

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 51956 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 13 2015

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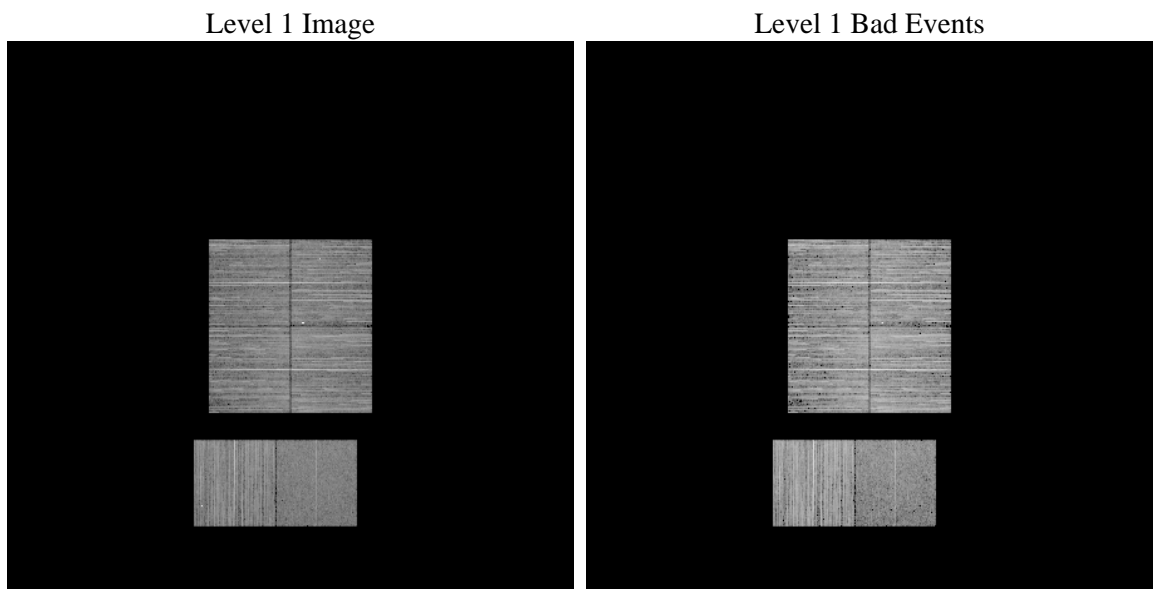
# 1 Front

seq_num	&#160	Sequence number
obs_id	51956	Observation id
title	ACIS-012367 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	224.7635346478	Nominal RA [deg]
dec_nom	15.707496969565	Nominal Dec [deg]
roll_nom	132.67028750984	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5750.4000856876	Sum of GTIs [s]
livetime	5677.5850573274	Livetime [s]
ontime0	5750.4000856876	Sum of GTIs [s]
ontime1	5750.4000856876	Sum of GTIs [s]
ontime2	5750.4000856876	Sum of GTIs [s]
ontime3	5750.4000856876	Sum of GTIs [s]
ontime6	5750.4000856876	Sum of GTIs [s]
ontime7	5750.4000856876	Sum of GTIs [s]
l2events	104752	Number of level 2 events

