

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 51879 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 19 2015

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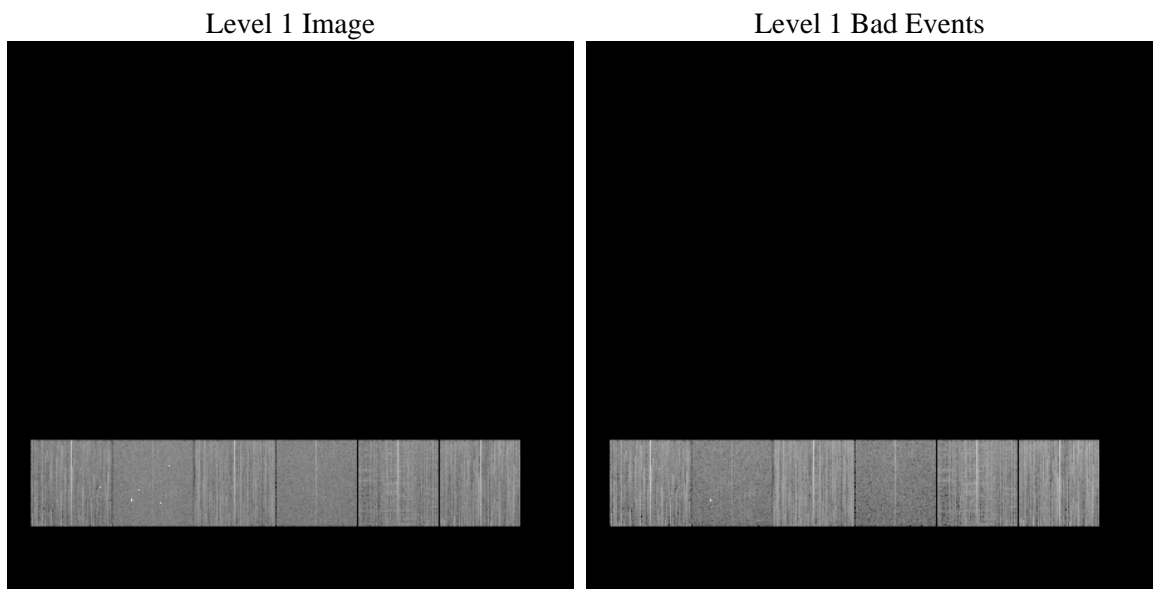
# 1 Front

seq_num	&#160	Sequence number
obs_id	51879	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	253.01856559709	Nominal RA [deg]
dec_nom	-49.073868103412	Nominal Dec [deg]
roll_nom	32.174944697948	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8059.4723678827	Sum of GTIs [s]
livetime	7957.418475929	Livetime [s]
ontime4	8059.3492478132	Sum of GTIs [s]
ontime5	8059.4313278198	Sum of GTIs [s]
ontime6	8059.3902878761	Sum of GTIs [s]
ontime7	8059.4723678827	Sum of GTIs [s]
ontime8	8059.3082078695	Sum of GTIs [s]
ontime9	8059.5134078264	Sum of GTIs [s]
l2events	175992	Number of level 2 events

