

# V&V Reference Report

## L2 ASCDS Version : 10.2.2

Observation 52670 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 30 2014

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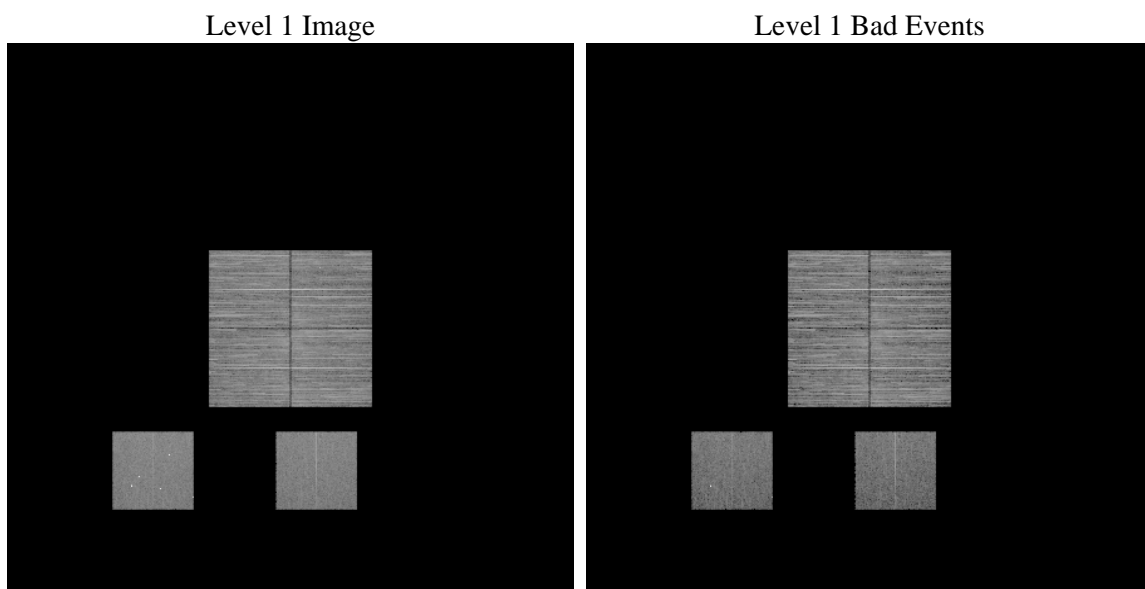
# 1 Front

seq_num	&#160	Sequence number
obs_id	52670	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	140.18343817915	Nominal RA [deg]
dec_nom	-2.6380886105483	Nominal Dec [deg]
roll_nom	235.27271635365	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	8262.3999692798	Sum of GTIs [s]
ontime5	8262.3999692798	Sum of GTIs [s]
ontime7	8262.3999692798	Sum of GTIs [s]
l2events	196540	Number of level 2 events

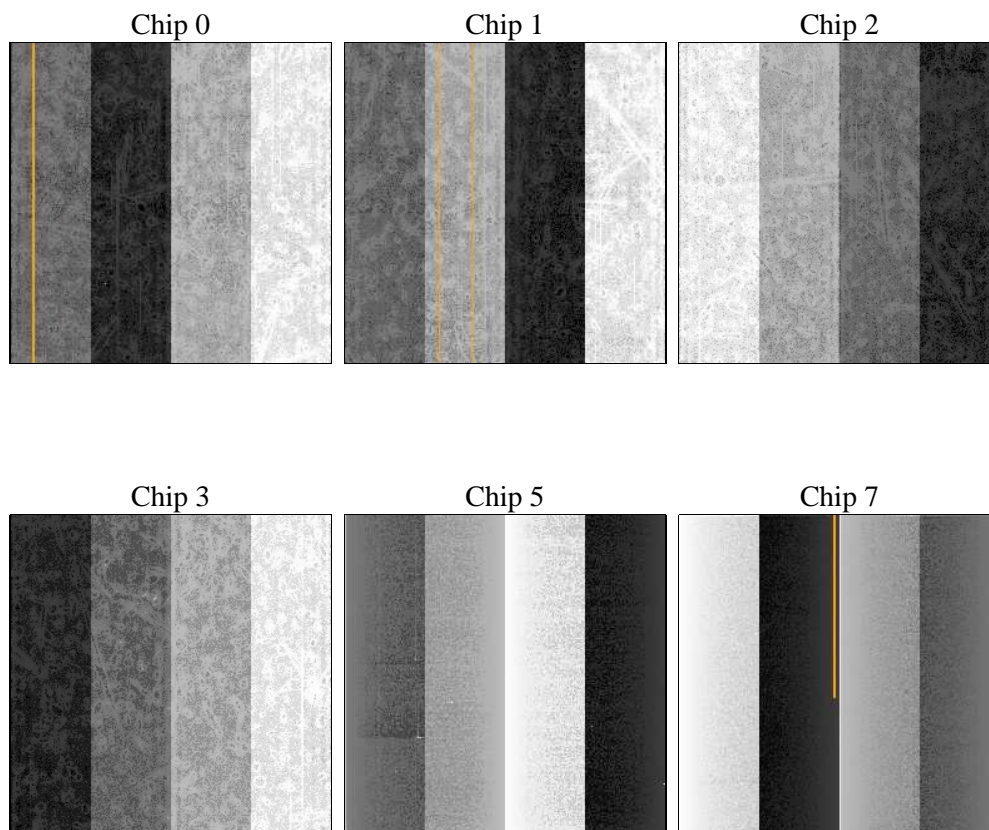
## 2 OBI

### 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	10.2.2	Processing system revision	ontime	8262.3999692798	Sum of GTIs [s]
caldsver	4.6.1	&#160	ontime0	8262.3999692798	Sum of GTIs [s]
date	2014-06-30T12:46:32	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	8262.3999692798	Sum of GTIs [s]
			ontime5	8262.3999692798	Sum of GTIs [s]
			ontime7	8262.3999692798	Sum of GTIs [s]
			l1events	786023	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	139849	129049	134130	143605	127032	112358	grade 0 events	13163	12847	13405	13237	10299	6973
rejected events	114007	102805	108354	117744	68615	62169		9%	9%	9%	9%	8%	6%
rejected %	81%	79%	80%	81%	54%	55%	grade 1 events	62	60	81	84	223	89
								0%	0%	0%	0%	0%	0%
							grade 2 events	5219	5590	4935	5067	19774	12368
								3%	4%	3%	3%	15%	11%
							grade 3 events	1677	1740	1823	1827	1955	4029
								1%	1%	1%	1%	1%	3%
							grade 4 events	1730	1795	1750	1876	1795	3898
								1%	1%	1%	1%	1%	3%
							grade 5 events	2582	2740	2524	2933	5583	7018
								1%	2%	1%	2%	4%	6%
							grade 6 events	4129	4346	3960	3957	24760	23070
								2%	3%	2%	2%	19%	20%
							grade 7 events	111287	99931	105652	114624	62643	54913
								79%	77%	78%	79%	49%	48%

## 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	140.1834381791496	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-2.638088610548259	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	235.2727163536545	[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)	520461109.650776	520461108.62578			
Observation start date	2014-06-29T20:31:50	2014-06-29T20:31:48			
[s] Observation end time (MET)	520470937.35132	520470936.32632			
Observation end date	2014-06-29T23:15:37	2014-06-29T23:15:36			
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)	2014.06.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2623999692798

### A.2 Comments