

# V&V Reference Report

## L2 ASCDS Version : 10.1.1

Observation 53095 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 14 2014

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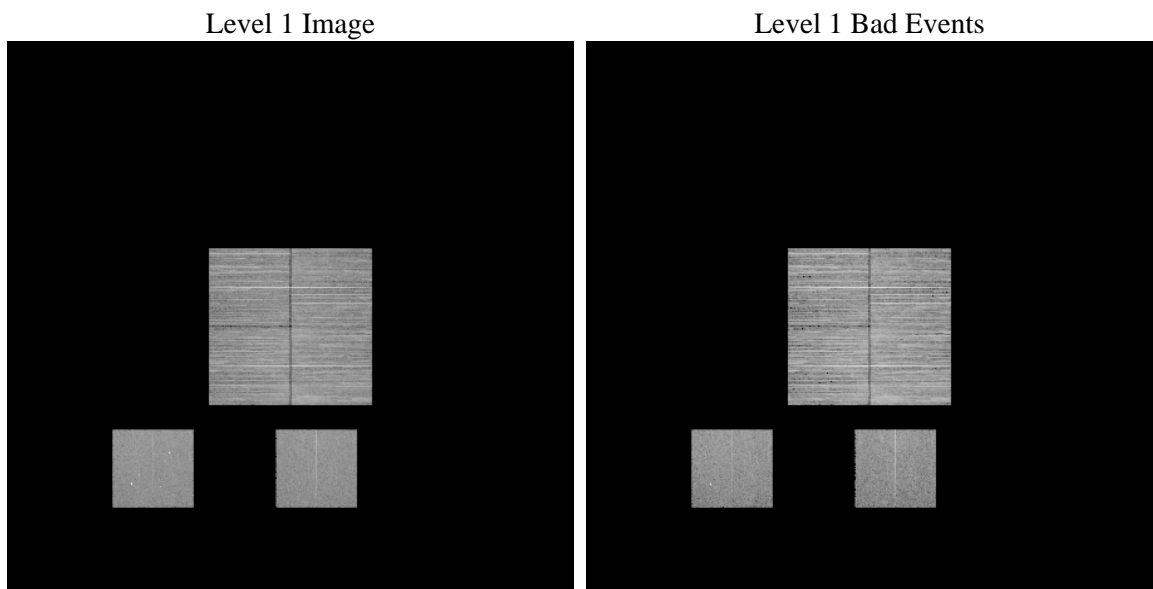
# 1 Front

seq_num	&#160	Sequence number
obs_id	53095	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	147.78798260331	Nominal RA [deg]
dec_nom	19.226369376479	Nominal Dec [deg]
roll_nom	80.413952729841	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8227.1999694109	Sum of GTIs [s]
livetime	8123.0222095731	Livetime [s]
ontime0	8227.1999694109	Sum of GTIs [s]
ontime1	8227.1999694109	Sum of GTIs [s]
ontime2	8227.1999694109	Sum of GTIs [s]
ontime3	8227.1999694109	Sum of GTIs [s]
ontime5	8227.1999694109	Sum of GTIs [s]
ontime7	8227.1999694109	Sum of GTIs [s]
l2events	210054	Number of level 2 events

