

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60535 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Nov 5 2012

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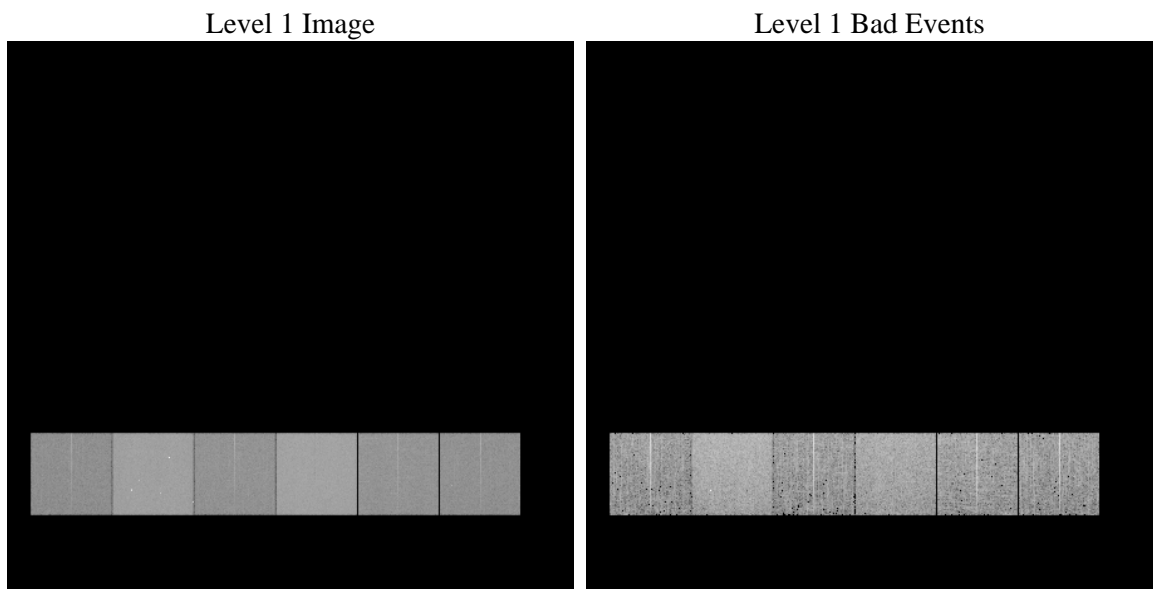
# 1 Front

seq_num	&#160	Sequence number
obs_id	60535	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	8.426411715309	Nominal RA [deg]
dec_nom	-26.983721801188	Nominal Dec [deg]
roll_nom	1.8299037580261	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8463.9999684691	Sum of GTIs [s]
livetime	8356.8237044595	Livetime [s]
ontime4	4354.4365175962	Sum of GTIs [s]
ontime5	8463.9999684691	Sum of GTIs [s]
ontime6	4779.0063238442	Sum of GTIs [s]
ontime7	8463.9999684691	Sum of GTIs [s]
ontime8	4874.3543899059	Sum of GTIs [s]
ontime9	4582.4599328339	Sum of GTIs [s]
l2events	1228382	Number of level 2 events

