

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 54276 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 4 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

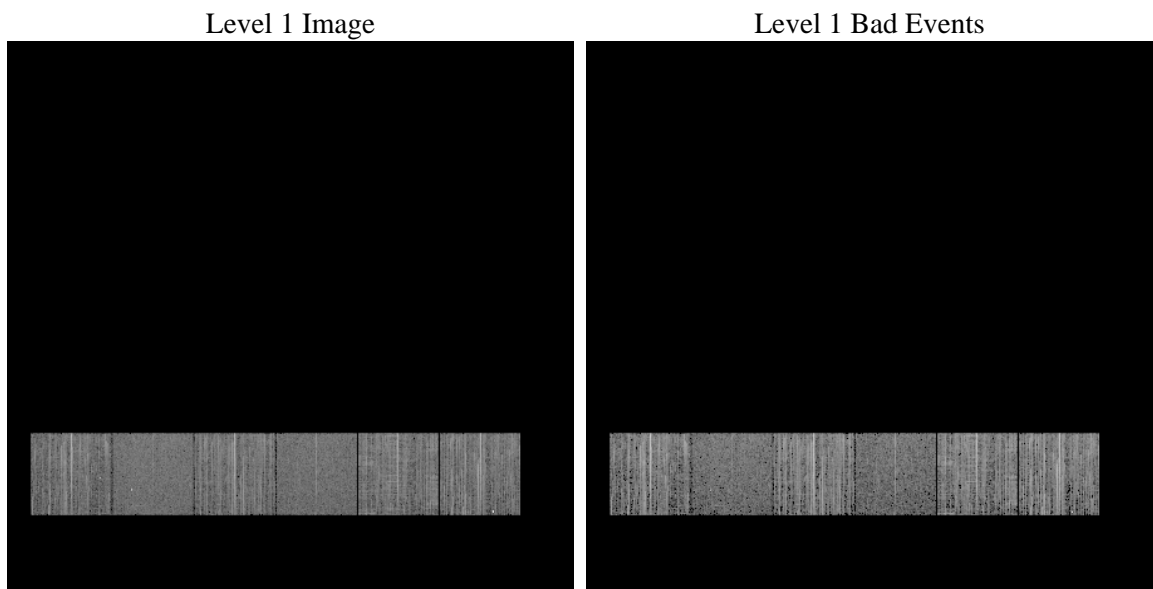
# 1 Front

seq_num	&#160	Sequence number
obs_id	54276	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	33.957086896924	Nominal RA [deg]
dec_nom	3.6364722865291	Nominal Dec [deg]
roll_nom	87.912838896978	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3283.1999878287	Sum of GTIs [s]
livetime	3241.6261326772	Livetime [s]
ontime4	3283.1999878287	Sum of GTIs [s]
ontime5	3283.1999878287	Sum of GTIs [s]
ontime6	3283.1999878287	Sum of GTIs [s]
ontime7	3283.1999878287	Sum of GTIs [s]
ontime8	3283.1999878287	Sum of GTIs [s]
ontime9	3283.1999878287	Sum of GTIs [s]
l2events	106746	Number of level 2 events