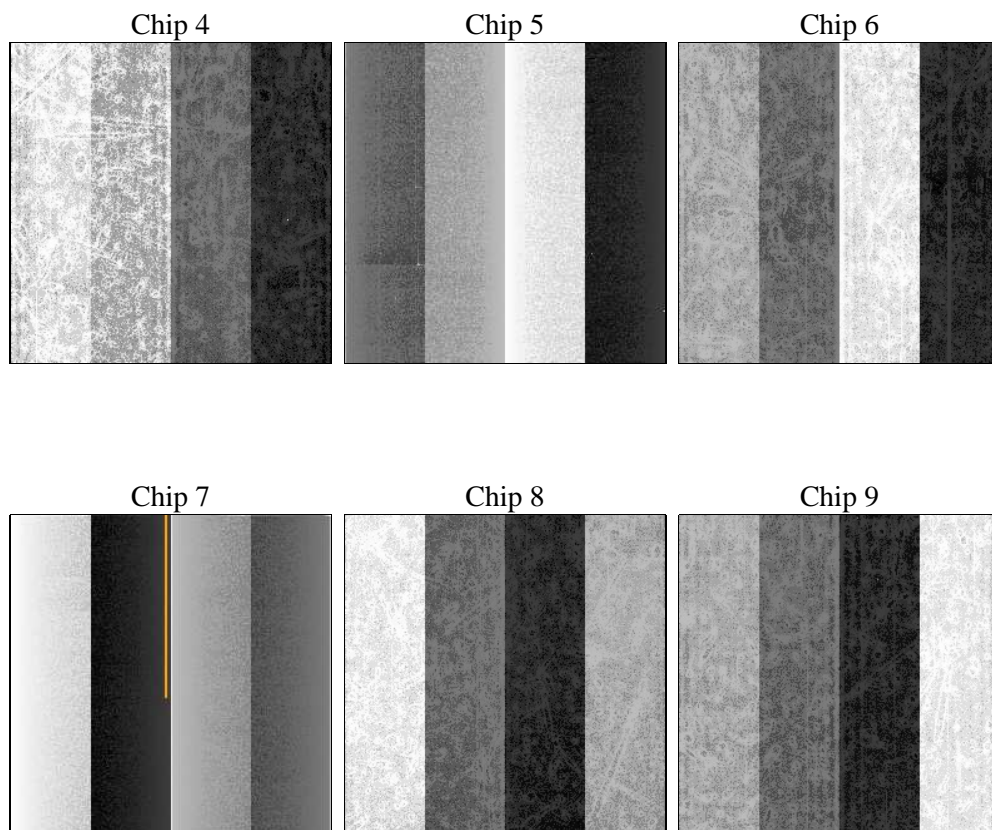
## 2 OBI

### 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	10.3.3	Processing system revision	ontime	8059.4723678827	Sum of GTIs [s]
caldbver	4.6.7	&#160	ontime4	8059.3492478132	Sum of GTIs [s]
date	2015-05-19T10:22:39	Date and time of file creation	ontime5	8059.4313278198	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8059.3902878761	Sum of GTIs [s]
			ontime7	8059.4723678827	Sum of GTIs [s]
			ontime8	8059.3082078695	Sum of GTIs [s]
			ontime9	8059.5134078264	Sum of GTIs [s]
			l1events	821174	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	136099	128075	150687	111463	140537	154313	grade 0 events	13163	8968	10644	5874	13105	10657
rejected events	112399	71888	128135	64959	109403	132267		9%	7%	7%	5%	9%	6%
rejected %	82%	56%	85%	58%	77%	85%	grade 1 events	107	136	50	79	58	69
								0%	0%	0%	0%	0%	0%
							grade 2 events	4407	19610	4825	11421	6661	4393
								3%	15%	3%	10%	4%	2%
							grade 3 events	1576	1724	1482	3778	2494	1636
								1%	1%	0%	3%	1%	1%
							grade 4 events	1546	1610	1661	3712	2377	1538
								1%	1%	1%	3%	1%	0%
							grade 5 events	2947	6282	2933	7267	3945	3250
								2%	4%	1%	6%	2%	2%
							grade 6 events	3151	24571	4063	21984	6644	3950
								2%	19%	2%	19%	4%	2%
							grade 7 events	109202	65174	125029	57348	105253	128820
								80%	50%	82%	51%	74%	83%

## 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	253.0185655970853
[deg] Pointing Dec	0	-49.07386810341213
[deg] Pointing Roll	0.0	32.17494469794778
[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)	548375549.1561559	548375548.13116
Observation start date	2015-05-18T22:32:29	2015-05-18T22:32:28
[s] Observation end time (MET)	548387635.956834	548387634.93183
Observation end date	2015-05-19T01:53:56	2015-05-19T01:53:54
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	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.05.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0594723678827

### A.2 Comments