

# V&V Reference Report

## L2 ASCDS Version : 10.3.1

Observation 52211 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 1 2015

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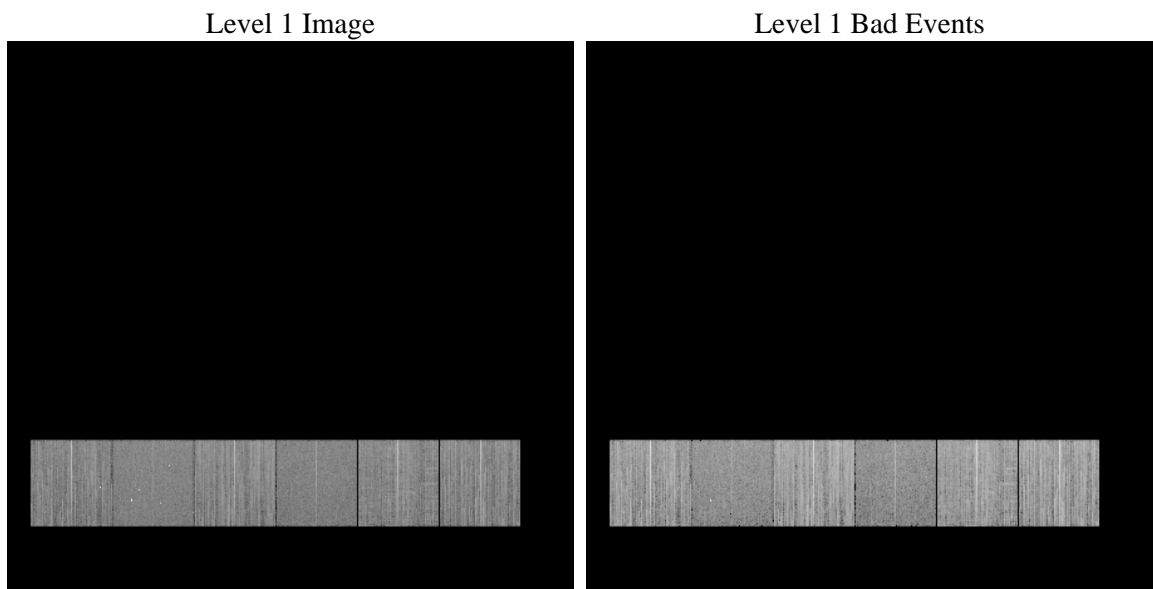
# 1 Front

seq_num	&#160	Sequence number
obs_id	52211	Observation id
title	ACIS-456789 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	105.65964055537	Nominal RA [deg]
dec_nom	13.031706115644	Nominal Dec [deg]
roll_nom	107.48488733038	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8086.3999699354	Sum of GTIs [s]
livetime	7984.0051044706	Livetime [s]
ontime4	8086.3999699354	Sum of GTIs [s]
ontime5	8086.3999699354	Sum of GTIs [s]
ontime6	8086.3999699354	Sum of GTIs [s]
ontime7	8086.3999699354	Sum of GTIs [s]
ontime8	8086.3999699354	Sum of GTIs [s]
ontime9	8086.3999699354	Sum of GTIs [s]
l2events	177531	Number of level 2 events