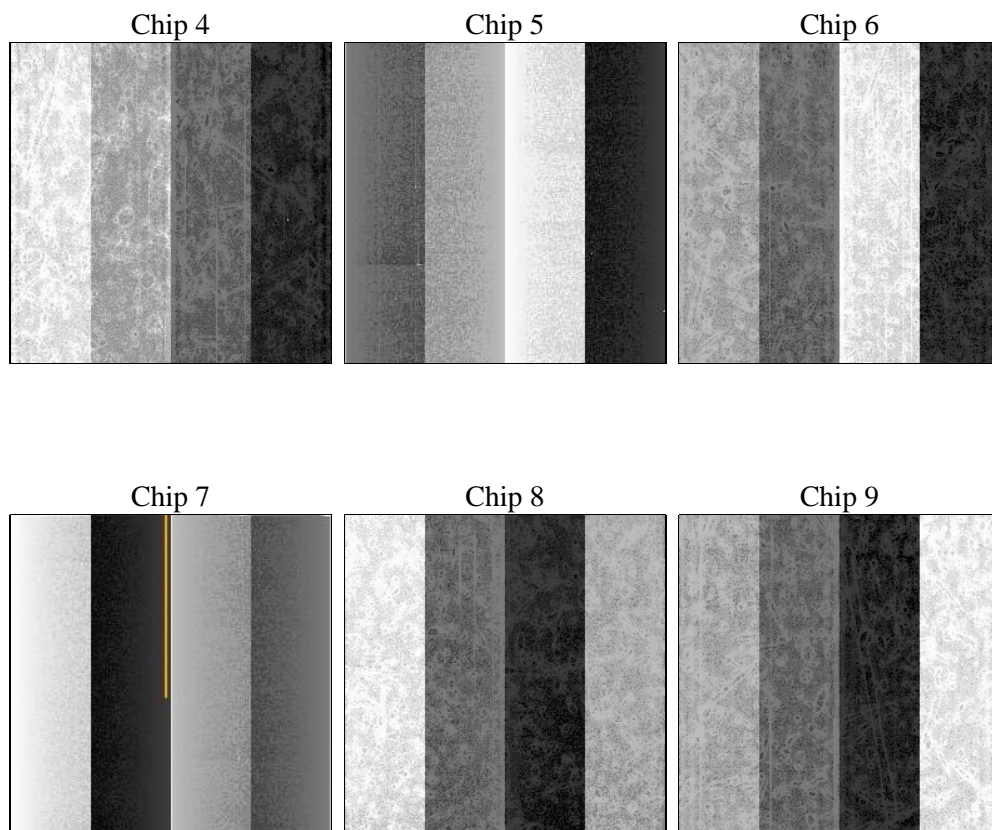
## 2 OBI

### 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	3283.1999878287	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime4	3283.1999878287	Sum of GTIs [s]
date	2012-10-04T03:33:23	Date and time of file creation	ontime5	3283.1999878287	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3283.1999878287	Sum of GTIs [s]
			ontime7	3283.1999878287	Sum of GTIs [s]
			ontime8	3283.1999878287	Sum of GTIs [s]
			ontime9	3283.1999878287	Sum of GTIs [s]
			l1events	381718	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	61538	56072	67652	53297	68864	74295	grade 0 events	8031	2844	7749	3983	8799	9832
rejected events	46665	29473	52310	27829	49713	56976		13%	5%	11%	7%	12%	13%
rejected %	75%	52%	77%	52%	72%	76%	grade 1 events	46	61	38	39	47	48
								0%	0%	0%	0%	0%	0%
							grade 2 events	2741	9914	3030	6295	3897	2916
								4%	17%	4%	11%	5%	3%
							grade 3 events	1063	1008	1024	2032	1411	1085
								1%	1%	1%	3%	2%	1%
							grade 4 events	986	994	927	2152	1343	1027
								1%	1%	1%	4%	1%	1%
							grade 5 events	1220	2523	1312	3194	1684	1440
								1%	4%	1%	5%	2%	1%
							grade 6 events	2058	11862	2631	11037	3711	2478
								3%	21%	3%	20%	5%	3%
							grade 7 events	45393	26866	50941	24565	47972	55469
								73%	47%	75%	46%	69%	74%

## 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	33.95708689692407	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	3.636472286529145	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	87.91283889697797	[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)	465651624.012926	465651622.98793			
Observation start date	2012-10-03T11:40:24	2012-10-03T11:40:22			
[s] Observation end time (MET)	465656291.863177	465656290.83818			
Observation end date	2012-10-03T12:58:12	2012-10-03T12:58:10			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2831999878287

### A.2 Comments