

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 52016 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 16 2015

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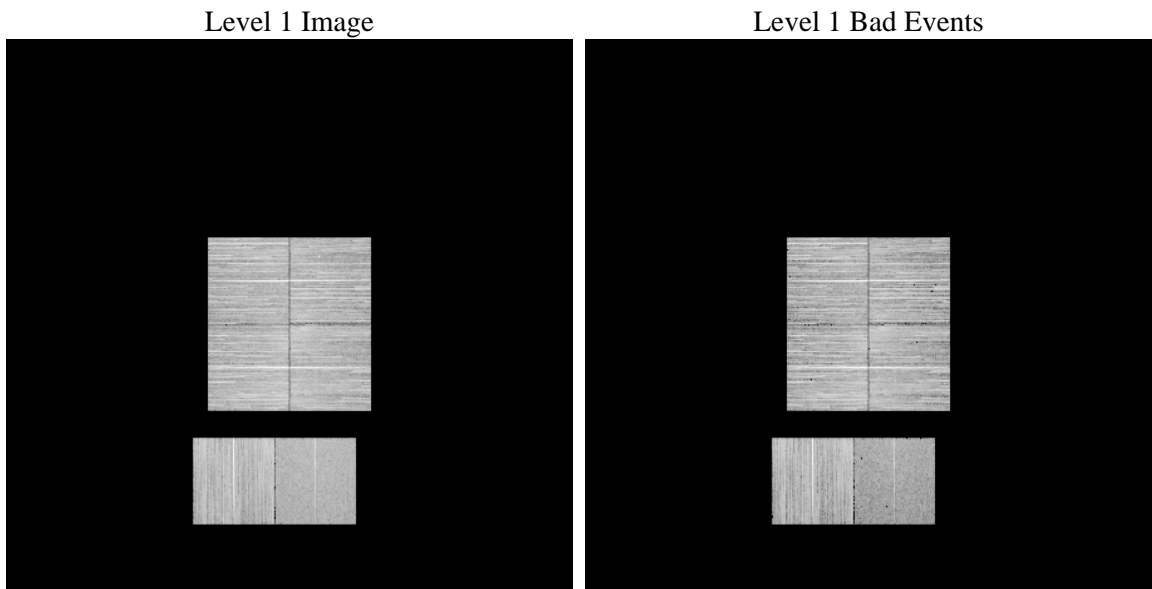
# 1 Front

seq_num	&#160	Sequence number
obs_id	52016	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycle	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	199.98601725695	Nominal RA [deg]
dec_nom	1.0249265132698	Nominal Dec [deg]
roll_nom	87.339294219262	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8284.8001234531	Sum of GTIs [s]
livetime	8179.8929957823	Livetime [s]
ontime0	8284.8001234531	Sum of GTIs [s]
ontime1	8284.8001234531	Sum of GTIs [s]
ontime2	8284.8001234531	Sum of GTIs [s]
ontime3	8284.8001234531	Sum of GTIs [s]
ontime6	8284.8001234531	Sum of GTIs [s]
ontime7	8284.8001234531	Sum of GTIs [s]
l2events	148949	Number of level 2 events

