

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 56094 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jul 1 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

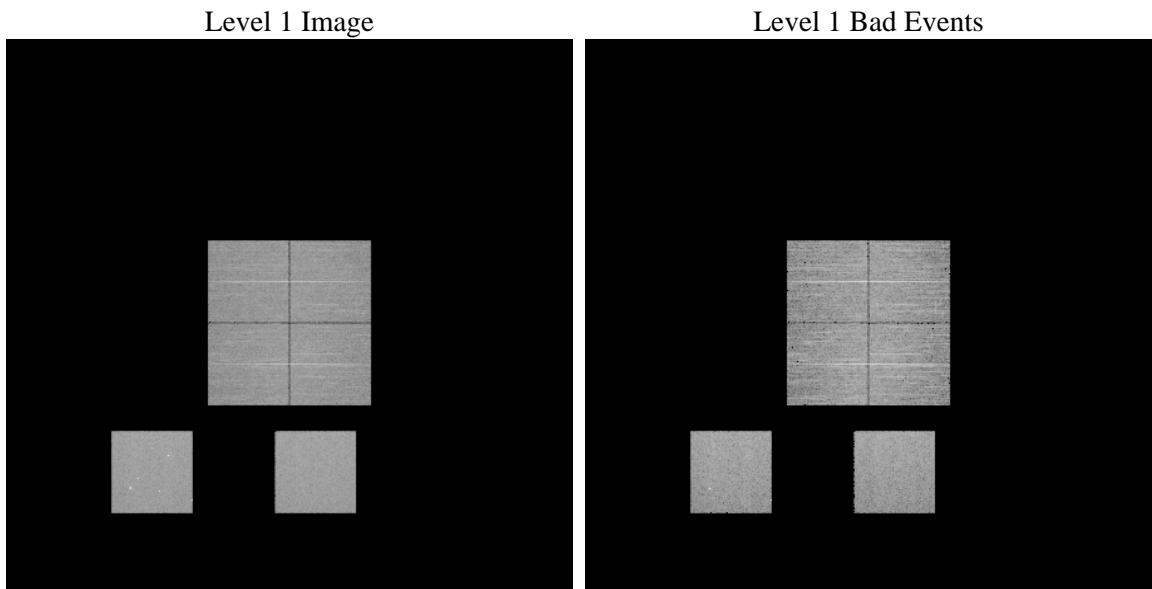
# 1 Front

seq_num	&#160	Sequence number
obs_id	56094	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	304.98132816216	Nominal RA [deg]
dec_nom	5.4782032858027	Nominal Dec [deg]
roll_nom	196.64708203275	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6803.1465652585	Sum of GTIs [s]
livetime	6717.0010270861	Livetime [s]
ontime0	6803.1055252552	Sum of GTIs [s]
ontime1	6803.0644852519	Sum of GTIs [s]
ontime2	6803.0234452486	Sum of GTIs [s]
ontime3	6803.1876052618	Sum of GTIs [s]
ontime5	6802.9824052453	Sum of GTIs [s]
ontime7	6803.1465652585	Sum of GTIs [s]
l2events	357350	Number of level 2 events

