

# V&V Reference Report

## L2 ASCDS Version : 10.4.1

Observation 51727 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jul 24 2015

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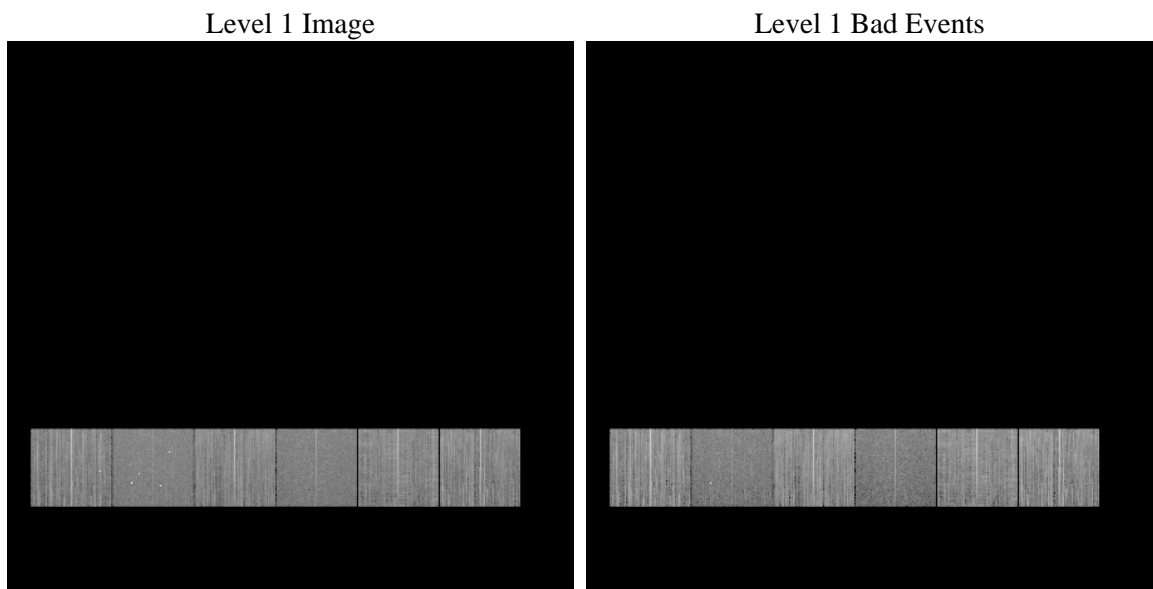
# 1 Front

seq_num	&#160	Sequence number
obs_id	51727	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	304.97439611014	Nominal RA [deg]
dec_nom	3.9864554724177	Nominal Dec [deg]
roll_nom	175.17721068366	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8277.9113577604	Sum of GTIs [s]
livetime	8173.0914597887	Livetime [s]
ontime4	8141.6640300751	Sum of GTIs [s]
ontime5	8277.8703176975	Sum of GTIs [s]
ontime6	8157.9107559919	Sum of GTIs [s]
ontime7	8277.9113577604	Sum of GTIs [s]
ontime8	8141.6234452724	Sum of GTIs [s]
ontime9	8151.5517551899	Sum of GTIs [s]
l2events	178822	Number of level 2 events

