

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 51877 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 22 2015

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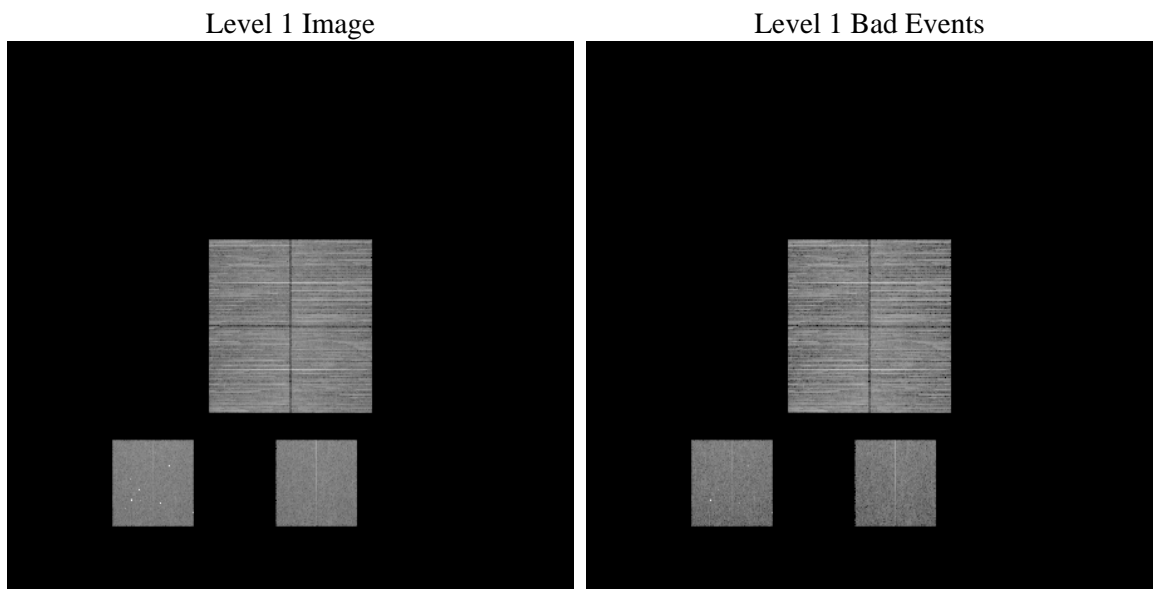
# 1 Front

seq_num	&#160	Sequence number
obs_id	51877	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	317.71042902413	Nominal RA [deg]
dec_nom	-20.514463624599	Nominal Dec [deg]
roll_nom	99.644879423247	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8088.5975382328	Sum of GTIs [s]
livetime	7986.174845835	Livetime [s]
ontime0	8088.5564981699	Sum of GTIs [s]
ontime1	8088.5154582262	Sum of GTIs [s]
ontime2	8088.4744181633	Sum of GTIs [s]
ontime3	8088.6385781765	Sum of GTIs [s]
ontime5	8088.4333782196	Sum of GTIs [s]
ontime7	8088.5975382328	Sum of GTIs [s]
l2events	178080	Number of level 2 events

