

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 54970 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Feb 29 2012

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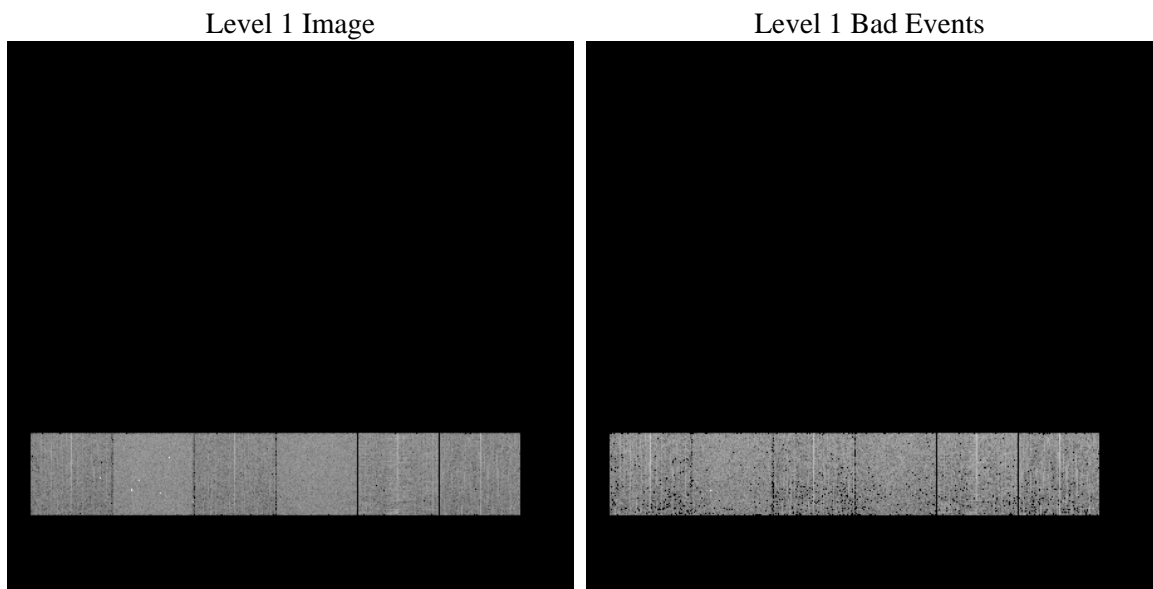
# 1 Front

seq_num	&#160	Sequence number
obs_id	54970	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	78.976385450435	Nominal RA [deg]
dec_nom	47.975822996936	Nominal Dec [deg]
roll_nom	204.00570951938	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3283.1999878287	Sum of GTIs [s]
livetime	3241.6261326772	Livetime [s]
ontime4	3283.1999878287	Sum of GTIs [s]
ontime5	3283.1999878287	Sum of GTIs [s]
ontime6	3283.1999878287	Sum of GTIs [s]
ontime7	3283.1999878287	Sum of GTIs [s]
ontime8	3283.1999878287	Sum of GTIs [s]
ontime9	3283.1999878287	Sum of GTIs [s]
l2events	124405	Number of level 2 events

