

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51077 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 27 2016

## 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

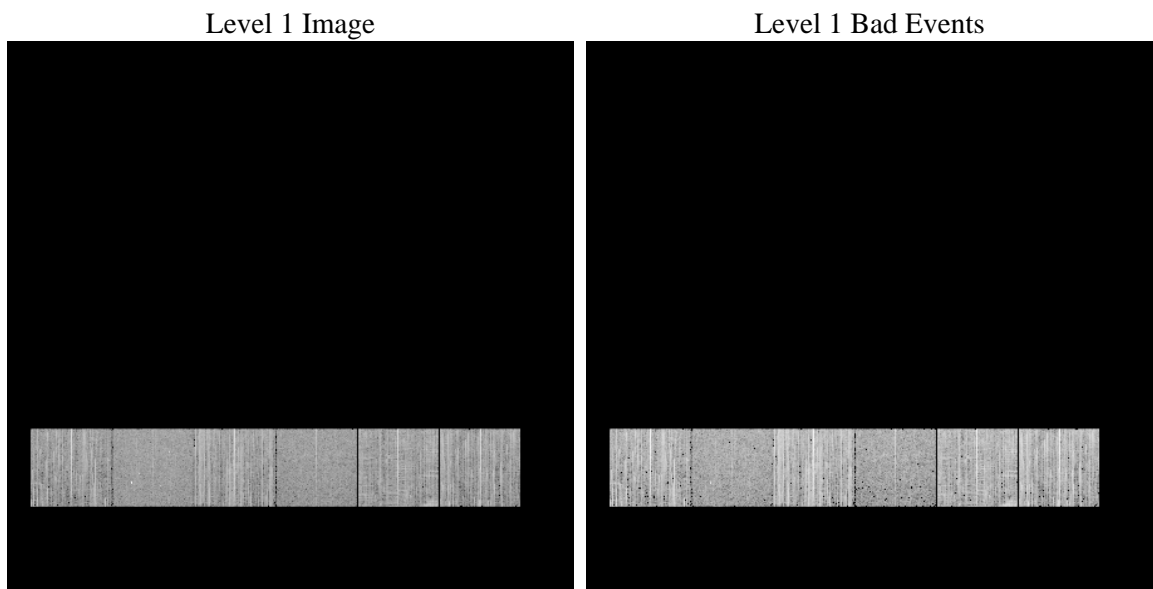
# 1 Front

seq_num	&#160	Sequence number
obs_id	51077	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	349.99606690357	Nominal RA [deg]
dec_nom	48.028615027126	Nominal Dec [deg]
roll_nom	62.402501006953	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3398.4000506401	Sum of GTIs [s]
livetime	3355.3674629281	Livetime [s]
ontime4	3398.4000506401	Sum of GTIs [s]
ontime5	3398.4000506401	Sum of GTIs [s]
ontime6	3398.4000506401	Sum of GTIs [s]
ontime7	3398.4000506401	Sum of GTIs [s]
ontime8	3398.4000506401	Sum of GTIs [s]
ontime9	3398.4000506401	Sum of GTIs [s]
l2events	75610	Number of level 2 events

