

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 53578 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jul 10 2013

## 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

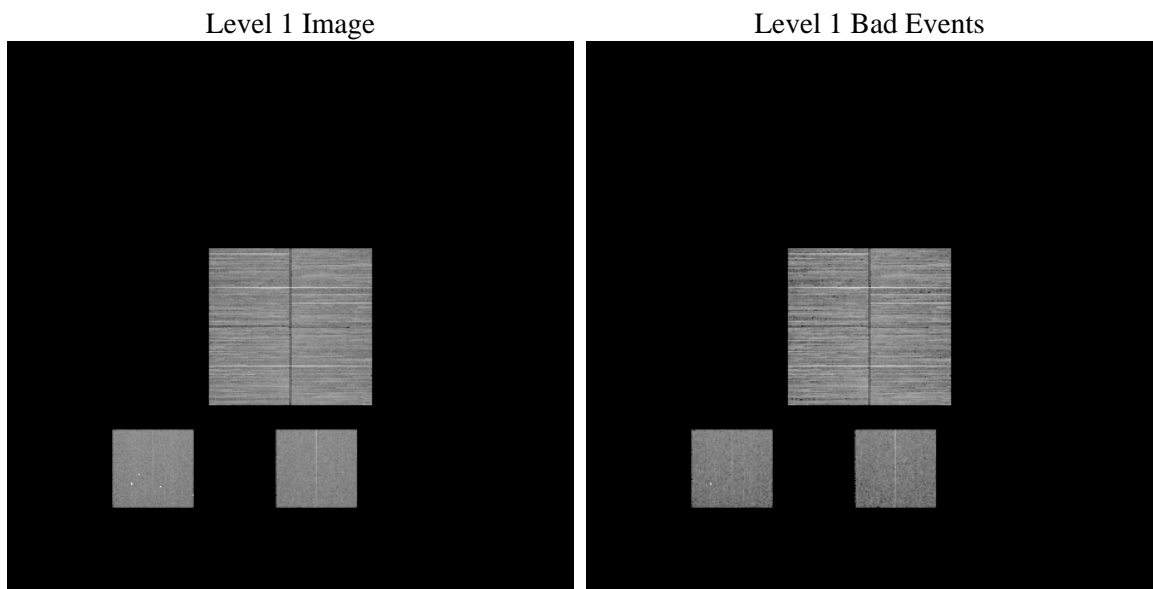
# 1 Front

seq_num	&#160	Sequence number
obs_id	53578	Observation id
title	ACIS-012357 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	244.18700677967	Nominal RA [deg]
dec_nom	4.0763414383775	Nominal Dec [deg]
roll_nom	237.42785339895	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8248.1594765782	Sum of GTIs [s]
livetime	8143.7163148404	Livetime [s]
ontime0	8248.1184365749	Sum of GTIs [s]
ontime1	8248.0773965716	Sum of GTIs [s]
ontime2	8248.0363565683	Sum of GTIs [s]
ontime3	8244.9595162272	Sum of GTIs [s]
ontime5	8247.995316565	Sum of GTIs [s]
ontime7	8248.1594765782	Sum of GTIs [s]
l2events	224049	Number of level 2 events

