

# V&V Reference Report

## L2 ASCDS Version : 10.0.1

Observation 53377 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Sep 23 2013

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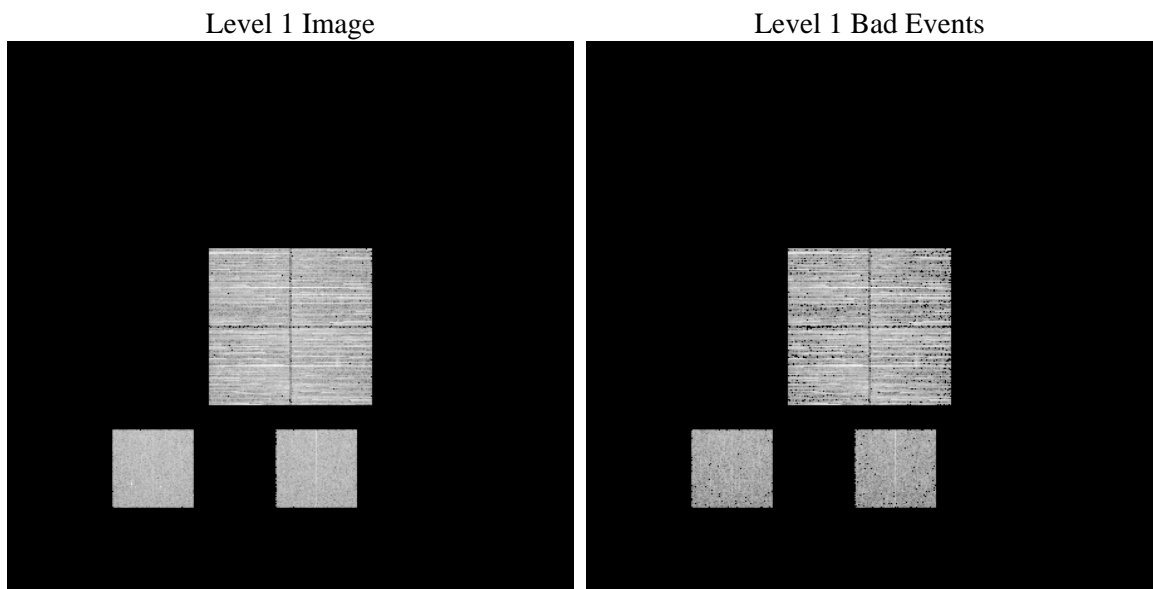
# 1 Front

seq_num	&#160	Sequence number
obs_id	53377	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	332.62519952705	Nominal RA [deg]
dec_nom	-14.471737923857	Nominal Dec [deg]
roll_nom	295.84025262883	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3288.9626870751	Sum of GTIs [s]
livetime	3247.3158611558	Livetime [s]
ontime0	3288.9216470718	Sum of GTIs [s]
ontime1	3288.8806070685	Sum of GTIs [s]
ontime2	3288.8395670652	Sum of GTIs [s]
ontime3	3289.0037270784	Sum of GTIs [s]
ontime5	3288.7985270619	Sum of GTIs [s]
ontime7	3288.9626870751	Sum of GTIs [s]
l2events	89200	Number of level 2 events

