

# V&V Reference Report

## L2 ASCDS Version : 10.3.1

Observation 52261 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Dec 11 2014

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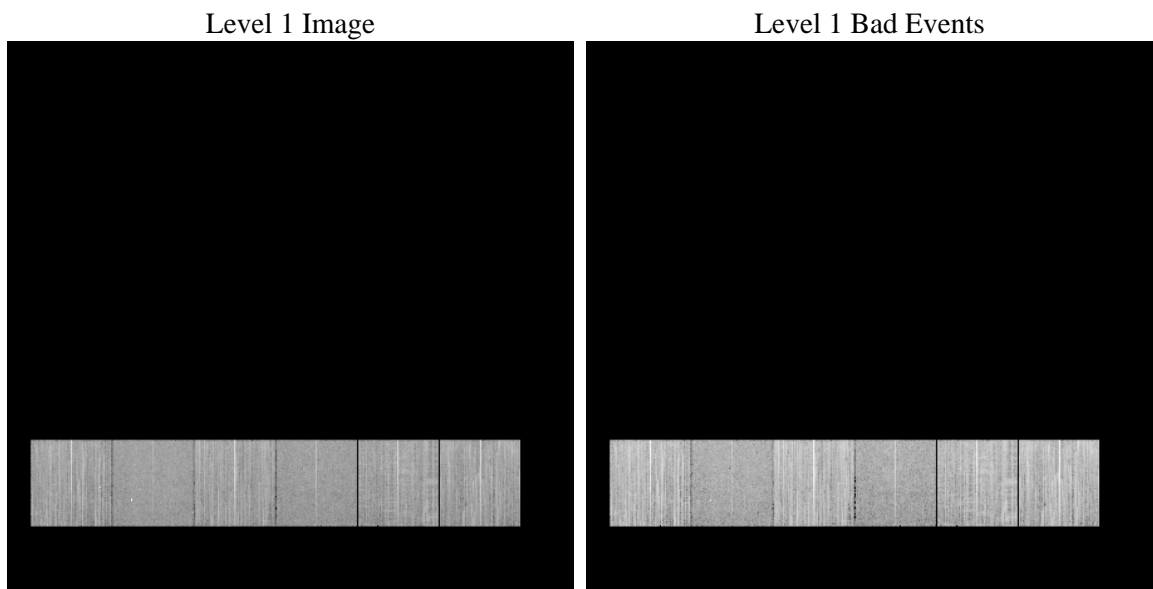
# 1 Front

seq_num	&#160	Sequence number
obs_id	52261	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	76.567749418054	Nominal RA [deg]
dec_nom	59.675071328729	Nominal Dec [deg]
roll_nom	182.12292079213	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7977.5999703407	Sum of GTIs [s]
livetime	7876.5827959823	Livetime [s]
ontime4	7870.6441153288	Sum of GTIs [s]
ontime5	7977.5999703407	Sum of GTIs [s]
ontime6	7873.885145247	Sum of GTIs [s]
ontime7	7977.5999703407	Sum of GTIs [s]
ontime8	7864.162035346	Sum of GTIs [s]
ontime9	7873.8851755857	Sum of GTIs [s]
l2events	179316	Number of level 2 events

