

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60392 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Nov 11 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

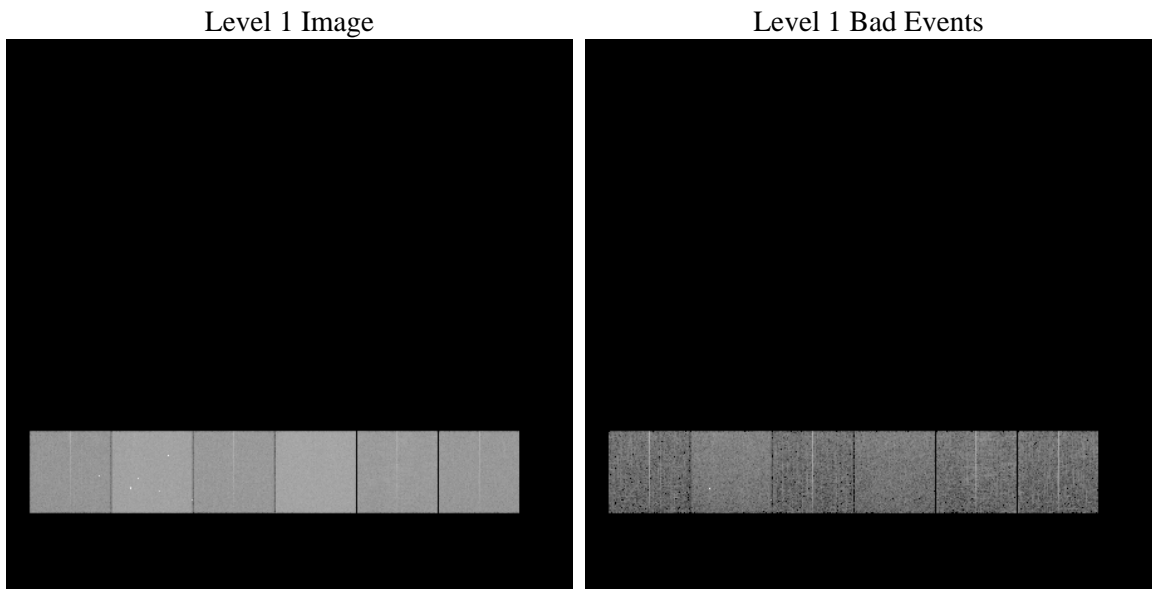
# 1 Front

seq_num	&#160	Sequence number
obs_id	60392	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	118.7294760462	Nominal RA [deg]
dec_nom	-21.291993847891	Nominal Dec [deg]
roll_nom	343.42285822898	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7801.5999709368	Sum of GTIs [s]
livetime	7702.8114145452	Livetime [s]
ontime4	4720.7759746909	Sum of GTIs [s]
ontime5	7801.5999709368	Sum of GTIs [s]
ontime6	5067.5203677118	Sum of GTIs [s]
ontime7	7801.5999709368	Sum of GTIs [s]
ontime8	5221.7867464125	Sum of GTIs [s]
ontime9	5037.050095886	Sum of GTIs [s]
l2events	1132570	Number of level 2 events