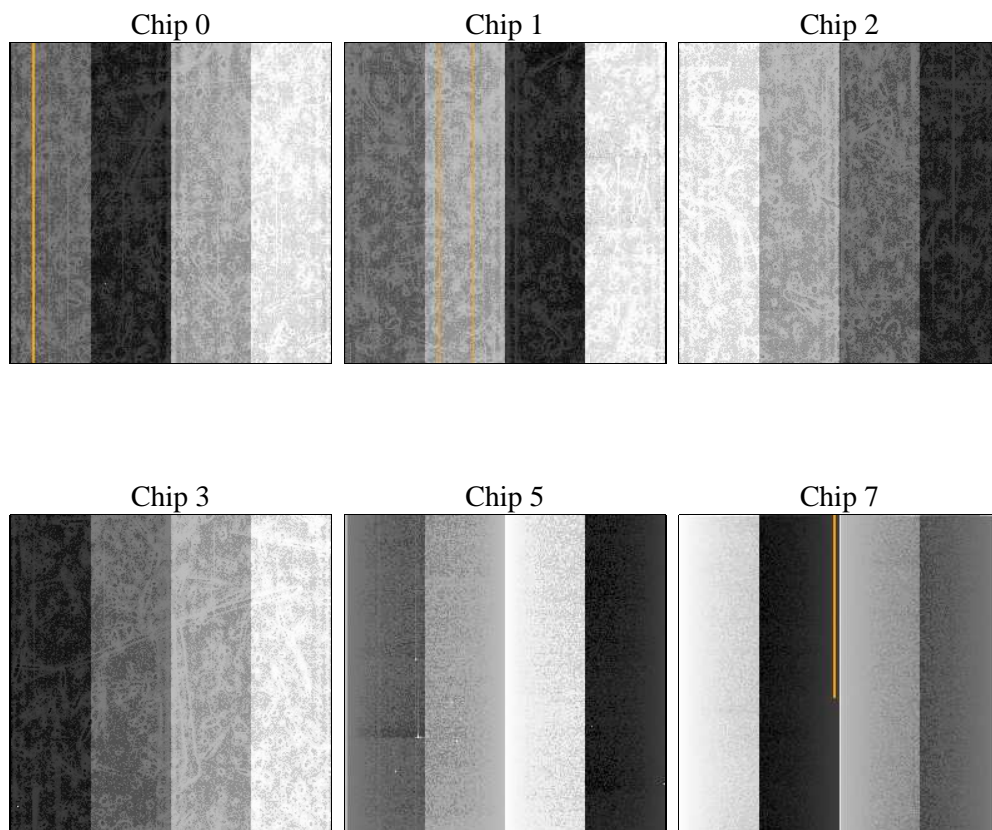
## 2 OBI

### 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	10	Processing system revision	ontime	8248.1594765782	Sum of GTIs [s]
caldsver	4.5.7	&#160	ontime0	8248.1184365749	Sum of GTIs [s]
date	2013-07-11T00:56:39	Date and time of file creation	ontime1	8248.0773965716	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8248.0363565683	Sum of GTIs [s]
			ontime3	8244.9595162272	Sum of GTIs [s]
			ontime5	8247.995316565	Sum of GTIs [s]
			ontime7	8248.1594765782	Sum of GTIs [s]
			l1events	858559	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	144917	154905	157663	154242	128107	118725	grade 0 events	15521	14217	15987	16177	7437	7529
rejected events	113497	123871	126533	122748	68840	64314		10%	9%	10%	10%	5%	6%
rejected %	78%	79%	80%	79%	53%	54%	grade 1 events	81	59	91	86	146	77
								0%	0%	0%	0%	0%	0%
							grade 2 events	6917	8045	6493	6586	22036	13678
								4%	5%	4%	4%	17%	11%
							grade 3 events	2090	1847	1989	2104	1650	4138
								1%	1%	1%	1%	1%	3%
							grade 4 events	1982	1862	2035	2087	1716	4129
								1%	1%	1%	1%	1%	3%
							grade 5 events	2433	2483	2488	2946	5073	6524
								1%	1%	1%	1%	3%	5%
							grade 6 events	5076	5240	4802	4682	26734	25200
								3%	3%	3%	3%	20%	21%
							grade 7 events	110817	121152	123778	119574	63315	57450
								76%	78%	78%	77%	49%	48%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	244.1870067796744
[deg] Pointing Dec	0	4.076341438377452
[deg] Pointing Roll	0.0	237.427853398955
SIM focus pos (mm)	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	489841893.86956	489841893.86956
Observation start date	2013-07-10T11:11:34	2013-07-10T11:11:33
[s] Observation end time (MET)	489851441.751988	489851441.751988
Observation end date	2013-07-10T13:50:42	2013-07-10T13:50:41
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.07.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2481594765782

### A.2 Comments