

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51236 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Feb 21 2016

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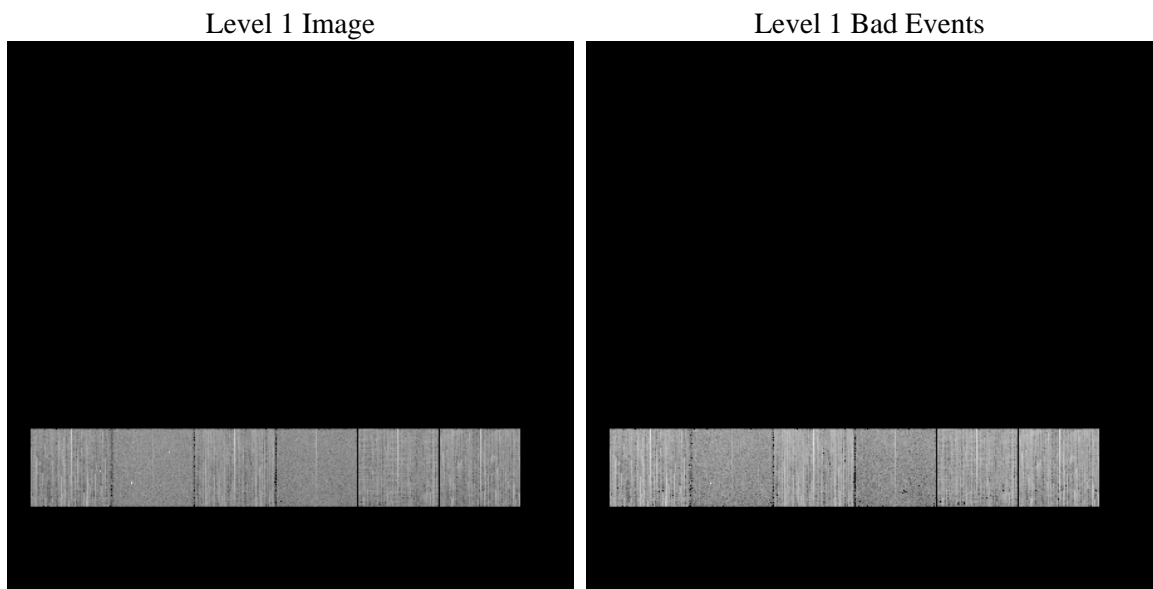
# 1 Front

seq_num	&#160	Sequence number
obs_id	51236	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	155.96751479364	Nominal RA [deg]
dec_nom	35.987387492135	Nominal Dec [deg]
roll_nom	172.60816052075	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4156.8000619411	Sum of GTIs [s]
livetime	4104.1641566323	Livetime [s]
ontime4	4156.8000619411	Sum of GTIs [s]
ontime5	4156.8000619411	Sum of GTIs [s]
ontime6	4156.8000619411	Sum of GTIs [s]
ontime7	4156.8000619411	Sum of GTIs [s]
ontime8	4156.8000619411	Sum of GTIs [s]
ontime9	4156.8000619411	Sum of GTIs [s]
l2events	93398	Number of level 2 events

