

# V&V Reference Report

## L2 ASCDS Version : 10.4.1

Observation 51725 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jul 27 2015

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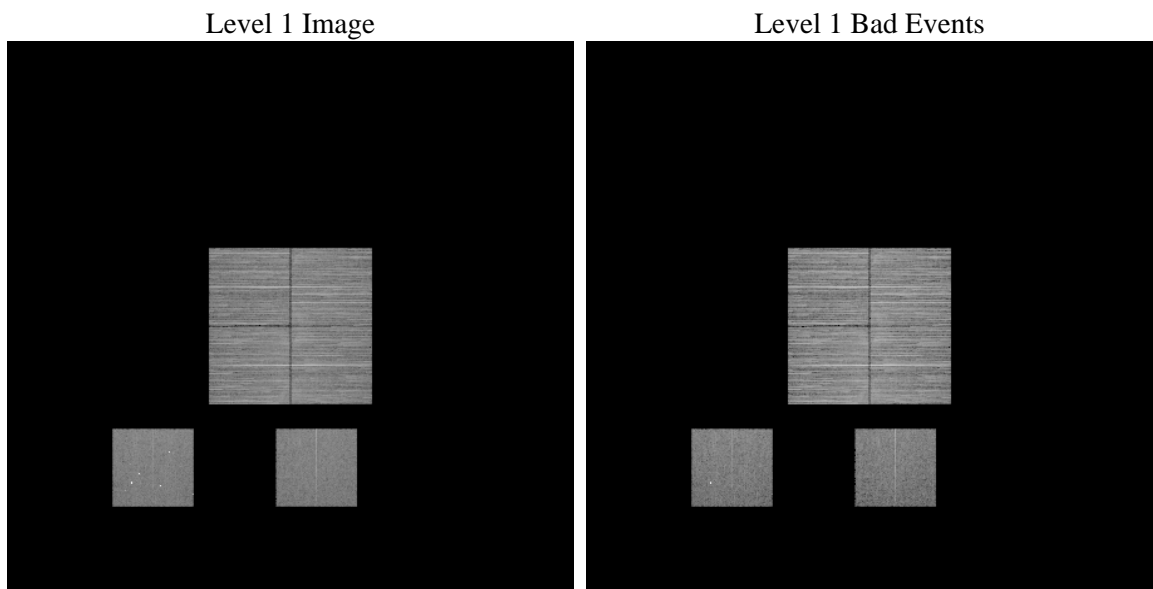
# 1 Front

seq_num	&#160	Sequence number
obs_id	51725	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	329.59388861087	Nominal RA [deg]
dec_nom	-5.1330455393391	Nominal Dec [deg]
roll_nom	123.2264789094	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8208.0001223087	Sum of GTIs [s]
livetime	8104.0654824957	Livetime [s]
ontime0	8208.0001223087	Sum of GTIs [s]
ontime1	8208.0001223087	Sum of GTIs [s]
ontime2	8208.0001223087	Sum of GTIs [s]
ontime3	8208.0001223087	Sum of GTIs [s]
ontime5	8208.0001223087	Sum of GTIs [s]
ontime7	8208.0001223087	Sum of GTIs [s]
l2events	215641	Number of level 2 events

