

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51017 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 18 2016

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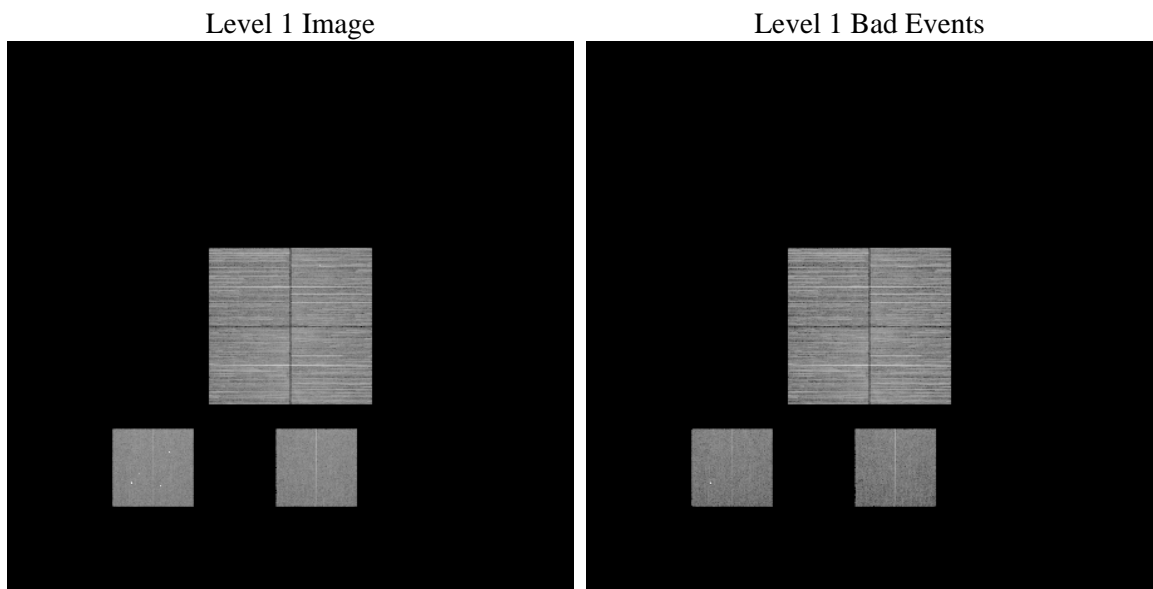
# 1 Front

seq_num	&#160	Sequence number
obs_id	51017	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	57.249403651002	Nominal RA [deg]
dec_nom	19.290925310106	Nominal Dec [deg]
roll_nom	204.61102819608	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8268.8001232147	Sum of GTIs [s]
livetime	8164.0955971809	Livetime [s]
ontime0	8268.8001232147	Sum of GTIs [s]
ontime1	8268.7991284132	Sum of GTIs [s]
ontime2	8268.7580883503	Sum of GTIs [s]
ontime3	8268.8001232147	Sum of GTIs [s]
ontime5	8268.7170484066	Sum of GTIs [s]
ontime7	8268.8001232147	Sum of GTIs [s]
l2events	183807	Number of level 2 events