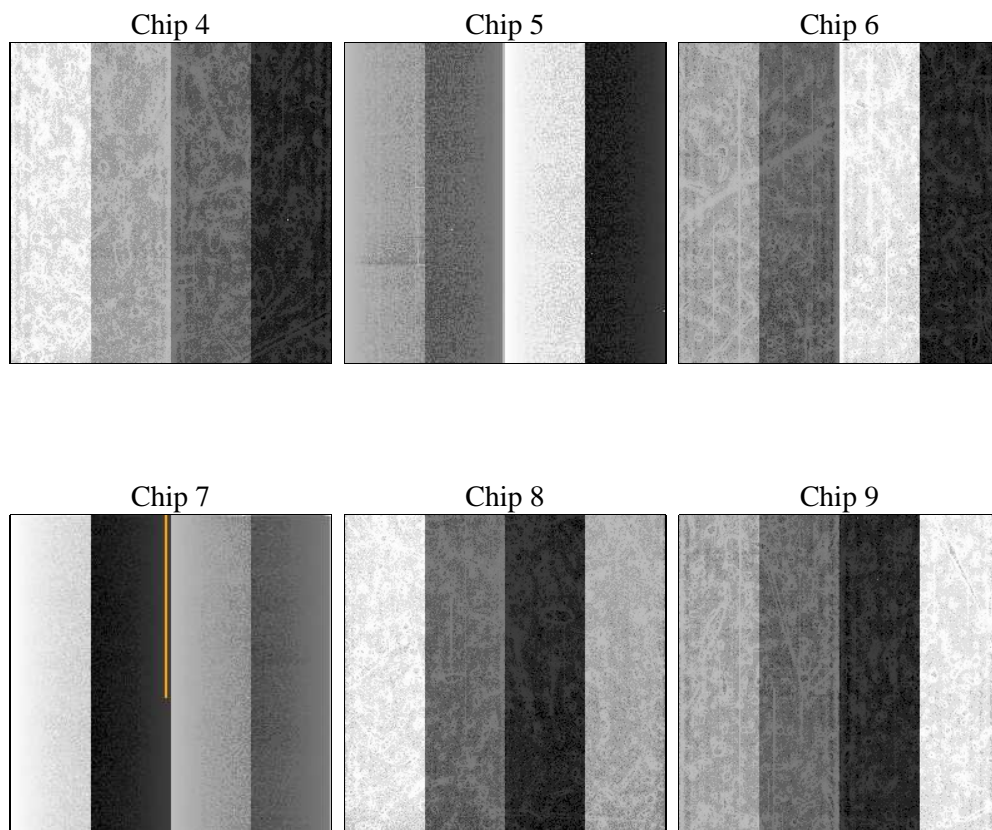
## 2 OBI

### 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	10.3.1	Processing system revision	ontime	8086.3999699354	Sum of GTIs [s]
caldsver	4.6.5	&#160	ontime4	8086.3999699354	Sum of GTIs [s]
date	2015-01-01T15:16:23	Date and time of file creation	ontime5	8086.3999699354	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8086.3999699354	Sum of GTIs [s]
			ontime7	8086.3999699354	Sum of GTIs [s]
			ontime8	8086.3999699354	Sum of GTIs [s]
			ontime9	8086.3999699354	Sum of GTIs [s]
			l1events	782894	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	128754	118471	146570	107790	140636	140673	grade 0 events	14265	6036	11552	6189	13940	11682
rejected events	103785	67072	123002	61873	109037	117486		11%	5%	7%	5%	9%	8%
rejected %	80%	56%	83%	57%	77%	83%	grade 1 events	116	145	67	67	89	58
								0%	0%	0%	0%	0%	0%
							grade 2 events	4534	19443	5110	11481	6714	4760
								3%	16%	3%	10%	4%	3%
							grade 3 events	1737	1811	1658	3799	2727	1694
								1%	1%	1%	3%	1%	1%
							grade 4 events	1723	1595	1594	3744	2565	1616
								1%	1%	1%	3%	1%	1%
							grade 5 events	2887	5693	2879	6758	3856	3118
								2%	4%	1%	6%	2%	2%
							grade 6 events	3313	23708	4218	21793	6460	3976
								2%	20%	2%	20%	4%	2%
							grade 7 events	100179	60040	119492	53959	104285	113769
								77%	50%	81%	50%	74%	80%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	105.6596405553726
[deg] Pointing Dec	0	13.03170611564409
[deg] Pointing Roll	0.0	107.4848873303815
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)	536453949.789258	536453949.789258
Observation start date	2014-12-31T22:59:10	2014-12-31T22:59:09
[s] Observation end time (MET)	536463497.845231	536463497.845231
Observation end date	2015-01-01T01:38:18	2015-01-01T01:38:17
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)	2015.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0863999699354

### A.2 Comments