

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 56458 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jun 21 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

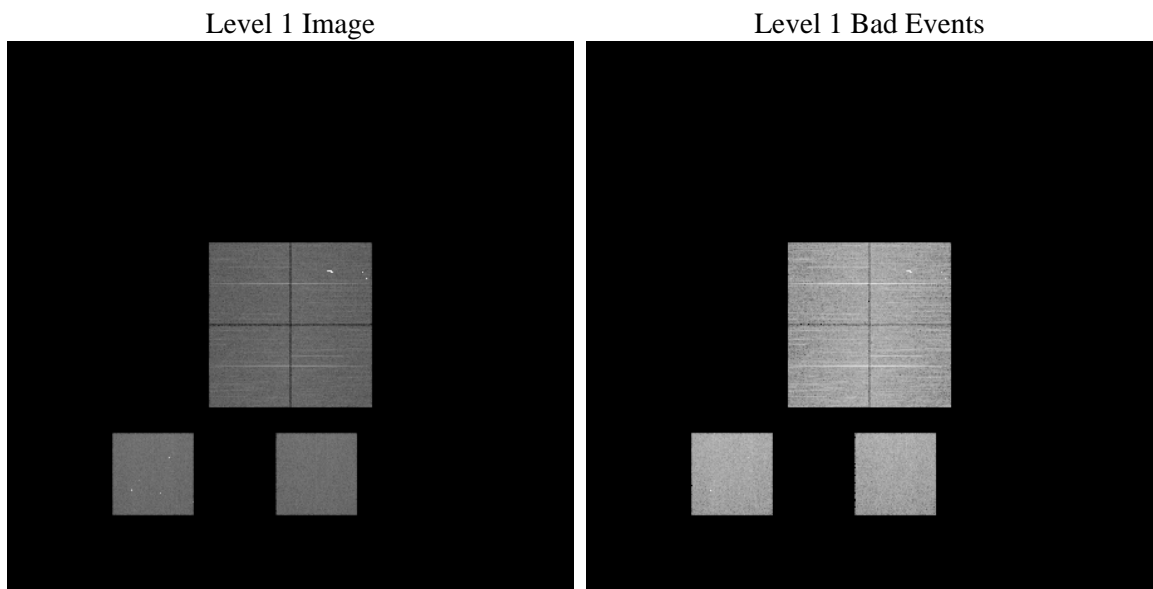
# 1 Front

seq_num	&#160	Sequence number
obs_id	56458	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	139.55771757386	Nominal RA [deg]
dec_nom	11.423558105263	Nominal Dec [deg]
roll_nom	208.03468236847	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8000.4778330922	Sum of GTIs [s]
livetime	7899.1709654602	Livetime [s]
ontime0	7883.7589033246	Sum of GTIs [s]
ontime1	7883.7178640962	Sum of GTIs [s]
ontime2	7880.4357626438	Sum of GTIs [s]
ontime3	7880.5999233723	Sum of GTIs [s]
ontime5	8010.0367930532	Sum of GTIs [s]
ontime7	8000.4778330922	Sum of GTIs [s]
l2events	436884	Number of level 2 events

