

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 54977 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Feb 28 2012

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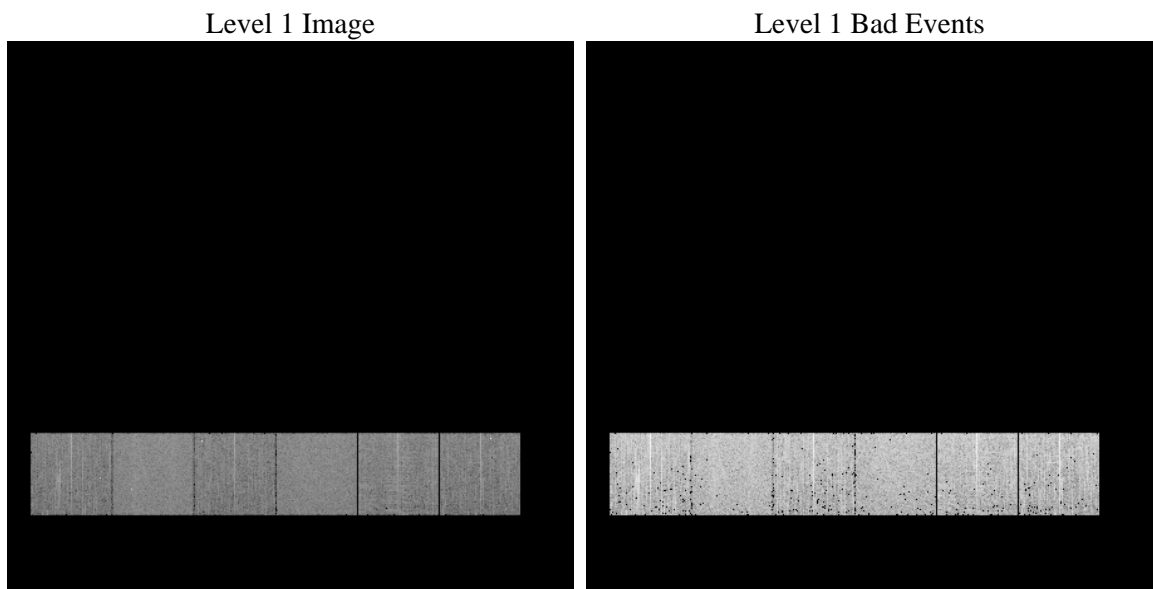
# 1 Front

seq_num	&#160	Sequence number
obs_id	54977	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	96.516335673461	Nominal RA [deg]
dec_nom	-0.4643307736363	Nominal Dec [deg]
roll_nom	25.095578462217	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3832.1406596899	Sum of GTIs [s]
livetime	3783.6157872188	Livetime [s]
ontime4	3832.01753968	Sum of GTIs [s]
ontime5	3832.0996196866	Sum of GTIs [s]
ontime6	3832.0585796833	Sum of GTIs [s]
ontime7	3832.1406596899	Sum of GTIs [s]
ontime8	3831.9764996767	Sum of GTIs [s]
ontime9	3832.1816996932	Sum of GTIs [s]
l2events	145089	Number of level 2 events

