

# V&V Reference Report

## L2 ASCDS Version : 10.2.1

Observation 53040 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Feb 2 2014

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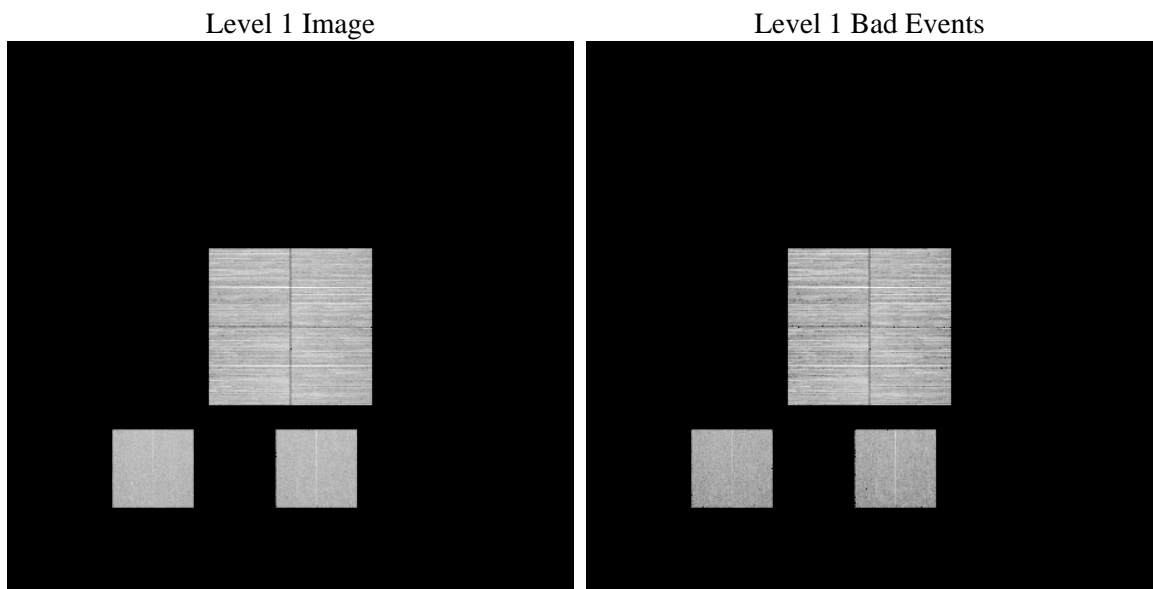
# 1 Front

seq_num	&#160	Sequence number
obs_id	53040	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	130.02712499118	Nominal RA [deg]
dec_nom	-6.4901257030489	Nominal Dec [deg]
roll_nom	347.26414764949	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8284.7999691963	Sum of GTIs [s]
livetime	8179.8928434787	Livetime [s]
ontime0	8284.7999691963	Sum of GTIs [s]
ontime1	8284.7999691963	Sum of GTIs [s]
ontime2	8284.7999691963	Sum of GTIs [s]
ontime3	8284.7999691963	Sum of GTIs [s]
ontime5	8284.7999691963	Sum of GTIs [s]
ontime7	8284.7999691963	Sum of GTIs [s]
l2events	219061	Number of level 2 events