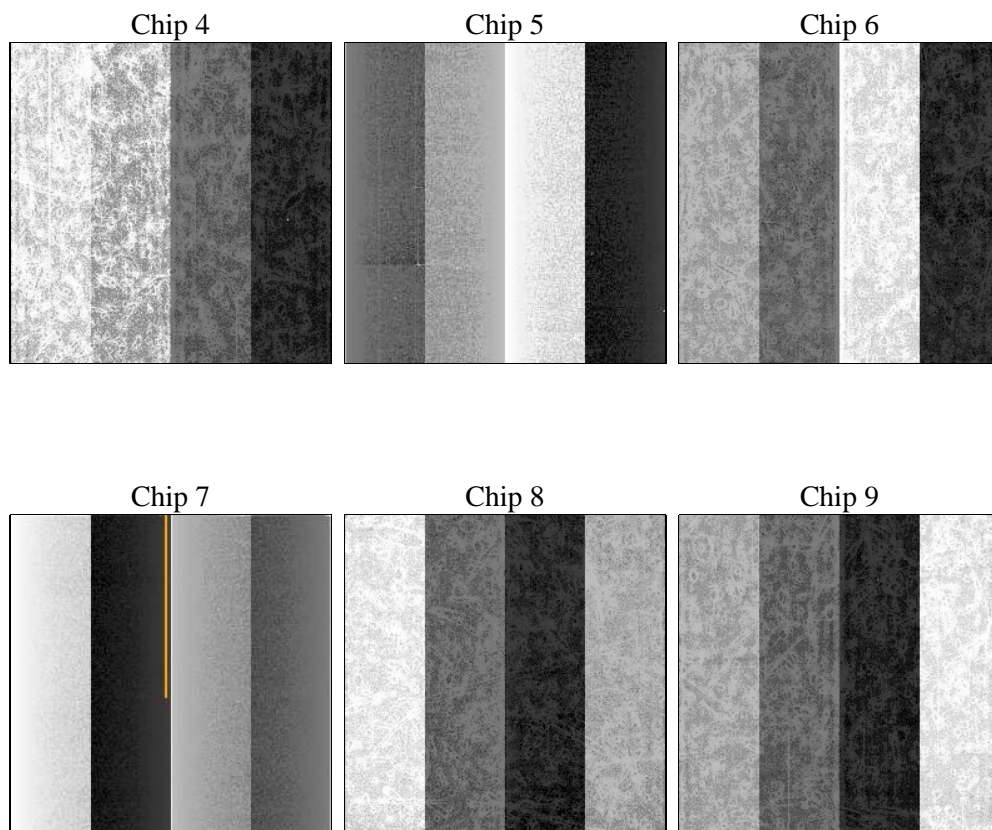
## 2 OBI

### 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	10.4.3.1	Processing system revision	ontime	3398.4000506401	Sum of GTIs [s]
caldbver	4.7.1	&#160	ontime4	3398.4000506401	Sum of GTIs [s]
date	2016-04-27T19:44:58	Date and time of file creation	ontime5	3398.4000506401	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3398.4000506401	Sum of GTIs [s]
			ontime7	3398.4000506401	Sum of GTIs [s]
			ontime8	3398.4000506401	Sum of GTIs [s]
			ontime9	3398.4000506401	Sum of GTIs [s]
			l1events	403723	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	66632	59840	78226	54591	72012	72422	grade 0 events	4408	1962	3827	2400	5257	3998
rejected events	57922	35396	69550	33202	58793	63703		6%	3%	4%	4%	7%	5%
rejected %	86%	59%	88%	60%	81%	87%	grade 1 events	46	77	30	36	29	32
								0%	0%	0%	0%	0%	0%
							grade 2 events	1819	9123	2106	5343	2964	1918
								2%	15%	2%	9%	4%	2%
							grade 3 events	696	686	600	1574	1205	631
								1%	1%	0%	2%	1%	0%
							grade 4 events	668	757	618	1550	1116	654
								1%	1%	0%	2%	1%	0%
							grade 5 events	1463	2820	1344	3428	1934	1698
								2%	4%	1%	6%	2%	2%
							grade 6 events	1232	12245	1656	10791	2809	1619
								1%	20%	2%	19%	3%	2%
							grade 7 events	56300	32170	68045	29469	56698	61872
								84%	53%	86%	53%	78%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	349.9960669035738
[deg] Pointing Dec	0	48.02861502712615
[deg] Pointing Roll	0.0	62.40250100695277
[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)	578082944.112631	578082943.08763
Observation start date	2016-04-26T18:35:44	2016-04-26T18:35:43
[s] Observation end time (MET)	578089128.962984	578089127.9379801
Observation end date	2016-04-26T20:18:49	2016-04-26T20:18:47
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.04.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.3984000506401

### A.2 Comments