

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53723 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 6 2013

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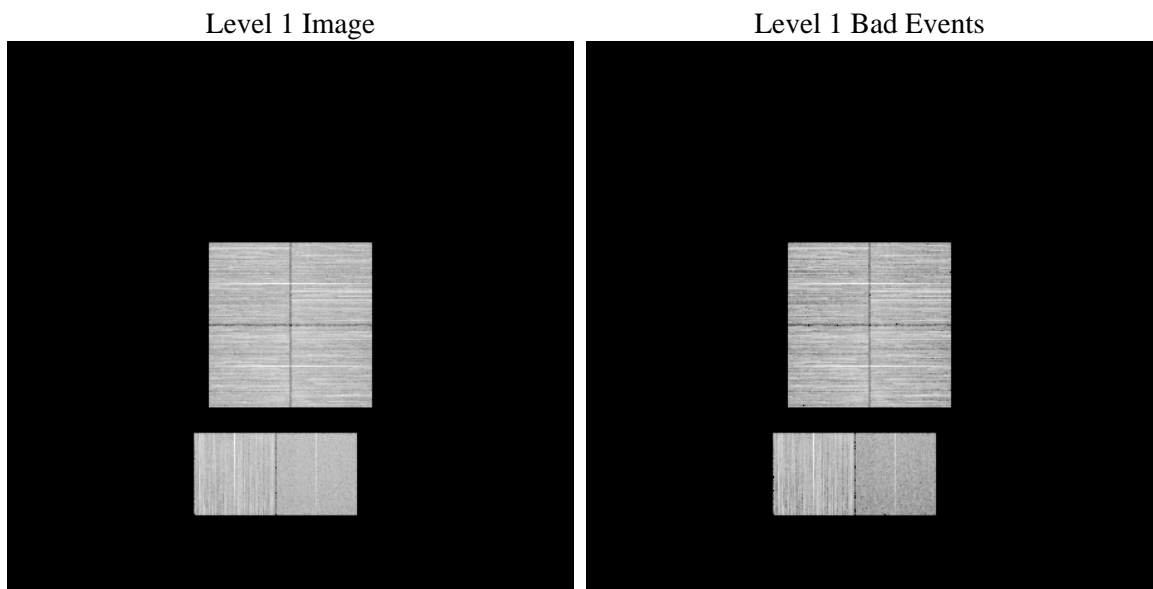
# 1 Front

seq_num	&#160	Sequence number
obs_id	53723	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	96.014763571361	Nominal RA [deg]
dec_nom	20.974874431793	Nominal Dec [deg]
roll_nom	265.8070939822	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8262.3999692798	Sum of GTIs [s]
livetime	8157.7764858488	Livetime [s]
ontime0	8262.3999692798	Sum of GTIs [s]
ontime1	8262.3999692798	Sum of GTIs [s]
ontime2	8262.3999692798	Sum of GTIs [s]
ontime3	8259.1589791179	Sum of GTIs [s]
ontime6	8262.3999692798	Sum of GTIs [s]
ontime7	8262.3999692798	Sum of GTIs [s]
l2events	215422	Number of level 2 events