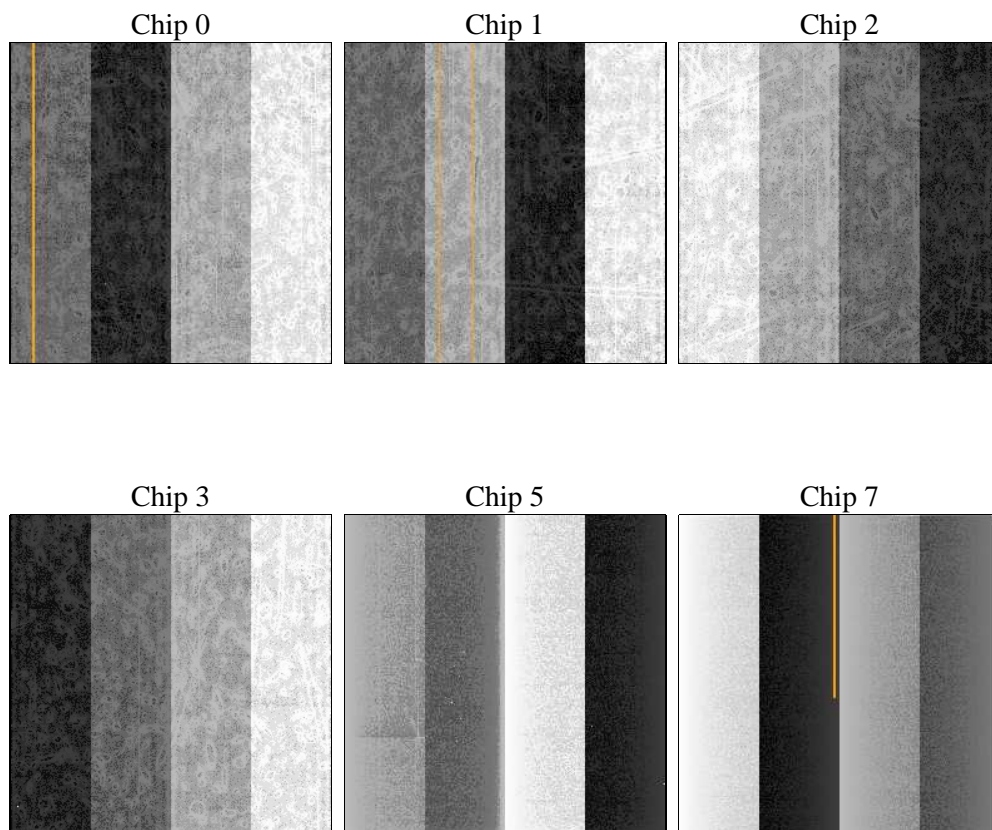
## 2 OBI

### 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	Processing system revision	ontime	3288.9626870751	Sum of GTIs [s]
caldbver	4.5.8	&#160	ontime0	3288.9216470718	Sum of GTIs [s]
date	2013-09-23T08:04:14	Date and time of file creation	ontime1	3288.8806070685	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3288.8395670652	Sum of GTIs [s]
			ontime3	3289.0037270784	Sum of GTIs [s]
			ontime5	3288.7985270619	Sum of GTIs [s]
			ontime7	3288.9626870751	Sum of GTIs [s]
			l1events	343566	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	60531	57412	64593	61695	51028	48307	grade 0 events	5991	5869	6294	6247	2349	3252
rejected events	48538	45446	52507	49653	27778	25956		9%	10%	9%	10%	4%	6%
rejected %	80%	79%	81%	80%	54%	53%	grade 1 events	43	25	31	44	41	33
								0%	0%	0%	0%	0%	0%
							grade 2 events	2468	2488	2378	2304	8648	5533
								4%	4%	3%	3%	16%	11%
							grade 3 events	889	799	835	805	814	1855
								1%	1%	1%	1%	1%	3%
							grade 4 events	763	838	802	799	779	1793
								1%	1%	1%	1%	1%	3%
							grade 5 events	1119	1163	1021	1258	2391	2939
								1%	2%	1%	2%	4%	6%
							grade 6 events	1882	1972	1777	1887	10660	9918
								3%	3%	2%	3%	20%	20%
							grade 7 events	47376	44258	51455	48351	25346	22984
								78%	77%	79%	78%	49%	47%

## 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	332.6251995270548	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-14.47173792385668	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	295.8402526288348	[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)	496271885.270123	496271884.24512			
Observation start date	2013-09-22T21:18:05	2013-09-22T21:18:04			
[s] Observation end time (MET)	496278418.620479	496278417.59548			
Observation end date	2013-09-22T23:06:59	2013-09-22T23:06:57			
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)	2013.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2889626870751

### **A.2 Comments**