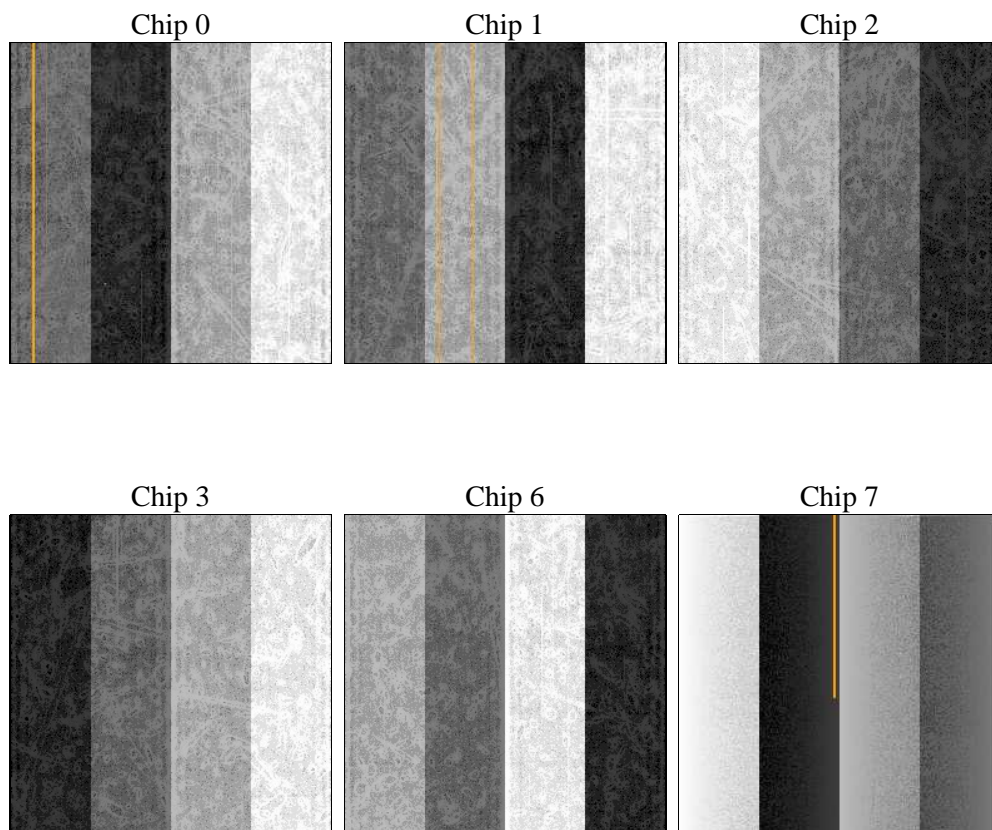
## 2 OBI

### 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	5750.4000856876	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	5750.4000856876	Sum of GTIs [s]
date	2015-04-13T12:22:07	Date and time of file creation	ontime1	5750.4000856876	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5750.4000856876	Sum of GTIs [s]
			ontime3	5750.4000856876	Sum of GTIs [s]
			ontime6	5750.4000856876	Sum of GTIs [s]
			ontime7	5750.4000856876	Sum of GTIs [s]
			l1events	562325	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	87030	100260	91912	103498	104855	74770	grade 0 events	7679	8983	7982	7902	8922	3917
rejected events	71244	81339	76048	87693	86714	43246		8%	8%	8%	7%	8%	5%
rejected %	81%	81%	82%	84%	82%	57%	grade 1 events	38	38	39	52	51	45
								0%	0%	0%	0%	0%	0%
							grade 2 events	3350	5065	3252	3185	3981	7815
								3%	5%	3%	3%	3%	10%
							grade 3 events	1065	1024	1080	1101	1014	2282
								1%	1%	1%	1%	0%	3%
							grade 4 events	1051	969	1072	1084	1093	2312
								1%	0%	1%	1%	1%	3%
							grade 5 events	1744	1694	1753	1956	1834	4409
								2%	1%	1%	1%	1%	5%
							grade 6 events	2641	2880	2478	2533	3131	15198
								3%	2%	2%	2%	2%	20%
							grade 7 events	69462	79607	74256	85685	84829	38792
								79%	79%	80%	82%	80%	51%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	224.7635346478008	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	15.70749696956545	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	132.6702875098427	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	545176439.926883	545176438.90188			
Observation start date	2015-04-11T21:54:00	2015-04-11T21:53:58			
[s] Observation end time (MET)	545185675.1774	545185674.1524			
Observation end date	2015-04-12T00:27:55	2015-04-12T00:27:54			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## **A Summary**

### **A.1 Status**

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.04.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.7504000856876

### **A.2 Comments**