

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 61040 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 13 2012

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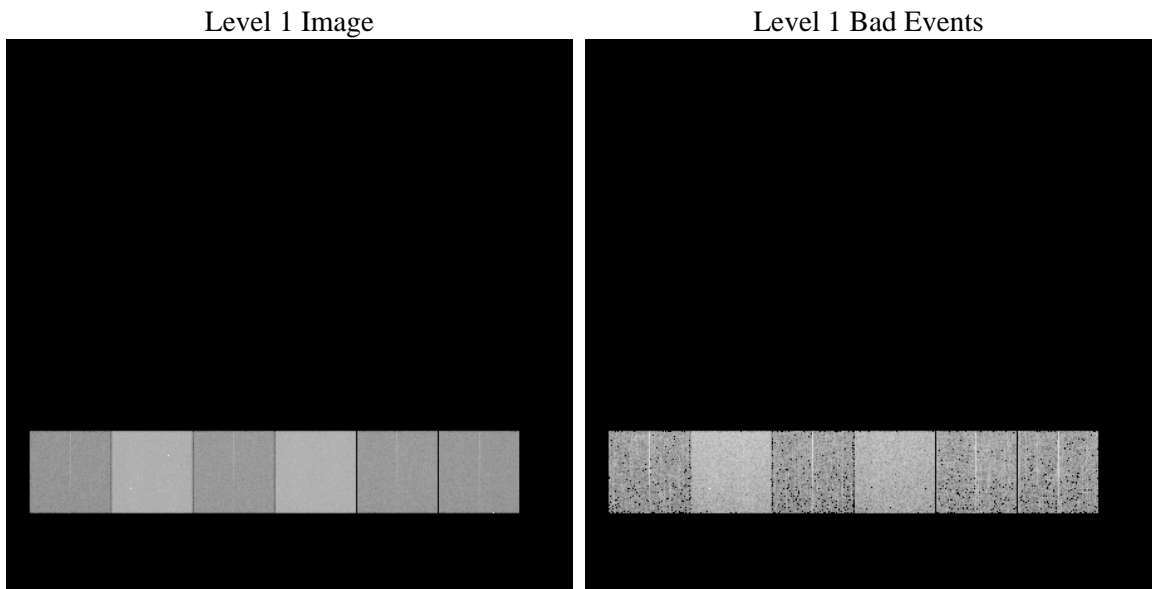
# 1 Front

seq_num	&#160	Sequence number
obs_id	61040	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycle	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	70.572383941399	Nominal RA [deg]
dec_nom	-60.474841282584	Nominal Dec [deg]
roll_nom	85.59495567862	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7526.2410185635	Sum of GTIs [s]
livetime	7430.9392230282	Livetime [s]
ontime4	2772.8084433377	Sum of GTIs [s]
ontime5	7791.9999709725	Sum of GTIs [s]
ontime6	3041.7729851007	Sum of GTIs [s]
ontime7	7526.2410185635	Sum of GTIs [s]
ontime8	3022.4088251889	Sum of GTIs [s]
ontime9	2941.1780538261	Sum of GTIs [s]
l2events	1209473	Number of level 2 events

