

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53998 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 25 2013

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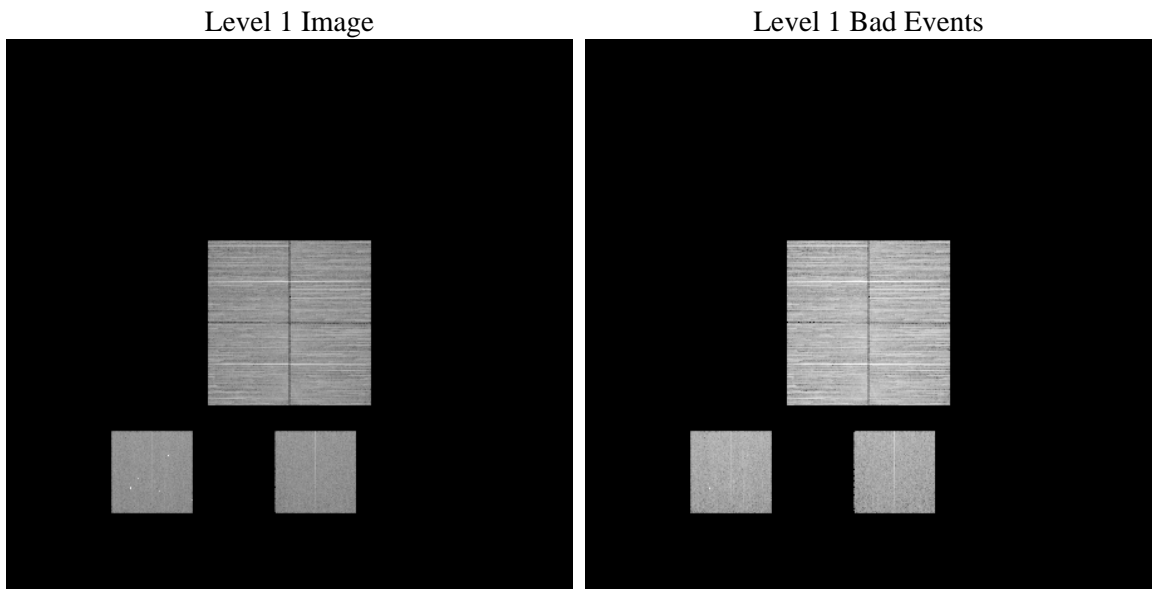
# 1 Front

seq_num	&#160	Sequence number
obs_id	53998	Observation id
title	ACIS-012357 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	133.53433267383	Nominal RA [deg]
dec_nom	-7.3852767900005	Nominal Dec [deg]
roll_nom	13.231050472652	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8124.7999697924	Sum of GTIs [s]
livetime	8021.9188604077	Livetime [s]
ontime0	8124.7999697924	Sum of GTIs [s]
ontime1	8124.7999697924	Sum of GTIs [s]
ontime2	8124.7999697924	Sum of GTIs [s]
ontime3	8124.7999697924	Sum of GTIs [s]
ontime5	8124.7999697924	Sum of GTIs [s]
ontime7	8124.7999697924	Sum of GTIs [s]
l2events	255550	Number of level 2 events

