

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53982 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 31 2013

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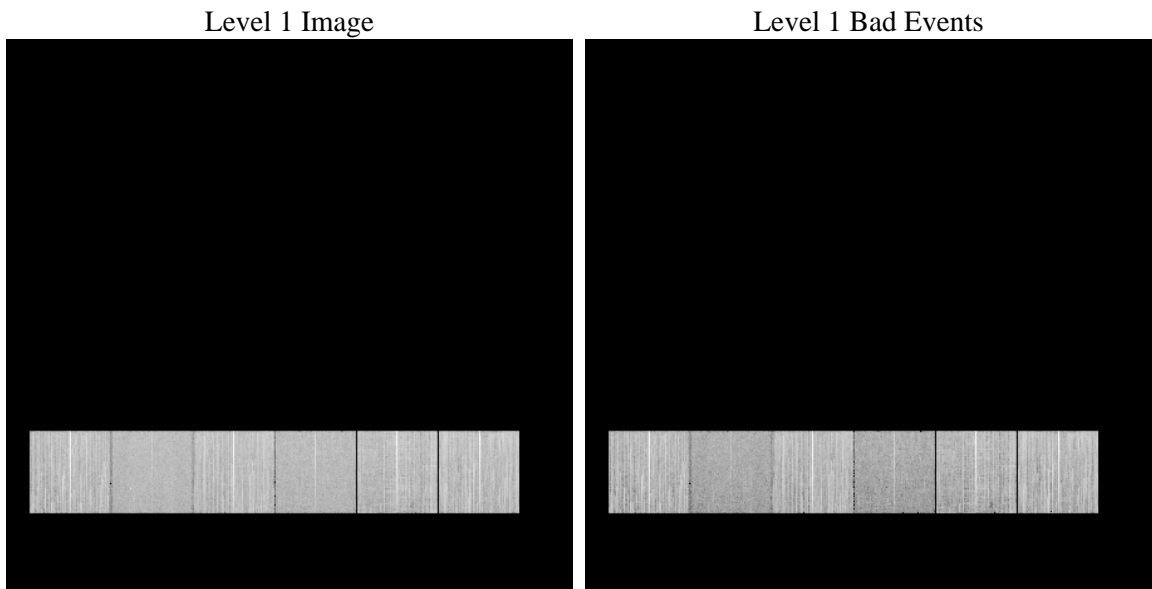
# 1 Front

seq_num	&#160	Sequence number
obs_id	53982	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	154.00496958171	Nominal RA [deg]
dec_nom	-0.97173495003807	Nominal Dec [deg]
roll_nom	47.16741900529	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8278.3271595836	Sum of GTIs [s]
livetime	8173.5019964787	Livetime [s]
ontime4	8278.2040395737	Sum of GTIs [s]
ontime5	8278.2861195803	Sum of GTIs [s]
ontime6	8278.245079577	Sum of GTIs [s]
ontime7	8278.3271595836	Sum of GTIs [s]
ontime8	8278.1629995704	Sum of GTIs [s]
ontime9	8278.3681995869	Sum of GTIs [s]
l2events	255608	Number of level 2 events