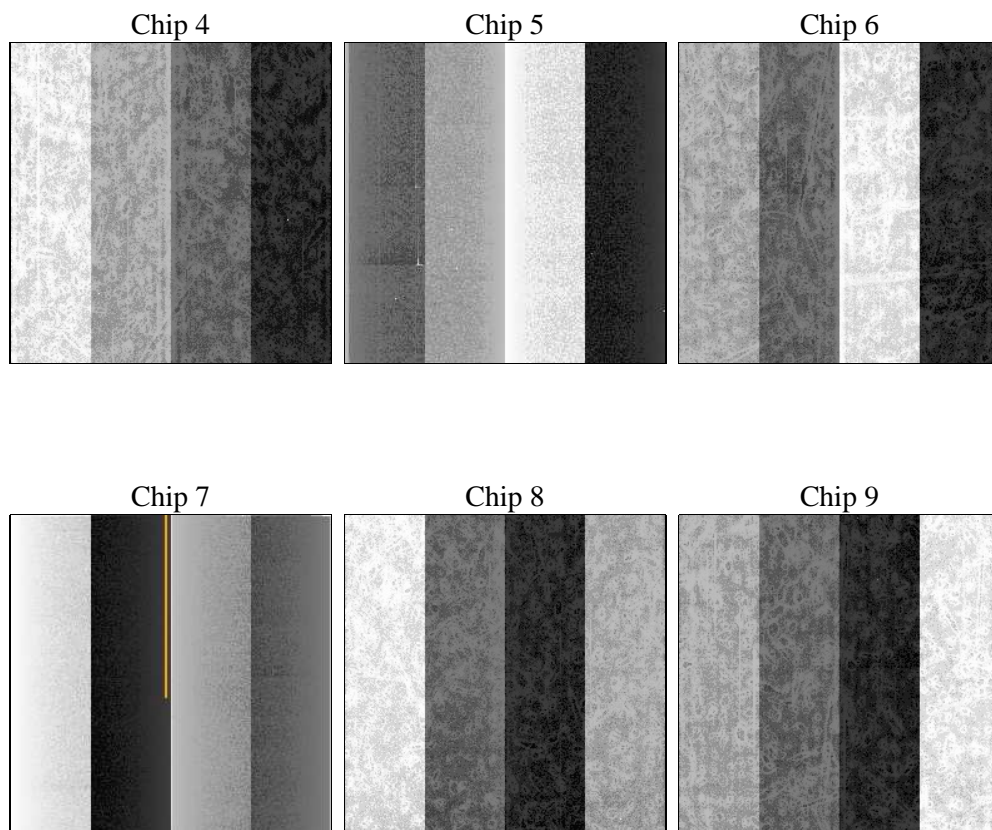
## 2 OBI

### 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	3832.1406596899	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime4	3832.01753968	Sum of GTIs [s]
date	2012-02-28T19:43:06	Date and time of file creation	ontime5	3832.0996196866	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3832.0585796833	Sum of GTIs [s]
			ontime7	3832.1406596899	Sum of GTIs [s]
			ontime8	3831.9764996767	Sum of GTIs [s]
			ontime9	3832.1816996932	Sum of GTIs [s]
			l1events	341061	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	51869	65895	51309	62785	57849	51354	grade 0 events	11245	3492	10690	5295	12357	11831
rejected events	31876	29736	28964	28485	31624	29645		21%	5%	20%	8%	21%	23%
rejected %	61%	45%	56%	45%	54%	57%	grade 1 events	107	85	56	41	74	88
								0%	0%	0%	0%	0%	0%
							grade 2 events	3177	13307	5253	7536	5046	3655
								6%	20%	10%	12%	8%	7%
							grade 3 events	1440	1233	1323	2928	2006	1412
								2%	1%	2%	4%	3%	2%
							grade 4 events	1417	1181	1386	2835	1976	1431
								2%	1%	2%	4%	3%	2%
							grade 5 events	1686	3351	1649	4163	2274	1961
								3%	5%	3%	6%	3%	3%
							grade 6 events	2731	16979	3708	15736	4853	3395
								5%	25%	7%	25%	8%	6%
							grade 7 events	30066	26267	27244	24251	29263	27581
								57%	39%	53%	38%	50%	53%

## 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	96.51633567346067	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-0.4643307736362984	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	25.09557846221694	[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)	440514677.454868	440514676.42987			
Observation start date	2011-12-17T13:11:17	2011-12-17T13:11:16			
[s] Observation end time (MET)	440523029.155308	440523028.13031			
Observation end date	2011-12-17T15:30:29	2011-12-17T15:30:28			
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)	2012.02.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.8321406596899

### A.2 Comments