

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53906 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Feb 28 2013

## 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

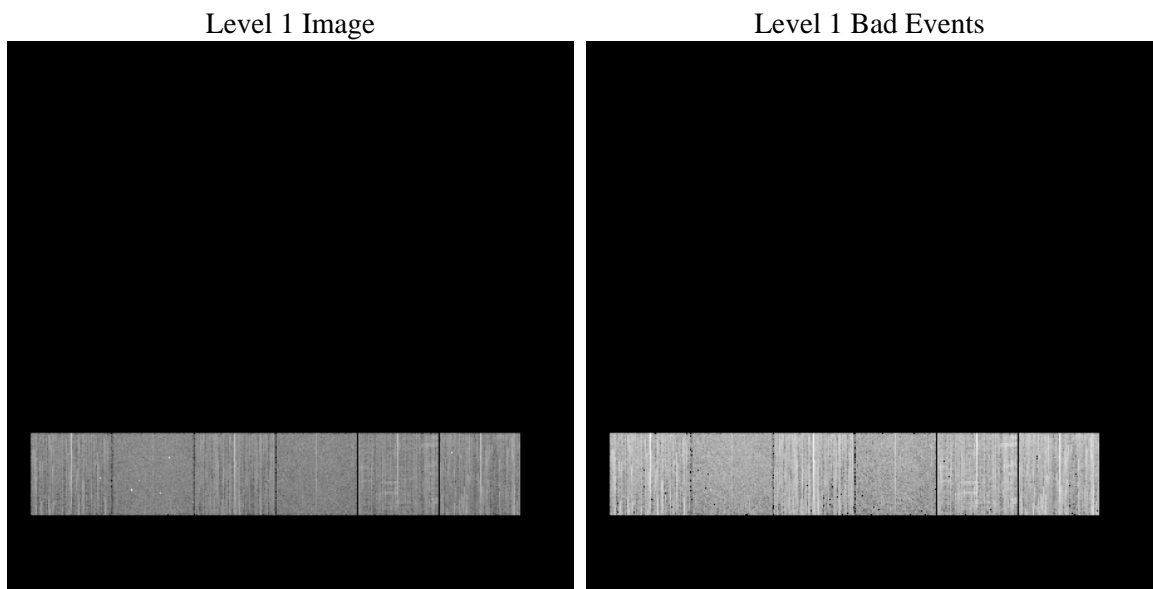
# 1 Front

seq_num	&#160	Sequence number
obs_id	53906	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	188.97426057496	Nominal RA [deg]
dec_nom	4.0280986763055	Nominal Dec [deg]
roll_nom	80.641659799648	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4732.7999824286	Sum of GTIs [s]
livetime	4672.870419301	Livetime [s]
ontime4	4732.7999824286	Sum of GTIs [s]
ontime5	4732.7999824286	Sum of GTIs [s]
ontime6	4732.7999824286	Sum of GTIs [s]
ontime7	4732.7999824286	Sum of GTIs [s]
ontime8	4732.7999824286	Sum of GTIs [s]
ontime9	4732.7999824286	Sum of GTIs [s]
l2events	146060	Number of level 2 events