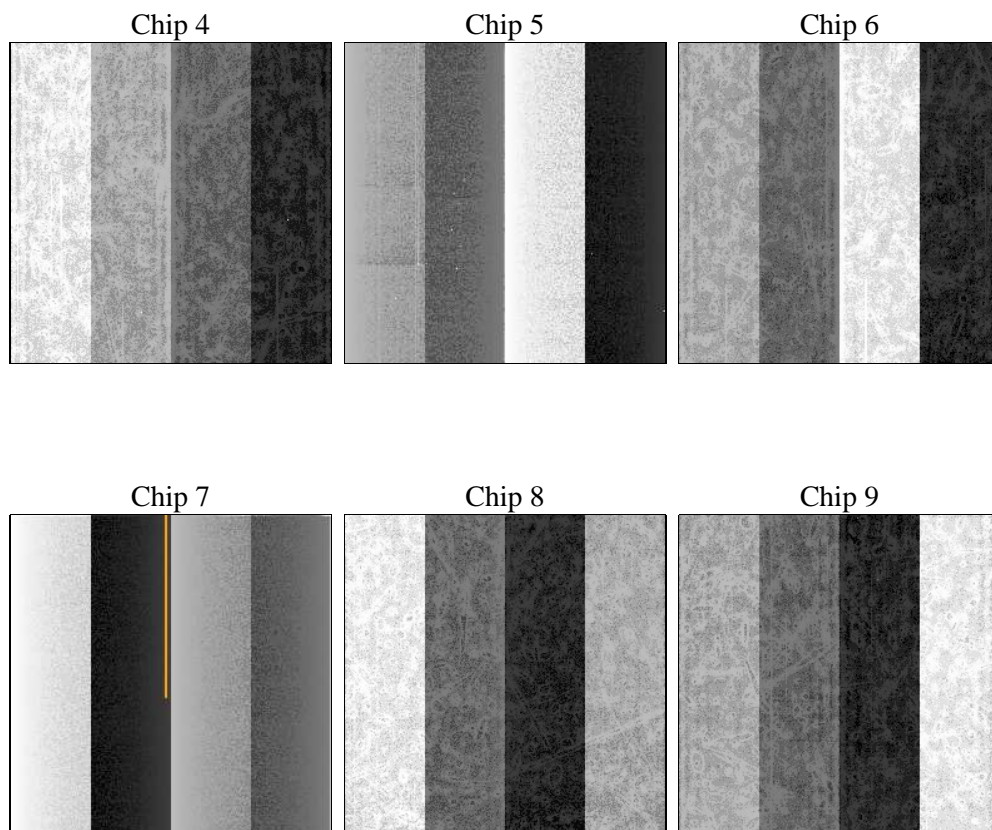
## 2 OBI

### 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	10.3.1	Processing system revision	ontime	7977.5999703407	Sum of GTIs [s]
caldsver	4.6.4	&#160	ontime4	7870.6441153288	Sum of GTIs [s]
date	2014-12-11T20:45:11	Date and time of file creation	ontime5	7977.5999703407	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	7873.885145247	Sum of GTIs [s]
			ontime7	7977.5999703407	Sum of GTIs [s]
			ontime8	7864.162035346	Sum of GTIs [s]
			ontime9	7873.8851755857	Sum of GTIs [s]
			l1events	818109	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	145469	120240	148195	111874	142800	149531	grade 0 events	12743	4241	9342	5485	13063	10688
rejected events	121486	69669	124586	65784	111983	126284		8%	3%	6%	4%	9%	7%
rejected %	83%	57%	84%	58%	78%	84%	grade 1 events	115	143	37	72	81	64
								0%	0%	0%	0%	0%	0%
							grade 2 events	4771	17982	6842	11544	7267	5517
								3%	14%	4%	10%	5%	3%
							grade 3 events	1628	1691	1309	3168	2172	1446
								1%	1%	0%	2%	1%	0%
							grade 4 events	1635	1443	1334	3146	2099	1465
								1%	1%	0%	2%	1%	0%
							grade 5 events	2883	5038	2483	6251	3386	2979
								1%	4%	1%	5%	2%	1%
							grade 6 events	3206	25214	4782	22747	6216	4131
								2%	20%	3%	20%	4%	2%
							grade 7 events	118488	64488	122066	59461	108516	123241
								81%	53%	82%	53%	75%	82%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	76.56774941805362	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	59.67507132872886	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	182.1229207921345	[s] Primary exposure time	3.2	3.2
[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)	534663180.389436	534663179.36444			
Observation start date	2014-12-11T05:33:00	2014-12-11T05:32:59			
[s] Observation end time (MET)	534675679.240133	534675678.21513			
Observation end date	2014-12-11T09:01:19	2014-12-11T09:01:18			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.9775999703407

### A.2 Comments