

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 54443 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Aug 17 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

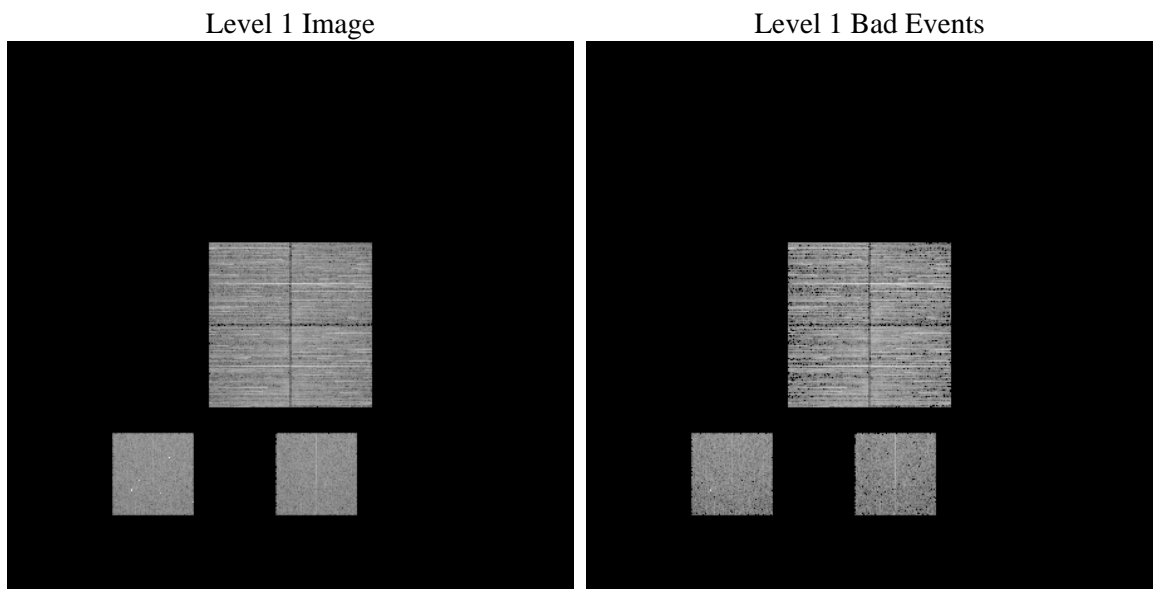
# 1 Front

seq_num	&#160	Sequence number
obs_id	54443	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	312.1177586021	Nominal RA [deg]
dec_nom	-42.670696604255	Nominal Dec [deg]
roll_nom	7.7105179878466	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3291.3620494008	Sum of GTIs [s]
livetime	3249.684841311	Livetime [s]
ontime0	3291.3210093975	Sum of GTIs [s]
ontime1	3291.2799693942	Sum of GTIs [s]
ontime2	3291.2389293909	Sum of GTIs [s]
ontime3	3291.4030894041	Sum of GTIs [s]
ontime5	3291.1978893876	Sum of GTIs [s]
ontime7	3291.3620494008	Sum of GTIs [s]
l2events	108458	Number of level 2 events

