

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 51952 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 14 2015

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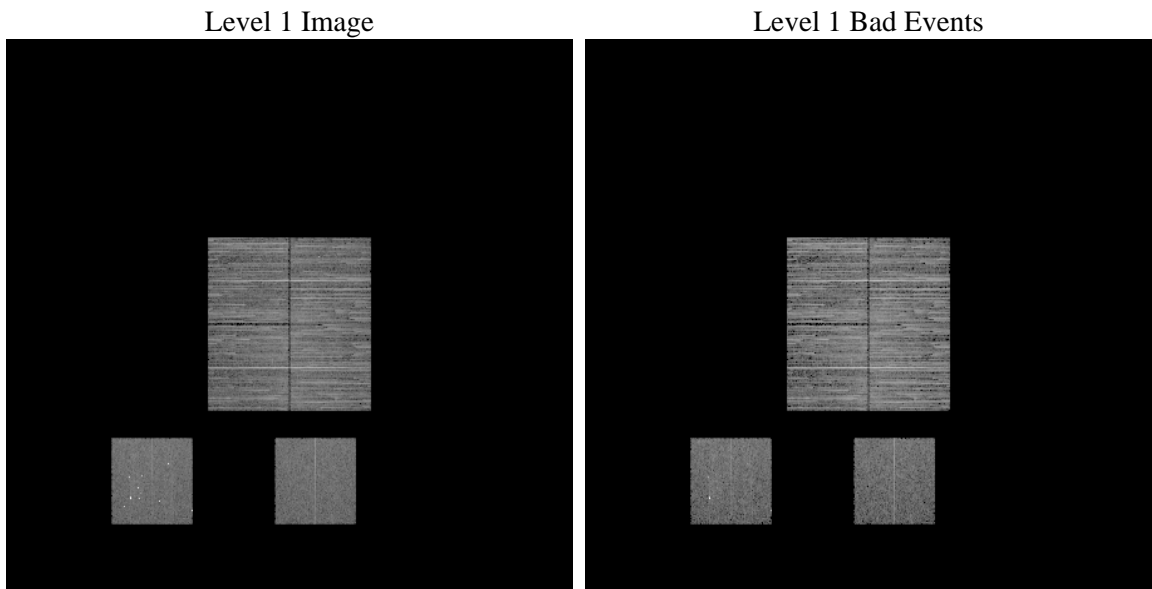
# 1 Front

seq_num	&#160	Sequence number
obs_id	51952	Observation id
title	ACIS-012357 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	229.79322635023	Nominal RA [deg]
dec_nom	-21.371822514688	Nominal Dec [deg]
roll_nom	69.776908421104	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5286.4000787735	Sum of GTIs [s]
livetime	5219.4604978881	Livetime [s]
ontime0	5286.4000787735	Sum of GTIs [s]
ontime1	5286.4000787735	Sum of GTIs [s]
ontime2	5286.4000787735	Sum of GTIs [s]
ontime3	5286.4000787735	Sum of GTIs [s]
ontime5	5286.4000787735	Sum of GTIs [s]
ontime7	5286.4000787735	Sum of GTIs [s]
l2events	108513	Number of level 2 events

