

# V&V Reference Report

## L2 ASCDS Version : 10.2.2

Observation 52745 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 29 2014

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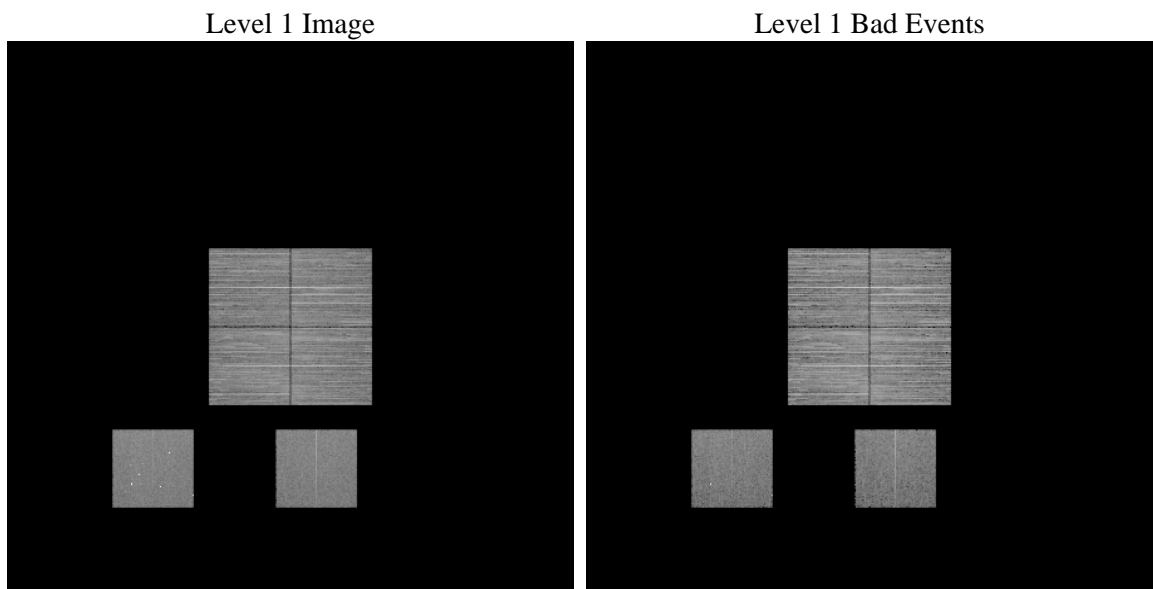
# 1 Front

seq_num	&#160	Sequence number
obs_id	52745	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	219.76508724495	Nominal RA [deg]
dec_nom	-29.540268336283	Nominal Dec [deg]
roll_nom	282.94182257363	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8149.0954055786	Sum of GTIs [s]
livetime	8045.906652757	Livetime [s]
ontime0	8149.0543655753	Sum of GTIs [s]
ontime1	8149.013325572	Sum of GTIs [s]
ontime2	8148.9722855687	Sum of GTIs [s]
ontime3	8149.1364455819	Sum of GTIs [s]
ontime5	8148.9312455654	Sum of GTIs [s]
ontime7	8149.0954055786	Sum of GTIs [s]
l2events	193437	Number of level 2 events

