

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 54335 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Sep 12 2012

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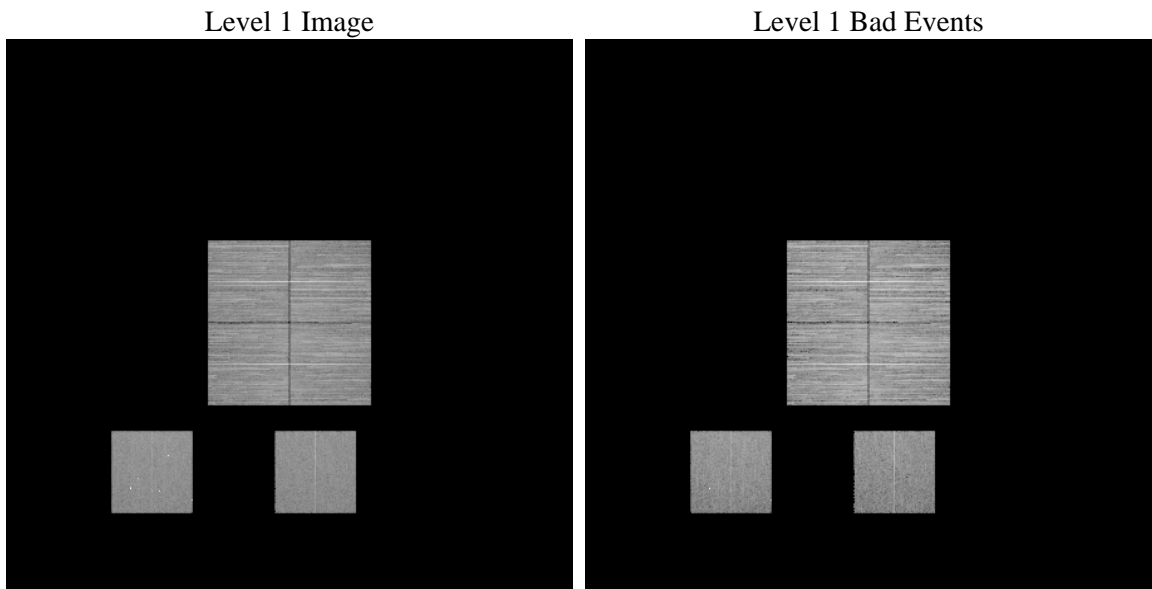
# 1 Front

seq_num	&#160	Sequence number
obs_id	54335	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	18.994178386999	Nominal RA [deg]
dec_nom	-17.4717676484	Nominal Dec [deg]
roll_nom	68.060798457373	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8287.0164475441	Sum of GTIs [s]
livetime	8182.0812554431	Livetime [s]
ontime0	8286.9754075408	Sum of GTIs [s]
ontime1	8286.9343675375	Sum of GTIs [s]
ontime2	8286.8933275342	Sum of GTIs [s]
ontime3	8287.0574875474	Sum of GTIs [s]
ontime5	8286.8522875309	Sum of GTIs [s]
ontime7	8287.0164475441	Sum of GTIs [s]
l2events	280643	Number of level 2 events

