

# V&V Reference Report

## L2 ASCDS Version : 10.1.1

Observation 53222 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Nov 20 2013

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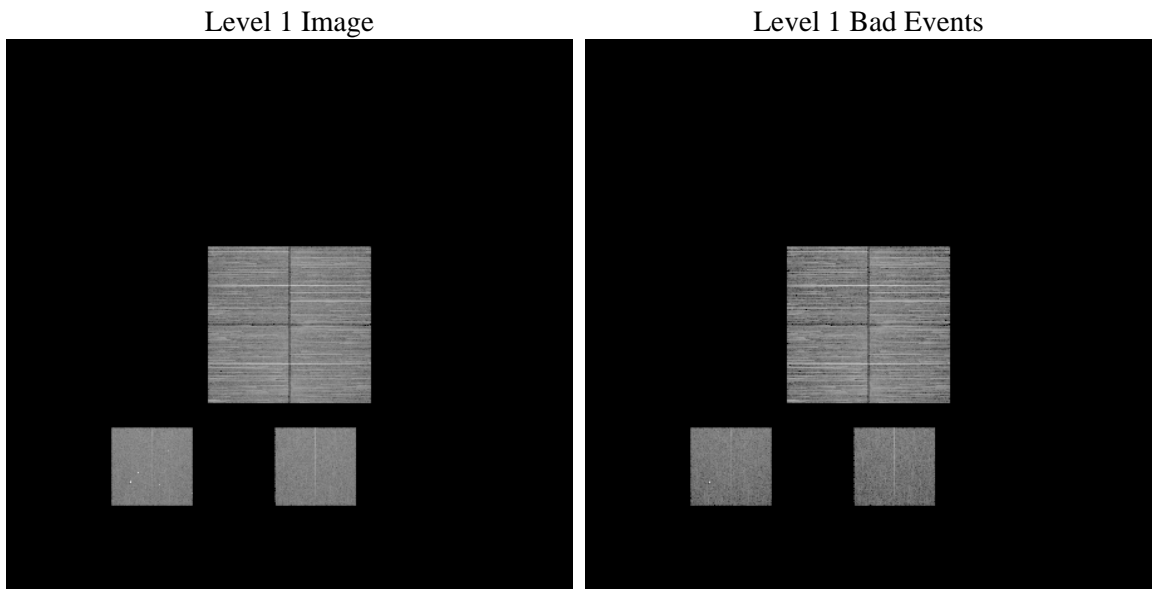
# 1 Front

seq_num	&#160	Sequence number
obs_id	53222	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	37.510033741738	Nominal RA [deg]
dec_nom	1.6223197878845	Nominal Dec [deg]
roll_nom	317.47394007702	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8245.8916459084	Sum of GTIs [s]
livetime	8141.477200808	Livetime [s]
ontime0	8245.8506059051	Sum of GTIs [s]
ontime1	8245.8095659018	Sum of GTIs [s]
ontime2	8245.7685258985	Sum of GTIs [s]
ontime3	8245.9326859117	Sum of GTIs [s]
ontime5	8245.7274858952	Sum of GTIs [s]
ontime7	8245.8916459084	Sum of GTIs [s]
l2events	222288	Number of level 2 events

