

# V&V Reference Report

## L2 ASCDS Version : 10.1.1

Observation 53265 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Nov 1 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

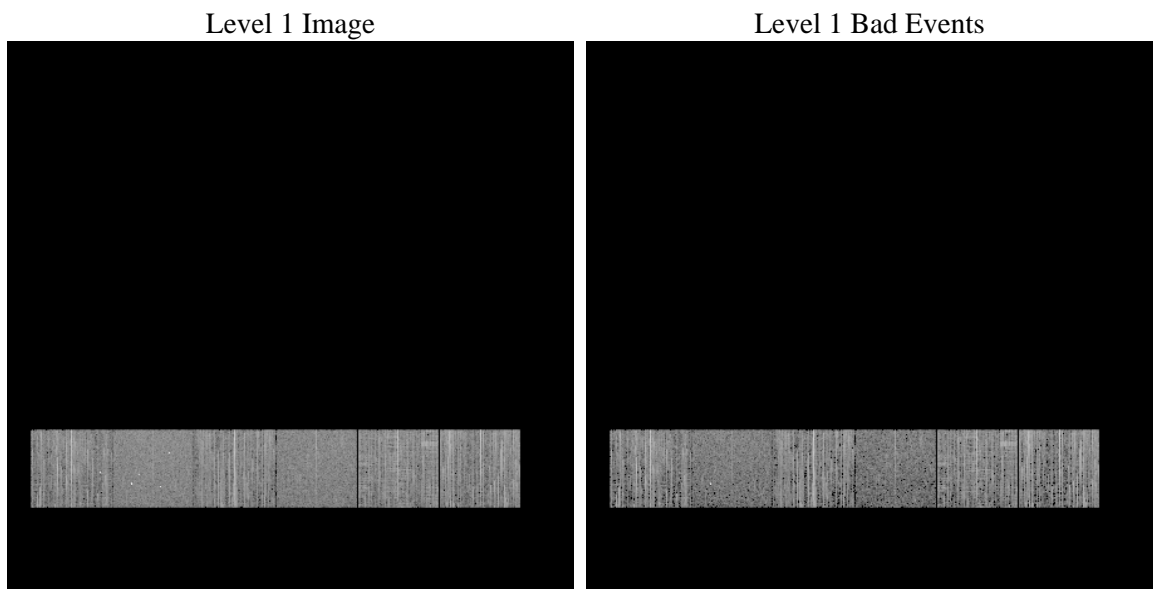
# 1 Front

seq_num	&#160	Sequence number
obs_id	53265	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	8.0151479454067	Nominal RA [deg]
dec_nom	17.975196239953	Nominal Dec [deg]
roll_nom	267.17112514076	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3279.9999878407	Sum of GTIs [s]
livetime	3238.4666530157	Livetime [s]
ontime4	3279.9999878407	Sum of GTIs [s]
ontime5	3279.9999878407	Sum of GTIs [s]
ontime6	3279.9999878407	Sum of GTIs [s]
ontime7	3279.9999878407	Sum of GTIs [s]
ontime8	3279.9999878407	Sum of GTIs [s]
ontime9	3279.9999878407	Sum of GTIs [s]
l2events	87602	Number of level 2 events

