

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 53549 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jul 18 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

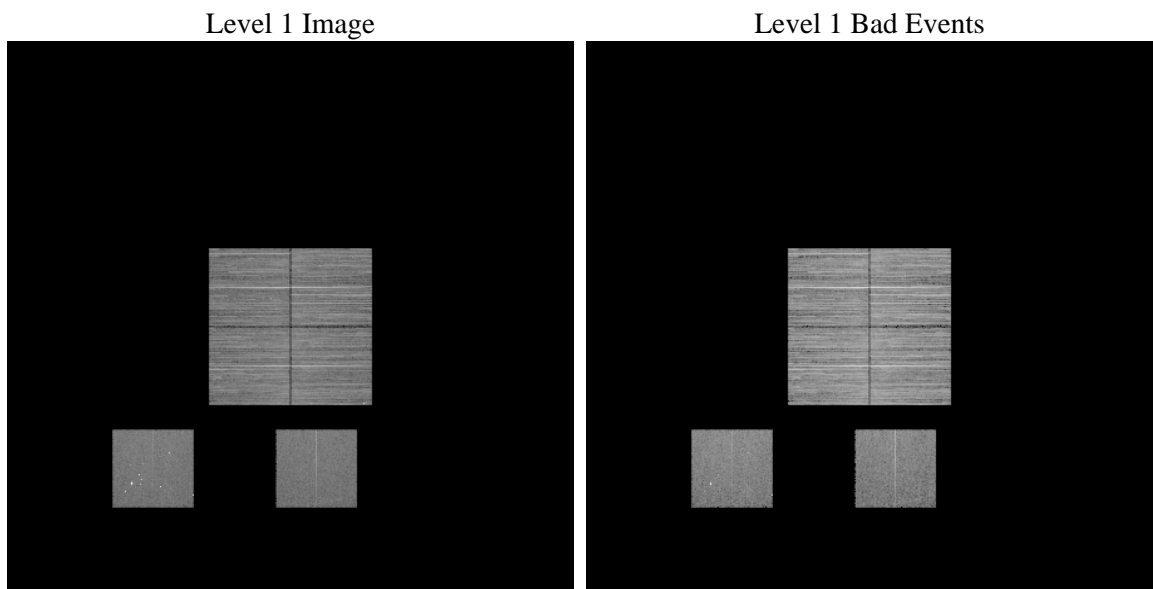
# 1 Front

seq_num	&#160	Sequence number
obs_id	53549	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	291.76914234009	Nominal RA [deg]
dec_nom	-38.250204946246	Nominal Dec [deg]
roll_nom	268.92102952672	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8038.3999701142	Sum of GTIs [s]
livetime	7936.6129095493	Livetime [s]
ontime0	8038.3999701142	Sum of GTIs [s]
ontime1	8038.3999701142	Sum of GTIs [s]
ontime2	8038.3999701142	Sum of GTIs [s]
ontime3	8038.3999701142	Sum of GTIs [s]
ontime5	8038.3999701142	Sum of GTIs [s]
ontime7	8038.3999701142	Sum of GTIs [s]
l2events	212669	Number of level 2 events