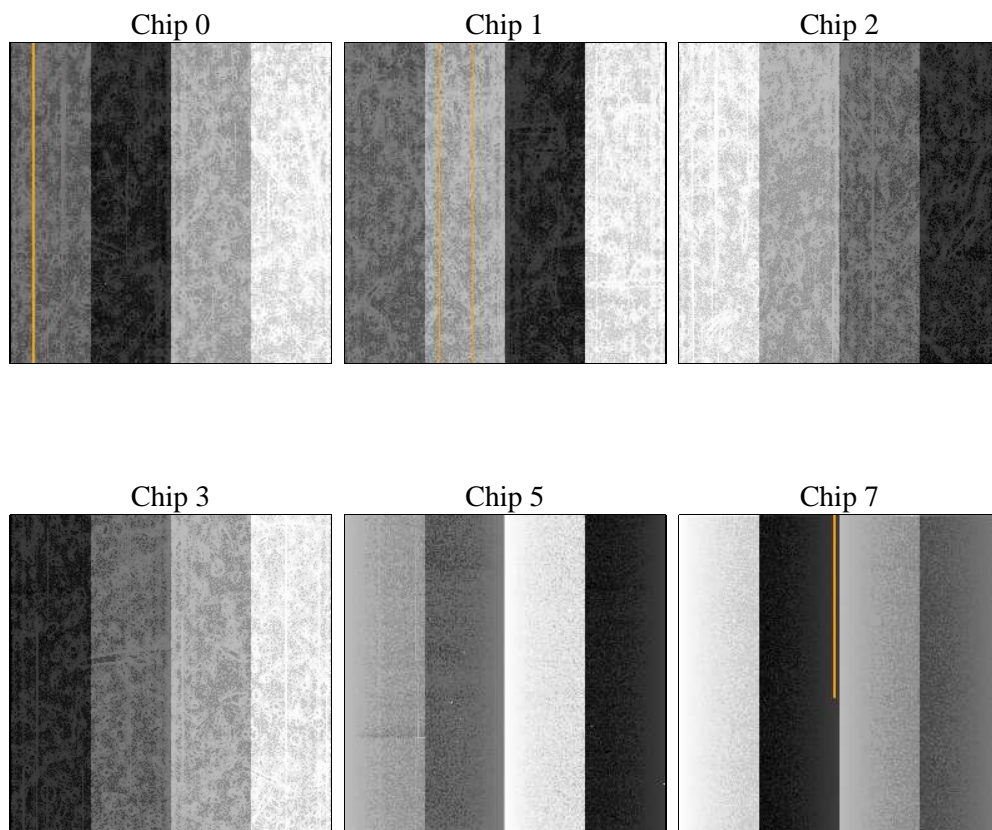
## 2 OBI

### 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	10.4.1	Processing system revision	ontime	8208.0001223087	Sum of GTIs [s]
caldsver	4.6.8	&#160	ontime0	8208.0001223087	Sum of GTIs [s]
date	2015-07-27T12:33:12	Date and time of file creation	ontime1	8208.0001223087	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8208.0001223087	Sum of GTIs [s]
			ontime3	8208.0001223087	Sum of GTIs [s]
			ontime5	8208.0001223087	Sum of GTIs [s]
			ontime7	8208.0001223087	Sum of GTIs [s]
			l1events	931188	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	156959	168014	170385	165985	142229	127616	grade 0 events	13257	12551	14420	14068	12362	7128
rejected events	128400	138288	141377	136665	76704	73266		8%	7%	8%	8%	8%	5%
rejected %	81%	82%	82%	82%	53%	57%	grade 1 events	85	48	83	87	231	72
								0%	0%	0%	0%	0%	0%
							grade 2 events	6549	8077	6153	6295	21990	14113
								4%	4%	3%	3%	15%	11%
							grade 3 events	1882	1793	1872	2026	2228	3961
								1%	1%	1%	1%	1%	3%
							grade 4 events	1773	1745	1942	2051	1702	3754
								1%	1%	1%	1%	1%	2%
							grade 5 events	2894	2750	2695	3318	5857	7364
								1%	1%	1%	1%	4%	5%
							grade 6 events	5462	5940	5015	5298	27793	25883
								3%	3%	2%	3%	19%	20%
							grade 7 events	125057	135110	138205	132842	70066	65341
								79%	80%	81%	80%	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	329.5938886108697
[deg] Pointing Dec	0	-5.133045539339108
[deg] Pointing Roll	0.0	123.226478909402
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)	554274403.987685	554274403.987685
Observation start date	2015-07-26T05:06:44	2015-07-26T05:06:43
[s] Observation end time (MET)	554283953.018592	554283953.018592
Observation end date	2015-07-26T07:45:53	2015-07-26T07:45:53
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)	2015.07.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2080001223087

### A.2 Comments