

# V&V Reference Report

## L2 ASCDS Version : 10.0.1

Observation 53416 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Sep 9 2013

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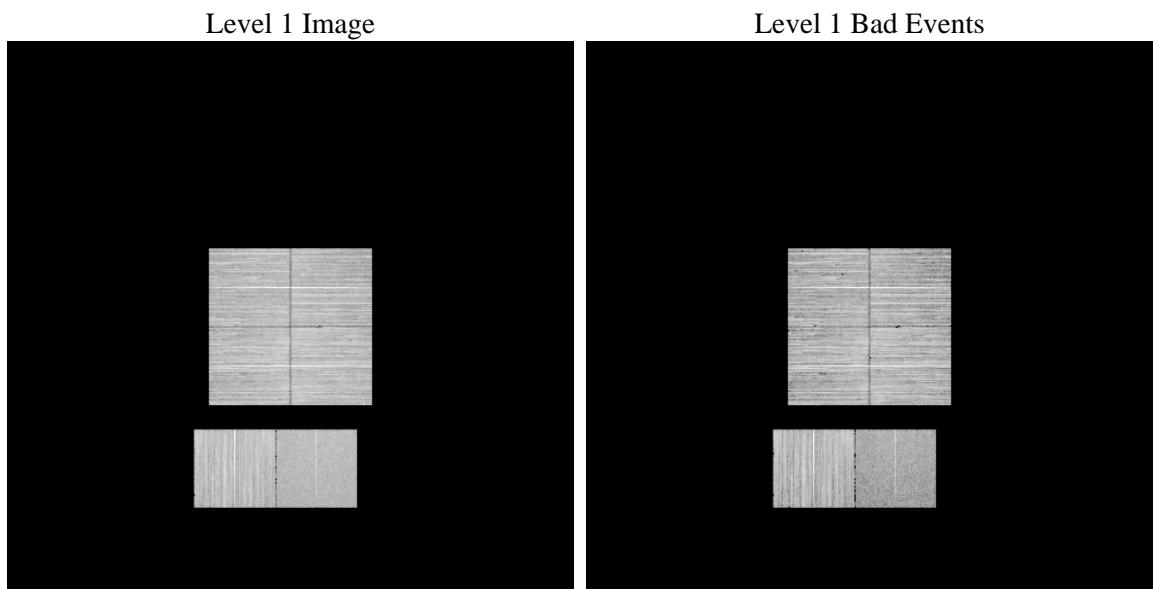
# 1 Front

seq_num	&#160	Sequence number
obs_id	53416	Observation id
title	ACIS-012367 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	335.00321917189	Nominal RA [deg]
dec_nom	0.97139094423759	Nominal Dec [deg]
roll_nom	243.53942738373	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8265.5862026811	Sum of GTIs [s]
livetime	8160.9223732442	Livetime [s]
ontime0	8265.5451626778	Sum of GTIs [s]
ontime1	8265.5041226745	Sum of GTIs [s]
ontime2	8265.4630826712	Sum of GTIs [s]
ontime3	8265.5999692678	Sum of GTIs [s]
ontime6	8265.4220426679	Sum of GTIs [s]
ontime7	8265.5862026811	Sum of GTIs [s]
l2events	218803	Number of level 2 events

