

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 52442 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Sep 25 2014

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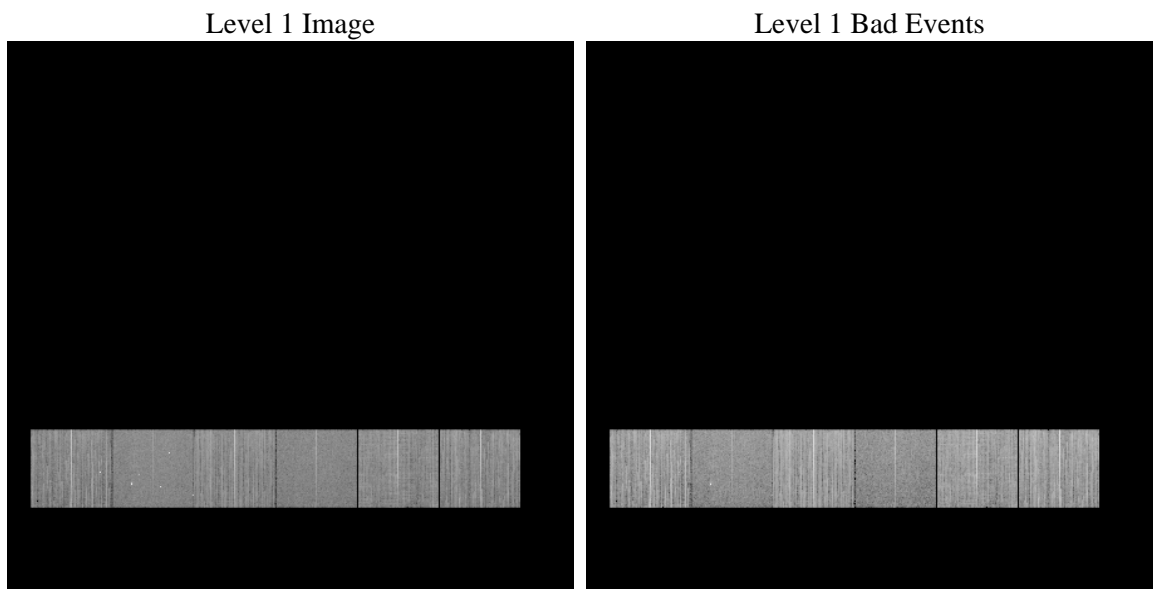
# 1 Front

seq_num	&#160	Sequence number
obs_id	52442	Observation id
title	ACIS-456789 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	21.002991360223	Nominal RA [deg]
dec_nom	-14.971206440238	Nominal Dec [deg]
roll_nom	51.53507090352	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8371.0832714438	Sum of GTIs [s]
livetime	8265.0835745996	Livetime [s]
ontime4	8370.9601514339	Sum of GTIs [s]
ontime5	8371.0422314405	Sum of GTIs [s]
ontime6	8371.0011914372	Sum of GTIs [s]
ontime7	8371.0832714438	Sum of GTIs [s]
ontime8	8370.9191114306	Sum of GTIs [s]
ontime9	8371.1243114471	Sum of GTIs [s]
l2events	206312	Number of level 2 events

