

# V&V Reference Report

## L2 ASCDS Version : 10.4

Observation 51831 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 15 2015

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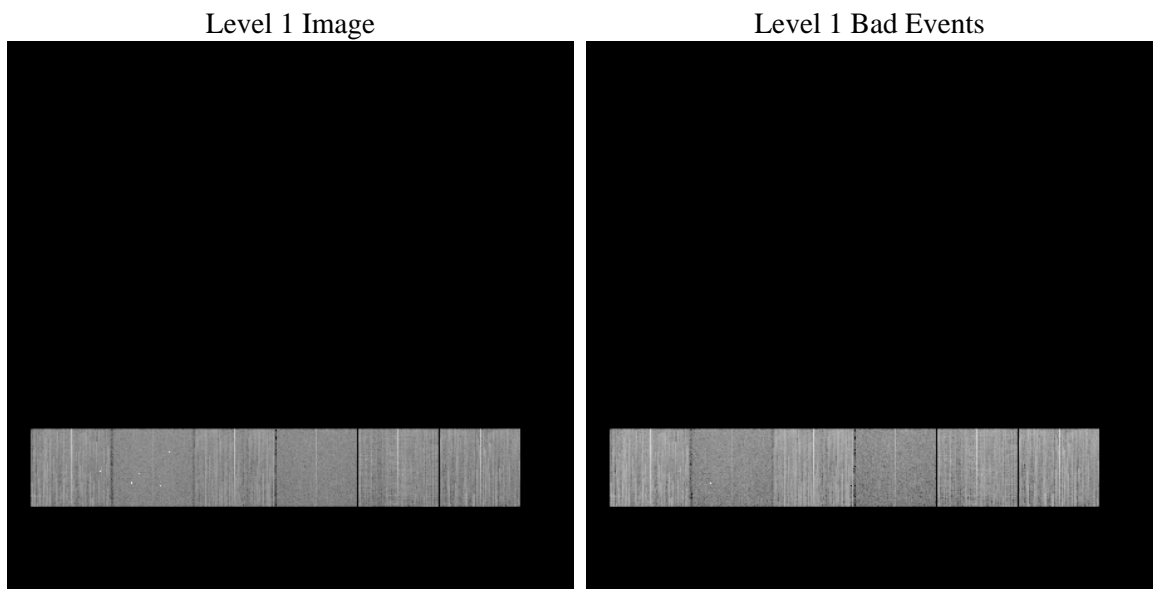
# 1 Front

seq_num	&#160	Sequence number
obs_id	51831	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	245.05049912562	Nominal RA [deg]
dec_nom	-50.998619661314	Nominal Dec [deg]
roll_nom	328.06481638976	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8441.2488172054	Sum of GTIs [s]
livetime	8334.3606419722	Livetime [s]
ontime4	8441.1256971359	Sum of GTIs [s]
ontime5	8441.2077771425	Sum of GTIs [s]
ontime6	8441.1667371988	Sum of GTIs [s]
ontime7	8441.2488172054	Sum of GTIs [s]
ontime8	8441.0846571922	Sum of GTIs [s]
ontime9	8441.2898571491	Sum of GTIs [s]
l2events	185562	Number of level 2 events