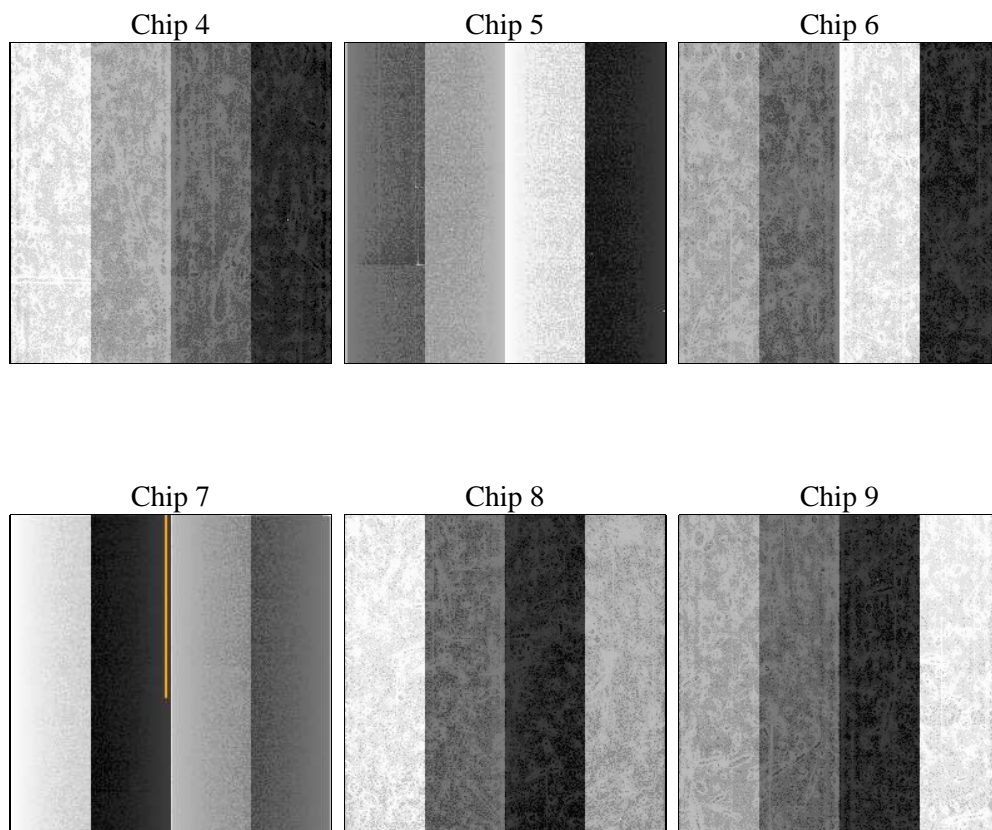
## 2 OBI

### 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	10.1.1	Processing system revision	ontime	3279.9999878407	Sum of GTIs [s]
caldbver	4.5.8	&#160	ontime4	3279.9999878407	Sum of GTIs [s]
date	2013-11-01T23:14:22	Date and time of file creation	ontime5	3279.9999878407	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3279.9999878407	Sum of GTIs [s]
			ontime7	3279.9999878407	Sum of GTIs [s]
			ontime8	3279.9999878407	Sum of GTIs [s]
			ontime9	3279.9999878407	Sum of GTIs [s]
			l1events	345063	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	59009	53957	59220	47058	61621	64198	grade 0 events	6997	3691	6104	3196	6840	5964
rejected events	46546	29348	46858	25357	46286	52247		11%	6%	10%	6%	11%	9%
rejected %	78%	54%	79%	53%	75%	81%	grade 1 events	44	51	27	39	32	18
								0%	0%	0%	0%	0%	0%
							grade 2 events	2248	8803	2539	5325	3131	2314
								3%	16%	4%	11%	5%	3%
							grade 3 events	850	889	853	1833	1237	841
								1%	1%	1%	3%	2%	1%
							grade 4 events	818	829	817	1731	1149	821
								1%	1%	1%	3%	1%	1%
							grade 5 events	1196	2634	1189	2803	1560	1327
								2%	4%	2%	5%	2%	2%
							grade 6 events	1562	10417	2059	9647	2991	2024
								2%	19%	3%	20%	4%	3%
							grade 7 events	45294	26643	45632	22484	44681	50889
								76%	49%	77%	47%	72%	79%

## 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	8.01514794540671	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	17.97519623995293	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	267.1711251407642	[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)	499698681.857585	499698680.83258			
Observation start date	2013-11-01T13:11:22	2013-11-01T13:11:20			
[s] Observation end time (MET)	499706795.75803	499706794.73303			
Observation end date	2013-11-01T15:26:36	2013-11-01T15:26:34			
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)	2013.11.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2799999878407

### A.2 Comments