

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 52103 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Feb 7 2015

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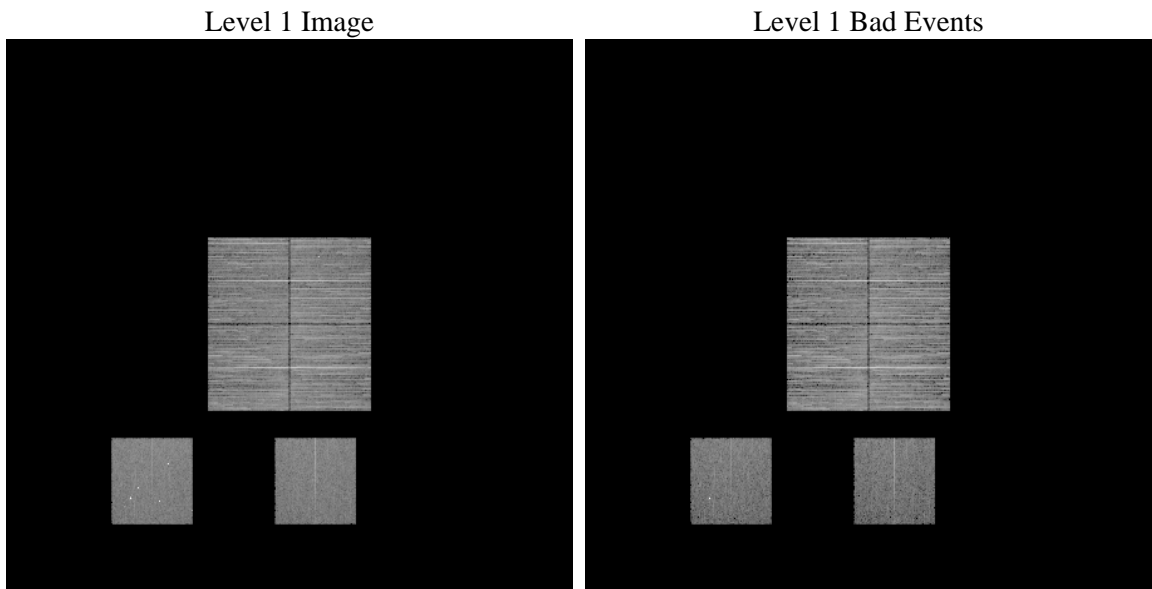
# 1 Front

seq_num	&#160	Sequence number
obs_id	52103	Observation id
title	ACIS-012357 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycle	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	128.99546927453	Nominal RA [deg]
dec_nom	7.4139079887572	Nominal Dec [deg]
roll_nom	291.02335519888	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6283.2887706757	Sum of GTIs [s]
livetime	6203.7259849191	Livetime [s]
ontime0	6283.2477306128	Sum of GTIs [s]
ontime1	6283.2066906691	Sum of GTIs [s]
ontime2	6283.1656506062	Sum of GTIs [s]
ontime3	6283.3298106194	Sum of GTIs [s]
ontime5	6283.1246106625	Sum of GTIs [s]
ontime7	6283.2887706757	Sum of GTIs [s]
l2events	136654	Number of level 2 events

