

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 51920 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 30 2015

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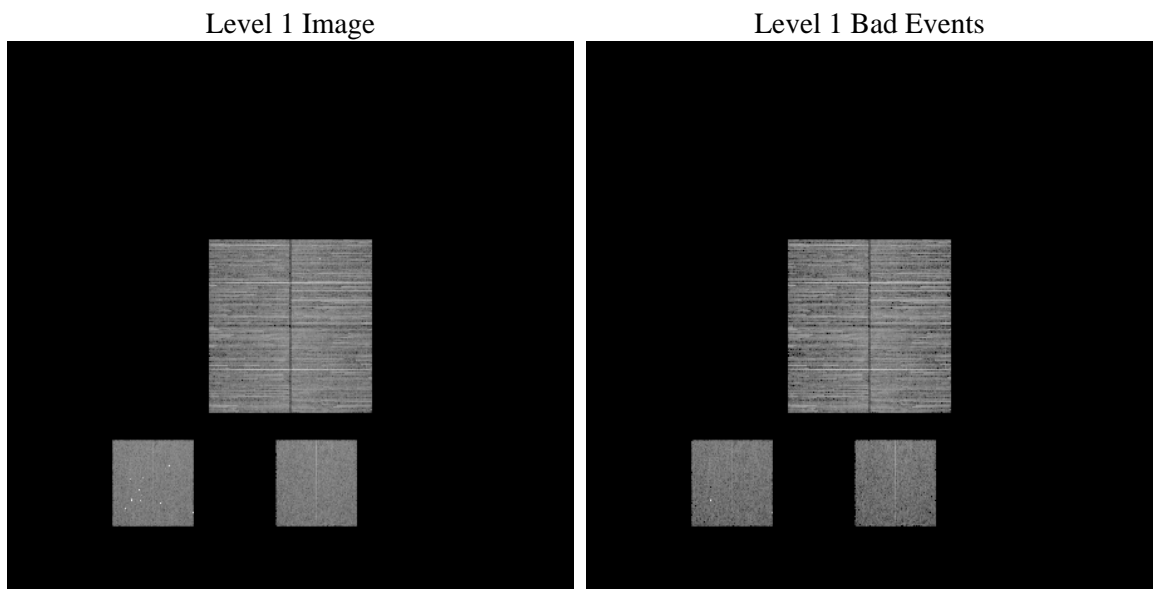
# 1 Front

seq_num	&#160	Sequence number
obs_id	51920	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	219.77378056241	Nominal RA [deg]
dec_nom	9.5870114761372	Nominal Dec [deg]
roll_nom	173.88338196739	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5609.6000835896	Sum of GTIs [s]
livetime	5538.5679496355	Livetime [s]
ontime0	5609.6000835896	Sum of GTIs [s]
ontime1	5609.6000835896	Sum of GTIs [s]
ontime2	5609.6000835896	Sum of GTIs [s]
ontime3	5609.6000835896	Sum of GTIs [s]
ontime5	5609.6000835896	Sum of GTIs [s]
ontime7	5609.6000835896	Sum of GTIs [s]
l2events	117430	Number of level 2 events