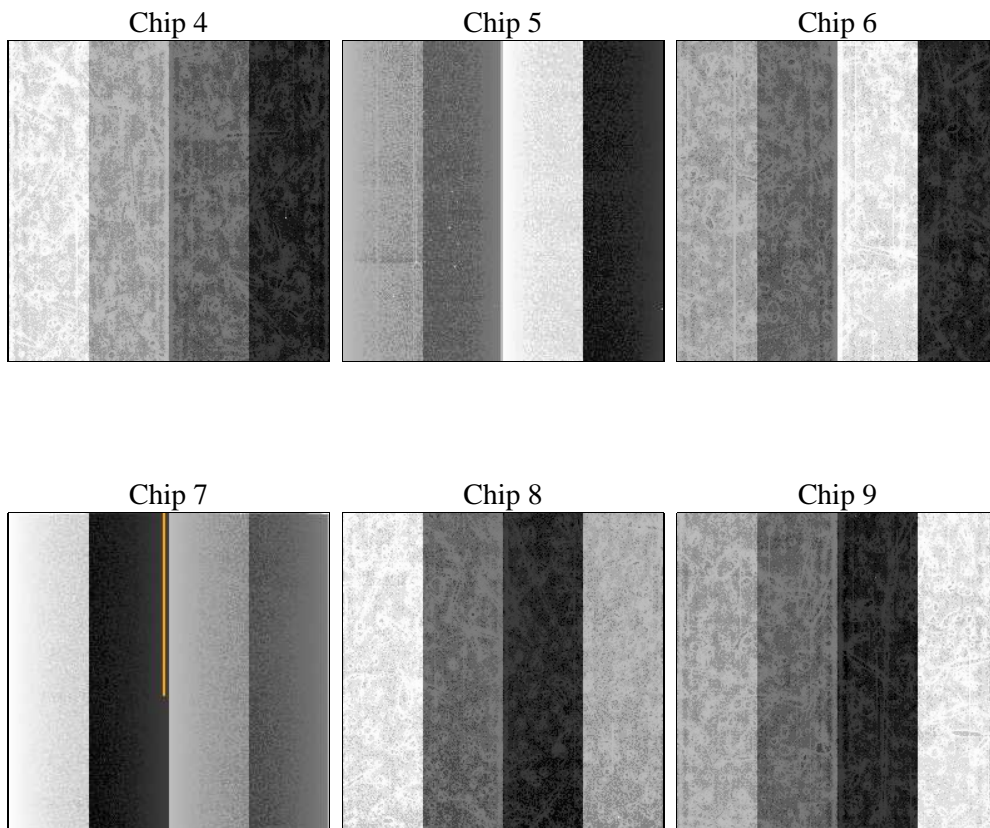
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	8278.3271595836	Sum of GTIs [s]
caldbver	4.5.5	&#160	ontime4	8278.2040395737	Sum of GTIs [s]
date	2013-01-31T05:00:42	Date and time of file creation	ontime5	8278.2861195803	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8278.245079577	Sum of GTIs [s]
			ontime7	8278.3271595836	Sum of GTIs [s]
			ontime8	8278.1629995704	Sum of GTIs [s]
			ontime9	8278.3681995869	Sum of GTIs [s]
			l1events	1002351	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	176276	143112	184909	138567	170909	188578	grade 0 events	18510	5293	17130	8649	20639	17671
rejected events	141839	78797	148781	75904	125961	152984		10%	3%	9%	6%	12%	9%
rejected %	80%	55%	80%	54%	73%	81%	grade 1 events	138	171	83	101	96	101
								0%	0%	0%	0%	0%	0%
							grade 2 events	6654	24119	8231	15567	9365	7297
								3%	16%	4%	11%	5%	3%
							grade 3 events	2454	2045	2192	4887	3272	2394
								1%	1%	1%	3%	1%	1%
							grade 4 events	2327	1978	2219	4783	3243	2350
								1%	1%	1%	3%	1%	1%
							grade 5 events	3348	6093	3180	7731	4271	3658
								1%	4%	1%	5%	2%	1%
							grade 6 events	4508	30901	6373	28803	8441	5903
								2%	21%	3%	20%	4%	3%
							grade 7 events	138337	72512	145501	68046	121582	149204
								78%	50%	78%	49%	71%	79%

## 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	154.0049695817071	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-0.9717349500380691	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	47.16741900528974	[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	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	475934840.716231	475934839.69123			
Observation start date	2013-01-30T12:07:21	2013-01-30T12:07:19			
[s] Observation end time (MET)	475945018.96678	475945017.94178			
Observation end date	2013-01-30T14:56:59	2013-01-30T14:56:57			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

## **A Summary**

### **A.1 Status**

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2783271595836

### **A.2 Comments**