

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 52091 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Feb 10 2015

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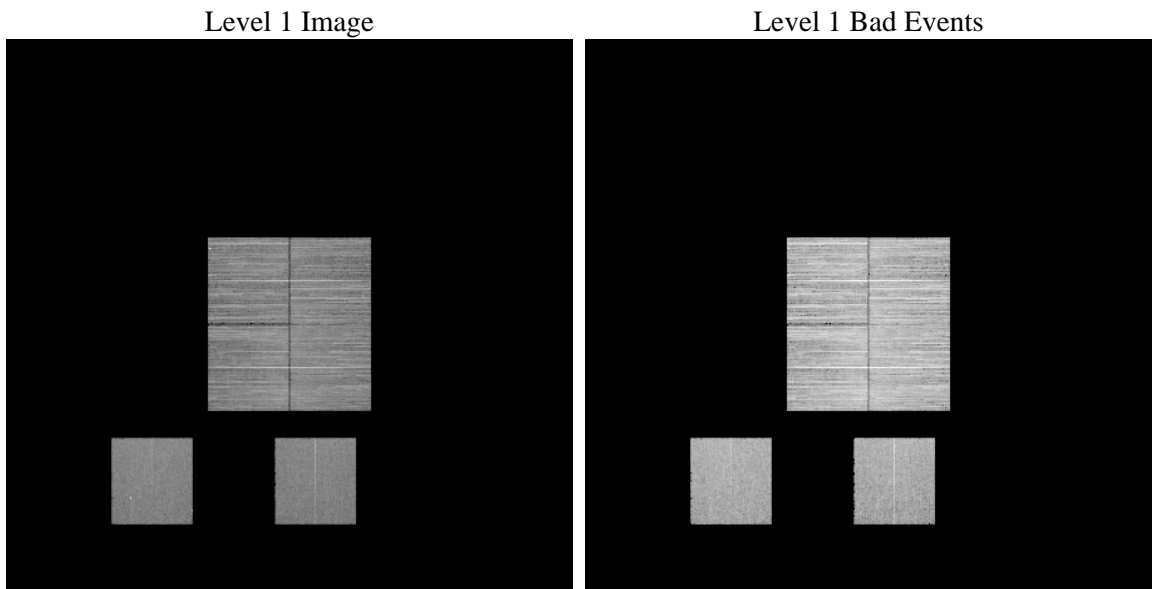
# 1 Front

seq_num	&#160	Sequence number
obs_id	52091	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	128.11309404123	Nominal RA [deg]
dec_nom	12.392820936709	Nominal Dec [deg]
roll_nom	229.74358121554	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8176.0001218319	Sum of GTIs [s]
livetime	8072.470685293	Livetime [s]
ontime0	8176.0001218319	Sum of GTIs [s]
ontime1	8176.0001218319	Sum of GTIs [s]
ontime2	8176.0001218319	Sum of GTIs [s]
ontime3	8176.0001218319	Sum of GTIs [s]
ontime5	8176.0001218319	Sum of GTIs [s]
ontime7	8176.0001218319	Sum of GTIs [s]
l2events	200893	Number of level 2 events