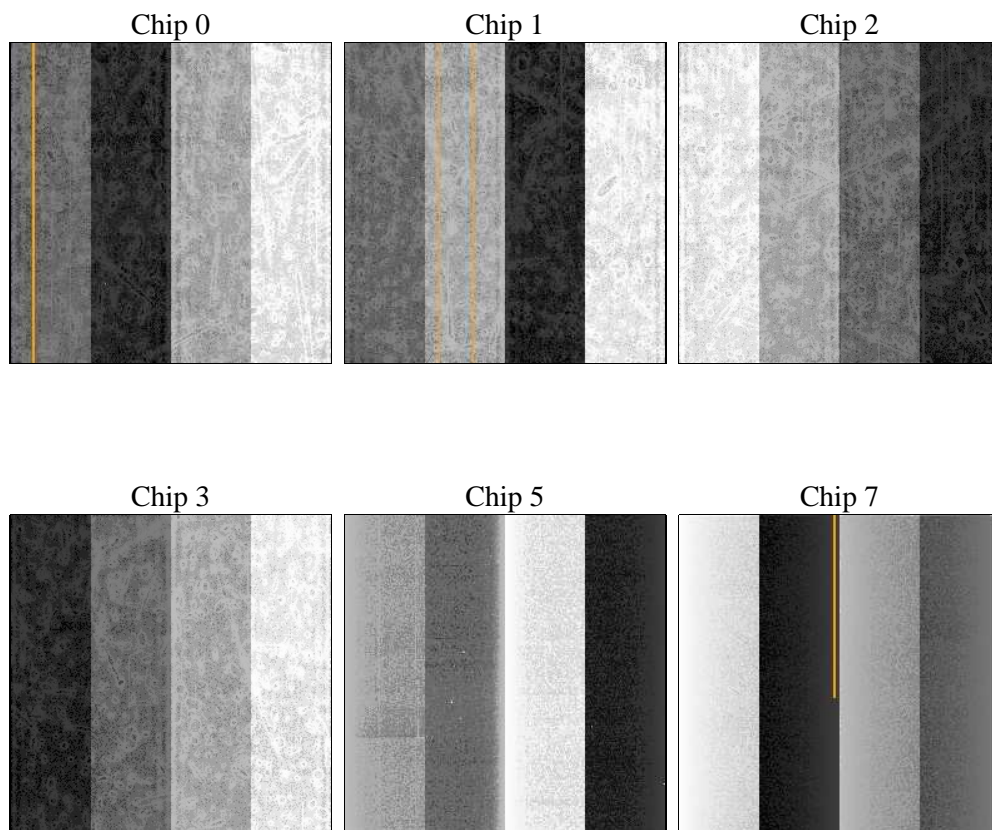
## 2 OBI

### 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	3291.3620494008	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime0	3291.3210093975	Sum of GTIs [s]
date	2012-08-17T16:07:21	Date and time of file creation	ontime1	3291.2799693942	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	3291.2389293909	Sum of GTIs [s]
			ontime3	3291.4030894041	Sum of GTIs [s]
			ontime5	3291.1978893876	Sum of GTIs [s]
			ontime7	3291.3620494008	Sum of GTIs [s]
			l1events	363482	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	60844	62175	62756	67869	57109	52729	grade 0 events	7889	7801	8247	8226	4099	4082
rejected events	45569	46724	47261	52330	29322	26701		12%	12%	13%	12%	7%	7%
rejected %	74%	75%	75%	77%	51%	50%	grade 1 events	37	29	58	45	64	42
								0%	0%	0%	0%	0%	0%
							grade 2 events	2991	3091	2912	2928	10139	6310
								4%	4%	4%	4%	17%	11%
							grade 3 events	1053	1096	1114	1062	1061	2181
								1%	1%	1%	1%	1%	4%
							grade 4 events	1017	1015	1038	1038	992	2189
								1%	1%	1%	1%	1%	4%
							grade 5 events	1133	1218	1156	1266	2735	3040
								1%	1%	1%	1%	4%	5%
							grade 6 events	2325	2448	2202	2285	11514	11266
								3%	3%	3%	3%	20%	21%
							grade 7 events	44399	45477	46029	51019	26505	23619
								72%	73%	73%	75%	46%	44%

## 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	312.1177586020954
[deg] Pointing Dec	0	-42.67069660425505
[deg] Pointing Roll	0.0	7.71051798784656
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	459936162.20698	459936161.18198
Observation start date	2012-07-29T08:02:42	2012-07-29T08:02:41
[s] Observation end time (MET)	459942238.407305	459942237.3823
Observation end date	2012-07-29T09:43:58	2012-07-29T09:43:57
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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)	2012.08.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2913620494008

### A.2 Comments