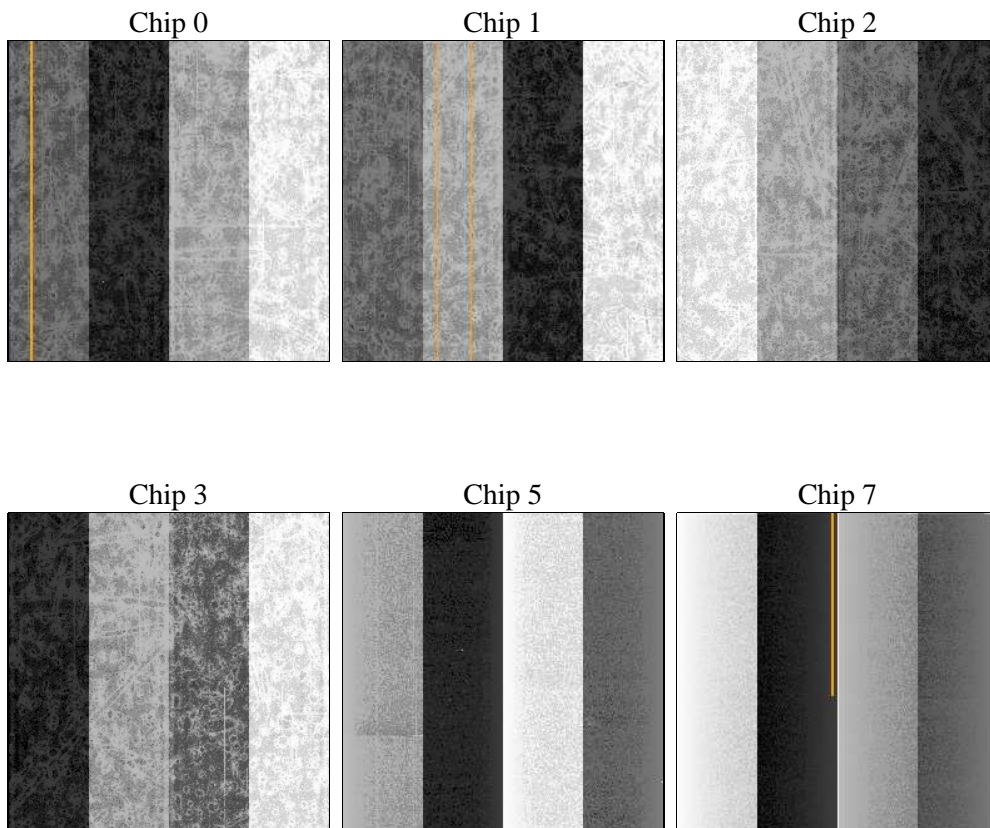
## 2 OBI

### 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	6803.1465652585	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime0	6803.1055252552	Sum of GTIs [s]
date	2012-07-01T03:38:50	Date and time of file creation	ontime1	6803.0644852519	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	6803.0234452486	Sum of GTIs [s]
			ontime3	6803.1876052618	Sum of GTIs [s]
			ontime5	6802.9824052453	Sum of GTIs [s]
			ontime7	6803.1465652585	Sum of GTIs [s]
			l1events	716435	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	105509	109719	108301	111798	142583	138525	grade 0 events	27903	27784	28739	28934	12568	14693
rejected events	52787	56296	55555	58644	58759	56637		26%	25%	26%	25%	8%	10%
rejected %	50%	51%	51%	52%	41%	40%	grade 1 events	162	175	206	237	521	119
								0%	0%	0%	0%	0%	0%
							grade 2 events	9731	10191	9224	9390	30287	18006
								9%	9%	8%	8%	21%	12%
							grade 3 events	3630	3575	3703	3675	3666	7640
								3%	3%	3%	3%	2%	5%
							grade 4 events	3657	3603	3581	3809	3324	7364
								3%	3%	3%	3%	2%	5%
							grade 5 events	3249	3385	2922	3561	7474	8884
								3%	3%	2%	3%	5%	6%
							grade 6 events	8508	8970	8194	8130	35161	35397
								8%	8%	7%	7%	24%	25%
							grade 7 events	48669	52036	51732	54062	49582	46422
								46%	47%	47%	48%	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	304.9813281621568	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	5.478203285802698	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	196.6470820327546	[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)	397109556.335642	397109555.31066			
Observation start date	2010-08-02T04:12:36	2010-08-02T04:12:35			
[s] Observation end time (MET)	397118680.886108	397118679.86112			
Observation end date	2010-08-02T06:44:41	2010-08-02T06:44:39			
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)	2012.07.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.8031465652585

### **A.2 Comments**