

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 59634 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 24 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Star Slots . . . . .	6
2.4	FID Slots . . . . .	6
<b>A</b>	<b>Summary</b>	<b>7</b>
A.1	Status . . . . .	7
A.2	Comments . . . . .	7

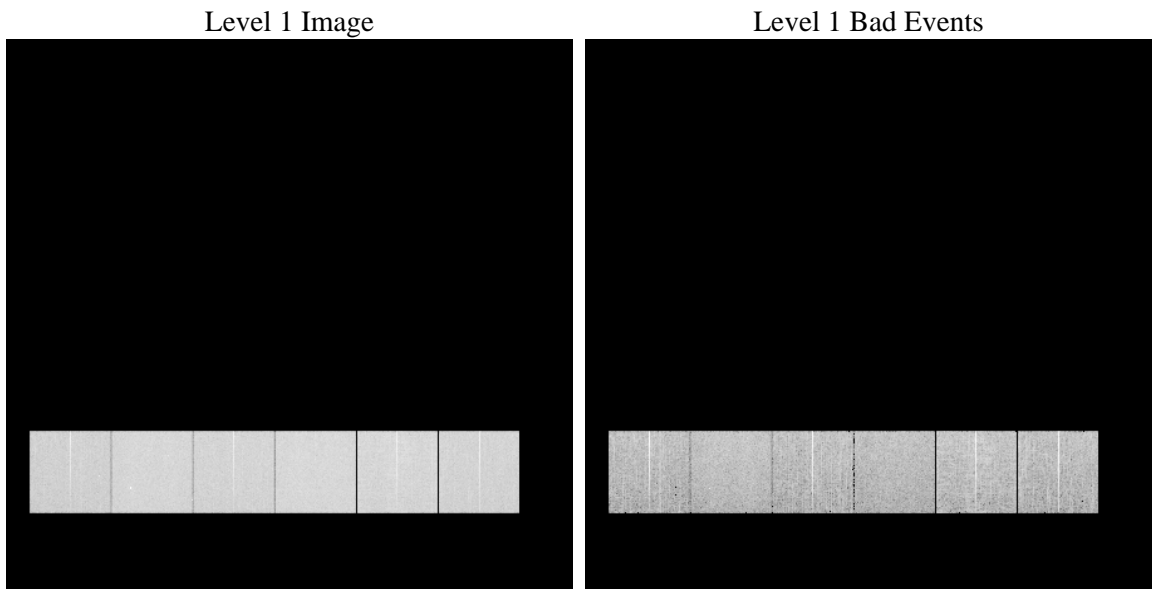
# 1 Front

seq_num	&#160	Sequence number
obs_id	59634	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	118.06401866197	Nominal RA [deg]
dec_nom	65.988153936485	Nominal Dec [deg]
roll_nom	302.68885808938	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8268.7435701489	Sum of GTIs [s]
livetime	8164.0397602241	Livetime [s]
ontime4	7001.4054055512	Sum of GTIs [s]
ontime5	8268.7025301456	Sum of GTIs [s]
ontime6	7516.7590718269	Sum of GTIs [s]
ontime7	8268.7435701489	Sum of GTIs [s]
ontime8	7863.459602654	Sum of GTIs [s]
ontime9	7432.6173833013	Sum of GTIs [s]
l2events	1075159	Number of level 2 events

