	33%

## 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	271.9741206645481	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	0.9875279642116596	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	172.8147102625859	[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)	393414980.546892	393414979.5219			
Observation start date	2010-06-20T09:56:21	2010-06-20T09:56:19			
[s] Observation end time (MET)	393424867.697396	393424866.6724			
Observation end date	2010-06-20T12:41:08	2010-06-20T12:41:06			
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)	2012.07.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2808580128551

## A.2 Comments