

# V&V Reference Report

## L2 ASCDS Version : 10.4.3

Observation 51365 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 1 2016

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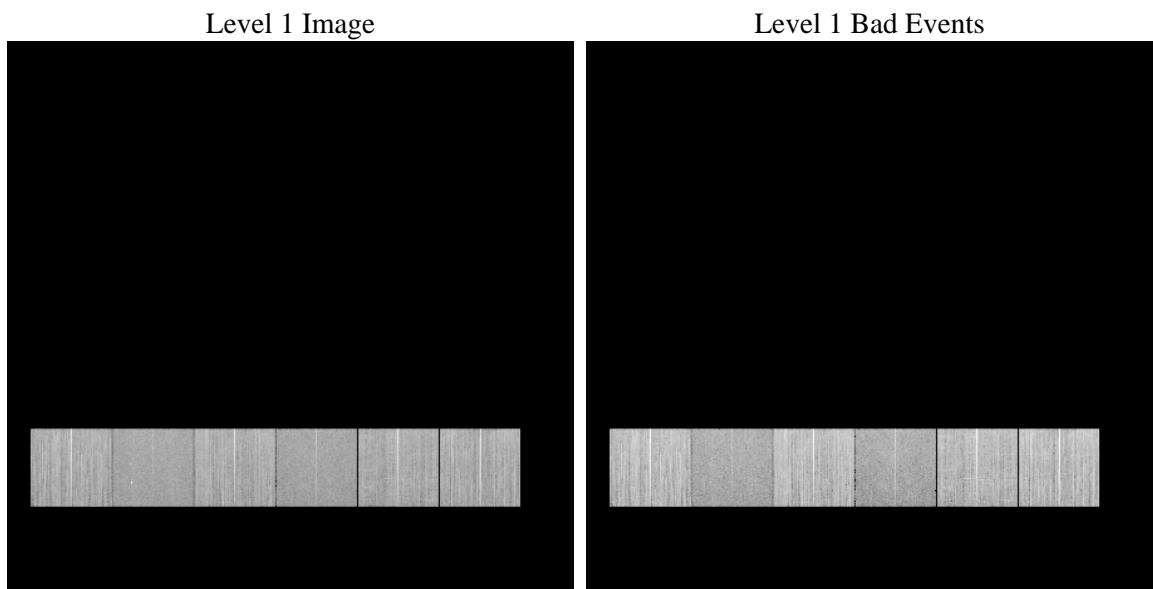
# 1 Front

seq_num	&#160	Sequence number
obs_id	51365	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	333.37257952031	Nominal RA [deg]
dec_nom	1.9110942136617	Nominal Dec [deg]
roll_nom	299.48886728093	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8422.4001255035	Sum of GTIs [s]
livetime	8315.7506237539	Livetime [s]
ontime4	8422.4001255035	Sum of GTIs [s]
ontime5	8422.4001255035	Sum of GTIs [s]
ontime6	8422.4001255035	Sum of GTIs [s]
ontime7	8422.4001255035	Sum of GTIs [s]
ontime8	8422.4001255035	Sum of GTIs [s]
ontime9	8422.4001255035	Sum of GTIs [s]
l2events	222228	Number of level 2 events