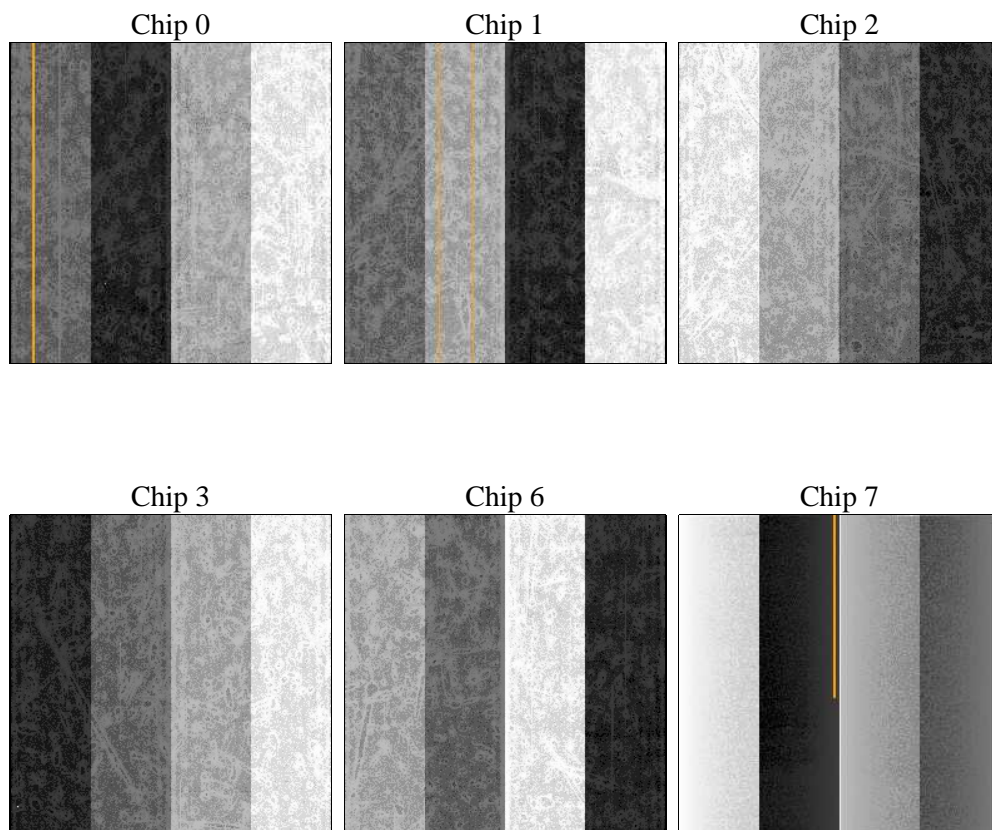
## 2 OBI

### 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	Processing system revision	ontime	8265.5862026811	Sum of GTIs [s]
caldsver	4.5.8	&#160	ontime0	8265.5451626778	Sum of GTIs [s]
date	2013-09-09T20:26:08	Date and time of file creation	ontime1	8265.5041226745	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8265.4630826712	Sum of GTIs [s]
			ontime3	8265.5999692678	Sum of GTIs [s]
			ontime6	8265.4220426679	Sum of GTIs [s]
			ontime7	8265.5862026811	Sum of GTIs [s]
			l1events	886058	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	144032	138123	155032	162228	162912	123731	grade 0 events	16983	16899	17952	17955	17531	8922
rejected events	110266	103799	120551	127451	127096	64981		11%	12%	11%	11%	10%	7%
rejected %	76%	75%	77%	78%	78%	52%	grade 1 events	75	72	100	89	80	80
								0%	0%	0%	0%	0%	0%
							grade 2 events	6713	7122	6530	6562	7274	14495
								4%	5%	4%	4%	4%	11%
							grade 3 events	2264	2221	2334	2397	2261	4827
								1%	1%	1%	1%	1%	3%
							grade 4 events	2213	2180	2316	2347	2316	4908
								1%	1%	1%	1%	1%	3%
							grade 5 events	2819	2758	2524	3144	3024	7143
								1%	1%	1%	1%	1%	5%
							grade 6 events	5724	6038	5495	5659	6590	25861
								3%	4%	3%	3%	4%	20%
							grade 7 events	107241	100833	117781	124075	123836	57495
								74%	73%	75%	76%	76%	46%

## 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	335.0032191718859	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	0.9713909442375931	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	243.5394273837281	[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)	495097116.305973	495097115.28097			
Observation start date	2013-09-09T06:58:36	2013-09-09T06:58:35			
[s] Observation end time (MET)	495106927.606509	495106926.58151			
Observation end date	2013-09-09T09:42:08	2013-09-09T09:42:06			
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)	2013.09.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2655862026811

### **A.2 Comments**