

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60603 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Nov 2 2012

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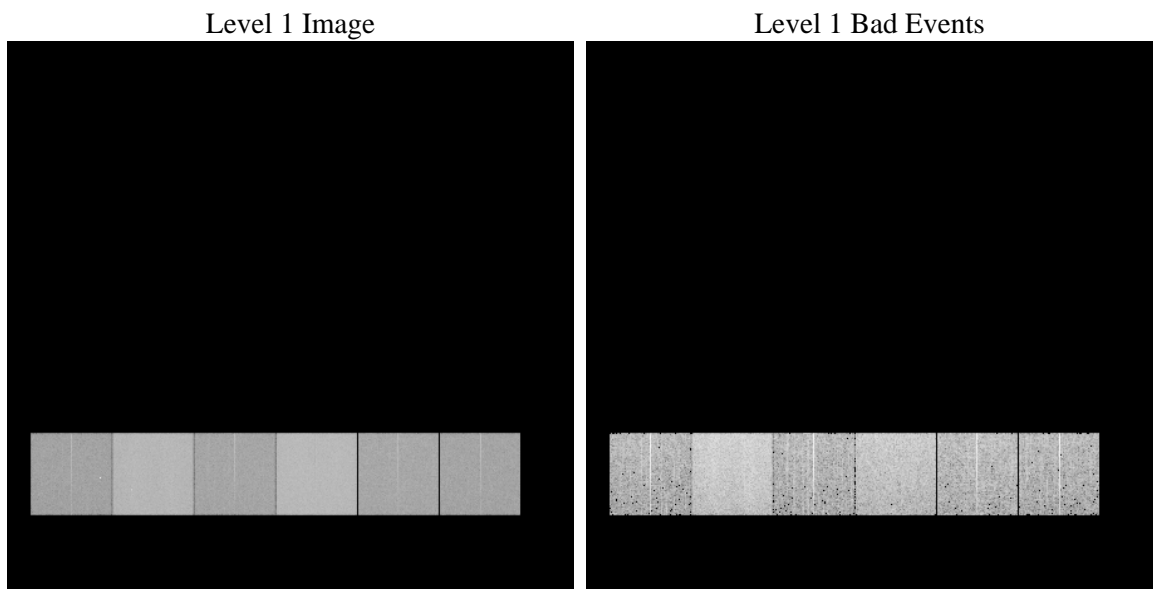
# 1 Front

seq_num	&#160	Sequence number
obs_id	60603	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	335.97287393828	Nominal RA [deg]
dec_nom	0.009136307419098	Nominal Dec [deg]
roll_nom	128.38074505413	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8451.1999685168	Sum of GTIs [s]
livetime	8344.1857858138	Livetime [s]
ontime4	3947.4269962907	Sum of GTIs [s]
ontime5	8451.1999685168	Sum of GTIs [s]
ontime6	4221.7303259075	Sum of GTIs [s]
ontime7	8451.1999685168	Sum of GTIs [s]
ontime8	4397.9656705856	Sum of GTIs [s]
ontime9	4125.5169270933	Sum of GTIs [s]
l2events	1247183	Number of level 2 events

