

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60208 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 3 2012

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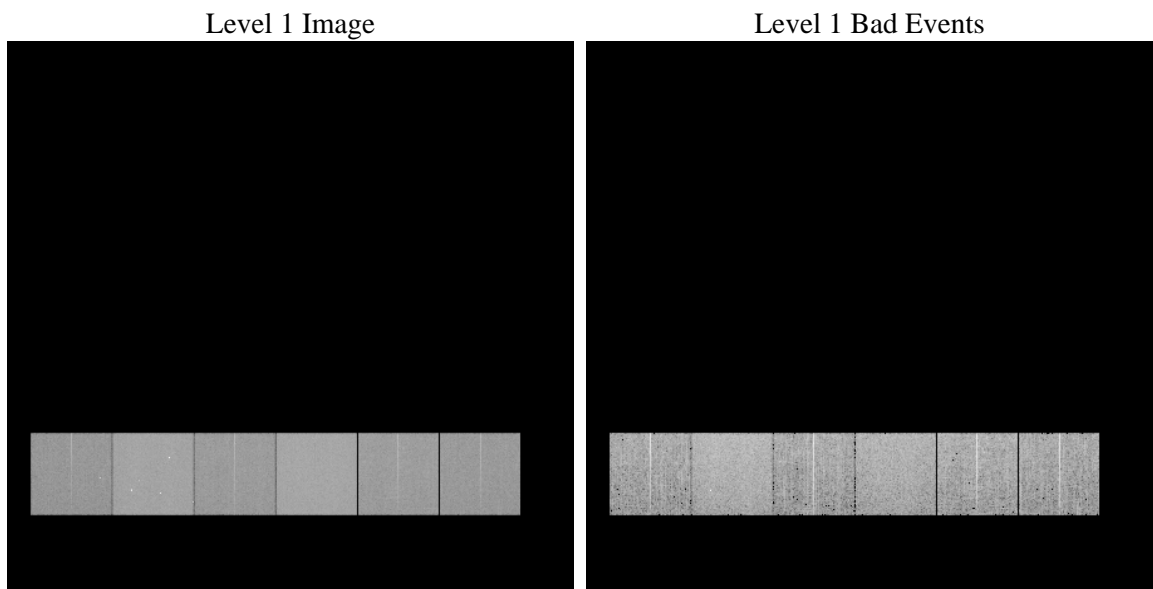
# 1 Front

seq_num	&#160	Sequence number
obs_id	60208	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	220.04306058968	Nominal RA [deg]
dec_nom	-52.010803038344	Nominal Dec [deg]
roll_nom	305.00993687843	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7788.7179705799	Sum of GTIs [s]
livetime	7690.0925338335	Livetime [s]
ontime4	4802.4700295627	Sum of GTIs [s]
ontime5	7795.1999709606	Sum of GTIs [s]
ontime6	5332.0569813848	Sum of GTIs [s]
ontime7	7788.7179705799	Sum of GTIs [s]
ontime8	5502.5632054508	Sum of GTIs [s]
ontime9	5194.4653190076	Sum of GTIs [s]
l2events	1076493	Number of level 2 events