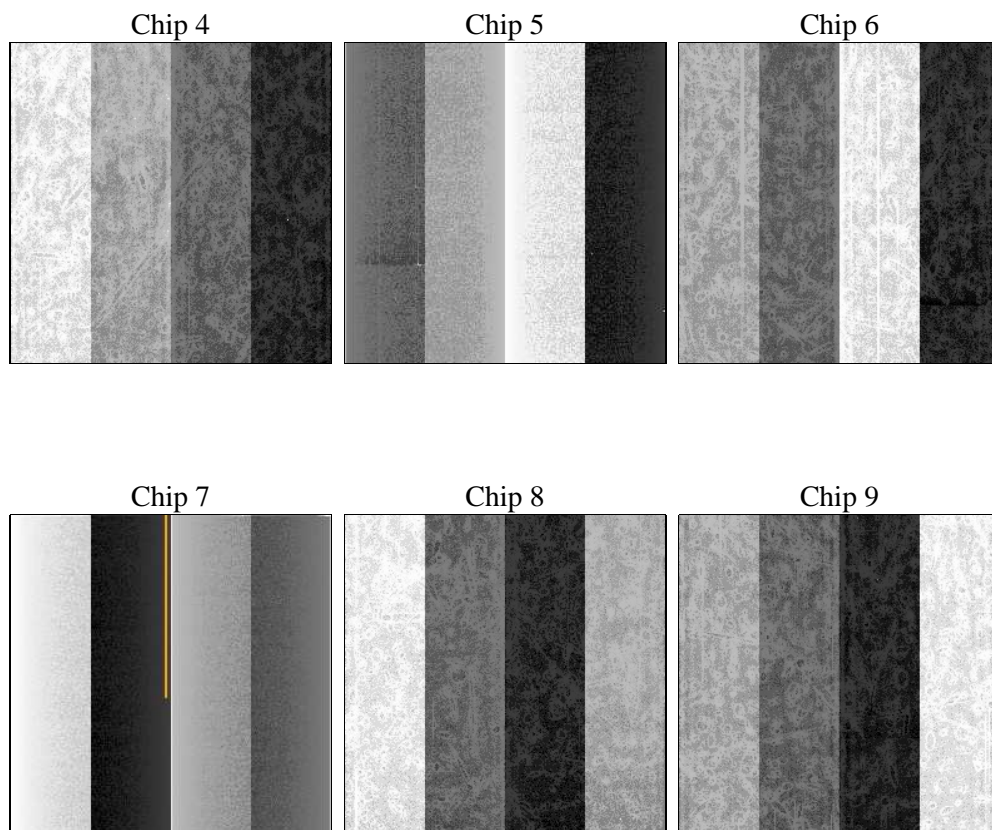
## 2 OBI

### 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	8.4.3	Processing system revision	ontime	3283.1999878287	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime4	3283.1999878287	Sum of GTIs [s]
date	2012-02-29T13:04:50	Date and time of file creation	ontime5	3283.1999878287	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3283.1999878287	Sum of GTIs [s]
			ontime7	3283.1999878287	Sum of GTIs [s]
			ontime8	3283.1999878287	Sum of GTIs [s]
			ontime9	3283.1999878287	Sum of GTIs [s]
			l1events	282642	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	40894	57093	41201	52388	48873	42193	grade 0 events	10185	4939	9325	4899	10562	9210
rejected events	23144	24518	23118	22871	26298	24464		24%	8%	22%	9%	21%	21%
rejected %	56%	42%	56%	43%	53%	57%	grade 1 events	86	85	41	40	61	78
								0%	0%	0%	0%	0%	0%
							grade 2 events	2868	11378	3417	6395	4365	3122
								7%	19%	8%	12%	8%	7%
							grade 3 events	1253	1207	1164	2684	1728	1286
								3%	2%	2%	5%	3%	3%
							grade 4 events	1206	1260	1126	2654	1645	1207
								2%	2%	2%	5%	3%	2%
							grade 5 events	1393	3158	1450	3539	1918	1671
								3%	5%	3%	6%	3%	3%
							grade 6 events	2260	13830	3074	12916	4329	2927
								5%	24%	7%	24%	8%	6%
							grade 7 events	21643	21236	21604	19261	24265	22692
								52%	37%	52%	36%	49%	53%

## 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	78.97638545043469
[deg] Pointing Dec	0	47.9758229969359
[deg] Pointing Roll	0.0	204.0057095193836
[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)	440948865.427799	440948864.4028
Observation start date	2011-12-22T13:47:45	2011-12-22T13:47:44
[s] Observation end time (MET)	440959545.928364	440959544.90336
Observation end date	2011-12-22T16:45:46	2011-12-22T16:45:44
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	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2831999878287

### A.2 Comments