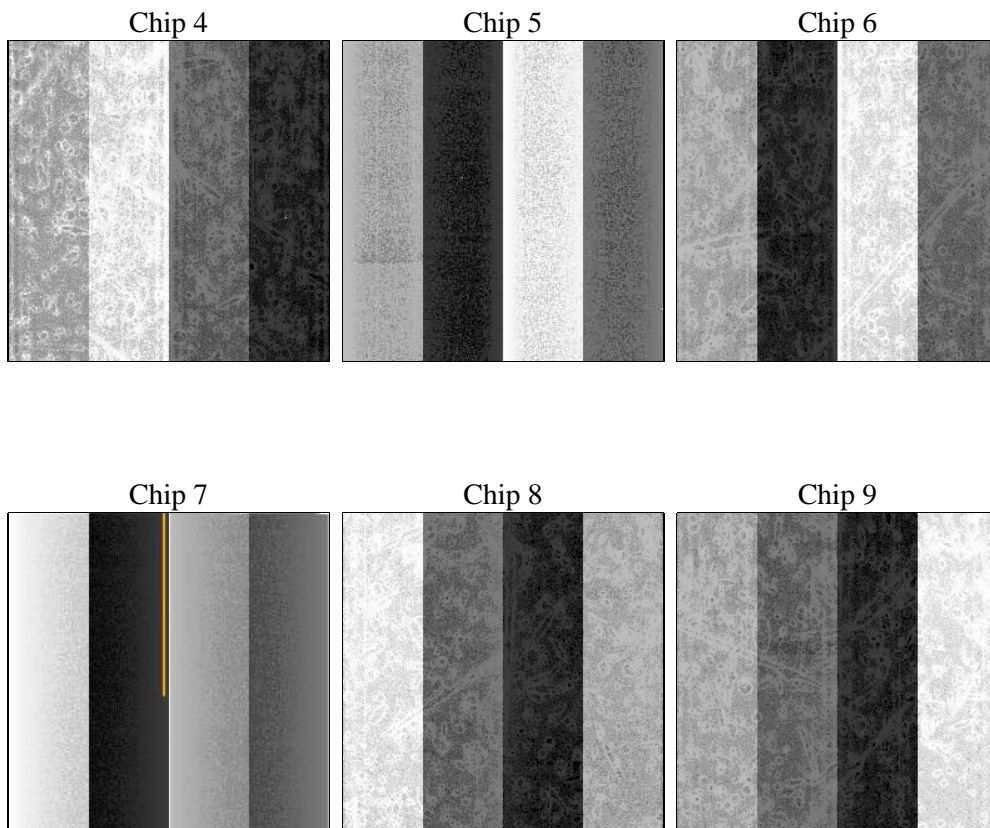
## 2 OBI

### 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	7801.5999709368	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime4	4720.7759746909	Sum of GTIs [s]
date	2012-11-11T05:25:40	Date and time of file creation	ontime5	7801.5999709368	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	5067.5203677118	Sum of GTIs [s]
			ontime7	7801.5999709368	Sum of GTIs [s]
			ontime8	5221.7867464125	Sum of GTIs [s]
			ontime9	5037.050095886	Sum of GTIs [s]
			l1events	1417002	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	183952	293278	207077	313304	220198	199193	grade 0 events	88985	56452	96064	68918	100622	92870
rejected events	31266	48750	31467	38870	36811	31956		48%	19%	46%	21%	45%	46%
rejected %	16%	16%	15%	12%	16%	16%	grade 1 events	607	230	447	174	463	501
								0%	0%	0%	0%	0%	0%
							grade 2 events	24140	88917	30149	60757	32024	28477
								13%	30%	14%	19%	14%	14%
							grade 3 events	10267	14431	10855	27847	11921	10601
								5%	4%	5%	8%	5%	5%
							grade 4 events	10103	14367	10980	27504	11801	10698
								5%	4%	5%	8%	5%	5%
							grade 5 events	2121	8041	2259	7378	2640	2308
								1%	2%	1%	2%	1%	1%
							grade 6 events	19191	70361	27562	89408	27019	24591
								10%	23%	13%	28%	12%	12%
							grade 7 events	28538	40479	28761	31318	33708	29147
								15%	13%	13%	9%	15%	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	118.729476046198	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-21.29199384789088	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	343.4228582289849			
[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)	191670418.838365	191670417.81365			
Observation start date	2004-01-28T09:46:59	2004-01-28T09:46:57			
[s] Observation end time (MET)	191688087.789136	191688086.76442			
Observation end date	2004-01-28T14:41:28	2004-01-28T14:41:26			
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)	2012.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.8015999709368

### A.2 Comments