

# V&V Reference Report

## L2 ASCDS Version : 10.3.1

Observation 52248 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Dec 16 2014

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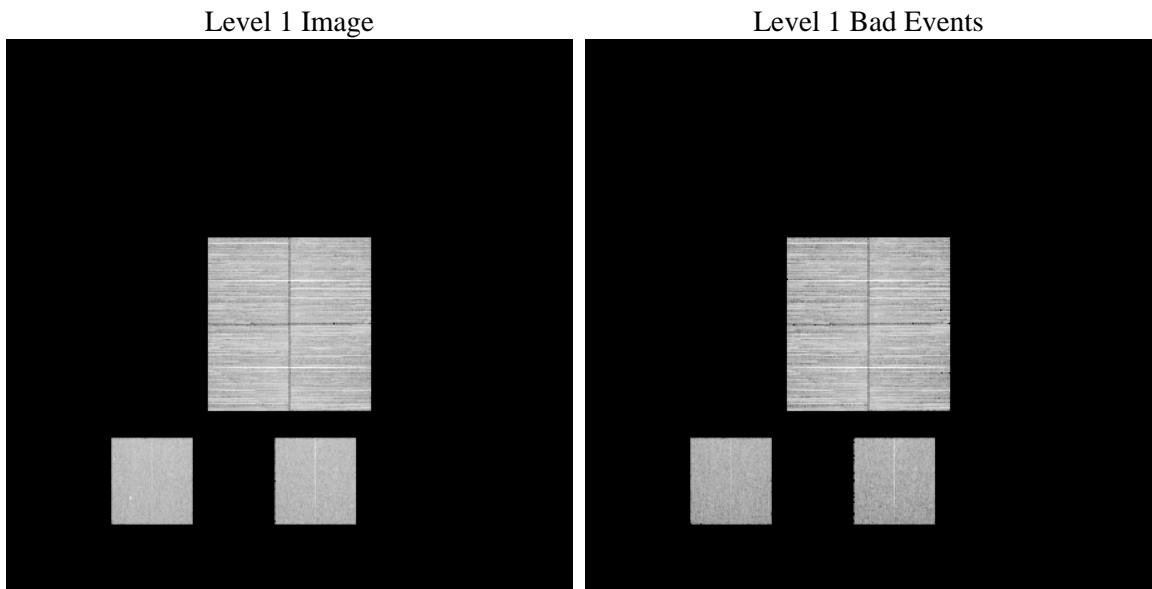
# 1 Front

seq_num	&#160	Sequence number
obs_id	52248	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	116.29671649018	Nominal RA [deg]
dec_nom	20.21252266197	Nominal Dec [deg]
roll_nom	82.245694037377	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8044.7999700904	Sum of GTIs [s]
livetime	7942.9318688721	Livetime [s]
ontime0	8041.558939755	Sum of GTIs [s]
ontime1	8044.7999700904	Sum of GTIs [s]
ontime2	8041.5589398742	Sum of GTIs [s]
ontime3	8044.7999700904	Sum of GTIs [s]
ontime5	8044.7999700904	Sum of GTIs [s]
ontime7	8044.7999700904	Sum of GTIs [s]
l2events	187264	Number of level 2 events

