

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 51914 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 4 2015

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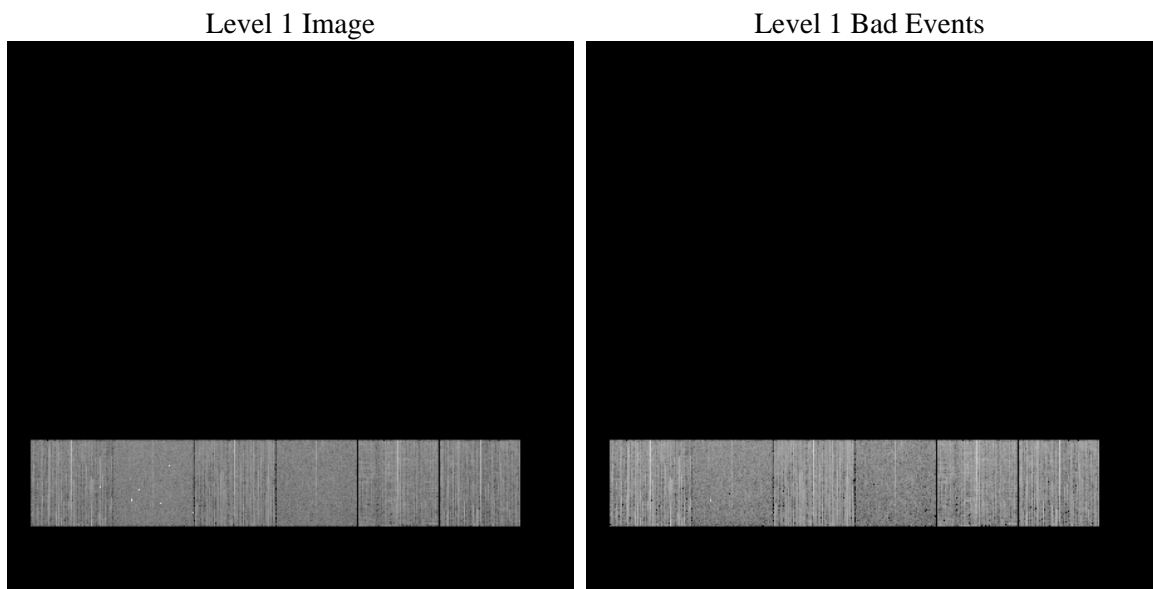
# 1 Front

seq_num	&#160	Sequence number
obs_id	51914	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	232.47106245967	Nominal RA [deg]
dec_nom	4.9994682875702	Nominal Dec [deg]
roll_nom	148.33497415725	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5471.5107116699	Sum of GTIs [s]
livetime	5402.2271484905	Livetime [s]
ontime4	5471.3875916004	Sum of GTIs [s]
ontime5	5471.469671607	Sum of GTIs [s]
ontime6	5471.4286316633	Sum of GTIs [s]
ontime7	5471.5107116699	Sum of GTIs [s]
ontime8	5471.3465516567	Sum of GTIs [s]
ontime9	5471.5517516136	Sum of GTIs [s]
l2events	119324	Number of level 2 events

