

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51007 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 23 2016

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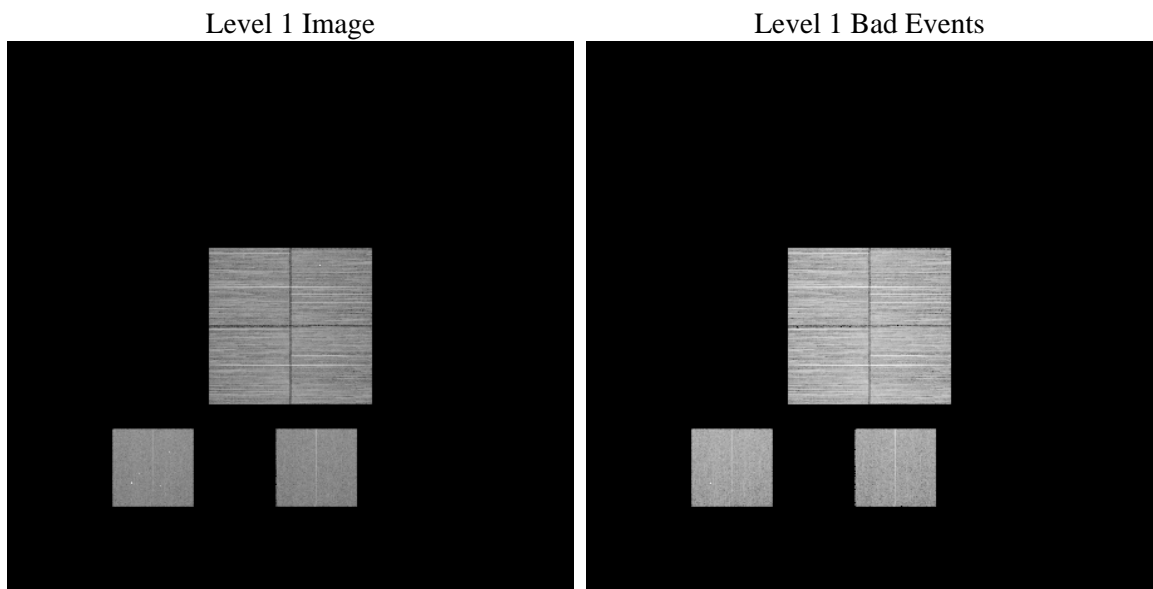
# 1 Front

seq_num	&#160	Sequence number
obs_id	51007	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	236.33288573612	Nominal RA [deg]
dec_nom	-34.590156702747	Nominal Dec [deg]
roll_nom	347.14426722613	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8254.8628805876	Sum of GTIs [s]
livetime	8150.3348363119	Livetime [s]
ontime0	8254.8218405247	Sum of GTIs [s]
ontime1	8254.780800581	Sum of GTIs [s]
ontime2	8254.7397605181	Sum of GTIs [s]
ontime3	8251.6630496979	Sum of GTIs [s]
ontime5	8254.6987205744	Sum of GTIs [s]
ontime7	8254.8628805876	Sum of GTIs [s]
l2events	188696	Number of level 2 events