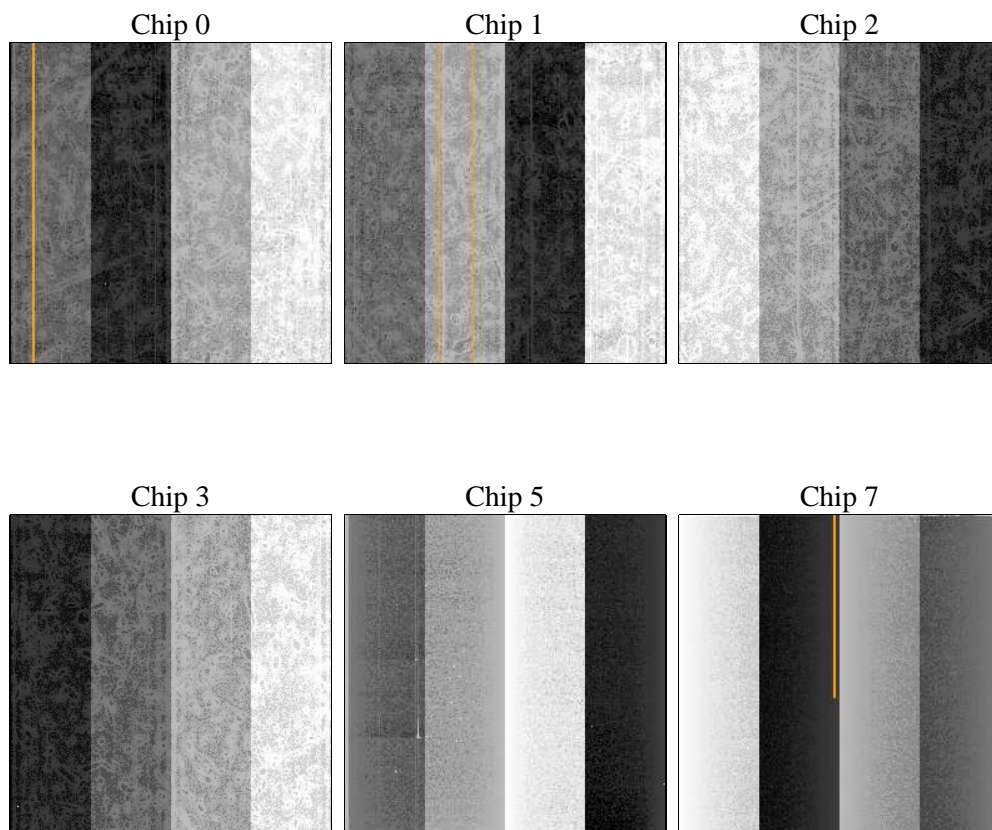
## 2 OBI

### 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	8038.3999701142	Sum of GTIs [s]
caldsver	4.5.7	&#160	ontime0	8038.3999701142	Sum of GTIs [s]
date	2013-07-19T02:58:04	Date and time of file creation	ontime1	8038.3999701142	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8038.3999701142	Sum of GTIs [s]
			ontime3	8038.3999701142	Sum of GTIs [s]
			ontime5	8038.3999701142	Sum of GTIs [s]
			ontime7	8038.3999701142	Sum of GTIs [s]
			l1events	914772	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	153779	167607	166339	165188	140326	121533	grade 0 events	11995	10004	13153	14312	13161	7200
rejected events	124678	138649	137272	134809	74794	68487		7%	5%	7%	8%	9%	5%
rejected %	81%	82%	82%	81%	53%	56%	grade 1 events	61	43	52	64	323	71
								0%	0%	0%	0%	0%	0%
							grade 2 events	9600	11316	8441	8680	21155	13100
								6%	6%	5%	5%	15%	10%
							grade 3 events	1487	1290	1745	1730	2538	4359
								0%	0%	1%	1%	1%	3%
							grade 4 events	1498	1367	1714	1681	1940	4009
								0%	0%	1%	1%	1%	3%
							grade 5 events	2126	2076	2190	2576	5480	6397
								1%	1%	1%	1%	3%	5%
							grade 6 events	5509	5869	4993	5020	28774	26115
								3%	3%	3%	3%	20%	21%
							grade 7 events	121503	135642	134051	131125	66955	60282
								79%	80%	80%	79%	47%	49%

## 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	291.7691423400869
[deg] Pointing Dec	0	-38.25020494624636
[deg] Pointing Roll	0.0	268.921029526721
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)	490527659.906921	490527659.906921
Observation start date	2013-07-18T09:41:00	2013-07-18T09:40:59
[s] Observation end time (MET)	490536548.953436	490536548.953436
Observation end date	2013-07-18T12:09:09	2013-07-18T12:09:08
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	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.07.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0383999701142

### A.2 Comments