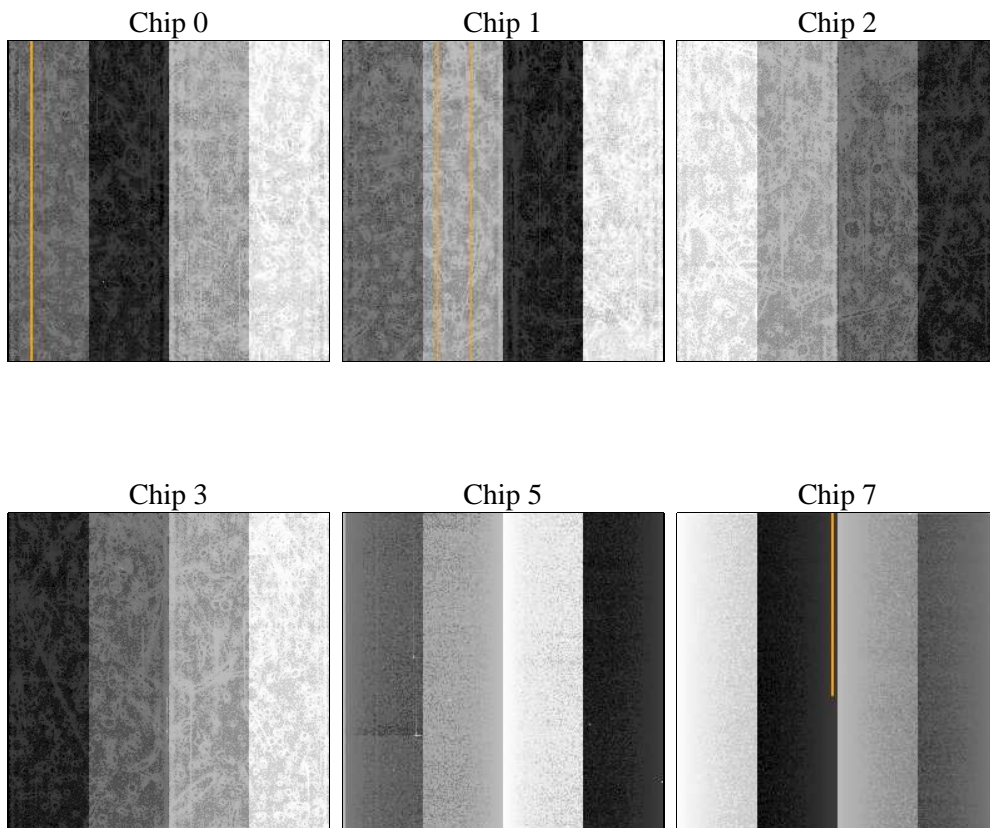
## 2 OBI

### 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	8124.7999697924	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime0	8124.7999697924	Sum of GTIs [s]
date	2013-01-25T17:33:32	Date and time of file creation	ontime1	8124.7999697924	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8124.7999697924	Sum of GTIs [s]
			ontime3	8124.7999697924	Sum of GTIs [s]
			ontime5	8124.7999697924	Sum of GTIs [s]
			ontime7	8124.7999697924	Sum of GTIs [s]
			l1events	1001309	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	167087	177756	185662	183589	148535	138680	grade 0 events	17961	17477	18763	18439	10006	9664
rejected events	132630	143251	150805	148933	78726	75195		10%	9%	10%	10%	6%	6%
rejected %	79%	80%	81%	81%	53%	54%	grade 1 events	99	100	120	114	132	102
								0%	0%	0%	0%	0%	0%
							grade 2 events	6824	7247	6750	6685	25604	15794
								4%	4%	3%	3%	17%	11%
							grade 3 events	2375	2428	2461	2457	2889	5499
								1%	1%	1%	1%	1%	3%
							grade 4 events	2449	2359	2390	2458	2788	5329
								1%	1%	1%	1%	1%	3%
							grade 5 events	3212	3104	2957	3532	7027	8636
								1%	1%	1%	1%	4%	6%
							grade 6 events	5485	5708	5212	5335	29929	28472
								3%	3%	2%	2%	20%	20%
							grade 7 events	128682	139333	147009	144569	70160	65184
								77%	78%	79%	78%	47%	47%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	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	133.5343326738338	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-7.385276790000543	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	13.23105047265245	[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)	475445317.089835	475445316.06484			
Observation start date	2013-01-24T20:08:37	2013-01-24T20:08:36			
[s] Observation end time (MET)	475454880.340352	475454879.31535			
Observation end date	2013-01-24T22:48:00	2013-01-24T22:47:59			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.01.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1247999697924

### A.2 Comments