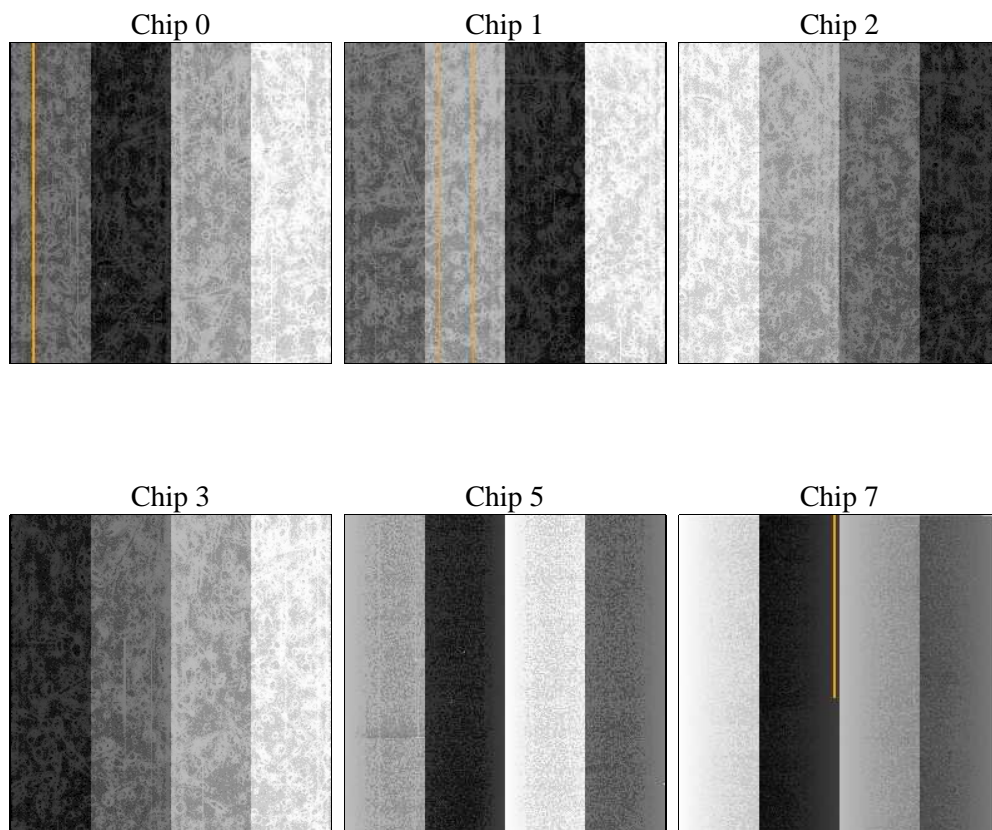
## 2 OBI

### 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	8000.4778330922	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	7883.7589033246	Sum of GTIs [s]
date	2012-06-21T06:16:44	Date and time of file creation	ontime1	7883.7178640962	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	7880.4357626438	Sum of GTIs [s]
			ontime3	7880.5999233723	Sum of GTIs [s]
			ontime5	8010.0367930532	Sum of GTIs [s]
			ontime7	8000.4778330922	Sum of GTIs [s]
			l1events	939579	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	130917	178336	137740	140865	179109	172612	grade 0 events	34651	57174	35216	36016	15916	18477
rejected events	67121	73935	74024	76015	74264	71537		26%	32%	25%	25%	8%	10%
rejected %	51%	41%	53%	53%	41%	41%	grade 1 events	257	324	306	271	574	150
								0%	0%	0%	0%	0%	0%
							grade 2 events	11902	30087	11332	11439	37648	22445
								9%	16%	8%	8%	21%	13%
							grade 3 events	4497	4351	4613	4566	4367	9391
								3%	2%	3%	3%	2%	5%
							grade 4 events	4240	4262	4455	4509	4329	9335
								3%	2%	3%	3%	2%	5%
							grade 5 events	4024	4139	3935	4385	9130	10967
								3%	2%	2%	3%	5%	6%
							grade 6 events	9846	10638	9412	9571	44790	43524
								7%	5%	6%	6%	25%	25%
							grade 7 events	61500	67361	68471	70108	62355	58323
								46%	37%	49%	49%	34%	33%

## 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	139.5577175738638
[deg] Pointing Dec	0	11.42355810526283
[deg] Pointing Roll	0.0	208.0346823684693
[mm] SIM focus pos	-0.68282252473119	-0.68282252473119
[mm] SIM defocus	0.8505140384245534	0.8505140384245534
[mm] SIM translation stage pos	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	382218214.127724	382218214.127724
Observation start date	2010-02-10T19:43:34	2010-02-10T19:43:34
[s] Observation end time (MET)	382227761.777478	382227761.777478
Observation end date	2010-02-10T22:22:42	2010-02-10T22:22:41
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)	2012.06.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0004778330922

## A.2 Comments

Loss of events due to switch to format 4 during the observation.