

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 53604 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 27 2013

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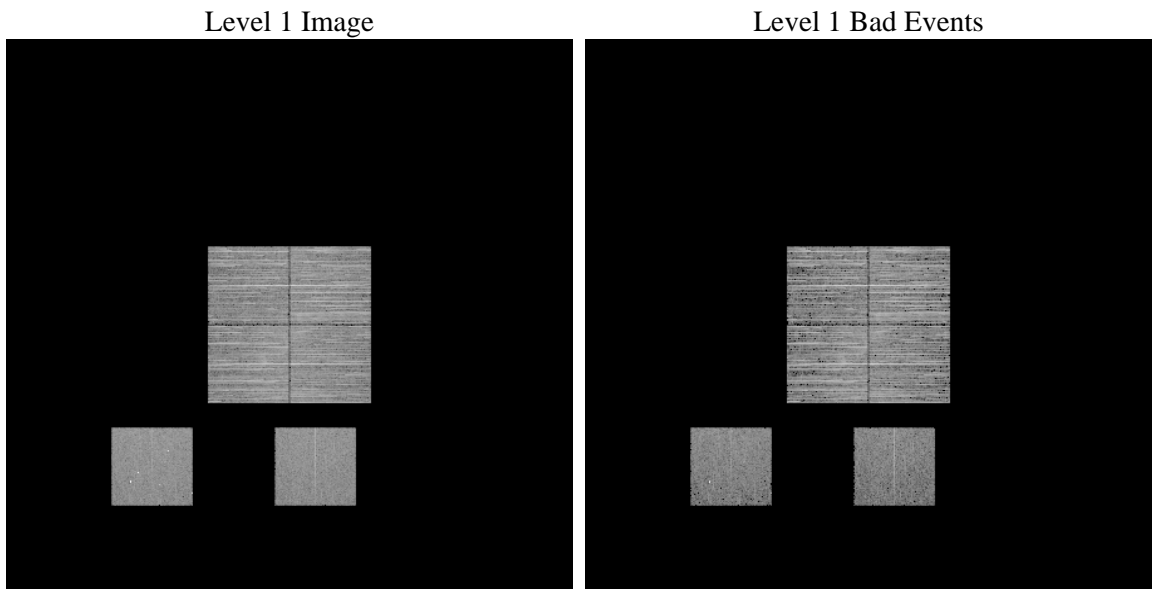
# 1 Front

seq_num	&#160	Sequence number
obs_id	53604	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	255.99111500772	Nominal RA [deg]
dec_nom	-0.027413359673956	Nominal Dec [deg]
roll_nom	219.12173745761	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4895.9999818206	Sum of GTIs [s]
livetime	4834.0038820335	Livetime [s]
ontime0	4895.9999818206	Sum of GTIs [s]
ontime1	4895.9999818206	Sum of GTIs [s]
ontime2	4895.9999818206	Sum of GTIs [s]
ontime3	4895.9999818206	Sum of GTIs [s]
ontime5	4895.9999818206	Sum of GTIs [s]
ontime7	4895.9999818206	Sum of GTIs [s]
l2events	135693	Number of level 2 events