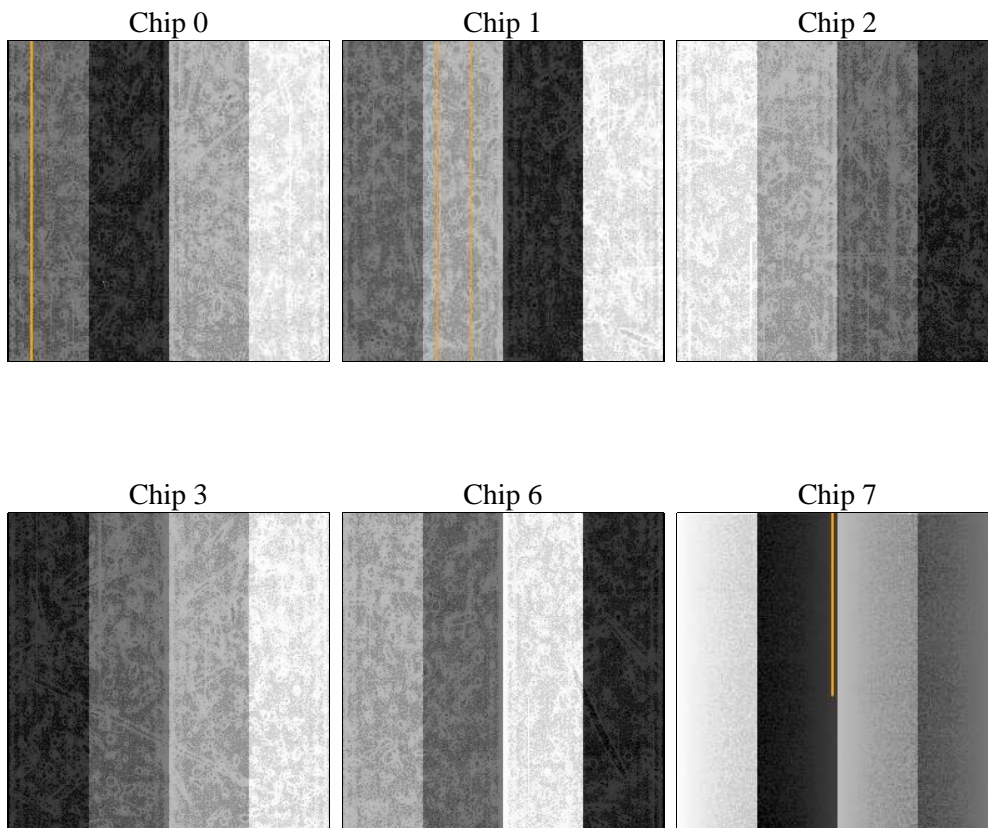
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	8284.8001234531	Sum of GTIs [s]
caldbver	4.6.7	&#160	ontime0	8284.8001234531	Sum of GTIs [s]
date	2015-03-16T20:49:37	Date and time of file creation	ontime1	8284.8001234531	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8284.8001234531	Sum of GTIs [s]
			ontime3	8284.8001234531	Sum of GTIs [s]
			ontime6	8284.8001234531	Sum of GTIs [s]
			ontime7	8284.8001234531	Sum of GTIs [s]
			l1events	826831	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	142708	136378	153151	139648	144560	110386	grade 0 events	10792	10423	11263	11295	10373	5692
rejected events	120486	113844	130793	117005	121801	64576		7%	7%	7%	8%	7%	5%
rejected %	84%	83%	85%	83%	84%	58%	grade 1 events	50	50	66	60	54	77
								0%	0%	0%	0%	0%	0%
							grade 2 events	4767	5305	4549	4557	5128	11513
								3%	3%	2%	3%	3%	10%
							grade 3 events	1574	1485	1515	1622	1448	3365
								1%	1%	0%	1%	1%	3%
							grade 4 events	1452	1483	1483	1583	1521	3342
								1%	1%	0%	1%	1%	3%
							grade 5 events	2629	2612	2523	3029	2806	6651
								1%	1%	1%	2%	1%	6%
							grade 6 events	3648	3847	3555	3593	4299	21916
								2%	2%	2%	2%	2%	19%
							grade 7 events	117796	111173	128197	113909	118931	57830
								82%	81%	83%	81%	82%	52%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	199.9860172569459	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	1.024926513269794	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	87.33929421926202	[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)	542852947.246776	542852946.2217799			
Observation start date	2015-03-16T00:29:07	2015-03-16T00:29:06			
[s] Observation end time (MET)	542873203.297909	542873202.27291			
Observation end date	2015-03-16T06:06:43	2015-03-16T06:06:42			
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)	2015.03.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2848001234531

## A.2 Comments