

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53831 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 29 2013

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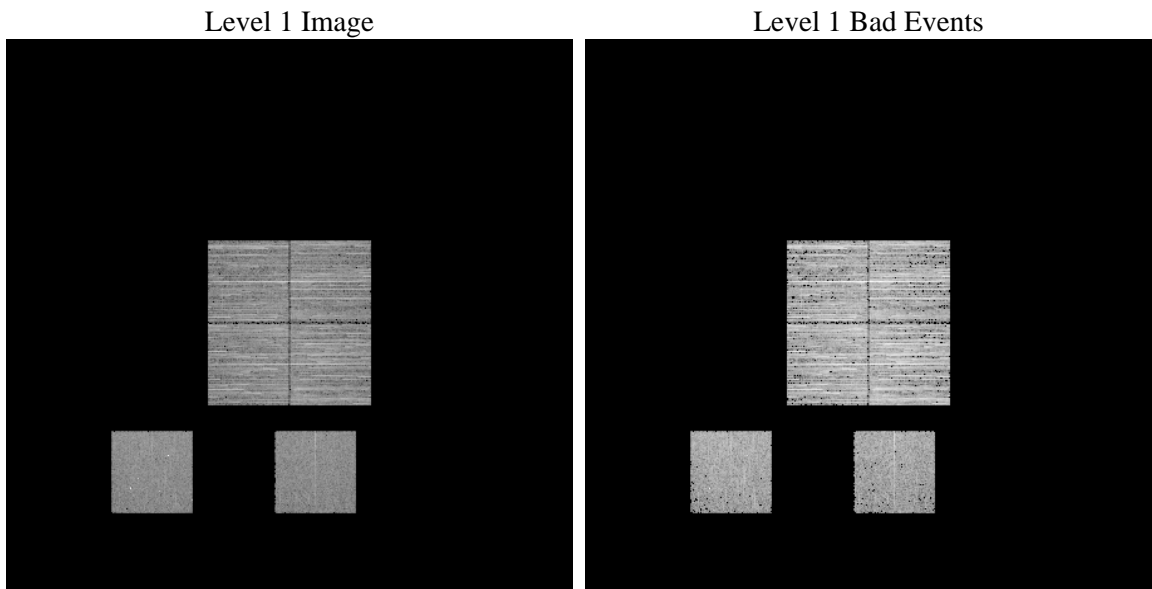
# 1 Front

seq_num	&#160	Sequence number
obs_id	53831	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	290.51877838693	Nominal RA [deg]
dec_nom	-61.430416107902	Nominal Dec [deg]
roll_nom	103.29493200843	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3177.5999882221	Sum of GTIs [s]
livetime	3137.3633038502	Livetime [s]
ontime0	3177.5999882221	Sum of GTIs [s]
ontime1	3177.5999882221	Sum of GTIs [s]
ontime2	3177.5999882221	Sum of GTIs [s]
ontime3	3177.5999882221	Sum of GTIs [s]
ontime5	3177.5999882221	Sum of GTIs [s]
ontime7	3177.5999882221	Sum of GTIs [s]
l2events	96349	Number of level 2 events

