

# V&V Reference Report

## L2 ASCDS Version : 10.4.1

Observation 51738 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jul 19 2015

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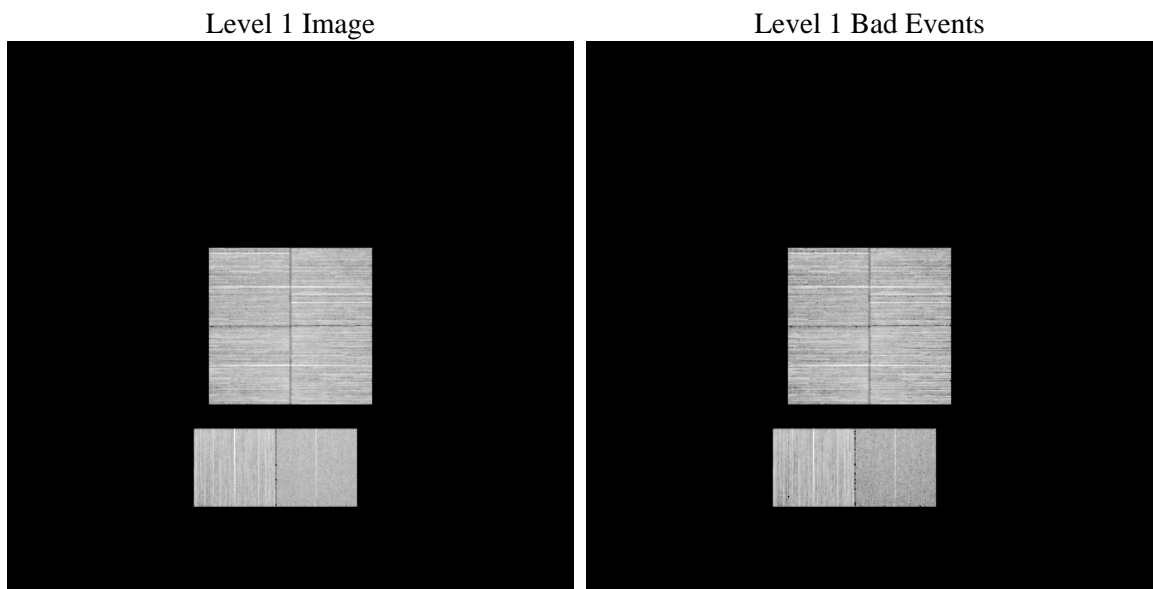
# 1 Front

seq_num	&#160	Sequence number
obs_id	51738	Observation id
title	ACIS-012367 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	327.98271930773	Nominal RA [deg]
dec_nom	-20.971424813853	Nominal Dec [deg]
roll_nom	95.612566209223	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8427.6643177271	Sum of GTIs [s]
livetime	8320.9481576058	Livetime [s]
ontime0	8427.6232776642	Sum of GTIs [s]
ontime1	8427.5822377205	Sum of GTIs [s]
ontime2	8427.5411976576	Sum of GTIs [s]
ontime3	8427.7053576708	Sum of GTIs [s]
ontime6	8427.5001577139	Sum of GTIs [s]
ontime7	8427.6643177271	Sum of GTIs [s]
l2events	151165	Number of level 2 events

