

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51277 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Feb 7 2016

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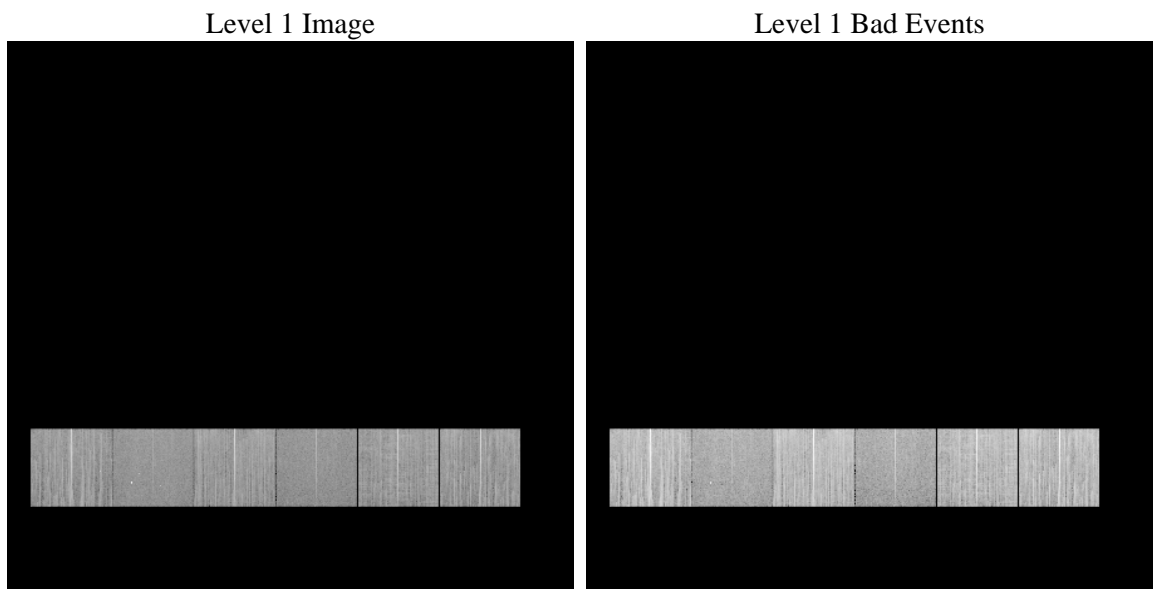
# 1 Front

seq_num	&#160	Sequence number
obs_id	51277	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	185.17368084741	Nominal RA [deg]
dec_nom	-7.5585220848396	Nominal Dec [deg]
roll_nom	61.177112242396	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8224.0001225471	Sum of GTIs [s]
livetime	8119.8628810971	Livetime [s]
ontime4	8224.0001225471	Sum of GTIs [s]
ontime5	8224.0001225471	Sum of GTIs [s]
ontime6	8224.0001225471	Sum of GTIs [s]
ontime7	8224.0001225471	Sum of GTIs [s]
ontime8	8224.0001225471	Sum of GTIs [s]
ontime9	8224.0001225471	Sum of GTIs [s]
l2events	180121	Number of level 2 events

