

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51155 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 26 2016

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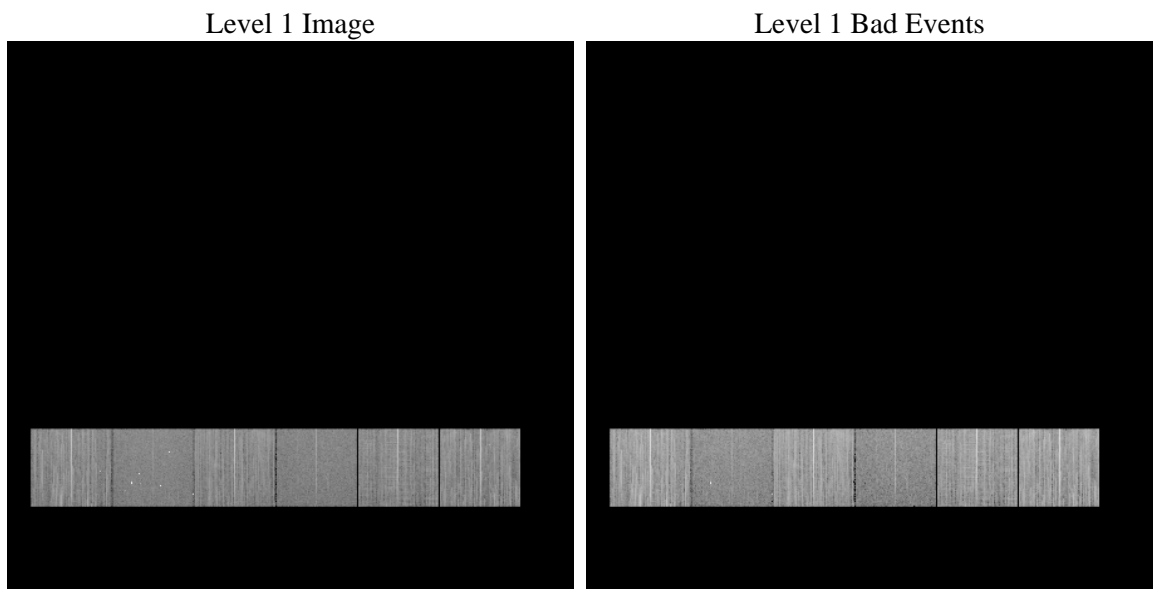
# 1 Front

seq_num	&#160	Sequence number
obs_id	51155	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	197.98490867361	Nominal RA [deg]
dec_nom	18.804481033039	Nominal Dec [deg]
roll_nom	146.27875263262	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8256.000123024	Sum of GTIs [s]
livetime	8151.4576782998	Livetime [s]
ontime4	8256.000123024	Sum of GTIs [s]
ontime5	8256.000123024	Sum of GTIs [s]
ontime6	8256.000123024	Sum of GTIs [s]
ontime7	8256.000123024	Sum of GTIs [s]
ontime8	8256.000123024	Sum of GTIs [s]
ontime9	8256.000123024	Sum of GTIs [s]
l2events	175742	Number of level 2 events

