

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53684 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 19 2013

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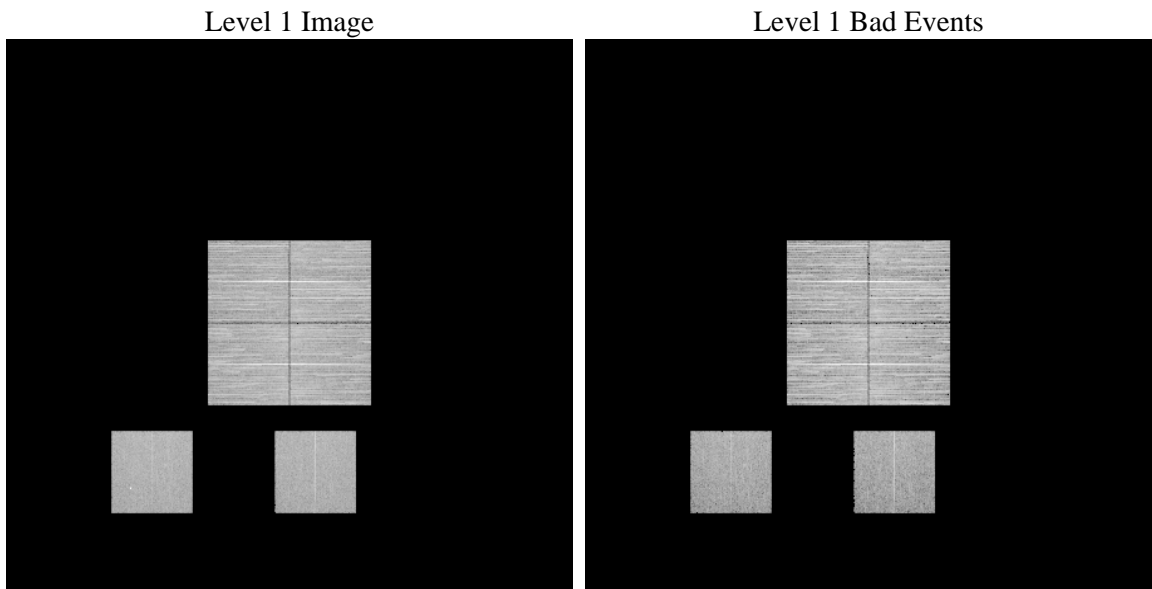
# 1 Front

seq_num	&#160	Sequence number
obs_id	53684	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	223.35450732647	Nominal RA [deg]
dec_nom	-57.053159159186	Nominal Dec [deg]
roll_nom	341.28896784997	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8287.3487590551	Sum of GTIs [s]
livetime	8182.4093590257	Livetime [s]
ontime0	8287.3487591743	Sum of GTIs [s]
ontime1	8287.3484037519	Sum of GTIs [s]
ontime2	8287.3073637486	Sum of GTIs [s]
ontime3	8287.3487591743	Sum of GTIs [s]
ontime5	8287.2663237453	Sum of GTIs [s]
ontime7	8287.3487590551	Sum of GTIs [s]
l2events	232339	Number of level 2 events

