

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 52023 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 11 2015

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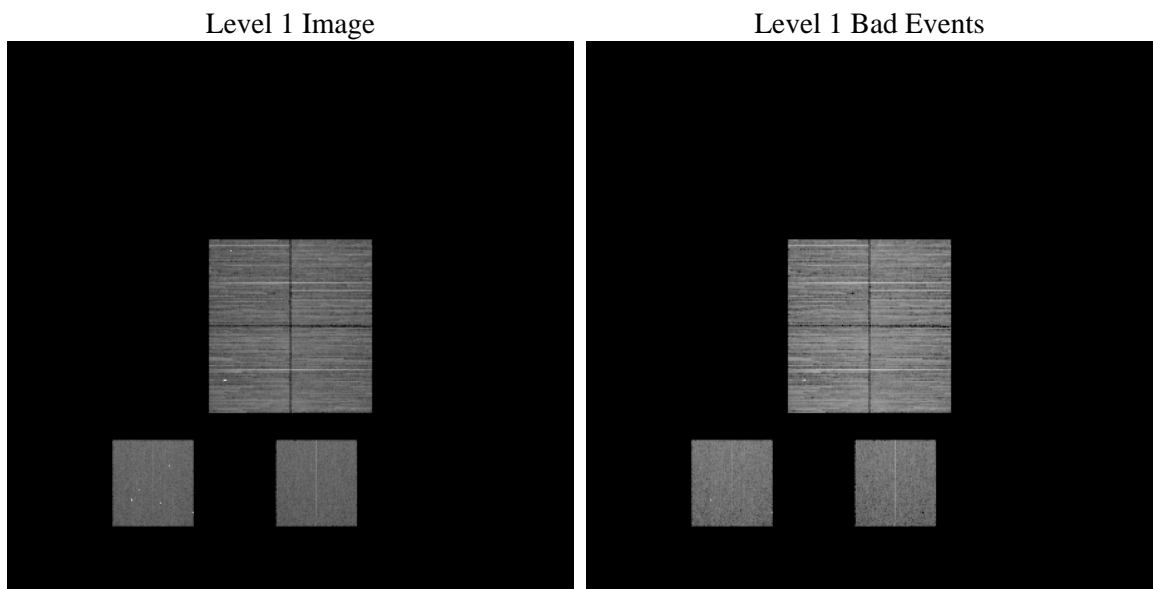
# 1 Front

seq_num	&#160	Sequence number
obs_id	52023	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	284.98812105835	Nominal RA [deg]
dec_nom	27.026254968098	Nominal Dec [deg]
roll_nom	74.49529990906	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8256.000123024	Sum of GTIs [s]
livetime	8151.4576782998	Livetime [s]
ontime0	8256.000123024	Sum of GTIs [s]
ontime1	8256.000123024	Sum of GTIs [s]
ontime2	8256.000123024	Sum of GTIs [s]
ontime3	8256.000123024	Sum of GTIs [s]
ontime5	8256.000123024	Sum of GTIs [s]
ontime7	8256.000123024	Sum of GTIs [s]
l2events	177514	Number of level 2 events

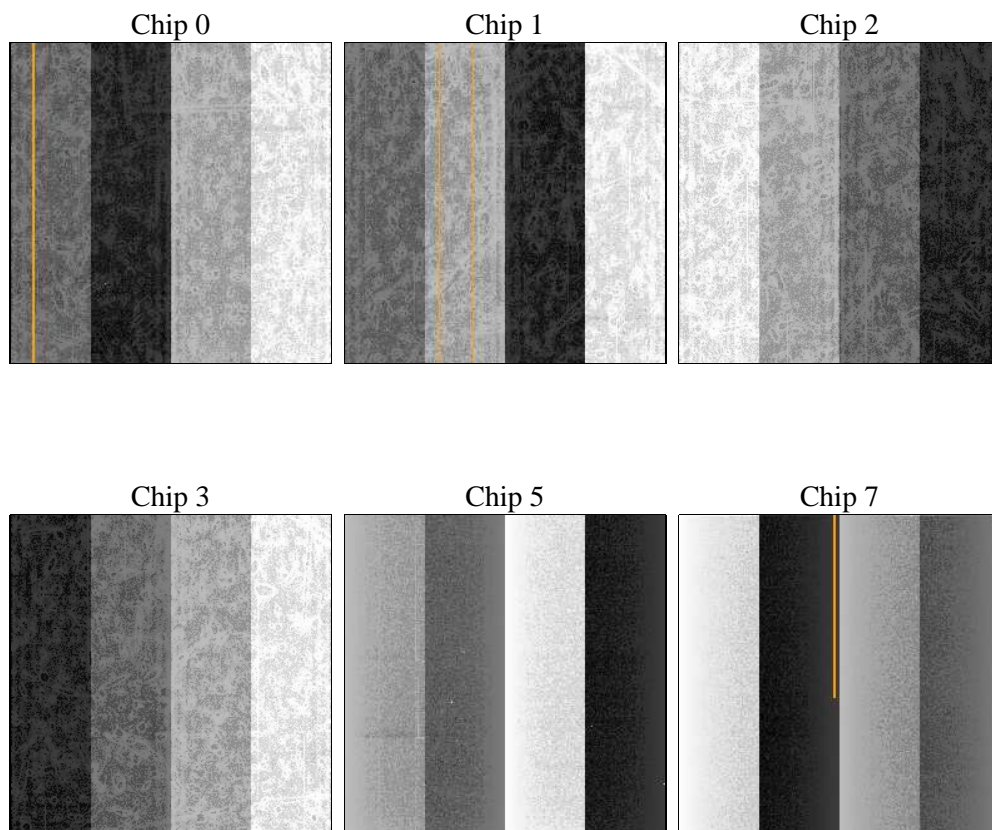
## 2 OBI

### 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	8256.000123024	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	8256.000123024	Sum of GTIs [s]
date	2015-03-11T16:20:22	Date and time of file creation	ontime1	8256.000123024	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8256.000123024	Sum of GTIs [s]
			ontime3	8256.000123024	Sum of GTIs [s]
			ontime5	8256.000123024	Sum of GTIs [s]
			ontime7	8256.000123024	Sum of GTIs [s]
			l1events	831507	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	134702	145013	166761	150135	122277	112619	grade 0 events	13097	10604	13744	11393	7502	5697
rejected events	109975	121902	134441	127705	67470	65870		9%	7%	8%	7%	6%	5%
rejected %	81%	84%	80%	85%	55%	58%	grade 1 events	41	43	75	79	351	68
								0%	0%	0%	0%	0%	0%
							grade 2 events	4908	5605	11945	4568	19002	11695
								3%	3%	7%	3%	15%	10%
							grade 3 events	1546	1375	1574	1496	1570	3517
								1%	0%	0%	0%	1%	3%
							grade 4 events	1484	1499	1563	1548	1577	3511
								1%	1%	0%	1%	1%	3%
							grade 5 events	2685	2563	2493	2924	5152	6828
								1%	1%	1%	1%	4%	6%
							grade 6 events	3692	4028	3494	3441	25156	22329
								2%	2%	2%	2%	20%	19%
							grade 7 events	107249	119296	131873	124686	61967	58974
								79%	82%	79%	83%	50%	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	284.9881210583453	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	27.02625496809761	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	74.49529990905977	[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)	542393673.421087	542393672.39609			
Observation start date	2015-03-10T16:54:33	2015-03-10T16:54:32			
[s] Observation end time (MET)	542436282.67347	542436281.64847			
Observation end date	2015-03-11T04:44:43	2015-03-11T04:44:41			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.03.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.256000123024

### A.2 Comments