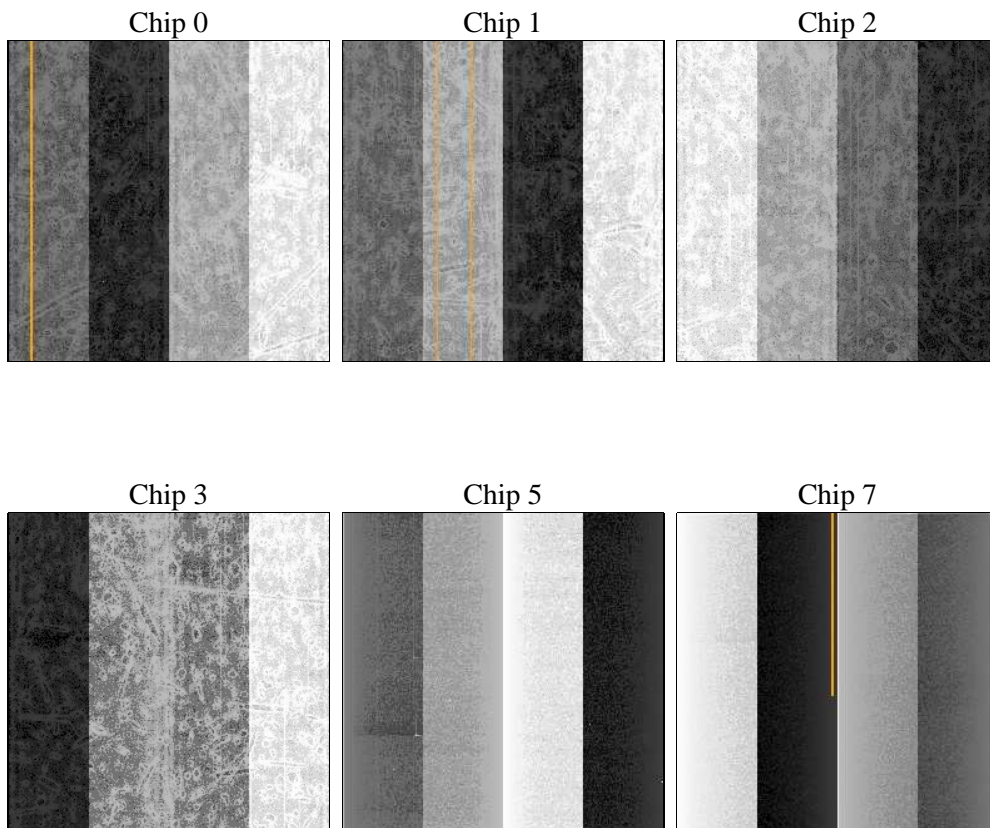
## 2 OBI

### 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	8287.0164475441	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime0	8286.9754075408	Sum of GTIs [s]
date	2012-09-12T17:26:06	Date and time of file creation	ontime1	8286.9343675375	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8286.8933275342	Sum of GTIs [s]
			ontime3	8287.0574875474	Sum of GTIs [s]
			ontime5	8286.8522875309	Sum of GTIs [s]
			ontime7	8287.0164475441	Sum of GTIs [s]
			l1events	973744	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	171623	172617	172774	171268	148318	137144	grade 0 events	20348	19696	20823	20803	9693	10597
rejected events	132054	132926	133043	131426	76175	69977		11%	11%	12%	12%	6%	7%
rejected %	76%	77%	77%	76%	51%	51%	grade 1 events	142	99	118	142	227	89
								0%	0%	0%	0%	0%	0%
							grade 2 events	7631	8276	7412	7405	26968	16231
								4%	4%	4%	4%	18%	11%
							grade 3 events	2657	2625	2744	2823	2680	5786
								1%	1%	1%	1%	1%	4%
							grade 4 events	2663	2509	2692	2712	2618	5513
								1%	1%	1%	1%	1%	4%
							grade 5 events	3114	3219	2903	3313	7019	8035
								1%	1%	1%	1%	4%	5%
							grade 6 events	6270	6585	6060	6099	30184	29040
								3%	3%	3%	3%	20%	21%
							grade 7 events	128798	129608	130022	127971	68929	61853
								75%	75%	75%	74%	46%	45%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	18.99417838699917	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-17.47176764839994	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	68.06079845737308	[s] Primary exposure time	3.2	3.2
[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)	463791453.913199	463791452.8882			
Observation start date	2012-09-11T22:57:34	2012-09-11T22:57:32			
[s] Observation end time (MET)	463805990.463978	463805989.43898			
Observation end date	2012-09-12T02:59:50	2012-09-12T02:59:49			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2870164475441

### A.2 Comments