

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60805 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 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

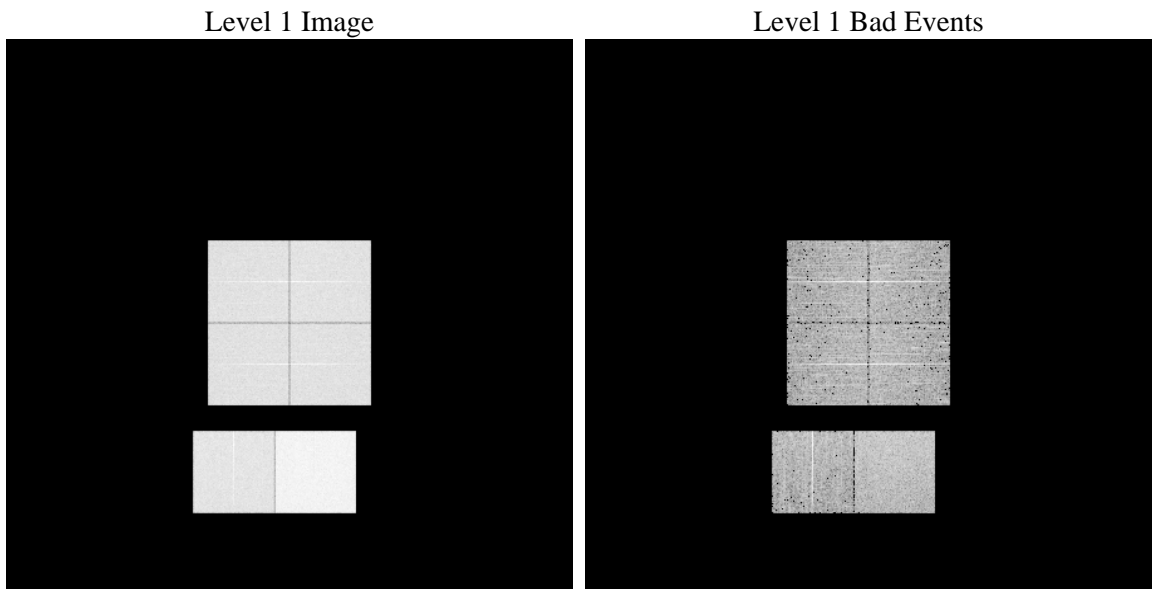
# 1 Front

seq_num	&#160	Sequence number
obs_id	60805	Observation id
title	ACIS-012367 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	160.00731417768	Nominal RA [deg]
dec_nom	6.7723524239098	Nominal Dec [deg]
roll_nom	251.81907485158	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7797.7250986993	Sum of GTIs [s]
livetime	7698.9856082732	Livetime [s]
ontime0	4304.0867674351	Sum of GTIs [s]
ontime1	4440.2084668279	Sum of GTIs [s]
ontime2	4161.482899338	Sum of GTIs [s]
ontime3	4180.8256530464	Sum of GTIs [s]
ontime6	4605.4991469085	Sum of GTIs [s]
ontime7	7797.7250986993	Sum of GTIs [s]
l2events	1181096	Number of level 2 events

