

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 51518 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Nov 9 2015

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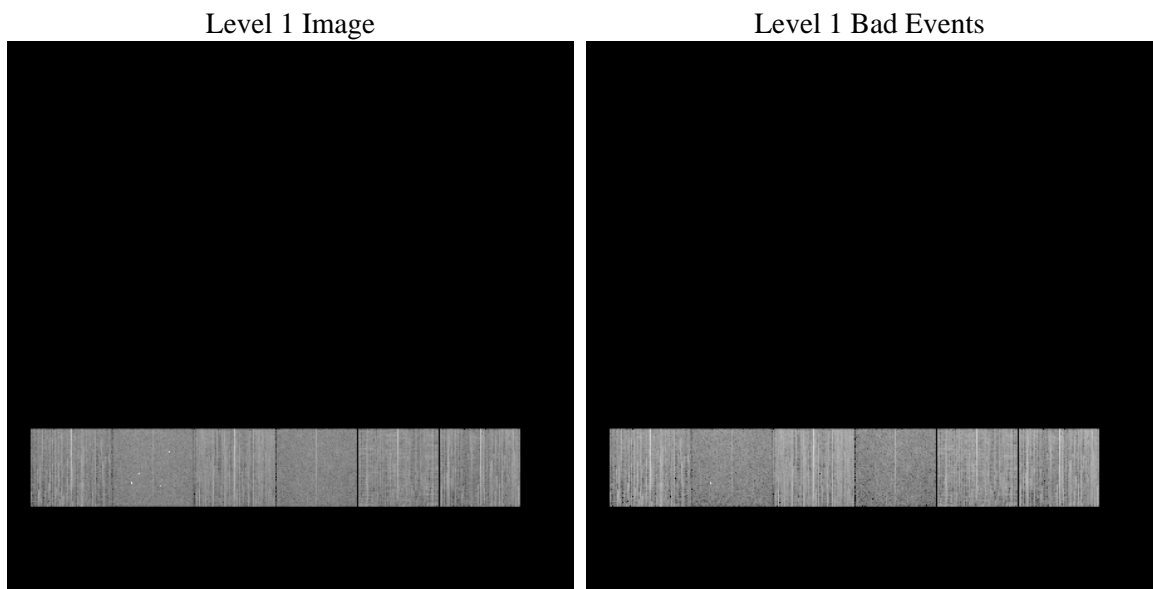
# 1 Front

seq_num	&#160	Sequence number
obs_id	51518	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	67.983169434825	Nominal RA [deg]
dec_nom	25.018877563366	Nominal Dec [deg]
roll_nom	105.47595361736	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5905.1218943596	Sum of GTIs [s]
livetime	5830.3476852957	Livetime [s]
ontime4	5906.0757273436	Sum of GTIs [s]
ontime5	5905.1218943596	Sum of GTIs [s]
ontime6	5905.1218844652	Sum of GTIs [s]
ontime7	5905.1218943596	Sum of GTIs [s]
ontime8	5906.0346873999	Sum of GTIs [s]
ontime9	5905.1218844652	Sum of GTIs [s]
l2events	133977	Number of level 2 events