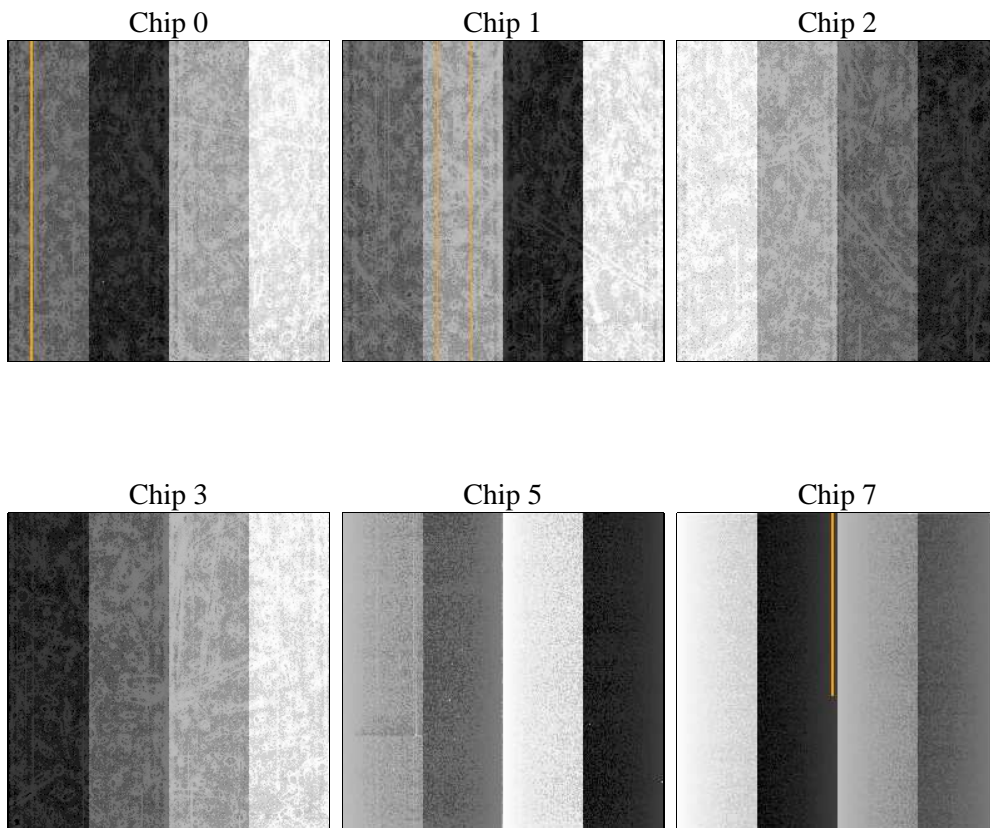
## 2 OBI

### 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	10.3.3	Processing system revision	ontime	8176.0001218319	Sum of GTIs [s]
caldbver	4.6.6	&#160	ontime0	8176.0001218319	Sum of GTIs [s]
date	2015-02-10T16:30:10	Date and time of file creation	ontime1	8176.0001218319	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8176.0001218319	Sum of GTIs [s]
			ontime3	8176.0001218319	Sum of GTIs [s]
			ontime5	8176.0001218319	Sum of GTIs [s]
			ontime7	8176.0001218319	Sum of GTIs [s]
			l1events	907093	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	161797	158205	165417	165198	130851	125625	grade 0 events	15146	11215	13283	13388	4329	6632
rejected events	132955	131495	139231	138173	76678	74279		9%	7%	8%	8%	3%	5%
rejected %	82%	83%	84%	83%	58%	59%	grade 1 events	72	53	91	73	181	70
								0%	0%	0%	0%	0%	0%
							grade 2 events	6263	7719	5799	6104	20384	13315
								3%	4%	3%	3%	15%	10%
							grade 3 events	1755	1622	1711	1812	1751	3724
								1%	1%	1%	1%	1%	2%
							grade 4 events	1684	1576	1773	1821	1586	3754
								1%	0%	1%	1%	1%	2%
							grade 5 events	2726	2645	2622	3200	5579	6929
								1%	1%	1%	1%	4%	5%
							grade 6 events	4814	5391	4394	4693	27868	25557
								2%	3%	2%	2%	21%	20%
							grade 7 events	129337	127984	135744	134107	69173	65644
								79%	80%	82%	81%	52%	52%

## 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	128.1130940412255
[deg] Pointing Dec	0	12.39282093670936
[deg] Pointing Roll	0.0	229.743581215542
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)	539922213.782925	539922213.782925
Observation start date	2015-02-10T02:23:34	2015-02-10T02:23:33
[s] Observation end time (MET)	539932480.880789	539932480.880789
Observation end date	2015-02-10T05:14:41	2015-02-10T05:14:40
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	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1760001218319

### A.2 Comments