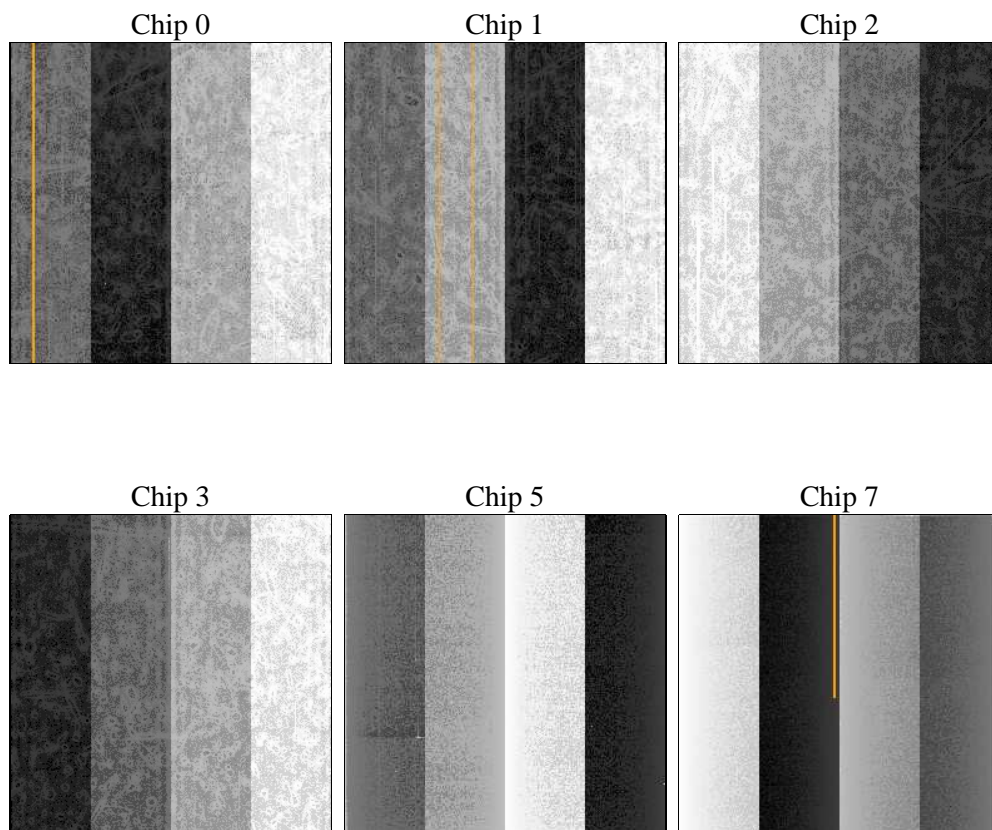
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	10.1.1	Processing system revision	ontime	8227.1999694109	Sum of GTIs [s]
caldbver	4.6.0	&#160	ontime0	8227.1999694109	Sum of GTIs [s]
date	2014-01-15T04:25:31	Date and time of file creation	ontime1	8227.1999694109	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8227.1999694109	Sum of GTIs [s]
			ontime3	8227.1999694109	Sum of GTIs [s]
			ontime5	8227.1999694109	Sum of GTIs [s]
			ontime7	8227.1999694109	Sum of GTIs [s]
			l1events	796229	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	128822	130454	142497	151848	125340	117268	grade 0 events	14094	13771	14725	14672	7315	7670
rejected events	101125	102507	114371	123576	67740	63855		10%	10%	10%	9%	5%	6%
rejected %	78%	78%	80%	81%	54%	54%	grade 1 events	88	68	74	63	113	93
								0%	0%	0%	0%	0%	0%
							grade 2 events	5466	5803	5444	5469	21233	13097
								4%	4%	3%	3%	16%	11%
							grade 3 events	2003	1921	1982	1978	2029	4531
								1%	1%	1%	1%	1%	3%
							grade 4 events	1833	1937	1957	2037	2005	4488
								1%	1%	1%	1%	1%	3%
							grade 5 events	2534	2743	2515	3012	5877	7219
								1%	2%	1%	1%	4%	6%
							grade 6 events	4504	4736	4241	4347	25501	24052
								3%	3%	2%	2%	20%	20%
							grade 7 events	98300	99475	111559	120270	61267	56118
								76%	76%	78%	79%	48%	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	147.7879826033098	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	19.22636937647889	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	80.41395272984141	[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)	506067942.007002	506067940.982			
Observation start date	2014-01-14T06:25:42	2014-01-14T06:25:40			
[s] Observation end time (MET)	506087177.15806	506087176.13306			
Observation end date	2014-01-14T11:46:17	2014-01-14T11:46:16			
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)	2014.01.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2271999694109

### A.2 Comments