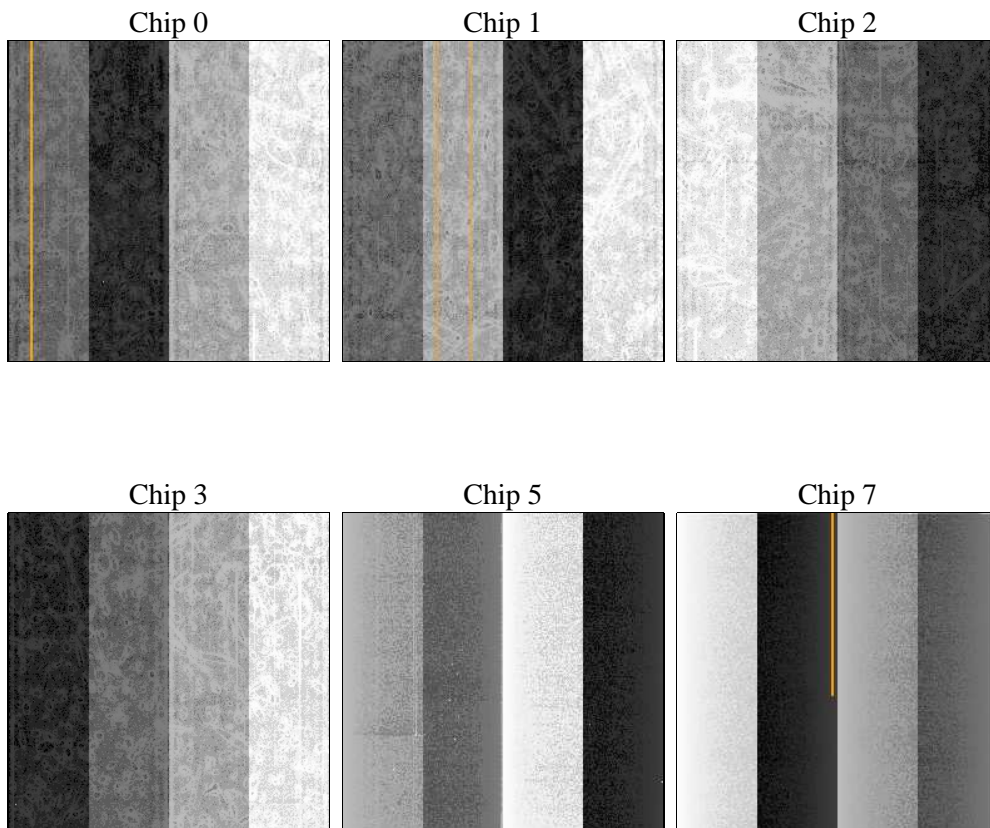
## 2 OBI

### 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	8287.3487590551	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime0	8287.3487591743	Sum of GTIs [s]
date	2013-05-19T15:16:10	Date and time of file creation	ontime1	8287.3484037519	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8287.3073637486	Sum of GTIs [s]
			ontime3	8287.3487591743	Sum of GTIs [s]
			ontime5	8287.2663237453	Sum of GTIs [s]
			ontime7	8287.3487590551	Sum of GTIs [s]
			l1events	834662	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	140885	154683	149611	147042	123269	119172	grade 0 events	16114	15528	16971	17282	4916	8006
rejected events	108660	121891	116688	114122	66535	62902		11%	10%	11%	11%	3%	6%
rejected %	77%	78%	77%	77%	53%	52%	grade 1 events	79	68	86	95	136	73
								0%	0%	0%	0%	0%	0%
							grade 2 events	6756	7495	6510	6363	21668	14108
								4%	4%	4%	4%	17%	11%
							grade 3 events	2094	2060	2201	2176	2044	4277
								1%	1%	1%	1%	1%	3%
							grade 4 events	2127	2070	2235	2121	1699	4322
								1%	1%	1%	1%	1%	3%
							grade 5 events	2630	2503	2431	2919	5200	6551
								1%	1%	1%	1%	4%	5%
							grade 6 events	5134	5639	5006	4978	26407	25557
								3%	3%	3%	3%	21%	21%
							grade 7 events	105951	119320	114171	111108	61199	56278
								75%	77%	76%	75%	49%	47%

## 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	223.3545073264748	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-57.05315915918555	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	341.288967849972	[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)	485304048.473177	485304047.44818			
Observation start date	2013-05-18T22:40:48	2013-05-18T22:40:47			
[s] Observation end time (MET)	485314228.773728	485314227.74873			
Observation end date	2013-05-19T01:30:29	2013-05-19T01:30:27			
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)	2013.05.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2873487590551

### A.2 Comments