

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 57860 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : May 12 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

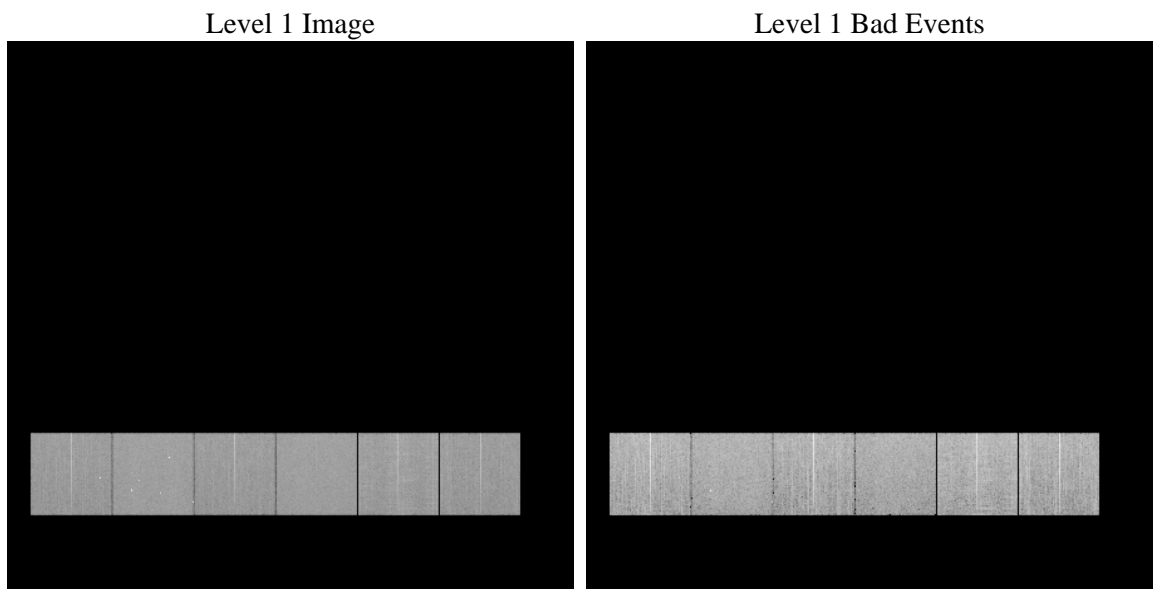
# 1 Front

seq_num	&#160	Sequence number
obs_id	57860	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	226.98174407918	Nominal RA [deg]
dec_nom	0.016766090252491	Nominal Dec [deg]
roll_nom	110.78027514169	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8223.9999694228	Sum of GTIs [s]
livetime	8119.8627299117	Livetime [s]
ontime4	8223.9999694228	Sum of GTIs [s]
ontime5	8223.9999694228	Sum of GTIs [s]
ontime6	8223.9999694228	Sum of GTIs [s]
ontime7	8223.9999694228	Sum of GTIs [s]
ontime8	8223.9999694228	Sum of GTIs [s]
ontime9	8223.9999694228	Sum of GTIs [s]
l2events	634411	Number of level 2 events

