

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 56711 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jun 16 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

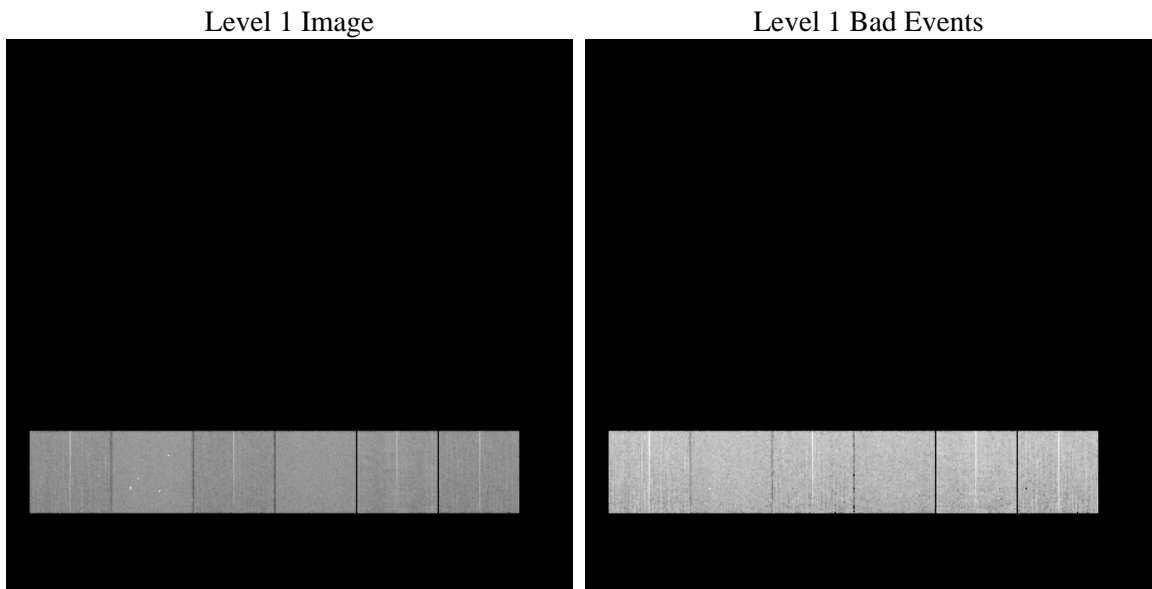
# 1 Front

seq_num	&#160	Sequence number
obs_id	56711	Observation id
title	ACIS-456789 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	21.025349981027	Nominal RA [deg]
dec_nom	6.4862735089629	Nominal Dec [deg]
roll_nom	298.55612335764	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8268.7999692559	Sum of GTIs [s]
livetime	8164.0954451716	Livetime [s]
ontime4	8268.7999692559	Sum of GTIs [s]
ontime5	8268.7999692559	Sum of GTIs [s]
ontime6	8268.7999692559	Sum of GTIs [s]
ontime7	8268.7999692559	Sum of GTIs [s]
ontime8	8268.7999692559	Sum of GTIs [s]
ontime9	8268.7999692559	Sum of GTIs [s]
l2events	490029	Number of level 2 events