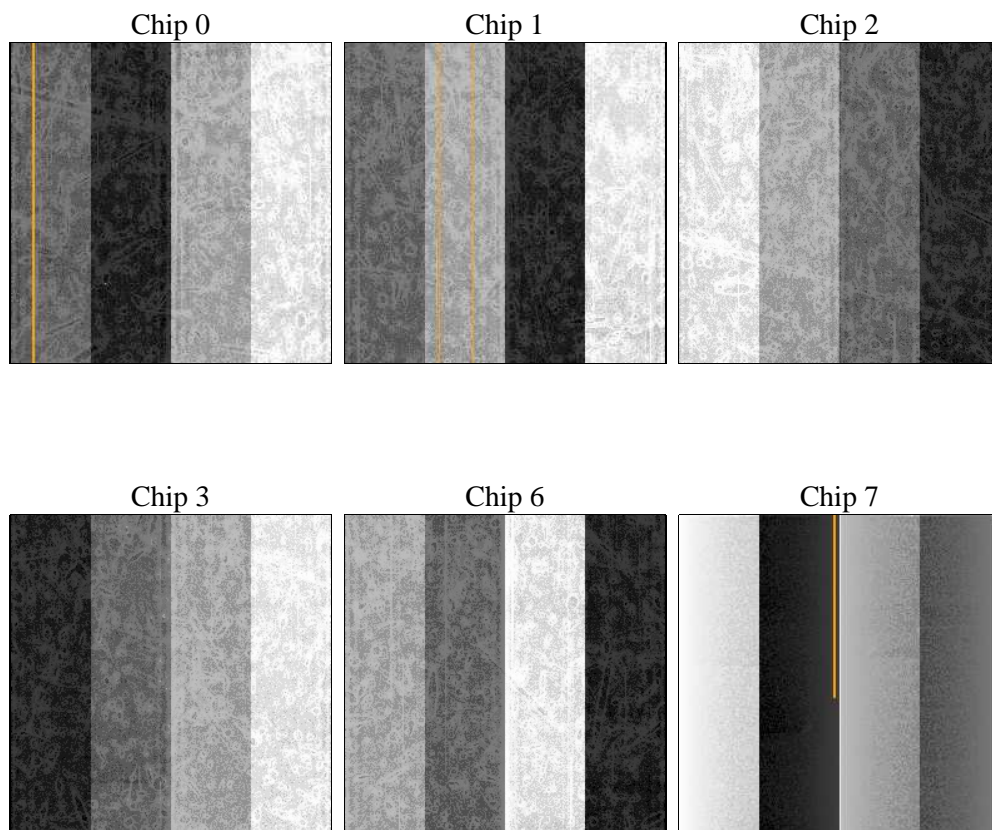
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	8262.3999692798	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime0	8262.3999692798	Sum of GTIs [s]
date	2013-05-06T07:20:36	Date and time of file creation	ontime1	8262.3999692798	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8262.3999692798	Sum of GTIs [s]
			ontime3	8259.1589791179	Sum of GTIs [s]
			ontime6	8262.3999692798	Sum of GTIs [s]
			ontime7	8262.3999692798	Sum of GTIs [s]
			l1events	950213	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	155006	163606	169444	163779	165698	132680	grade 0 events	17115	16696	17348	17355	17205	8933
rejected events	121616	130427	136269	130686	131359	71308		11%	10%	10%	10%	10%	6%
rejected %	78%	79%	80%	79%	79%	53%	grade 1 events	88	78	102	101	78	97
								0%	0%	0%	0%	0%	0%
							grade 2 events	6568	6804	6483	6213	6740	15236
								4%	4%	3%	3%	4%	11%
							grade 3 events	2322	2261	2256	2329	2275	5120
								1%	1%	1%	1%	1%	3%
							grade 4 events	2182	2229	2298	2299	2303	5065
								1%	1%	1%	1%	1%	3%
							grade 5 events	2936	3115	2864	3416	3192	7998
								1%	1%	1%	2%	1%	6%
							grade 6 events	5322	5318	4926	4986	5947	27249
								3%	3%	2%	3%	3%	20%
							grade 7 events	118473	127105	133167	127080	127958	62982
								76%	77%	78%	77%	77%	47%

## 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	96.01476357136075	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	20.9748744317928	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	265.8070939821964	[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)	484127522.659412	484127521.63441			
Observation start date	2013-05-05T07:52:03	2013-05-05T07:52:01			
[s] Observation end time (MET)	484137368.809945	484137367.78495			
Observation end date	2013-05-05T10:36:09	2013-05-05T10:36:07			
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)	2013.05.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2623999692798

### **A.2 Comments**