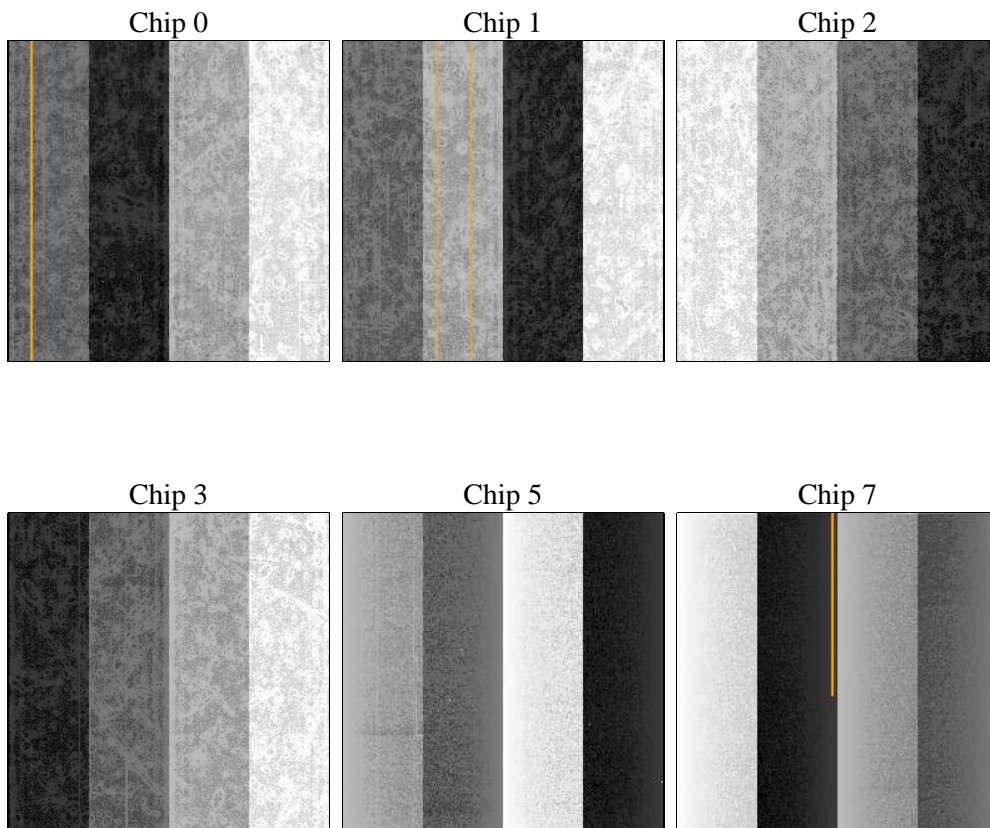
## 2 OBI

### 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	6283.2887706757	Sum of GTIs [s]
caldsver	4.6.6	&#160	ontime0	6283.2477306128	Sum of GTIs [s]
date	2015-02-07T15:11:19	Date and time of file creation	ontime1	6283.2066906691	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6283.1656506062	Sum of GTIs [s]
			ontime3	6283.3298106194	Sum of GTIs [s]
			ontime5	6283.1246106625	Sum of GTIs [s]
			ontime7	6283.2887706757	Sum of GTIs [s]
			l1events	648398	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	106486	116349	119676	121503	98124	86260	grade 0 events	8596	8568	8713	8957	7823	4491
rejected events	89200	98373	102414	103863	54733	50326		8%	7%	7%	7%	7%	5%
rejected %	83%	84%	85%	85%	55%	58%	grade 1 events	54	47	48	50	93	57
								0%	0%	0%	0%	0%	0%
							grade 2 events	3705	4086	3609	3582	14391	8859
								3%	3%	3%	2%	14%	10%
							grade 3 events	1229	1132	1207	1264	1239	2718
								1%	0%	1%	1%	1%	3%
							grade 4 events	1160	1138	1224	1274	1172	2702
								1%	0%	1%	1%	1%	3%
							grade 5 events	2153	2058	1997	2333	5102	5229
								2%	1%	1%	1%	5%	6%
							grade 6 events	2764	3202	2659	2704	19154	17508
								2%	2%	2%	2%	19%	20%
							grade 7 events	86825	96118	100219	101339	49150	44696
								81%	82%	83%	83%	50%	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	128.9954692745256
[deg] Pointing Dec	0	7.413907988757203
[deg] Pointing Roll	0.0	291.0233551988821
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)	539655830.618039	539655830.618039
Observation start date	2015-02-07T00:23:51	2015-02-07T00:23:50
[s] Observation end time (MET)	539663462.856626	539663462.856626
Observation end date	2015-02-07T02:31:03	2015-02-07T02:31:02
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	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.02.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.2832887706757

### A.2 Comments