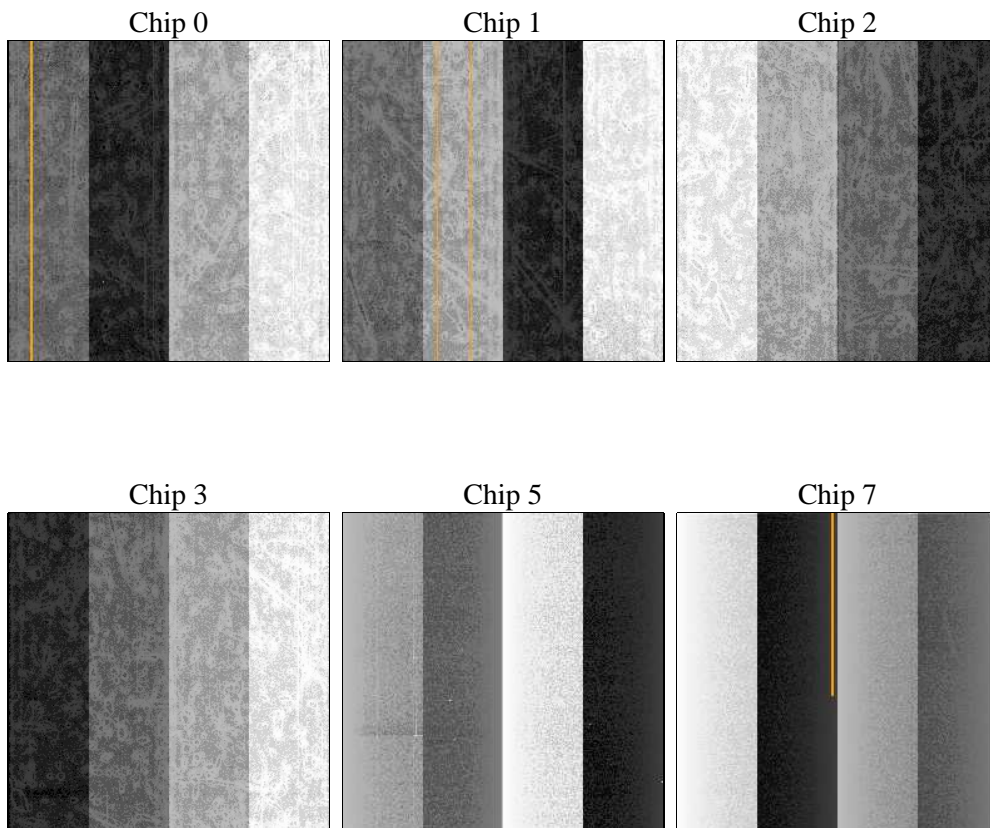
## 2 OBI

### 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	10.1.1	Processing system revision	ontime	8245.8916459084	Sum of GTIs [s]
caldsver	4.5.9	&#160	ontime0	8245.8506059051	Sum of GTIs [s]
date	2013-11-20T05:22:54	Date and time of file creation	ontime1	8245.8095659018	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8245.7685258985	Sum of GTIs [s]
			ontime3	8245.9326859117	Sum of GTIs [s]
			ontime5	8245.7274858952	Sum of GTIs [s]
			ontime7	8245.8916459084	Sum of GTIs [s]
			l1events	847420	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	135358	152313	157004	150897	130240	121608	grade 0 events	15283	14921	15747	15918	6510	8176
rejected events	105071	121791	126937	120211	72159	66168		11%	9%	10%	10%	4%	6%
rejected %	77%	79%	80%	79%	55%	54%	grade 1 events	88	72	75	82	121	78
								0%	0%	0%	0%	0%	0%
							grade 2 events	6055	6624	5867	5873	21553	13742
								4%	4%	3%	3%	16%	11%
							grade 3 events	2061	2017	2054	2154	1878	4409
								1%	1%	1%	1%	1%	3%
							grade 4 events	2084	1996	2062	2128	1957	4592
								1%	1%	1%	1%	1%	3%
							grade 5 events	2744	2971	2627	3271	6113	7396
								2%	1%	1%	2%	4%	6%
							grade 6 events	4996	5153	4522	4813	26498	24856
								3%	3%	2%	3%	20%	20%
							grade 7 events	102047	118559	124050	116658	65610	58359
								75%	77%	79%	77%	50%	47%

## 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	37.5100337417377
[deg] Pointing Dec	0	1.622319787884451
[deg] Pointing Roll	0.0	317.4739400770184
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)	501265568.69346	501265568.69346
Observation start date	2013-11-19T16:26:09	2013-11-19T16:26:08
[s] Observation end time (MET)	501275115.727003	501275115.727003
Observation end date	2013-11-19T19:05:16	2013-11-19T19:05:15
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)	2013.11.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2458916459084

### A.2 Comments