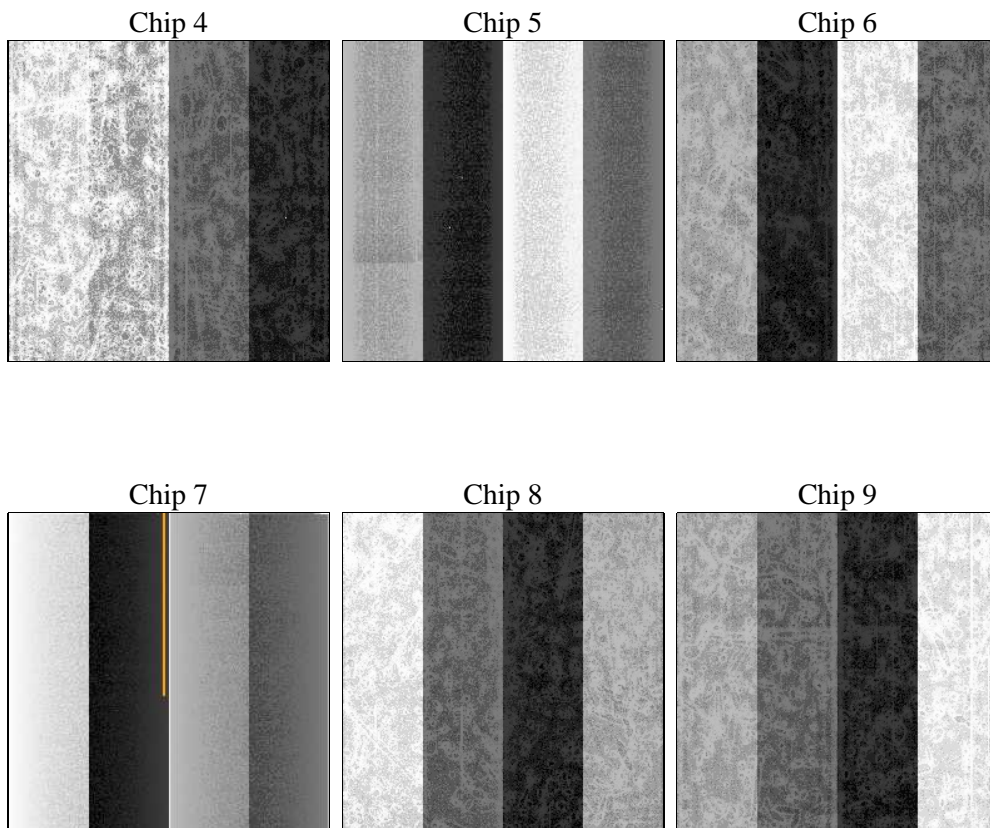
## 2 OBI

### 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	8268.7435701489	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime4	7001.4054055512	Sum of GTIs [s]
date	2012-12-24T13:48:40	Date and time of file creation	ontime5	8268.7025301456	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	7516.7590718269	Sum of GTIs [s]
			ontime7	8268.7435701489	Sum of GTIs [s]
			ontime8	7863.459602654	Sum of GTIs [s]
			ontime9	7432.6173833013	Sum of GTIs [s]
			l1events	1489108	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	215318	256950	242331	272426	266777	235306	grade 0 events	92746	37880	100980	51672	108833	97832
rejected events	55705	59456	56720	51333	65714	57110		43%	14%	41%	18%	40%	41%
rejected %	25%	23%	23%	18%	24%	24%	grade 1 events	704	191	526	177	575	601
								0%	0%	0%	0%	0%	0%
							grade 2 events	25045	74629	32180	48453	35466	30591
								11%	29%	13%	17%	13%	13%
							grade 3 events	10829	10716	11406	22080	13445	11746
								5%	4%	4%	8%	5%	4%
							grade 4 events	10702	10263	11506	21627	13128	11484
								4%	3%	4%	7%	4%	4%
							grade 5 events	3294	8956	3448	8956	4502	3751
								1%	3%	1%	3%	1%	1%
							grade 6 events	20577	64310	29884	77615	30496	26824
								9%	25%	12%	28%	11%	11%
							grade 7 events	51421	50005	52401	41846	60332	52477
								23%	19%	21%	15%	22%	22%

## 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	118.0640186619743	Alternating exposures requested	N	N
[deg] Pointing Dec	0	65.98815393648455	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	302.6888580893825			
[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)	234202324.239162	234202323.21417			
Observation start date	2005-06-03T16:12:04	2005-06-03T16:12:03			
[s] Observation end time (MET)	234225794.690233	234225793.66524			
Observation end date	2005-06-03T22:43:15	2005-06-03T22:43:13			
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)	2013.01.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2687435701489

### A.2 Comments