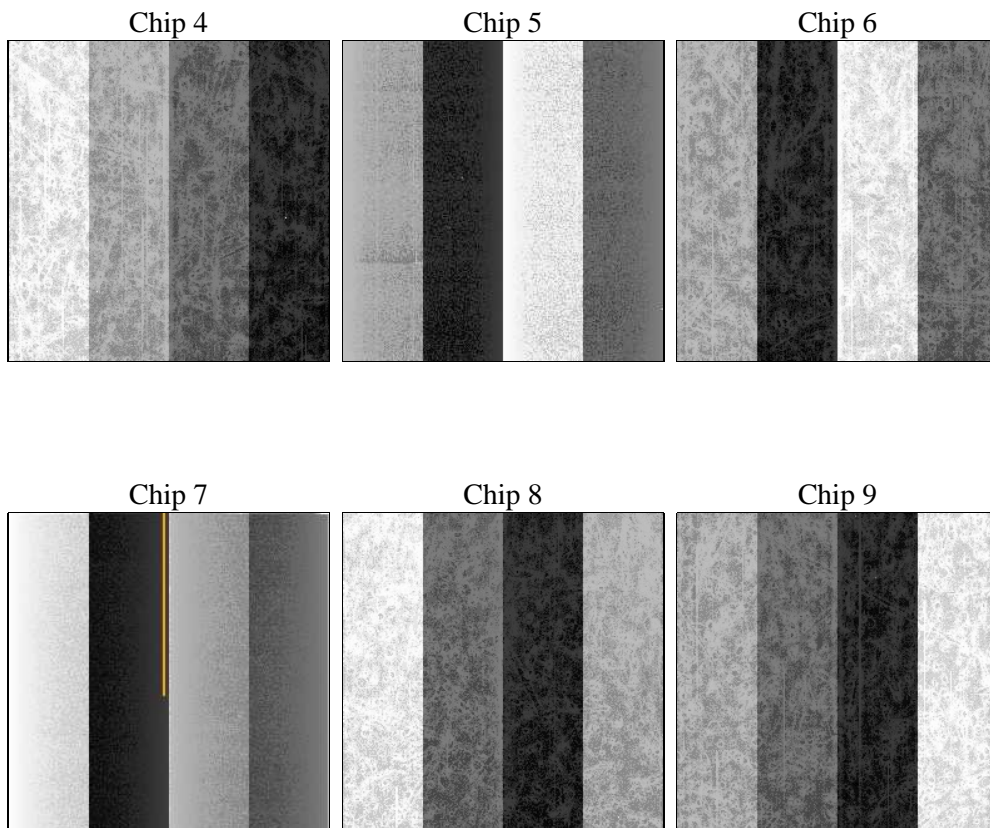
## 2 OBI

### 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	8268.7999692559	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime4	8268.7999692559	Sum of GTIs [s]
date	2012-06-16T02:47:04	Date and time of file creation	ontime5	8268.7999692559	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8268.7999692559	Sum of GTIs [s]
			ontime7	8268.7999692559	Sum of GTIs [s]
			ontime8	8268.7999692559	Sum of GTIs [s]
			ontime9	8268.7999692559	Sum of GTIs [s]
			l1events	1021149	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	156074	194345	153632	184473	178418	154207	grade 0 events	40300	19874	39006	20355	43293	38429
rejected events	84729	76186	78909	72298	88912	81260		25%	10%	25%	11%	24%	24%
rejected %	54%	39%	51%	39%	49%	52%	grade 1 events	389	324	274	165	304	315
								0%	0%	0%	0%	0%	0%
							grade 2 events	11710	40639	13421	24603	16843	13079
								7%	20%	8%	13%	9%	8%
							grade 3 events	4999	5336	4905	10300	6717	5063
								3%	2%	3%	5%	3%	3%
							grade 4 events	5022	5240	4880	10288	6640	4876
								3%	2%	3%	5%	3%	3%
							grade 5 events	4305	10205	4658	11777	6131	4968
								2%	5%	3%	6%	3%	3%
							grade 6 events	9345	47119	12536	46629	16043	11500
								5%	24%	8%	25%	8%	7%
							grade 7 events	80004	65608	73952	60356	82447	75977
								51%	33%	48%	32%	46%	49%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	21.02534998102703	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	6.48627350896289	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	298.5561233576374	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.6828225247311905			
[mm] SIM defocus	0.1037507710433287	0.8505141146731063			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	373536350.939083	373536349.91408			
Observation start date	2009-11-02T08:05:51	2009-11-02T08:05:49			
[s] Observation end time (MET)	373557295.790139	373557294.76513			
Observation end date	2009-11-02T13:54:56	2009-11-02T13:54:54			
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)	2012.06.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2687999692559

### **A.2 Comments**