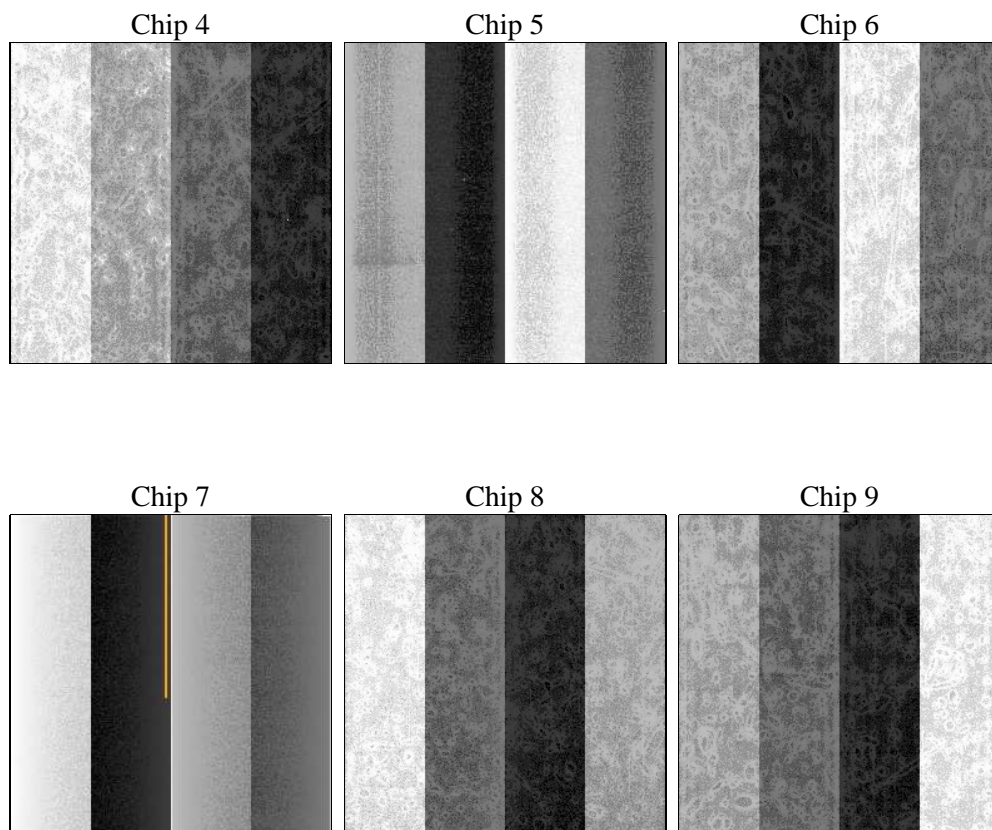
## 2 OBI

### 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	8463.9999684691	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime4	4354.4365175962	Sum of GTIs [s]
date	2012-11-05T03:48:36	Date and time of file creation	ontime5	8463.9999684691	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	4779.0063238442	Sum of GTIs [s]
			ontime7	8463.9999684691	Sum of GTIs [s]
			ontime8	4874.3543899059	Sum of GTIs [s]
			ontime9	4582.4599328339	Sum of GTIs [s]
			l1events	1537111	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	184935	345258	213743	369923	223350	199902	grade 0 events	88076	67577	97672	80055	101374	91478
rejected events	33139	56745	34450	46444	38180	34351		47%	19%	45%	21%	45%	45%
rejected %	17%	16%	16%	12%	17%	17%	grade 1 events	612	218	488	237	488	488
								0%	0%	0%	0%	0%	0%
							grade 2 events	24402	103081	30935	71499	32601	28435
								13%	29%	14%	19%	14%	14%
							grade 3 events	10049	17791	11237	32914	11852	10555
								5%	5%	5%	8%	5%	5%
							grade 4 events	10081	17193	11112	32363	11700	10486
								5%	4%	5%	8%	5%	5%
							grade 5 events	2102	9516	2423	8745	2729	2444
								1%	2%	1%	2%	1%	1%
							grade 6 events	19188	82871	28337	106648	27643	24597
								10%	24%	13%	28%	12%	12%
							grade 7 events	30425	47011	31539	37462	34963	31419
								16%	13%	14%	10%	15%	15%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	8.42641171530901
[deg] Pointing Dec	0	-26.98372180118841
[deg] Pointing Roll	0.0	1.829903758026058
[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)	181423452.39434	181423451.36963
Observation start date	2003-10-01T19:24:12	2003-10-01T19:24:11
[s] Observation end time (MET)	181452910.895605	181452909.87089
Observation end date	2003-10-02T03:35:11	2003-10-02T03:35:09
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.12.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4639999684691

### A.2 Comments