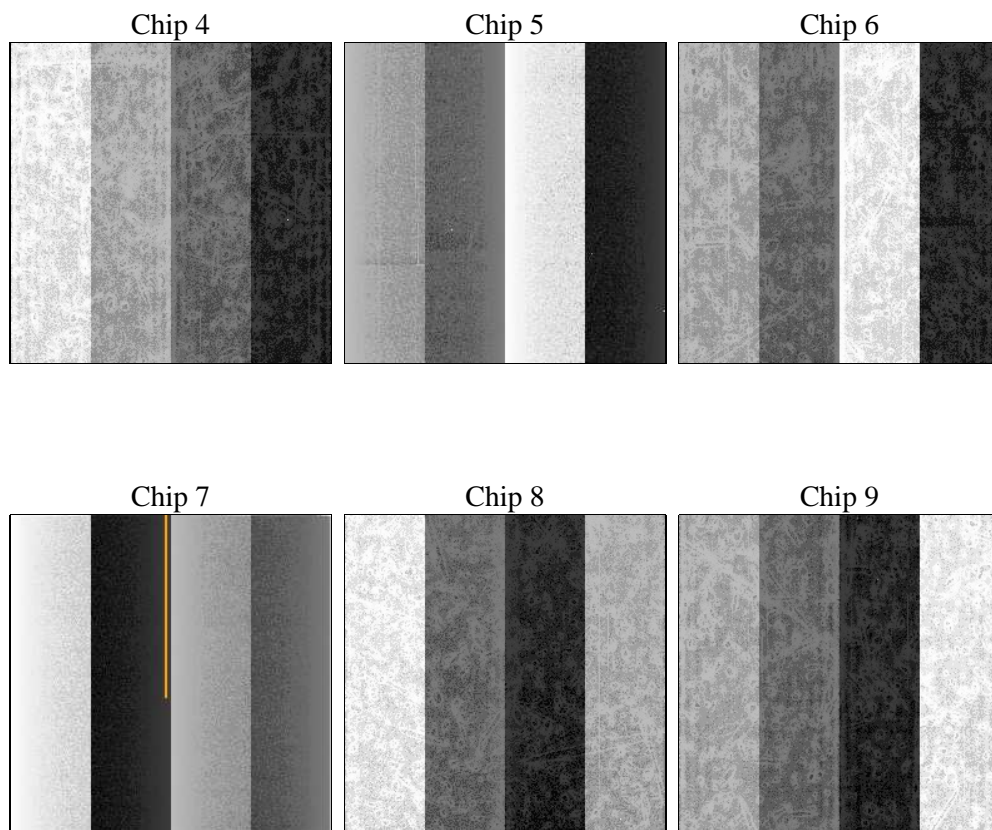
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	4732.7999824286	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime4	4732.7999824286	Sum of GTIs [s]
date	2013-02-28T19:49:24	Date and time of file creation	ontime5	4732.7999824286	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	4732.7999824286	Sum of GTIs [s]
			ontime7	4732.7999824286	Sum of GTIs [s]
			ontime8	4732.7999824286	Sum of GTIs [s]
			ontime9	4732.7999824286	Sum of GTIs [s]
			l1events	569532	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	97269	86042	100413	77973	101868	105967	grade 0 events	11326	6286	10334	5299	11952	11544
rejected events	76678	45076	79873	41699	76020	84491		11%	7%	10%	6%	11%	10%
rejected %	78%	52%	79%	53%	74%	79%	grade 1 events	94	105	61	51	69	85
								0%	0%	0%	0%	0%	0%
							grade 2 events	3721	14633	4059	8854	5172	3967
								3%	17%	4%	11%	5%	3%
							grade 3 events	1450	1431	1327	2958	1972	1378
								1%	1%	1%	3%	1%	1%
							grade 4 events	1363	1509	1365	3045	1908	1355
								1%	1%	1%	3%	1%	1%
							grade 5 events	2000	4003	2036	4856	2511	2225
								2%	4%	2%	6%	2%	2%
							grade 6 events	2745	17107	3465	16118	4865	3232
								2%	19%	3%	20%	4%	3%
							grade 7 events	74570	40968	77766	36792	73419	82181
								76%	47%	77%	47%	72%	77%

## 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	188.974260574962	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	4.028098676305535	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	80.64165979964787	[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)	478421199.750589	478421198.72559			
Observation start date	2013-02-28T06:46:40	2013-02-28T06:46:38			
[s] Observation end time (MET)	478428430.10098	478428429.07598			
Observation end date	2013-02-28T08:47:10	2013-02-28T08:47:09			
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)	2013.02.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.7327999824286

### A.2 Comments