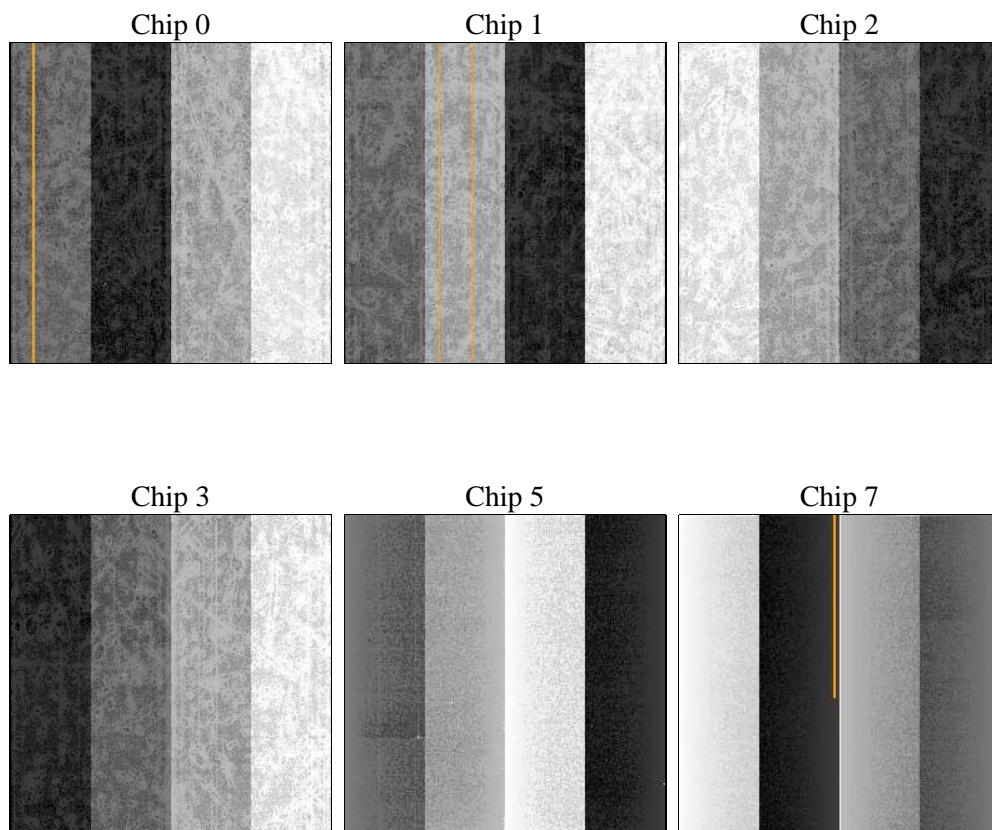
## 2 OBI

### 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	10.4.3.1	Processing system revision	ontime	8268.8001232147	Sum of GTIs [s]
caldsver	4.7.1	&#160	ontime0	8268.8001232147	Sum of GTIs [s]
date	2016-05-18T20:36:10	Date and time of file creation	ontime1	8268.7991284132	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8268.7580883503	Sum of GTIs [s]
			ontime3	8268.8001232147	Sum of GTIs [s]
			ontime5	8268.7170484066	Sum of GTIs [s]
			ontime7	8268.8001232147	Sum of GTIs [s]
			l1events	1010499	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	171317	180550	179823	188681	152531	137597	grade 0 events	9519	9429	9965	9924	7024	5911
rejected events	151306	159718	159680	168286	89811	84564		5%	5%	5%	5%	4%	4%
rejected %	88%	88%	88%	89%	58%	61%	grade 1 events	65	63	95	80	198	122
								0%	0%	0%	0%	0%	0%
							grade 2 events	4523	4961	4289	4338	22621	13429
								2%	2%	2%	2%	14%	9%
							grade 3 events	1563	1499	1505	1484	1907	4185
								0%	0%	0%	0%	1%	3%
							grade 4 events	1457	1582	1506	1541	1878	4045
								0%	0%	0%	0%	1%	2%
							grade 5 events	3241	3278	3179	3655	7198	8962
								1%	1%	1%	1%	4%	6%
							grade 6 events	3422	3837	3286	3549	30725	26720
								1%	2%	1%	1%	20%	19%
							grade 7 events	147527	155901	155998	164110	80980	74223
								86%	86%	86%	86%	53%	53%

## 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	57.24940365100198
[deg] Pointing Dec	0	19.29092531010598
[deg] Pointing Roll	0.0	204.6110281960757
SIM focus pos (mm)	-0.68282252473119	-0.68282252473119
[mm] SIM defocus	0.8505140384245534	0.8505140384245534
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	579912698.367273	579912698.367273
Observation start date	2016-05-17T22:51:38	2016-05-17T22:51:38
[s] Observation end time (MET)	579922694.876385	579922694.876385
Observation end date	2016-05-18T01:38:15	2016-05-18T01:38:14
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	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.05.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2688001232147

### A.2 Comments