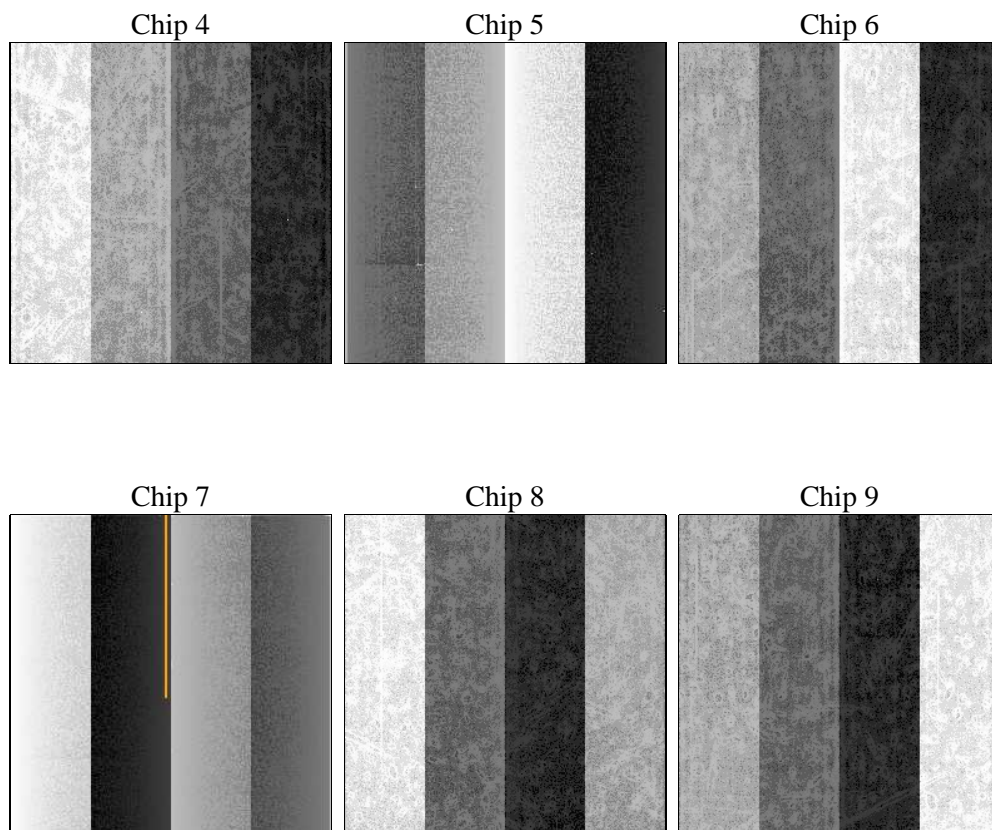
## 2 OBI

### 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	5471.5107116699	Sum of GTIs [s]
caldbver	4.6.7	&#160	ontime4	5471.3875916004	Sum of GTIs [s]
date	2015-05-04T23:45:10	Date and time of file creation	ontime5	5471.469671607	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	5471.4286316633	Sum of GTIs [s]
			ontime7	5471.5107116699	Sum of GTIs [s]
			ontime8	5471.3465516567	Sum of GTIs [s]
			ontime9	5471.5517516136	Sum of GTIs [s]
			l1events	529703	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	91883	85458	95391	73854	93716	89401	grade 0 events	9137	7162	7338	3870	8980	7274
rejected events	75540	46109	79914	42691	72715	74258		9%	8%	7%	5%	9%	8%
rejected %	82%	53%	83%	57%	77%	83%	grade 1 events	76	110	31	61	57	51
								0%	0%	0%	0%	0%	0%
							grade 2 events	2922	13526	3429	7701	4419	3108
								3%	15%	3%	10%	4%	3%
							grade 3 events	1046	1140	942	2445	1731	1068
								1%	1%	0%	3%	1%	1%
							grade 4 events	1110	1125	1004	2389	1640	1055
								1%	1%	1%	3%	1%	1%
							grade 5 events	1945	3833	1865	4593	2570	2168
								2%	4%	1%	6%	2%	2%
							grade 6 events	2139	16423	2777	14781	4241	2647
								2%	19%	2%	20%	4%	2%
							grade 7 events	73508	42139	78005	38014	70078	72030
								80%	49%	81%	51%	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	232.4710624596714
[deg] Pointing Dec	0	4.999468287570176
[deg] Pointing Roll	0.0	148.3349741572498
[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)	547006265.9294159	547006264.90442
Observation start date	2015-05-03T02:11:06	2015-05-03T02:11:04
[s] Observation end time (MET)	547013465.529821	547013464.50482
Observation end date	2015-05-03T04:11:06	2015-05-03T04:11:04
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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)	2015.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.4715107116699

### A.2 Comments