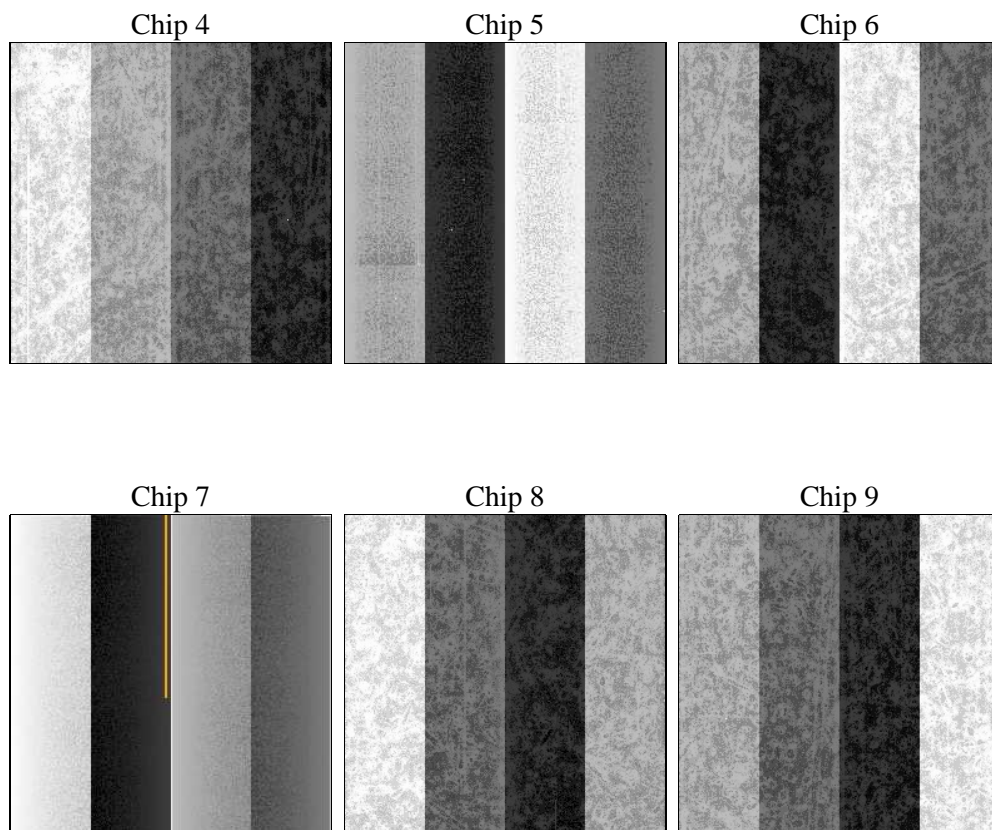
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8451.1999685168	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime4	3947.4269962907	Sum of GTIs [s]
date	2012-11-02T00:51:33	Date and time of file creation	ontime5	8451.1999685168	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	4221.7303259075	Sum of GTIs [s]
			ontime7	8451.1999685168	Sum of GTIs [s]
			ontime8	4397.9656705856	Sum of GTIs [s]
			ontime9	4125.5169270933	Sum of GTIs [s]
			l1events	1537623	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	179595	357985	201794	391664	215198	191387	grade 0 events	88732	57945	93225	84963	99894	89278
rejected events	29805	59096	30570	45981	34108	30075		49%	16%	46%	21%	46%	46%
rejected %	16%	16%	15%	11%	15%	15%	grade 1 events	667	222	448	223	512	493
								0%	0%	0%	0%	0%	0%
							grade 2 events	22197	118975	29779	76068	31243	27261
								12%	33%	14%	19%	14%	14%
							grade 3 events	9877	15691	10206	34265	11483	10313
								5%	4%	5%	8%	5%	5%
							grade 4 events	9895	15176	10287	33779	11325	10007
								5%	4%	5%	8%	5%	5%
							grade 5 events	1882	9217	2046	8341	2402	2153
								1%	2%	1%	2%	1%	1%
							grade 6 events	19089	91102	27727	116608	27145	24453
								10%	25%	13%	29%	12%	12%
							grade 7 events	27256	49657	28076	37417	31194	27429
								15%	13%	13%	9%	14%	14%

## 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	335.9728739382767	Alternating exposures requested	N	N
[deg] Pointing Dec	0	0.009136307419097964	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	128.3807450541277			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	176186864.520122	176186863.49541			
Observation start date	2003-08-02T04:47:45	2003-08-02T04:47:43			
[s] Observation end time (MET)	176198145.670603	176198144.64589			
Observation end date	2003-08-02T07:55:46	2003-08-02T07:55:44			
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)	2012.12.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4511999685168

### **A.2 Comments**