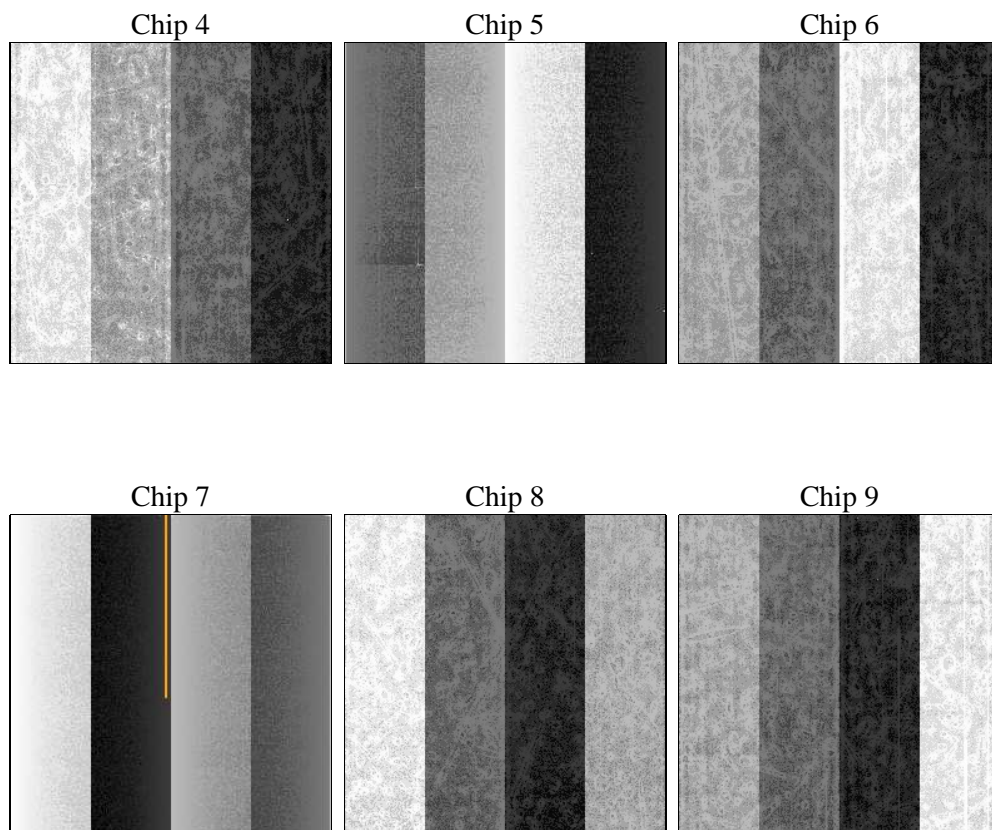
## 2 OBI

### 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	10.4.3.1	Processing system revision	ontime	4156.8000619411	Sum of GTIs [s]
caldbver	4.7.0	&#160	ontime4	4156.8000619411	Sum of GTIs [s]
date	2016-02-21T19:48:17	Date and time of file creation	ontime5	4156.8000619411	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	4156.8000619411	Sum of GTIs [s]
			ontime7	4156.8000619411	Sum of GTIs [s]
			ontime8	4156.8000619411	Sum of GTIs [s]
			ontime9	4156.8000619411	Sum of GTIs [s]
			l1events	492697	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	87037	74049	90298	64973	86715	89625	grade 0 events	5621	2488	4806	2919	6509	4977
rejected events	76086	43655	79571	38833	69548	78857		6%	3%	5%	4%	7%	5%
rejected %	87%	58%	88%	59%	80%	87%	grade 1 events	64	70	39	45	40	41
								0%	0%	0%	0%	0%	0%
							grade 2 events	2193	11328	2482	6292	3840	2349
								2%	15%	2%	9%	4%	2%
							grade 3 events	799	923	794	2052	1464	738
								0%	1%	0%	3%	1%	0%
							grade 4 events	746	829	731	2053	1362	814
								0%	1%	0%	3%	1%	0%
							grade 5 events	1878	3517	1707	4383	2432	2070
								2%	4%	1%	6%	2%	2%
							grade 6 events	1598	14867	1924	12868	4004	1904
								1%	20%	2%	19%	4%	2%
							grade 7 events	74138	40027	77815	34361	67064	76732
								85%	54%	86%	52%	77%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	155.9675147936412
[deg] Pointing Dec	0	35.98738749213506
[deg] Pointing Roll	0.0	172.6081605207461
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.4635187648994
[mm] SIM translation stage offset	0	-0.007540371344731511
[s] Observation start time (MET)	572330418.348683	572330417.32368
Observation start date	2016-02-20T04:40:18	2016-02-20T04:40:17
[s] Observation end time (MET)	572343710.549439	572343709.5244401
Observation end date	2016-02-20T08:21:51	2016-02-20T08:21:49
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.02.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.1568000619411

### A.2 Comments