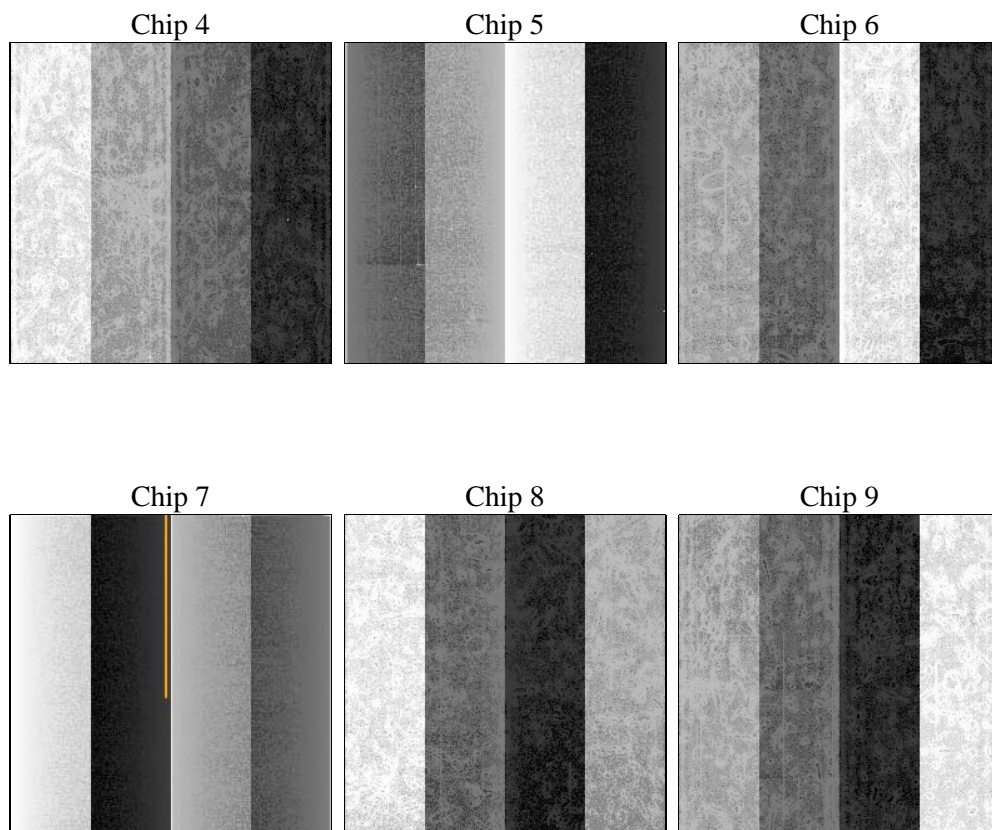
## 2 OBI

### 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	10.2.4	Processing system revision	ontime	8371.0832714438	Sum of GTIs [s]
caldsver	4.6.3	&#160	ontime4	8370.9601514339	Sum of GTIs [s]
date	2014-09-26T01:40:29	Date and time of file creation	ontime5	8371.0422314405	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8371.0011914372	Sum of GTIs [s]
			ontime7	8371.0832714438	Sum of GTIs [s]
			ontime8	8370.9191114306	Sum of GTIs [s]
			ontime9	8371.1243114471	Sum of GTIs [s]
			l1events	922625	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	152437	143206	165748	127698	165869	167667	grade 0 events	15666	7936	13101	7071	15953	13066
rejected events	124310	80572	138761	73474	128511	141337		10%	5%	7%	5%	9%	7%
rejected %	81%	56%	83%	57%	77%	84%	grade 1 events	128	178	75	98	104	79
								0%	0%	0%	0%	0%	0%
							grade 2 events	5252	23231	5787	13581	7753	5323
								3%	16%	3%	10%	4%	3%
							grade 3 events	1984	2055	1745	4456	3145	1888
								1%	1%	1%	3%	1%	1%
							grade 4 events	1859	1957	1832	4356	3132	1849
								1%	1%	1%	3%	1%	1%
							grade 5 events	3347	6772	3311	8095	4332	3818
								2%	4%	1%	6%	2%	2%
							grade 6 events	3699	28139	4840	25316	7747	4488
								2%	19%	2%	19%	4%	2%
							grade 7 events	120502	72938	135057	64725	123703	137156
								79%	50%	81%	50%	74%	81%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	21.00299136022316	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-14.97120644023816	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	51.53507090351951	[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)	528039295.870966	528039294.84597			
Observation start date	2014-09-25T13:34:56	2014-09-25T13:34:54			
[s] Observation end time (MET)	528049476.171532	528049475.14653			
Observation end date	2014-09-25T16:24:36	2014-09-25T16:24:35			
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)	2014.09.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.3710832714438

### A.2 Comments