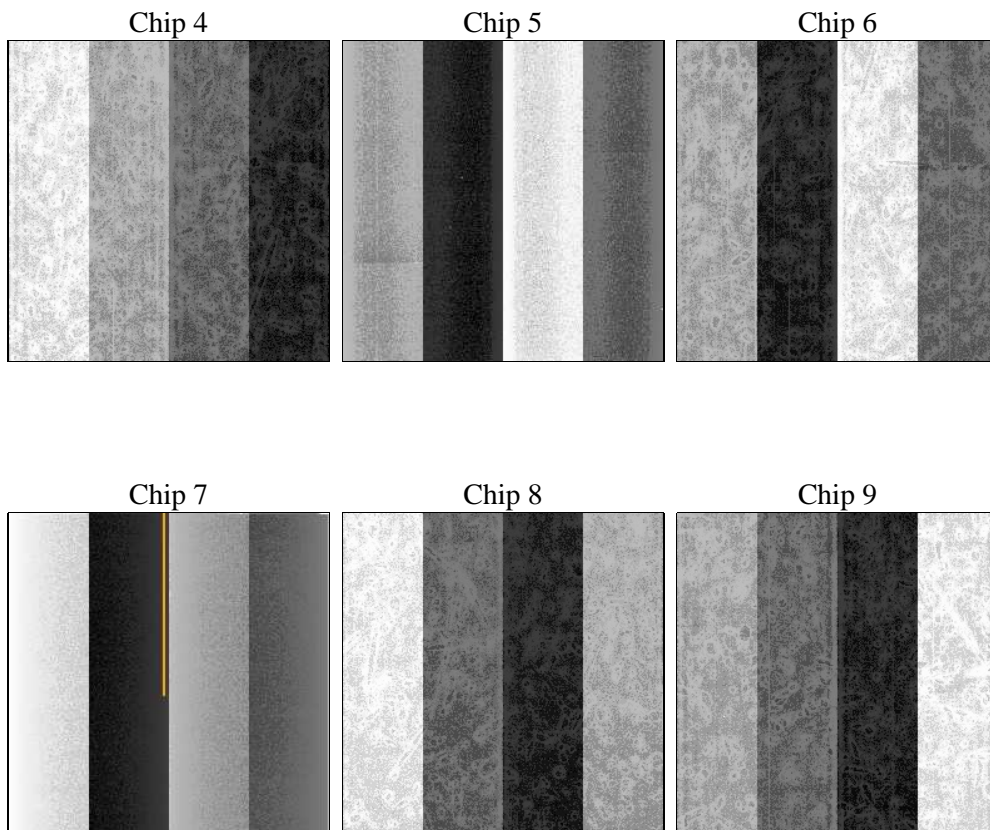
## 2 OBI

### 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	7526.2410185635	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime4	2772.8084433377	Sum of GTIs [s]
date	2012-10-13T08:54:56	Date and time of file creation	ontime5	7791.9999709725	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	3041.7729851007	Sum of GTIs [s]
			ontime7	7526.2410185635	Sum of GTIs [s]
			ontime8	3022.4088251889	Sum of GTIs [s]
			ontime9	2941.1780538261	Sum of GTIs [s]
			l1events	1436064	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	146633	383818	168887	404506	172137	160083	grade 0 events	73260	85261	81489	93311	81956	76809
rejected events	20616	48467	20276	38206	23700	21525		49%	22%	48%	23%	47%	47%
rejected %	14%	12%	12%	9%	13%	13%	grade 1 events	492	359	365	244	398	376
								0%	0%	0%	0%	0%	0%
							grade 2 events	20395	115425	25780	80839	26000	24278
								13%	30%	15%	19%	15%	15%
							grade 3 events	8209	22642	9173	37147	9396	8744
								5%	5%	5%	9%	5%	5%
							grade 4 events	8376	22102	9202	36904	9462	8779
								5%	5%	5%	9%	5%	5%
							grade 5 events	1387	8876	1404	7459	1806	1556
								0%	2%	0%	1%	1%	0%
							grade 6 events	15777	89921	22967	118260	21623	20110
								10%	23%	13%	29%	12%	12%
							grade 7 events	18737	39232	18507	30342	21496	19431
								12%	10%	10%	7%	12%	12%

## 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	70.57238394139881	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-60.47484128258429	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	85.59495567861968			
[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)	148040277.237701	148040276.21299			
Observation start date	2002-09-10T10:17:57	2002-09-10T10:17:56			
[s] Observation end time (MET)	148069803.388921	148069802.3642			
Observation end date	2002-09-10T18:30:03	2002-09-10T18:30:02			
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)	2012.10.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.5262410185635

## A.2 Comments