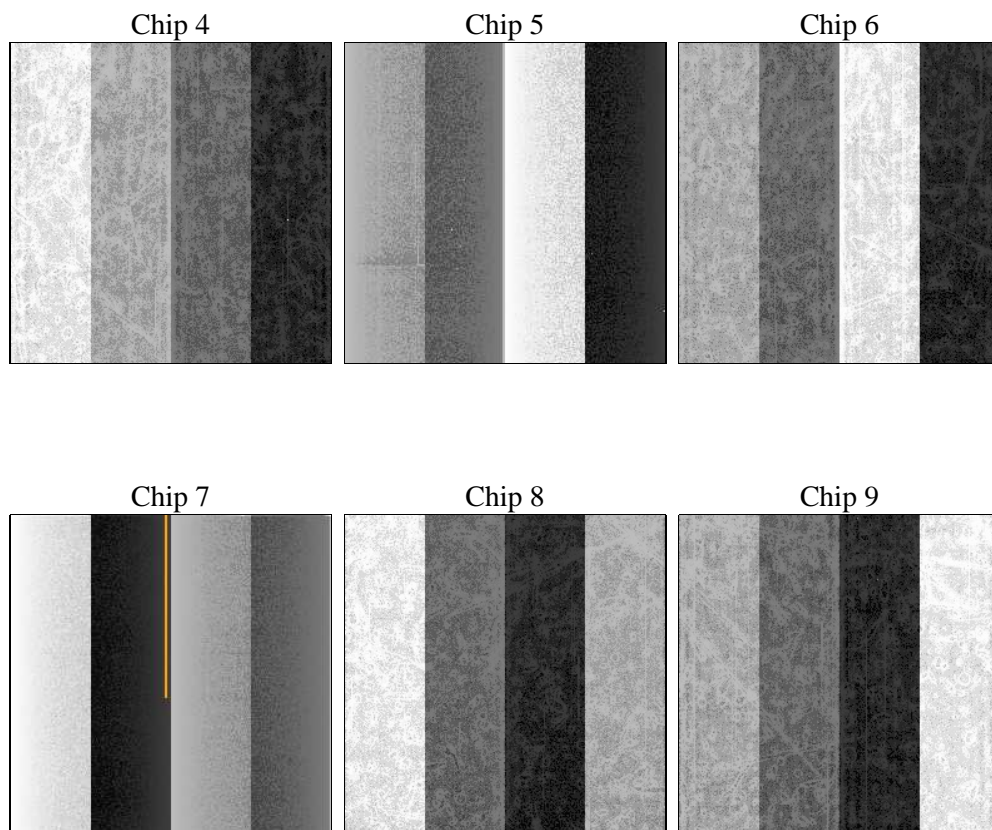
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	8441.2488172054	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime4	8441.1256971359	Sum of GTIs [s]
date	2015-06-15T22:43:00	Date and time of file creation	ontime5	8441.2077771425	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8441.1667371988	Sum of GTIs [s]
			ontime7	8441.2488172054	Sum of GTIs [s]
			ontime8	8441.0846571922	Sum of GTIs [s]
			ontime9	8441.2898571491	Sum of GTIs [s]
			l1events	889869	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	164032	135568	161267	120931	152401	155670	grade 0 events	13602	8102	11101	6024	13552	11096
rejected events	139326	76734	137960	71234	119875	132588		8%	5%	6%	4%	8%	7%
rejected %	84%	56%	85%	58%	78%	85%	grade 1 events	118	123	65	90	88	74
								0%	0%	0%	0%	0%	0%
							grade 2 events	4496	20546	4903	12256	7009	4635
								2%	15%	3%	10%	4%	2%
							grade 3 events	1739	1839	1635	3823	2560	1619
								1%	1%	1%	3%	1%	1%
							grade 4 events	1675	1815	1544	3837	2598	1618
								1%	1%	0%	3%	1%	1%
							grade 5 events	3290	6798	3302	7676	4301	3704
								2%	5%	2%	6%	2%	2%
							grade 6 events	3202	26550	4130	23777	6816	4116
								1%	19%	2%	19%	4%	2%
							grade 7 events	135910	69795	134587	63448	115477	128808
								82%	51%	83%	52%	75%	82%

## 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	245.0504991256191
[deg] Pointing Dec	0	-50.99861966131387
[deg] Pointing Roll	0.0	328.0648163897642
[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)	550657896.2842669	550657895.25927
Observation start date	2015-06-14T08:31:36	2015-06-14T08:31:35
[s] Observation end time (MET)	550669950.2849441	550669949.25994
Observation end date	2015-06-14T11:52:30	2015-06-14T11:52:29
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	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.06.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4412488172054

### A.2 Comments