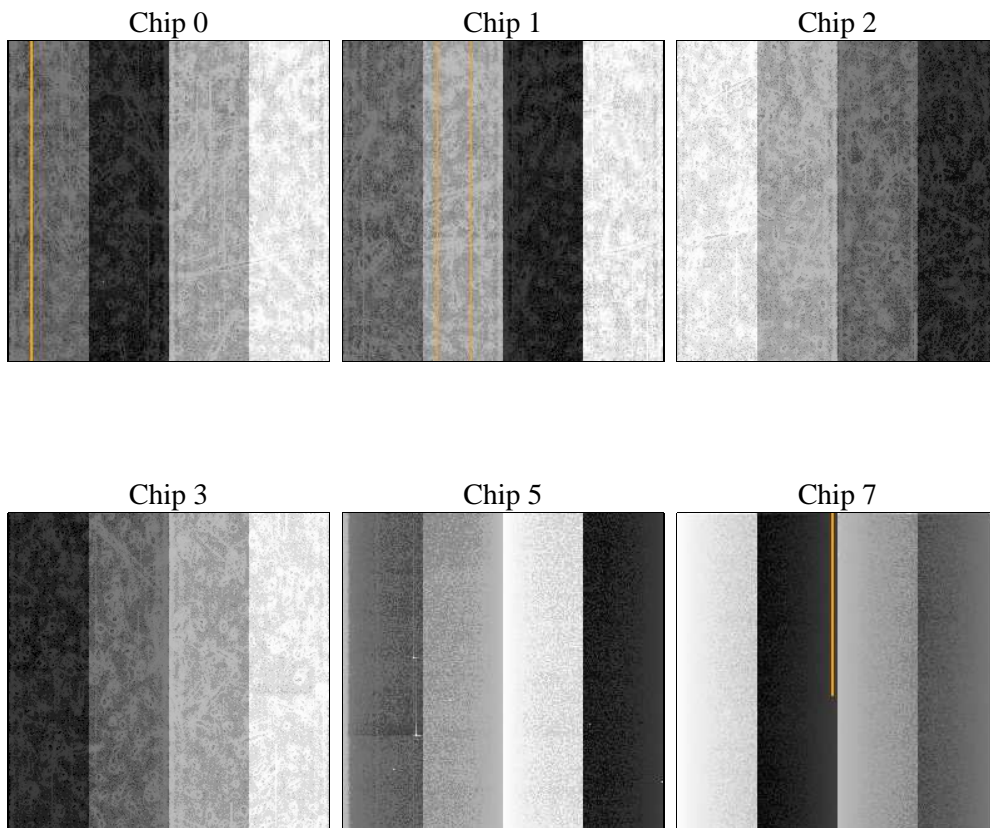
## 2 OBI

### 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	10.3.1	Processing system revision	ontime	8044.7999700904	Sum of GTIs [s]
caldsver	4.6.5	&#160	ontime0	8041.558939755	Sum of GTIs [s]
date	2014-12-16T23:42:33	Date and time of file creation	ontime1	8044.7999700904	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8041.5589398742	Sum of GTIs [s]
			ontime3	8044.7999700904	Sum of GTIs [s]
			ontime5	8044.7999700904	Sum of GTIs [s]
			ontime7	8044.7999700904	Sum of GTIs [s]
			l1events	902067	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	152812	161683	169958	163985	129589	124040	grade 0 events	11707	10861	11930	12110	4016	6128
rejected events	129336	137799	146756	140511	76556	74257		7%	6%	7%	7%	3%	4%
rejected %	84%	85%	86%	85%	59%	59%	grade 1 events	66	54	75	71	127	91
								0%	0%	0%	0%	0%	0%
							grade 2 events	5325	6005	4945	4919	20238	12694
								3%	3%	2%	2%	15%	10%
							grade 3 events	1661	1617	1677	1665	1665	3761
								1%	1%	0%	1%	1%	3%
							grade 4 events	1504	1634	1606	1701	1546	3708
								0%	1%	0%	1%	1%	2%
							grade 5 events	2925	2883	2740	3243	5562	7506
								1%	1%	1%	1%	4%	6%
							grade 6 events	3993	4439	3738	3789	27231	25022
								2%	2%	2%	2%	21%	20%
							grade 7 events	125631	134190	143247	136487	69204	65130
								82%	82%	84%	83%	53%	52%

## 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	OVERRIDE	OVERRIDE
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	116.2967164901846	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	20.21252266196999	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	82.24569403737658	[s] Primary exposure time	3.2	3.2
SIM focus pos (mm)	-1.4281808131	-1.4281808131			
[mm] SIM defocus	0.1051557500557434	0.1051557500557434			
SIM translation stage pos (mm)	250.4635187649	250.4635187649			
[mm] SIM translation stage offset	-0.007542945905271381	-0.007542945905271381			
[s] Observation start time (MET)	535122628.465039	535122628.465039			
Observation start date	2014-12-16T13:10:28	2014-12-16T13:10:28			
[s] Observation end time (MET)	535132446.471377	535132446.471377			
Observation end date	2014-12-16T15:54:06	2014-12-16T15:54:06			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2014.12.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0447999700904

### A.2 Comments