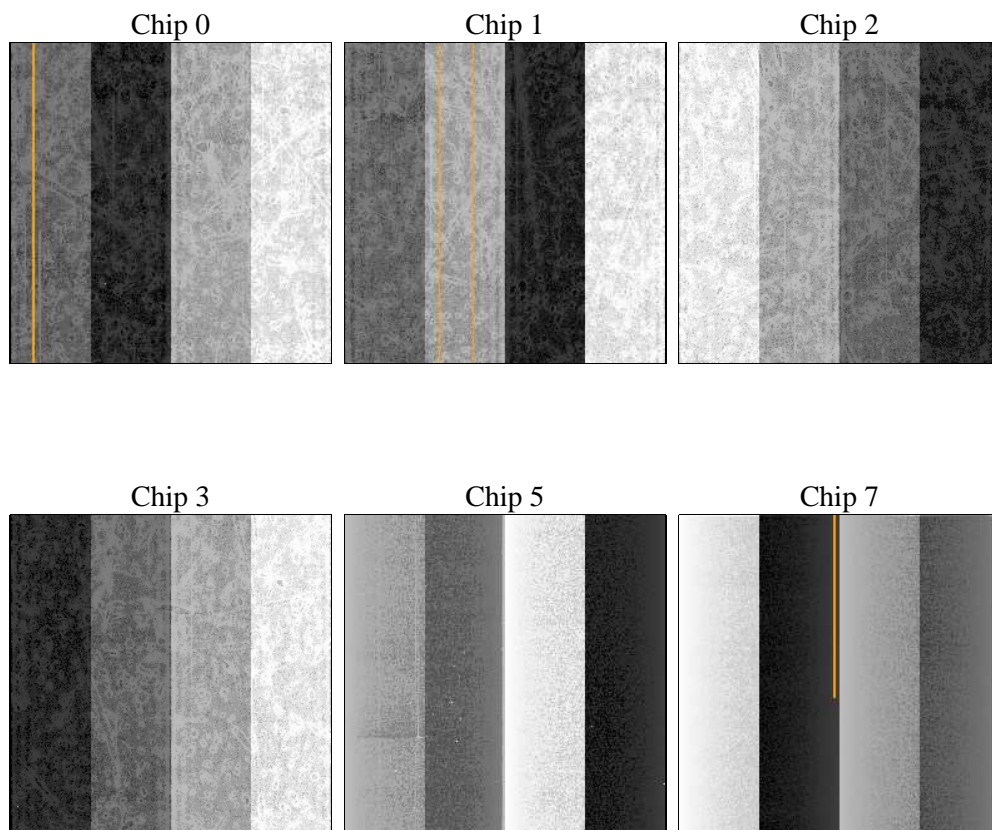
## 2 OBI

### 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	10.2.1	Processing system revision	ontime	8284.7999691963	Sum of GTIs [s]
caldsver	4.6.0	&#160	ontime0	8284.7999691963	Sum of GTIs [s]
date	2014-02-02T16:35:03	Date and time of file creation	ontime1	8284.7999691963	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8284.7999691963	Sum of GTIs [s]
			ontime3	8284.7999691963	Sum of GTIs [s]
			ontime5	8284.7999691963	Sum of GTIs [s]
			ontime7	8284.7999691963	Sum of GTIs [s]
			l1events	854781	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	150531	156283	155211	146613	125364	120779	grade 0 events	14758	13902	15322	15470	4411	7401
rejected events	120782	126305	125235	116511	69498	66670		9%	8%	9%	10%	3%	6%
rejected %	80%	80%	80%	79%	55%	55%	grade 1 events	85	76	77	72	132	85
								0%	0%	0%	0%	0%	0%
							grade 2 events	6282	7169	5965	5864	21381	13568
								4%	4%	3%	3%	17%	11%
							grade 3 events	1985	1859	2004	2069	1714	4119
								1%	1%	1%	1%	1%	3%
							grade 4 events	1938	1899	2018	2040	1705	4033
								1%	1%	1%	1%	1%	3%
							grade 5 events	2705	2779	2613	3102	5308	6902
								1%	1%	1%	2%	4%	5%
							grade 6 events	4803	5158	4683	4669	26671	25013
								3%	3%	3%	3%	21%	20%
							grade 7 events	117975	123441	122529	113327	64042	59658
								78%	78%	78%	77%	51%	49%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	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	130.0271249911777	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-6.490125703048882	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	347.2641476494862	[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)	507700514.946793	507700513.92179			
Observation start date	2014-02-02T03:55:15	2014-02-02T03:55:13			
[s] Observation end time (MET)	507710693.197353	507710692.17235			
Observation end date	2014-02-02T06:44:53	2014-02-02T06:44:52			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2014.02.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2847999691963

### A.2 Comments