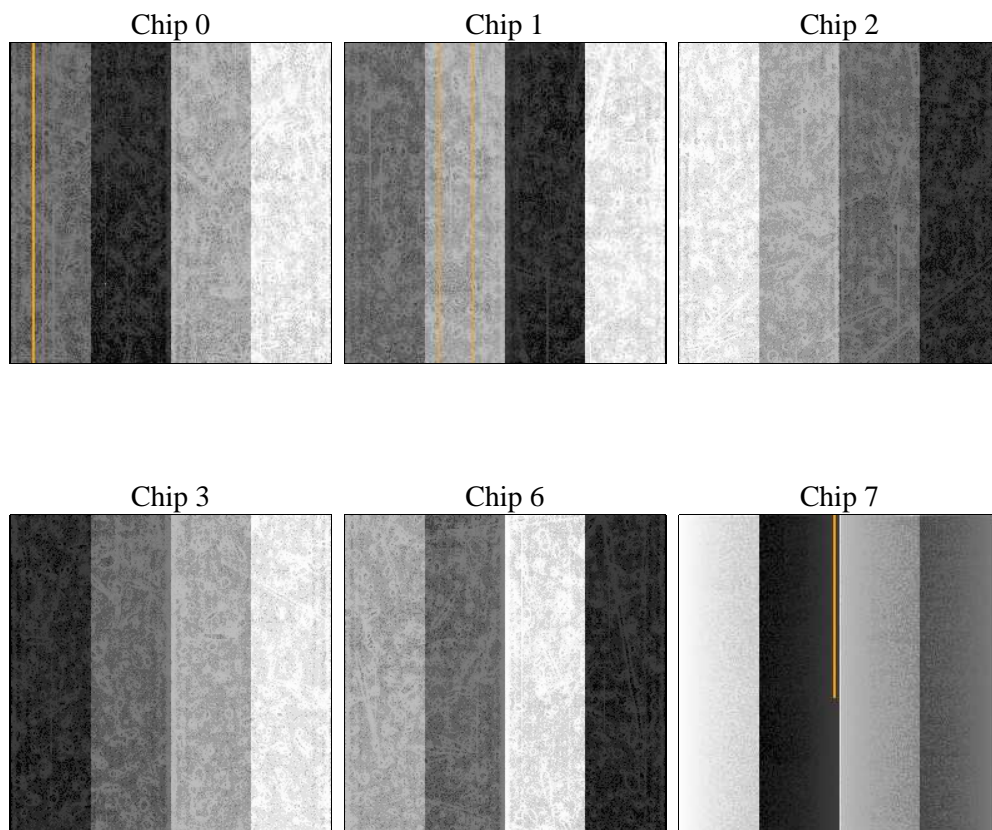
## 2 OBI

### 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	10.4.1	Processing system revision	ontime	8427.6643177271	Sum of GTIs [s]
caldsver	4.6.8	&#160	ontime0	8427.6232776642	Sum of GTIs [s]
date	2015-07-19T04:46:17	Date and time of file creation	ontime1	8427.5822377205	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8427.5411976576	Sum of GTIs [s]
			ontime3	8427.7053576708	Sum of GTIs [s]
			ontime6	8427.5001577139	Sum of GTIs [s]
			ontime7	8427.6643177271	Sum of GTIs [s]
			l1events	844955	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	131696	143380	144985	153668	151399	119827	grade 0 events	10740	10361	10887	11135	11067	6023
rejected events	109492	121073	123221	131434	128042	70686		8%	7%	7%	7%	7%	5%
rejected %	83%	84%	84%	85%	84%	58%	grade 1 events	74	50	73	76	68	96
								0%	0%	0%	0%	0%	0%
							grade 2 events	4841	4922	4357	4382	4915	12272
								3%	3%	3%	2%	3%	10%
							grade 3 events	1586	1586	1528	1614	1560	3897
								1%	1%	1%	1%	1%	3%
							grade 4 events	1477	1532	1648	1595	1589	3716
								1%	1%	1%	1%	1%	3%
							grade 5 events	2976	2976	2837	3207	3154	7738
								2%	2%	1%	2%	2%	6%
							grade 6 events	3622	3989	3419	3583	4293	23408
								2%	2%	2%	2%	2%	19%
							grade 7 events	106380	117964	120236	128076	124753	62677
								80%	82%	82%	83%	82%	52%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	327.9827193077296	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-20.9714248138533	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	95.61256620922265	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.7809083437167272			
[mm] SIM defocus	0.1037507710433287	0.7524282956875696			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	553632471.051617	553632470.02662			
Observation start date	2015-07-18T18:47:51	2015-07-18T18:47:50			
[s] Observation end time (MET)	553644516.852295	553644515.8273			
Observation end date	2015-07-18T22:08:37	2015-07-18T22:08:35			
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)	2015.07.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4276643177271

### A.2 Comments