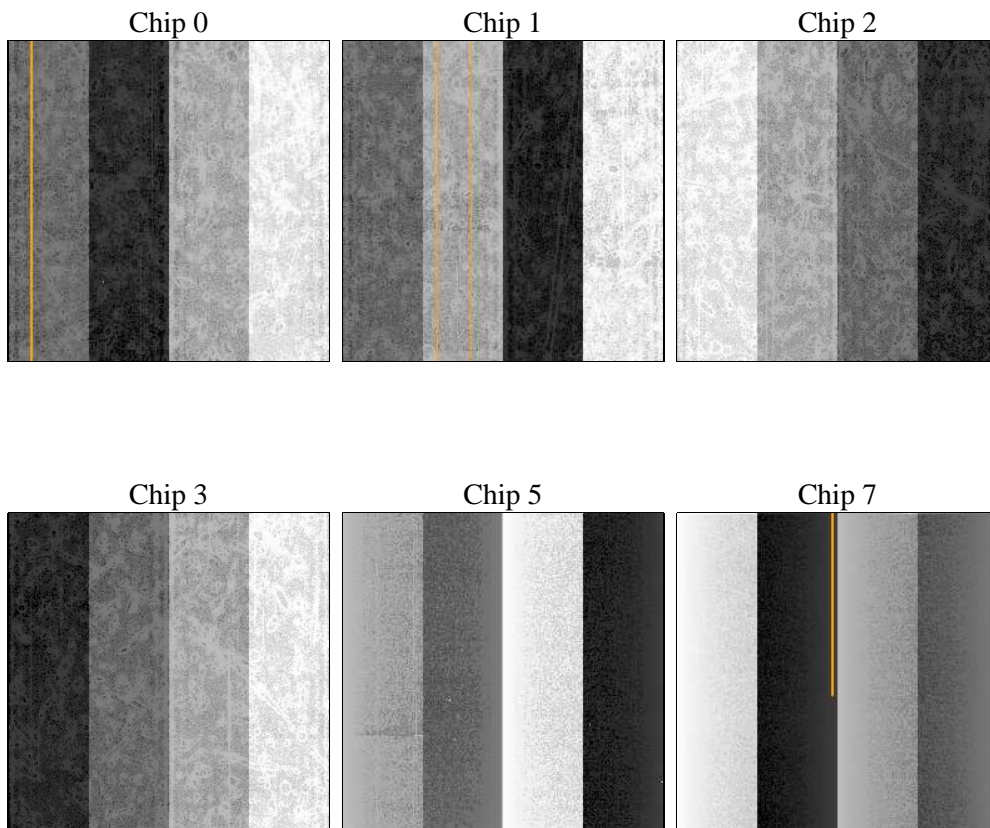
## 2 OBI

### 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	10.3.3	Processing system revision	ontime	5286.4000787735	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	5286.4000787735	Sum of GTIs [s]
date	2015-04-14T22:14:09	Date and time of file creation	ontime1	5286.4000787735	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5286.4000787735	Sum of GTIs [s]
			ontime3	5286.4000787735	Sum of GTIs [s]
			ontime5	5286.4000787735	Sum of GTIs [s]
			ontime7	5286.4000787735	Sum of GTIs [s]
			l1events	511958	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	86825	92630	82469	95214	85437	69383	grade 0 events	6837	6528	7171	7052	8574	3577
rejected events	72950	78525	68439	81252	45739	41071		7%	7%	8%	7%	10%	5%
rejected %	84%	84%	82%	85%	53%	59%	grade 1 events	38	29	39	37	118	39
								0%	0%	0%	0%	0%	0%
							grade 2 events	3148	3543	2953	2982	12812	7100
								3%	3%	3%	3%	14%	10%
							grade 3 events	931	930	996	919	2160	2203
								1%	1%	1%	0%	2%	3%
							grade 4 events	892	868	981	966	1447	2026
								1%	0%	1%	1%	1%	2%
							grade 5 events	1620	1577	1658	1791	3285	4120
								1%	1%	2%	1%	3%	5%
							grade 6 events	2337	2513	2193	2307	15510	13959
								2%	2%	2%	2%	18%	20%
							grade 7 events	71022	76642	66478	79160	41531	36359
								81%	82%	80%	83%	48%	52%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	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	229.7932263502323	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-21.37182251468763	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	69.77690842110428	[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)	545400919.039454	545400918.01445			
Observation start date	2015-04-14T12:15:19	2015-04-14T12:15:18			
[s] Observation end time (MET)	545410789.790006	545410788.76501			
Observation end date	2015-04-14T14:59:50	2015-04-14T14:59:48			
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)	2015.04.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.2864000787735

### A.2 Comments