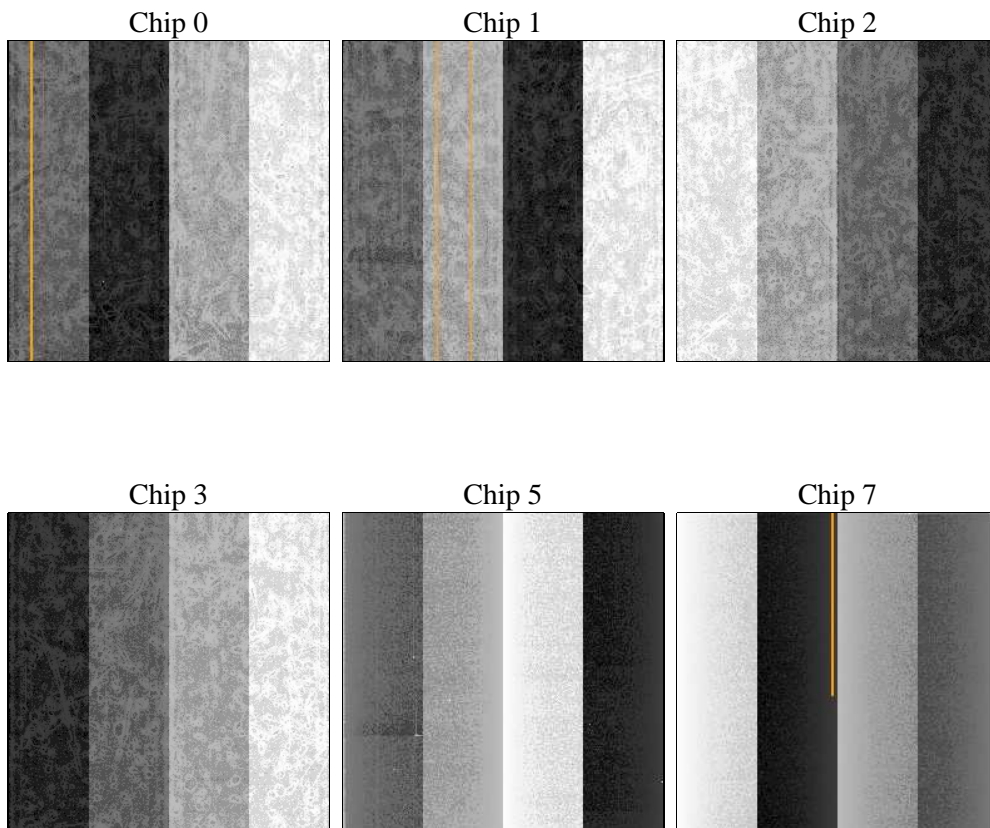
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	3177.5999882221	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime0	3177.5999882221	Sum of GTIs [s]
date	2013-03-29T21:56:51	Date and time of file creation	ontime1	3177.5999882221	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3177.5999882221	Sum of GTIs [s]
			ontime3	3177.5999882221	Sum of GTIs [s]
			ontime5	3177.5999882221	Sum of GTIs [s]
			ontime7	3177.5999882221	Sum of GTIs [s]
			l1events	379149	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	62966	64702	66423	75764	57102	52192	grade 0 events	6923	6667	7103	7071	3578	3667
rejected events	49832	51441	53312	62607	31320	28037		10%	10%	10%	9%	6%	7%
rejected %	79%	79%	80%	82%	54%	53%	grade 1 events	36	44	45	62	65	42
								0%	0%	0%	0%	0%	0%
							grade 2 events	2639	2793	2606	2599	9596	6070
								4%	4%	3%	3%	16%	11%
							grade 3 events	931	911	960	935	982	2139
								1%	1%	1%	1%	1%	4%
							grade 4 events	946	949	896	968	926	2111
								1%	1%	1%	1%	1%	4%
							grade 5 events	1198	1209	1144	1429	2629	3101
								1%	1%	1%	1%	4%	5%
							grade 6 events	2153	2355	2020	2044	11627	10955
								3%	3%	3%	2%	20%	20%
							grade 7 events	48140	49774	51649	60656	27699	24107
								76%	76%	77%	80%	48%	46%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	290.5187783869304
[deg] Pointing Dec	0	-61.43041610790226
[deg] Pointing Roll	0.0	103.2949320084346
SIM focus pos (mm)	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	480933755.736468	480933755.736468
Observation start date	2013-03-29T08:42:36	2013-03-29T08:42:35
[s] Observation end time (MET)	480938816.285232	480938816.285232
Observation end date	2013-03-29T10:06:56	2013-03-29T10:06:56
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.04.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1775999882221

### A.2 Comments