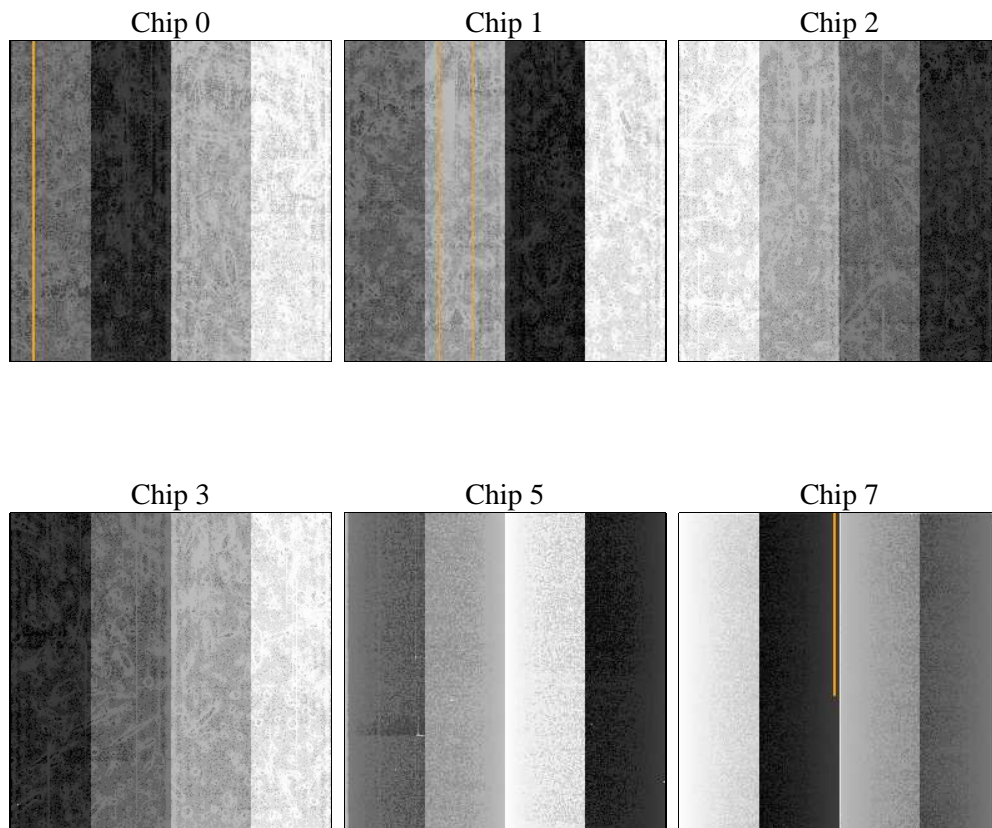
## 2 OBI

### 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	Processing system revision	ontime	4895.9999818206	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime0	4895.9999818206	Sum of GTIs [s]
date	2013-06-28T02:25:51	Date and time of file creation	ontime1	4895.9999818206	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4895.9999818206	Sum of GTIs [s]
			ontime3	4895.9999818206	Sum of GTIs [s]
			ontime5	4895.9999818206	Sum of GTIs [s]
			ontime7	4895.9999818206	Sum of GTIs [s]
			l1events	496349	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	77927	94420	91636	83877	77887	70602	grade 0 events	9485	9261	9675	9729	5264	4900
rejected events	59276	75778	72895	65194	41092	37104		12%	9%	10%	11%	6%	6%
rejected %	76%	80%	79%	77%	52%	52%	grade 1 events	51	46	66	52	107	48
								0%	0%	0%	0%	0%	0%
							grade 2 events	3682	3939	3625	3553	13279	8183
								4%	4%	3%	4%	17%	11%
							grade 3 events	1258	1122	1344	1305	1351	2859
								1%	1%	1%	1%	1%	4%
							grade 4 events	1221	1249	1280	1261	1357	2713
								1%	1%	1%	1%	1%	3%
							grade 5 events	1623	1693	1456	1801	3610	4206
								2%	1%	1%	2%	4%	5%
							grade 6 events	3005	3071	2817	2835	15544	14843
								3%	3%	3%	3%	19%	21%
							grade 7 events	57602	74039	71373	63341	37375	32850
								73%	78%	77%	75%	47%	46%

## 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	255.9911150077221	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-0.02741335967395585	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	219.1217374576134	[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)	488729235.809097	488729234.7841			
Observation start date	2013-06-27T14:07:16	2013-06-27T14:07:14			
[s] Observation end time (MET)	488737327.159537	488737326.13454			
Observation end date	2013-06-27T16:22:07	2013-06-27T16:22:06			
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)	2013.06.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.8959999818206

### **A.2 Comments**