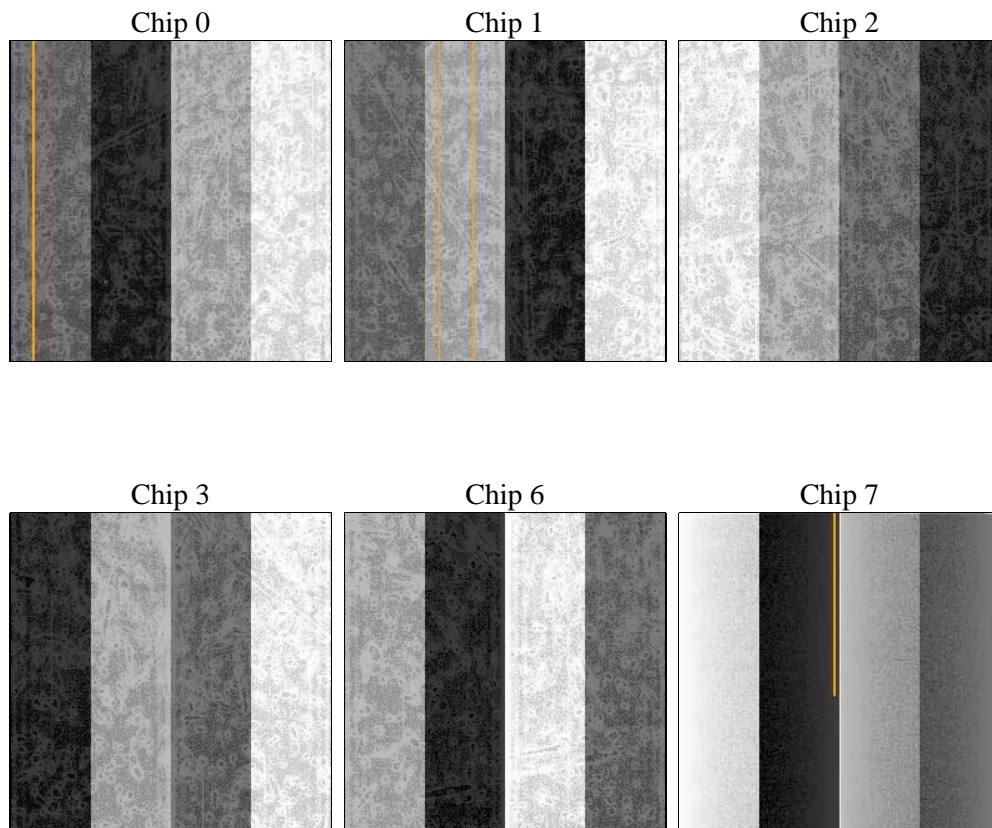
## 2 OBI

### 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	7797.7250986993	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4304.0867674351	Sum of GTIs [s]
date	2012-10-24T23:44:45	Date and time of file creation	ontime1	4440.2084668279	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4161.482899338	Sum of GTIs [s]
			ontime3	4180.8256530464	Sum of GTIs [s]
			ontime6	4605.4991469085	Sum of GTIs [s]
			ontime7	7797.7250986993	Sum of GTIs [s]
			l1events	1425198	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	204173	211511	201467	203094	227959	376994	grade 0 events	97010	100623	96786	97198	108478	83352
rejected events	28750	29164	29807	30270	30682	41361		47%	47%	48%	47%	47%	22%
rejected %	14%	13%	14%	14%	13%	10%	grade 1 events	572	475	565	520	481	218
								0%	0%	0%	0%	0%	0%
							grade 2 events	30526	31991	28661	29536	33881	73796
								14%	15%	14%	14%	14%	19%
							grade 3 events	11304	11590	11195	11328	12026	33718
								5%	5%	5%	5%	5%	8%
							grade 4 events	11205	11620	11180	11225	12343	33569
								5%	5%	5%	5%	5%	8%
							grade 5 events	1984	2015	1848	2046	2182	7972
								0%	0%	0%	1%	0%	2%
							grade 6 events	25378	26523	23838	23537	30549	111198
								12%	12%	11%	11%	13%	29%
							grade 7 events	26194	26674	27394	27704	28019	33171
								12%	12%	13%	13%	12%	8%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	160.0073141776842	Alternating exposures requested	N	N
[deg] Pointing Dec	0	6.772352423909782	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	251.8190748515827			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-233.592463	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	164710810.283527	164710809.25879			
Observation start date	2003-03-22T09:00:10	2003-03-22T09:00:09			
[s] Observation end time (MET)	164746918.985051	164746917.96031			
Observation end date	2003-03-22T19:01:59	2003-03-22T19:01:57			
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)	2012.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.7977250986993

### A.2 Comments