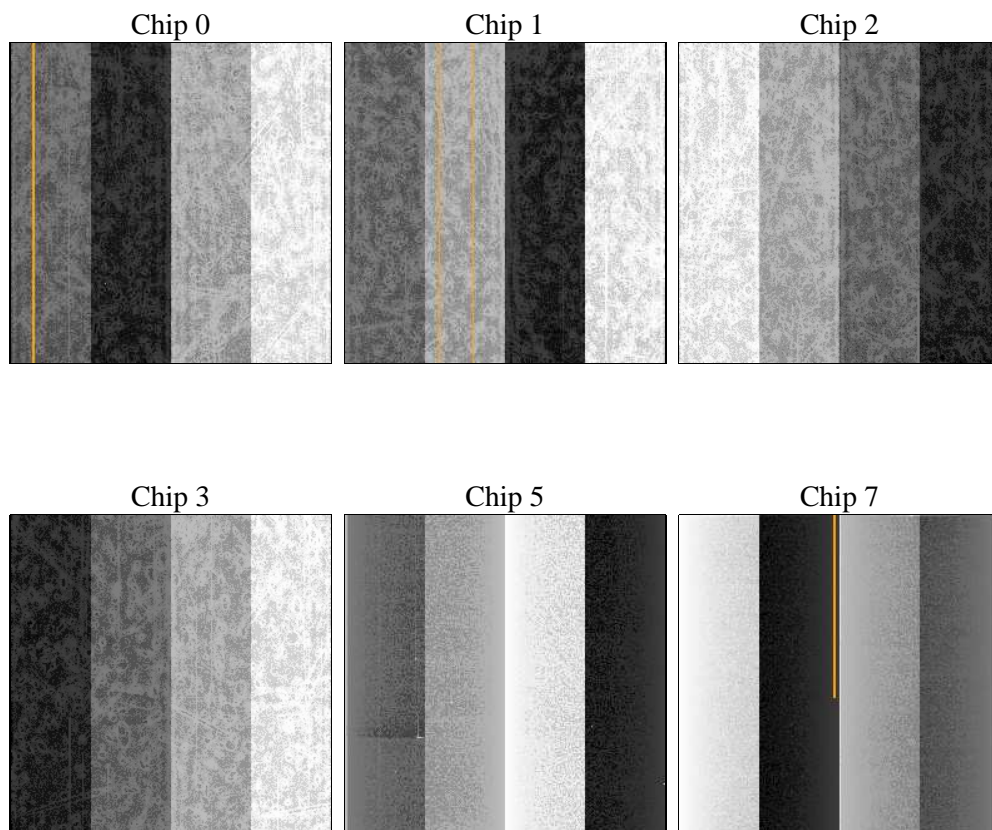
## 2 OBI

### 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	8254.8628805876	Sum of GTIs [s]
caldsver	4.7.1	&#160	ontime0	8254.8218405247	Sum of GTIs [s]
date	2016-05-23T05:05:39	Date and time of file creation	ontime1	8254.780800581	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8254.7397605181	Sum of GTIs [s]
			ontime3	8251.6630496979	Sum of GTIs [s]
			ontime5	8254.6987205744	Sum of GTIs [s]
			ontime7	8254.8628805876	Sum of GTIs [s]
			l1events	983090	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	175219	169054	180212	177715	146166	134724	grade 0 events	10272	11809	10532	10314	4592	5863
rejected events	153365	145019	158547	156111	86149	81726		5%	6%	5%	5%	3%	4%
rejected %	87%	85%	87%	87%	58%	60%	grade 1 events	74	80	74	77	160	97
								0%	0%	0%	0%	0%	0%
							grade 2 events	4928	5220	4590	4467	22157	13336
								2%	3%	2%	2%	15%	9%
							grade 3 events	1558	1535	1431	1631	1882	3899
								0%	0%	0%	0%	1%	2%
							grade 4 events	1467	1540	1650	1604	1763	3954
								0%	0%	0%	0%	1%	2%
							grade 5 events	3185	3385	3024	3605	7110	8646
								1%	2%	1%	2%	4%	6%
							grade 6 events	3737	4038	3563	3677	29851	26148
								2%	2%	1%	2%	20%	19%
							grade 7 events	149998	141447	155348	152340	78651	72781
								85%	83%	86%	85%	53%	54%

## 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	236.3328857361167
[deg] Pointing Dec	0	-34.59015670274695
[deg] Pointing Roll	0.0	347.1442672261251
[mm] SIM focus pos	-1.429586	-0.7809083437167272
[mm] SIM defocus	0.1037507710433287	0.7524282956875696
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	580324129.2908061	580324128.26581
Observation start date	2016-05-22T17:08:49	2016-05-22T17:08:48
[s] Observation end time (MET)	580333870.891363	580333869.8663599
Observation end date	2016-05-22T19:51:11	2016-05-22T19:51:09
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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)	2016.05.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2548628805876

### A.2 Comments