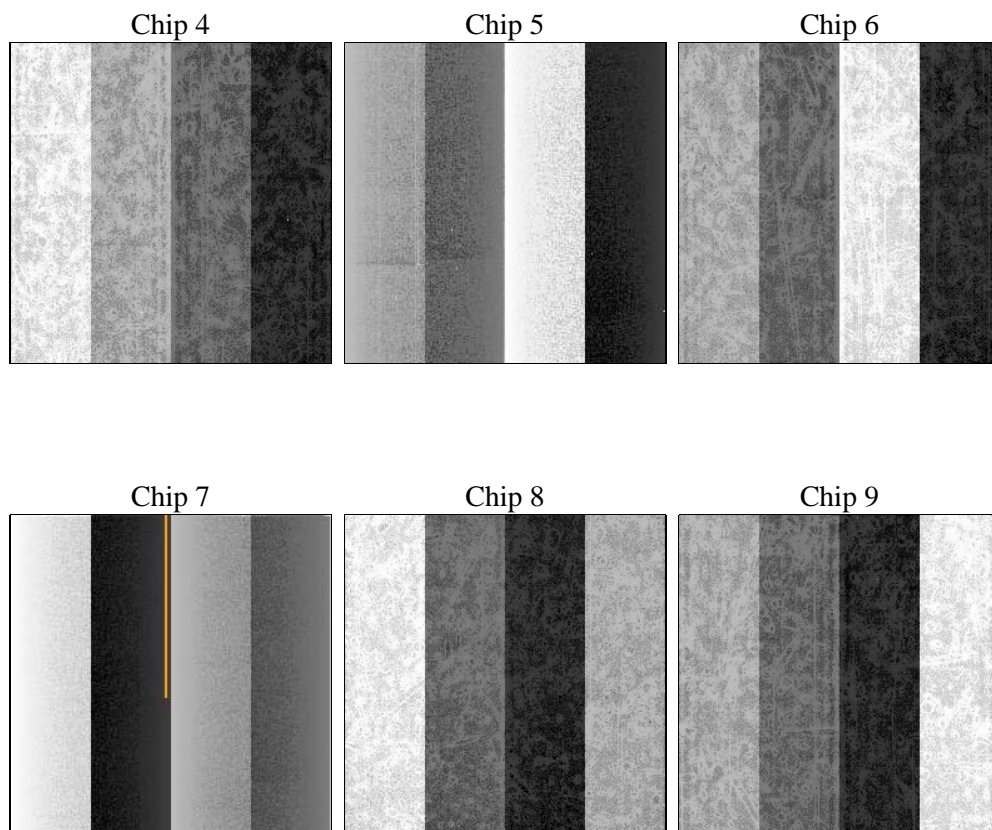
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	8224.0001225471	Sum of GTIs [s]
caldsver	4.7.0	&#160	ontime4	8224.0001225471	Sum of GTIs [s]
date	2016-02-07T19:53:02	Date and time of file creation	ontime5	8224.0001225471	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8224.0001225471	Sum of GTIs [s]
			ontime7	8224.0001225471	Sum of GTIs [s]
			ontime8	8224.0001225471	Sum of GTIs [s]
			ontime9	8224.0001225471	Sum of GTIs [s]
			l1events	1015040	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	180471	143647	188008	132318	183575	187021	grade 0 events	11208	4091	8536	5089	12953	9599
rejected events	158884	87298	166619	82980	151018	165739		6%	2%	4%	3%	7%	5%
rejected %	88%	60%	88%	62%	82%	88%	grade 1 events	128	186	51	89	86	81
								0%	0%	0%	0%	0%	0%
							grade 2 events	4496	20359	6320	12571	7990	5029
								2%	14%	3%	9%	4%	2%
							grade 3 events	1630	1715	1254	3458	2540	1476
								0%	1%	0%	2%	1%	0%
							grade 4 events	1553	1472	1276	3290	2465	1472
								0%	1%	0%	2%	1%	0%
							grade 5 events	3536	6076	3101	7822	4496	3836
								1%	4%	1%	5%	2%	2%
							grade 6 events	3213	30163	4567	26231	7410	4214
								1%	20%	2%	19%	4%	2%
							grade 7 events	154707	79585	162903	73768	145635	161314
								85%	55%	86%	55%	79%	86%

## 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	185.1736808474059
[deg] Pointing Dec	0	-7.558522084839598
[deg] Pointing Roll	0.0	61.17711224239644
SIM focus pos (mm)	-0.78090834371673	-0.78090834371673
[mm] SIM defocus	0.7524282194390134	0.7524282194390134
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	571226009.485947	571226009.485947
Observation start date	2016-02-07T09:53:29	2016-02-07T09:53:29
[s] Observation end time (MET)	571238618.7019939	571238618.7019939
Observation end date	2016-02-07T13:23:39	2016-02-07T13:23:38
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
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)	2016.02.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2240001225471

### A.2 Comments