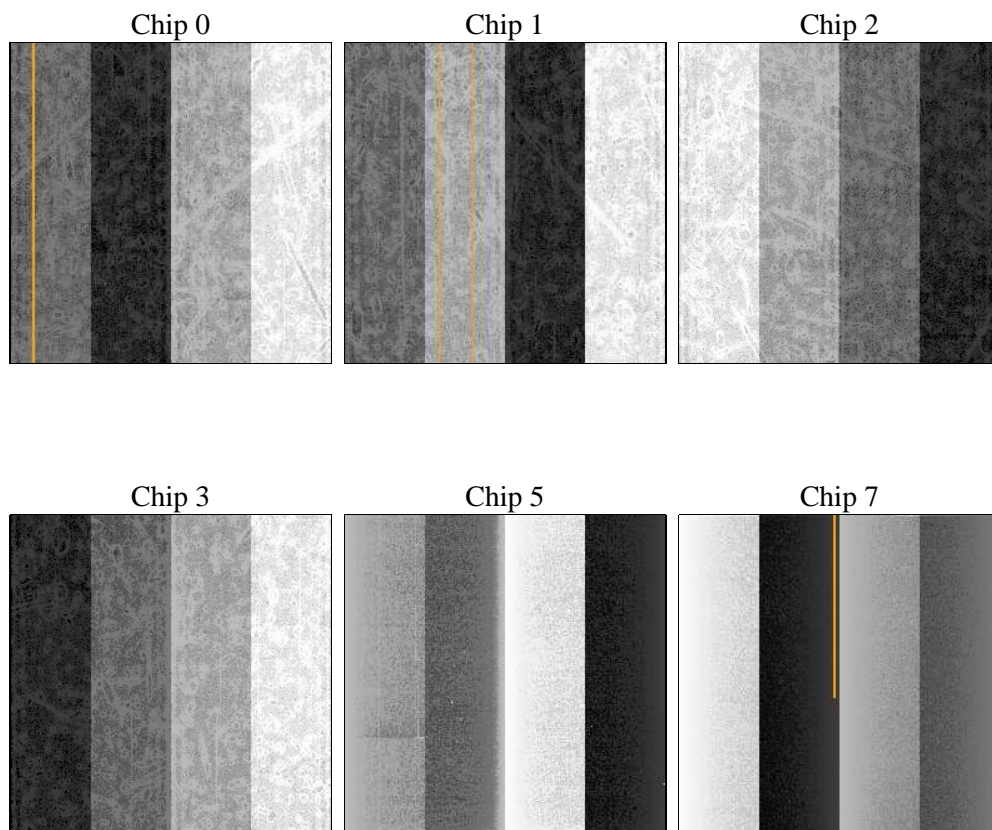
## 2 OBI

### 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	10.3.3	Processing system revision	ontime	8088.5975382328	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	8088.5564981699	Sum of GTIs [s]
date	2015-05-22T03:58:04	Date and time of file creation	ontime1	8088.5154582262	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8088.4744181633	Sum of GTIs [s]
			ontime3	8088.6385781765	Sum of GTIs [s]
			ontime5	8088.4333782196	Sum of GTIs [s]
			ontime7	8088.5975382328	Sum of GTIs [s]
			l1events	823133	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	136828	147021	151262	143292	130172	114558	grade 0 events	11288	10657	11441	11532	11784	6225
rejected events	114274	124505	128821	120944	72090	67071		8%	7%	7%	8%	9%	5%
rejected %	83%	84%	85%	84%	55%	58%	grade 1 events	64	68	77	73	138	98
								0%	0%	0%	0%	0%	0%
							grade 2 events	4907	5273	4621	4586	19501	12136
								3%	3%	3%	3%	14%	10%
							grade 3 events	1644	1583	1650	1643	1661	3838
								1%	1%	1%	1%	1%	3%
							grade 4 events	1540	1642	1645	1596	1662	3811
								1%	1%	1%	1%	1%	3%
							grade 5 events	2741	2678	2664	3016	5539	7150
								2%	1%	1%	2%	4%	6%
							grade 6 events	3911	4057	3796	3688	25032	22730
								2%	2%	2%	2%	19%	19%
							grade 7 events	110733	121063	125368	117158	64855	58570
								80%	82%	82%	81%	49%	51%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	317.7104290241262
[deg] Pointing Dec	0	-20.51446362459912
[deg] Pointing Roll	0.0	99.64487942324726
SIM focus pos (mm)	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	548562550.166672	548562550.166672
Observation start date	2015-05-21T02:29:10	2015-05-21T02:29:10
[s] Observation end time (MET)	548572097.617738	548572097.617738
Observation end date	2015-05-21T05:08:18	2015-05-21T05:08:17
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
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	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.05.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0885975382328

### A.2 Comments