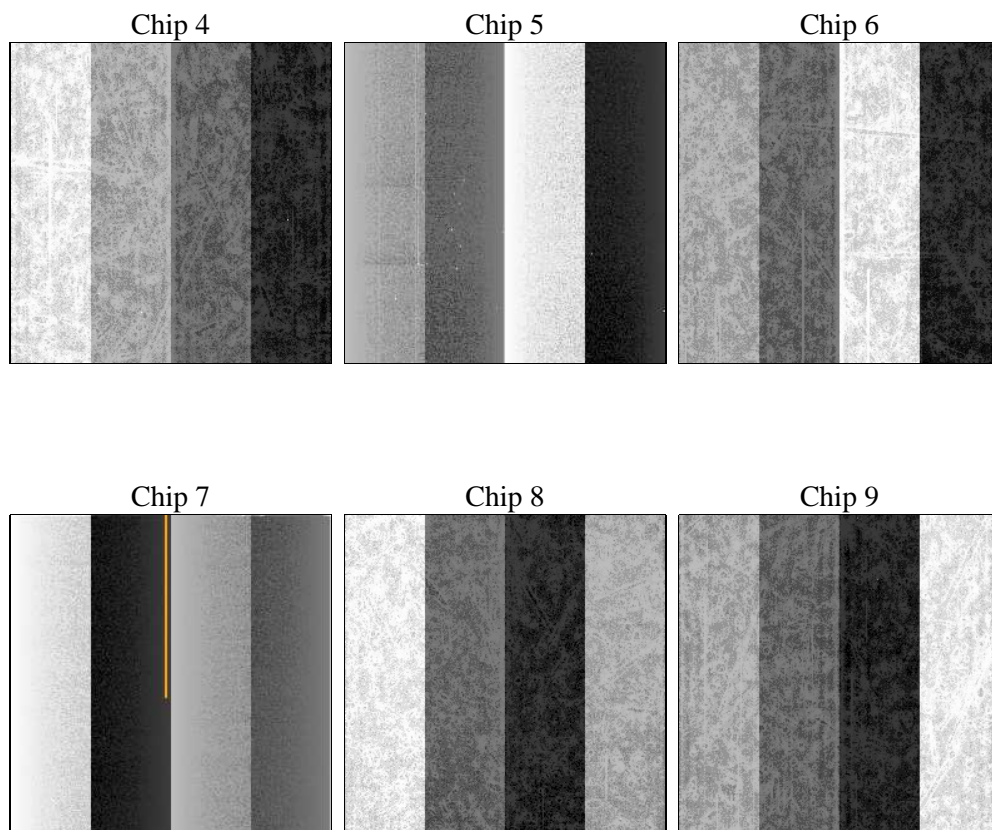
## 2 OBI

### 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	Processing system revision	ontime	8422.4001255035	Sum of GTIs [s]
caldsver	4.7.0	&#160	ontime4	8422.4001255035	Sum of GTIs [s]
date	2016-01-01T19:07:11	Date and time of file creation	ontime5	8422.4001255035	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8422.4001255035	Sum of GTIs [s]
			ontime7	8422.4001255035	Sum of GTIs [s]
			ontime8	8422.4001255035	Sum of GTIs [s]
			ontime9	8422.4001255035	Sum of GTIs [s]
			l1events	1016723	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	187382	142054	187363	132693	178912	188319	grade 0 events	14518	4291	11011	6438	15740	12672
rejected events	157862	81597	157342	77630	138889	158883		7%	3%	5%	4%	8%	6%
rejected %	84%	57%	83%	58%	77%	84%	grade 1 events	162	212	51	86	84	109
								0%	0%	0%	0%	0%	0%
							grade 2 events	6206	22345	9228	14209	9791	7280
								3%	15%	4%	10%	5%	3%
							grade 3 events	2016	1699	1541	3705	2834	1808
								1%	1%	0%	2%	1%	0%
							grade 4 events	1984	1591	1614	3665	2712	1771
								1%	1%	0%	2%	1%	0%
							grade 5 events	3436	5970	2941	7404	4357	3519
								1%	4%	1%	5%	2%	1%
							grade 6 events	4810	30553	6635	27066	8957	5913
								2%	21%	3%	20%	5%	3%
							grade 7 events	154250	75393	154342	70120	134437	155247
								82%	53%	82%	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	333.372579520306
[deg] Pointing Dec	0	1.911094213661731
[deg] Pointing Roll	0.0	299.4888672809309
[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)	568027800.2043149	568027799.17931
Observation start date	2016-01-01T09:30:00	2016-01-01T09:29:59
[s] Observation end time (MET)	568040407.705031	568040406.68003
Observation end date	2016-01-01T13:00:08	2016-01-01T13:00:06
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)	2016.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4224001255035

### A.2 Comments