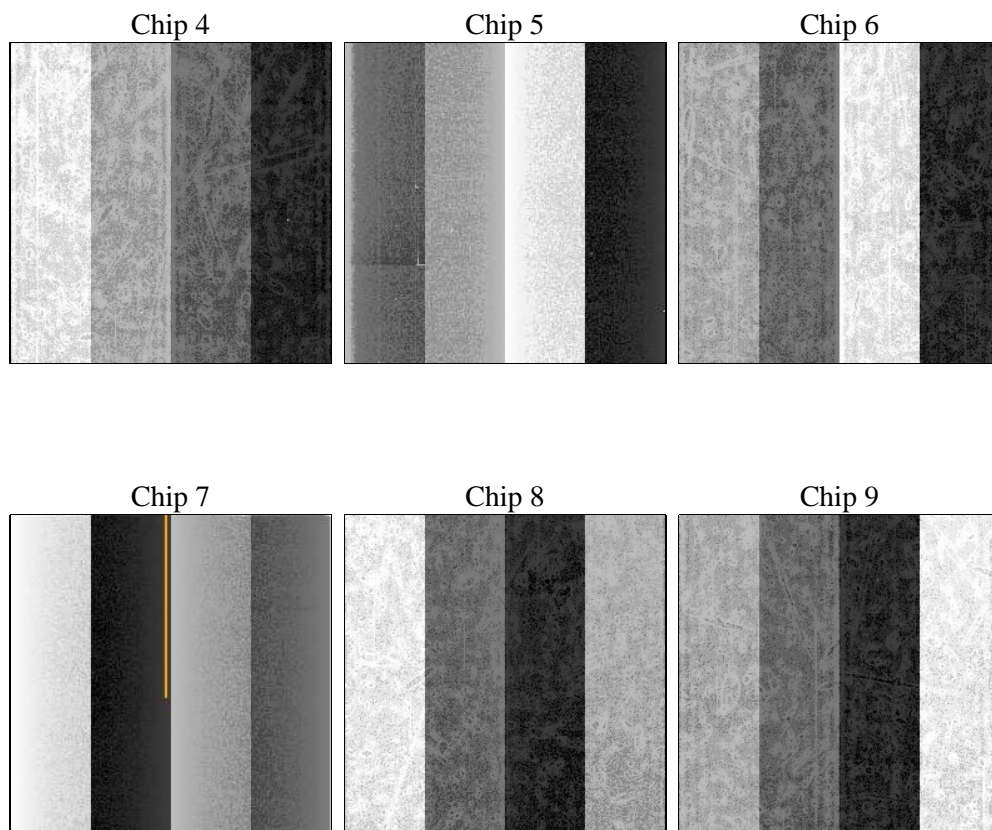
## 2 OBI

### 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	10.4.1	Processing system revision	ontime	8277.9113577604	Sum of GTIs [s]
caldsver	4.6.8	&#160	ontime4	8141.6640300751	Sum of GTIs [s]
date	2015-07-24T18:08:18	Date and time of file creation	ontime5	8277.8703176975	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8157.9107559919	Sum of GTIs [s]
			ontime7	8277.9113577604	Sum of GTIs [s]
			ontime8	8141.6234452724	Sum of GTIs [s]
			ontime9	8151.5517551899	Sum of GTIs [s]
			l1events	884401	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	155030	137233	159099	118160	156914	157965	grade 0 events	12777	10347	10440	5589	13150	10206
rejected events	131610	76906	136906	69537	125043	136356		8%	7%	6%	4%	8%	6%
rejected %	84%	56%	86%	58%	79%	86%	grade 1 events	101	156	46	80	81	81
								0%	0%	0%	0%	0%	0%
							grade 2 events	4407	20417	4801	12054	6802	4419
								2%	14%	3%	10%	4%	2%
							grade 3 events	1608	1712	1466	3736	2670	1561
								1%	1%	0%	3%	1%	0%
							grade 4 events	1619	1585	1447	3796	2521	1539
								1%	1%	0%	3%	1%	0%
							grade 5 events	3202	6329	3005	7401	4161	3661
								2%	4%	1%	6%	2%	2%
							grade 6 events	3019	26294	4050	23463	6737	3894
								1%	19%	2%	19%	4%	2%
							grade 7 events	128297	70393	133844	62041	120792	132604
								82%	51%	84%	52%	76%	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	304.9743961101407
[deg] Pointing Dec	0	3.986455472417673
[deg] Pointing Roll	0.0	175.1772106836645
[mm] SIM focus pos	-1.429586	-0.6828225247311905
[mm] SIM defocus	0.1037507710433287	0.8505141146731063
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	554088569.4272389	554088568.40224
Observation start date	2015-07-24T01:29:29	2015-07-24T01:29:28
[s] Observation end time (MET)	554099137.177833	554099136.15283
Observation end date	2015-07-24T04:25:37	2015-07-24T04:25:36
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)	2015.07.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2779113577604

### A.2 Comments