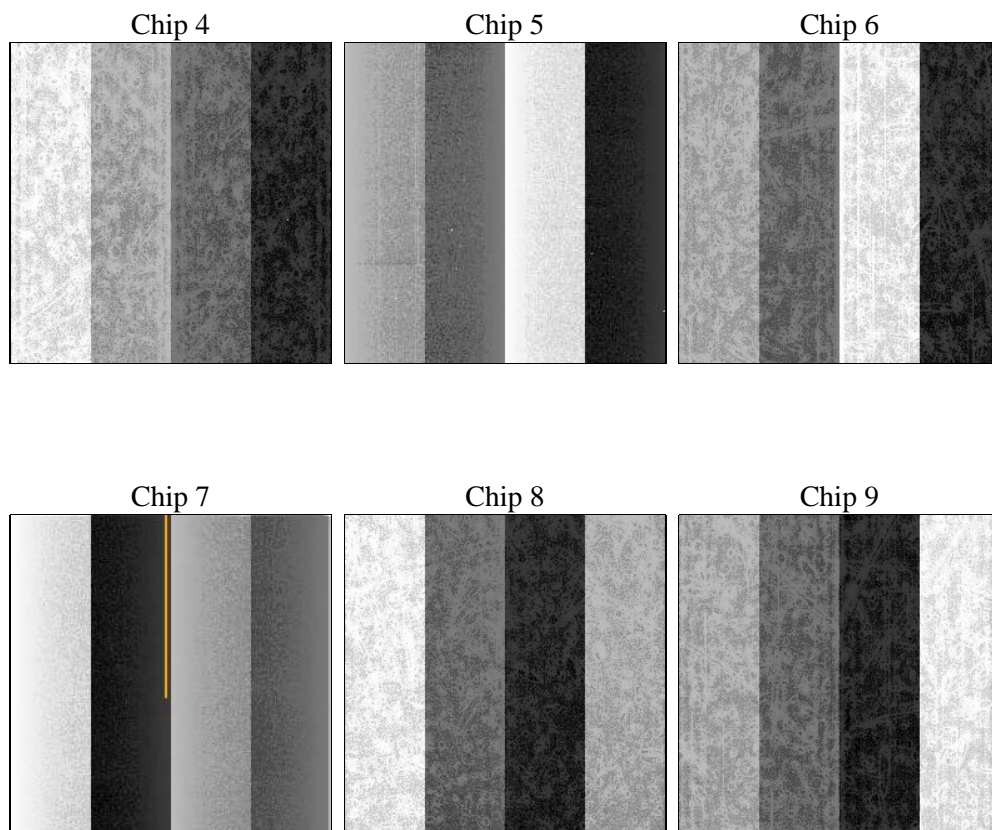
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	8256.000123024	Sum of GTIs [s]
caldbver	4.7.1	&#160	ontime4	8256.000123024	Sum of GTIs [s]
date	2016-03-26T21:35:30	Date and time of file creation	ontime5	8256.000123024	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8256.000123024	Sum of GTIs [s]
			ontime7	8256.000123024	Sum of GTIs [s]
			ontime8	8256.000123024	Sum of GTIs [s]
			ontime9	8256.000123024	Sum of GTIs [s]
			l1events	995580	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	182698	147728	177963	127118	171588	188485	grade 0 events	10343	11335	8451	5144	12285	9066
rejected events	161937	83452	157524	78380	140556	168207		5%	7%	4%	4%	7%	4%
rejected %	88%	56%	88%	61%	81%	89%	grade 1 events	108	306	47	108	68	40
								0%	0%	0%	0%	0%	0%
							grade 2 events	4390	20344	5304	12225	7183	4543
								2%	13%	2%	9%	4%	2%
							grade 3 events	1535	2021	1244	3350	2534	1474
								0%	1%	0%	2%	1%	0%
							grade 4 events	1498	1800	1331	3415	2434	1407
								0%	1%	0%	2%	1%	0%
							grade 5 events	3607	6262	3138	7826	4474	3797
								1%	4%	1%	6%	2%	2%
							grade 6 events	2995	28776	4109	24604	6596	3788
								1%	19%	2%	19%	3%	2%
							grade 7 events	158222	76884	154339	70446	136014	164370
								86%	52%	86%	55%	79%	87%

## 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	197.9849086736061	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	18.80448103303911	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	146.2787526326192	[s] Primary exposure time	3.2	3.2
[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)	575294117.80334	575294116.77834			
Observation start date	2016-03-25T11:55:18	2016-03-25T11:55:16			
[s] Observation end time (MET)	575314560.404508	575314559.37951			
Observation end date	2016-03-25T17:36:00	2016-03-25T17:35:59			
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)	2016.03.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.256000123024

### A.2 Comments