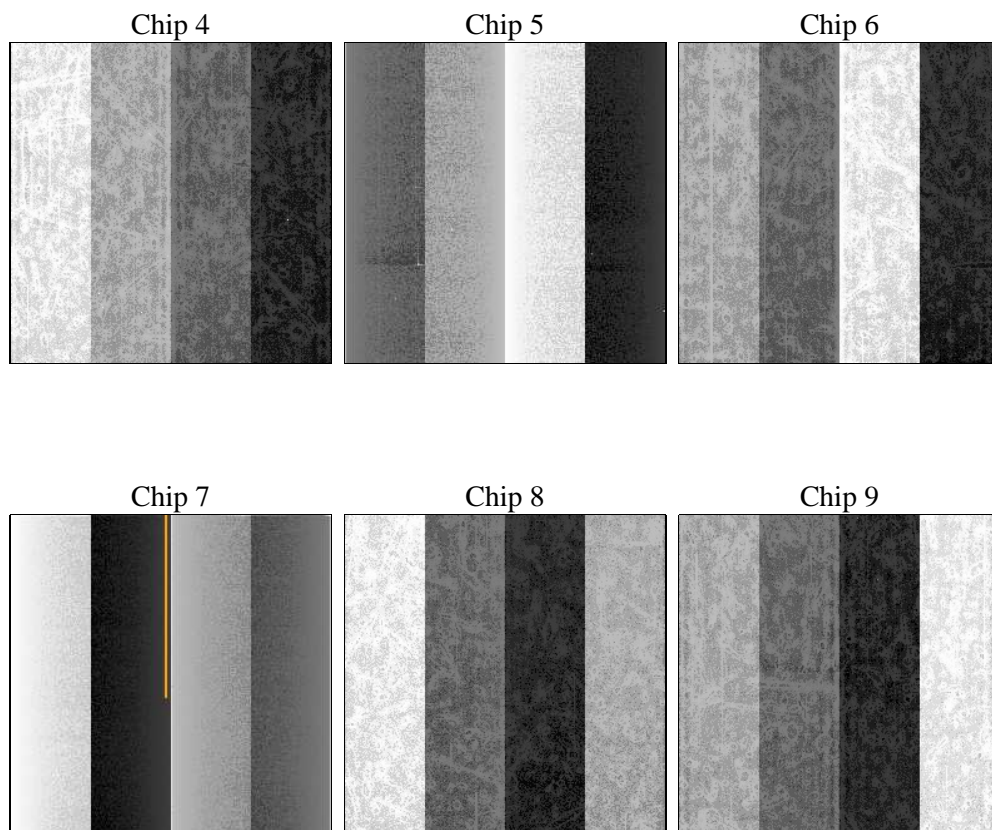
## 2 OBI

### 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	10.4.2.1	Processing system revision	ontime	5905.1218943596	Sum of GTIs [s]
caldsver	4.6.10a	&#160	ontime4	5906.0757273436	Sum of GTIs [s]
date	2015-11-09T22:02:43	Date and time of file creation	ontime5	5905.1218943596	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	5905.1218844652	Sum of GTIs [s]
			ontime7	5905.1218943596	Sum of GTIs [s]
			ontime8	5906.0346873999	Sum of GTIs [s]
			ontime9	5905.1218844652	Sum of GTIs [s]
			l1events	647431	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	107229	97069	123289	86404	115310	118130	grade 0 events	8104	6232	7712	4365	9662	7809
rejected events	90987	54046	106438	50583	91276	101551		7%	6%	6%	5%	8%	6%
rejected %	84%	55%	86%	58%	79%	85%	grade 1 events	77	98	46	73	59	59
								0%	0%	0%	0%	0%	0%
							grade 2 events	3308	15145	3667	9003	5168	3389
								3%	15%	2%	10%	4%	2%
							grade 3 events	1146	1273	1156	2719	1930	1187
								1%	1%	0%	3%	1%	1%
							grade 4 events	1201	1278	1114	2742	1890	1155
								1%	1%	0%	3%	1%	0%
							grade 5 events	2342	4605	2312	5651	3059	2669
								2%	4%	1%	6%	2%	2%
							grade 6 events	2496	19095	3202	16992	5398	3039
								2%	19%	2%	19%	4%	2%
							grade 7 events	88555	49343	104080	44859	88144	98823
								82%	50%	84%	51%	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	67.98316943482487
[deg] Pointing Dec	0	25.01887756336621
[deg] Pointing Roll	0.0	105.4759536173636
[mm] SIM focus pos	-1.429586	-0.7809083437167272
[mm] SIM defocus	0.1037507710433287	0.7524282956875696
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	563416486.892928	563416485.8679301
Observation start date	2015-11-09T00:34:47	2015-11-09T00:34:45
[s] Observation end time (MET)	563434578.143952	563434577.11895
Observation end date	2015-11-09T05:36:18	2015-11-09T05:36:17
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)	2015.11.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.9051218943596

### A.2 Comments