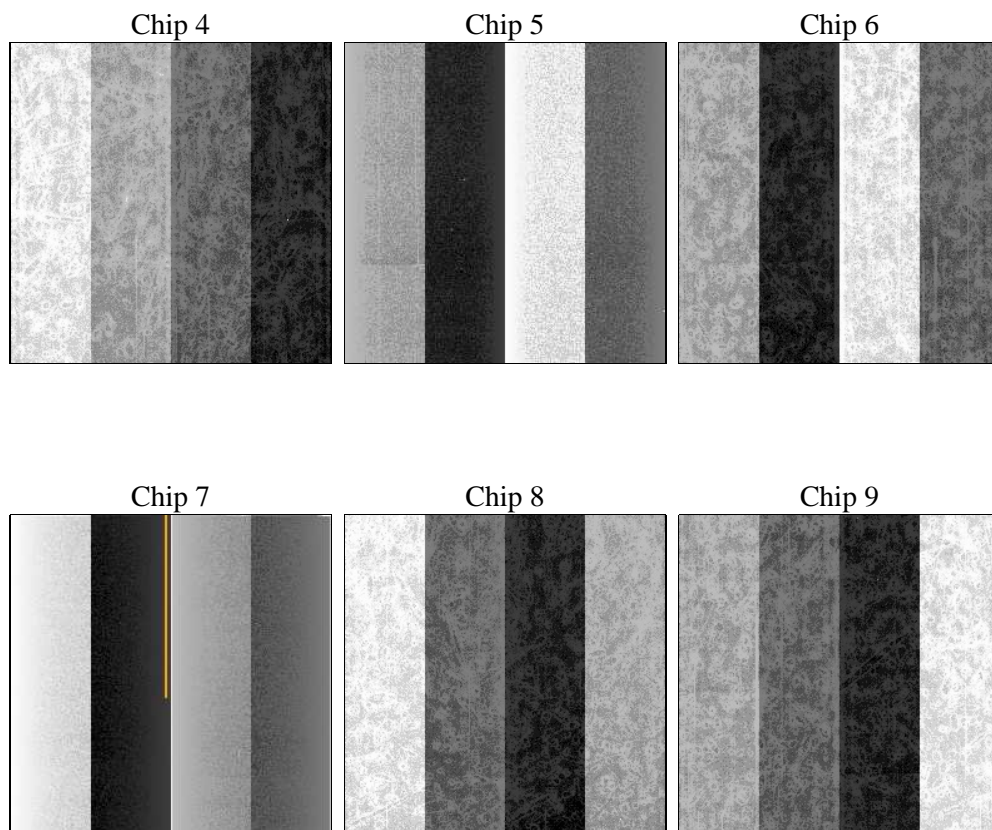
## 2 OBI

### 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	8.4.4	Processing system revision	ontime	8223.9999694228	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime4	8223.9999694228	Sum of GTIs [s]
date	2012-05-13T00:50:50	Date and time of file creation	ontime5	8223.9999694228	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8223.9999694228	Sum of GTIs [s]
			ontime7	8223.9999694228	Sum of GTIs [s]
			ontime8	8223.9999694228	Sum of GTIs [s]
			ontime9	8223.9999694228	Sum of GTIs [s]
			l1events	1137602	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	178757	203253	178012	199237	200867	177476	grade 0 events	57059	23516	55435	27492	59557	54421
rejected events	80041	70650	73783	64744	83427	76655		31%	11%	31%	13%	29%	30%
rejected %	44%	34%	41%	32%	41%	43%	grade 1 events	519	280	325	154	417	389
								0%	0%	0%	0%	0%	0%
							grade 2 events	15936	46834	18529	29509	21692	17789
								8%	23%	10%	14%	10%	10%
							grade 3 events	6873	6962	6814	12884	8515	6661
								3%	3%	3%	6%	4%	3%
							grade 4 events	6647	6519	6749	12657	8197	6794
								3%	3%	3%	6%	4%	3%
							grade 5 events	4116	9947	4266	10695	5557	4756
								2%	4%	2%	5%	2%	2%
							grade 6 events	12800	49537	17297	52770	20228	15744
								7%	24%	9%	26%	10%	8%
							grade 7 events	74807	59658	68597	53076	76704	70922
								41%	29%	38%	26%	38%	39%

## 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	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	226.9817440791796	Alternating exposures requested	N	N
[deg] Pointing Dec	0	0.01676609025249094	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	110.7802751416885			
[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)	324449662.998379	324449661.97338			
Observation start date	2008-04-13T04:54:23	2008-04-13T04:54:21			
[s] Observation end time (MET)	324472733.699503	324472732.67451			
Observation end date	2008-04-13T11:18:54	2008-04-13T11:18:52			
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)	2012.05.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2239999694228

### A.2 Comments