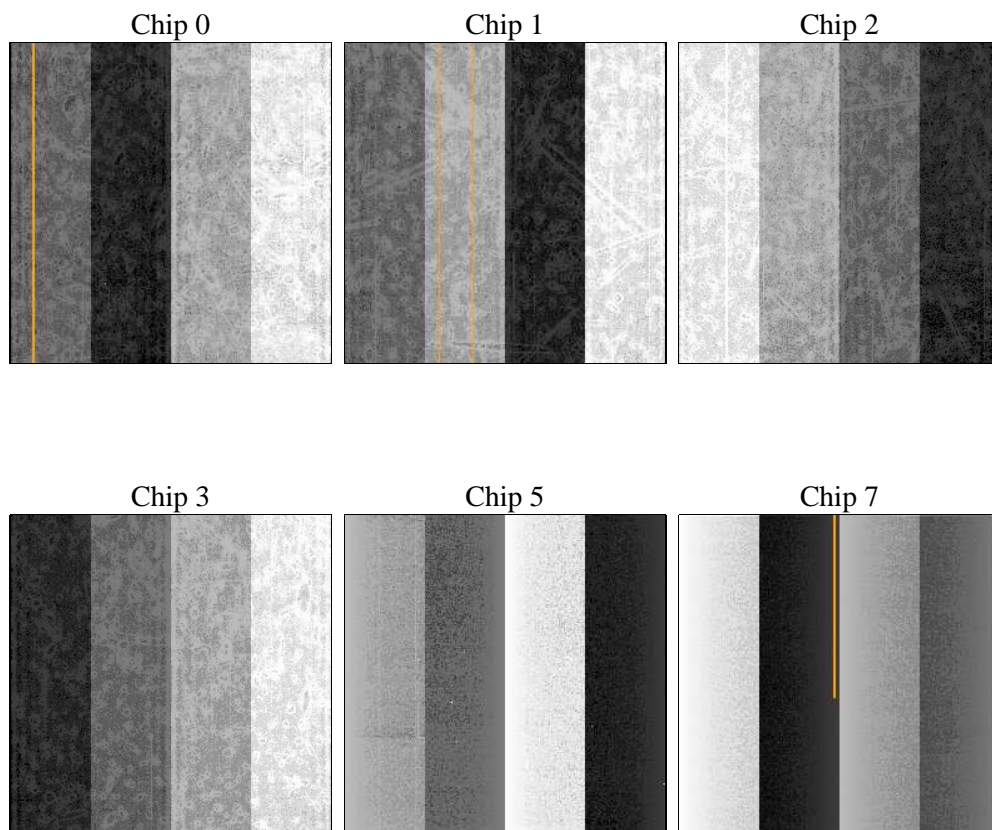
## 2 OBI

### 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	10.2.2	Processing system revision	ontime	8149.0954055786	Sum of GTIs [s]
caldsver	4.6.1	&#160	ontime0	8149.0543655753	Sum of GTIs [s]
date	2014-05-29T20:11:55	Date and time of file creation	ontime1	8149.013325572	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8148.9722855687	Sum of GTIs [s]
			ontime3	8149.1364455819	Sum of GTIs [s]
			ontime5	8148.9312455654	Sum of GTIs [s]
			ontime7	8149.0954055786	Sum of GTIs [s]
			l1events	822125	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	134897	144938	153286	142657	130780	115567	grade 0 events	12583	12262	13460	13416	12077	6516
rejected events	109708	119184	127529	116905	70221	66220		9%	8%	8%	9%	9%	5%
rejected %	81%	82%	83%	81%	53%	57%	grade 1 events	73	56	59	64	325	79
								0%	0%	0%	0%	0%	0%
							grade 2 events	5341	6125	5183	5068	20476	12527
								3%	4%	3%	3%	15%	10%
							grade 3 events	1725	1676	1832	1840	1804	3794
								1%	1%	1%	1%	1%	3%
							grade 4 events	1679	1660	1763	1789	1643	3883
								1%	1%	1%	1%	1%	3%
							grade 5 events	2656	2681	2581	2967	5549	6792
								1%	1%	1%	2%	4%	5%
							grade 6 events	4303	4513	3974	4130	25664	23460
								3%	3%	2%	2%	19%	20%
							grade 7 events	106537	115965	124434	113383	63242	58516
								78%	80%	81%	79%	48%	50%

## 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	219.7650872449458
[deg] Pointing Dec	0	-29.54026833628293
[deg] Pointing Roll	0.0	282.941822573632
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)	517717393.599036	517717393.599036
Observation start date	2014-05-29T02:23:14	2014-05-29T02:23:13
[s] Observation end time (MET)	517726941.445333	517726941.445333
Observation end date	2014-05-29T05:02:21	2014-05-29T05:02:21
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	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.05.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1490954055786

### A.2 Comments