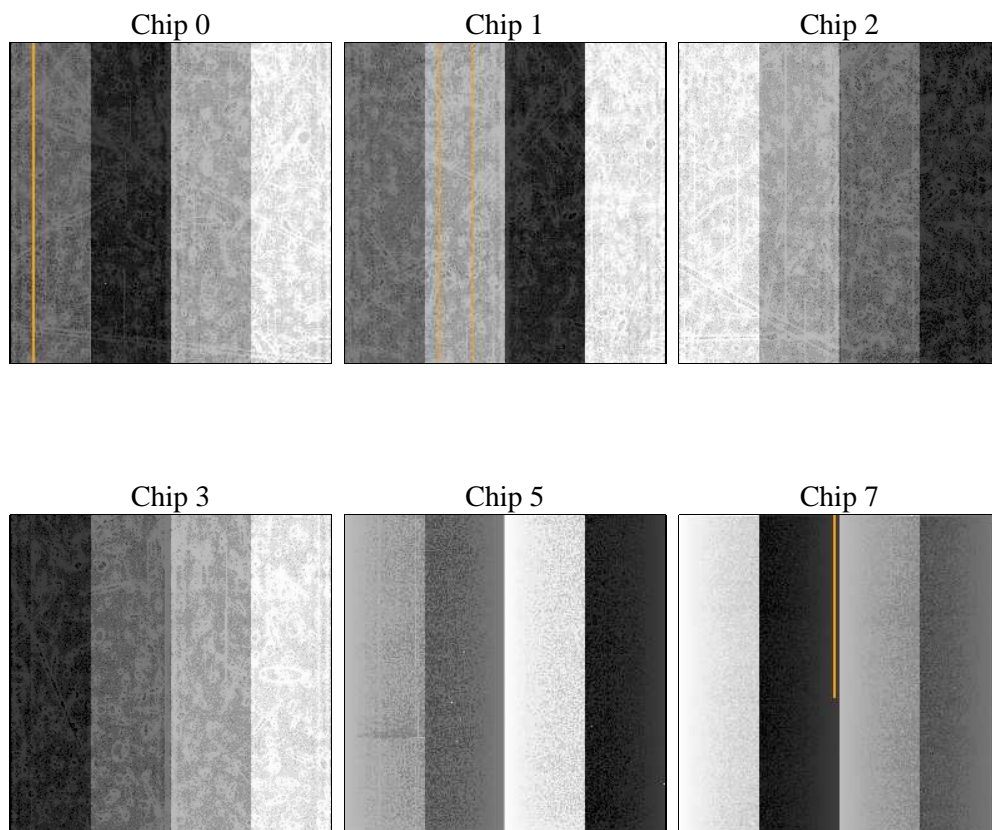
## 2 OBI

### 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	10.3.3	Processing system revision	ontime	5609.6000835896	Sum of GTIs [s]
caldbver	4.6.7	&#160	ontime0	5609.6000835896	Sum of GTIs [s]
date	2015-04-30T17:28:04	Date and time of file creation	ontime1	5609.6000835896	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5609.6000835896	Sum of GTIs [s]
			ontime3	5609.6000835896	Sum of GTIs [s]
			ontime5	5609.6000835896	Sum of GTIs [s]
			ontime7	5609.6000835896	Sum of GTIs [s]
			l1events	547576	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	90552	103967	94630	92704	89353	76370	grade 0 events	7163	6777	7456	7355	8439	3707
rejected events	75708	88730	79778	77878	48569	45296		7%	6%	7%	7%	9%	4%
rejected %	83%	85%	84%	84%	54%	59%	grade 1 events	38	25	47	46	148	48
								0%	0%	0%	0%	0%	0%
							grade 2 events	3314	3857	3055	3066	12817	7743
								3%	3%	3%	3%	14%	10%
							grade 3 events	977	957	1058	993	1330	2273
								1%	0%	1%	1%	1%	2%
							grade 4 events	949	962	1008	1055	1418	2200
								1%	0%	1%	1%	1%	2%
							grade 5 events	1821	1736	1747	1979	3559	4469
								2%	1%	1%	2%	3%	5%
							grade 6 events	2442	2691	2280	2364	16795	15168
								2%	2%	2%	2%	18%	19%
							grade 7 events	73848	86962	77979	75846	44847	40762
								81%	83%	82%	81%	50%	53%

## 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	219.7737805624126	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	9.587011476137219	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	173.883381967387	[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)	546774734.816422	546774733.79142			
Observation start date	2015-04-30T09:52:15	2015-04-30T09:52:13			
[s] Observation end time (MET)	546782239.866843	546782238.84184			
Observation end date	2015-04-30T11:57:20	2015-04-30T11:57:18			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.04.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.6096000835896

### A.2 Comments