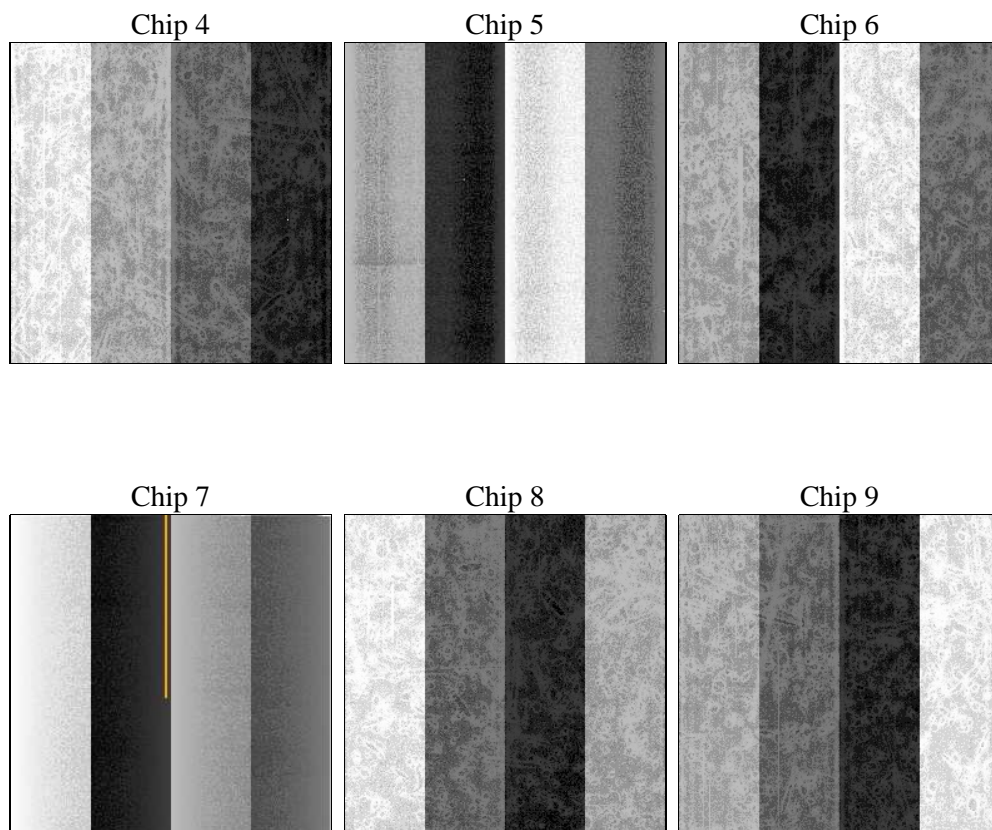
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	7788.7179705799	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime4	4802.4700295627	Sum of GTIs [s]
date	2012-12-03T04:16:16	Date and time of file creation	ontime5	7795.1999709606	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	5332.0569813848	Sum of GTIs [s]
			ontime7	7788.7179705799	Sum of GTIs [s]
			ontime8	5502.5632054508	Sum of GTIs [s]
			ontime9	5194.4653190076	Sum of GTIs [s]
			l1events	1413463	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	181416	289731	210366	307983	225202	198765	grade 0 events	82179	53744	91794	63815	97576	87953
rejected events	39653	55497	41118	47956	45873	39627		45%	18%	43%	20%	43%	44%
rejected %	21%	19%	19%	15%	20%	19%	grade 1 events	662	368	471	177	544	479
								0%	0%	0%	0%	0%	0%
							grade 2 events	22733	83558	29397	57742	31370	27319
								12%	28%	13%	18%	13%	13%
							grade 3 events	9493	13932	10677	26067	11667	10247
								5%	4%	5%	8%	5%	5%
							grade 4 events	9364	13853	10568	25879	11762	10163
								5%	4%	5%	8%	5%	5%
							grade 5 events	2236	8922	2789	8570	3202	2790
								1%	3%	1%	2%	1%	1%
							grade 6 events	17994	69245	26892	86816	26954	23456
								9%	23%	12%	28%	11%	11%
							grade 7 events	36755	46109	37778	38917	42127	36358
								20%	15%	17%	12%	18%	18%

## 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	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	220.0430605896825	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-52.01080303834407	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	305.0099368784327			
[mm] SIM focus pos	-0.684267	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	202866192.980769	202866191.95577			
Observation start date	2004-06-05T23:43:13	2004-06-05T23:43:11			
[s] Observation end time (MET)	202884138.681562	202884137.65657			
Observation end date	2004-06-06T04:42:19	2004-06-06T04:42:17			
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)	2012.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.7887179705799

### A.2 Comments