

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 52478 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Sep 12 2014

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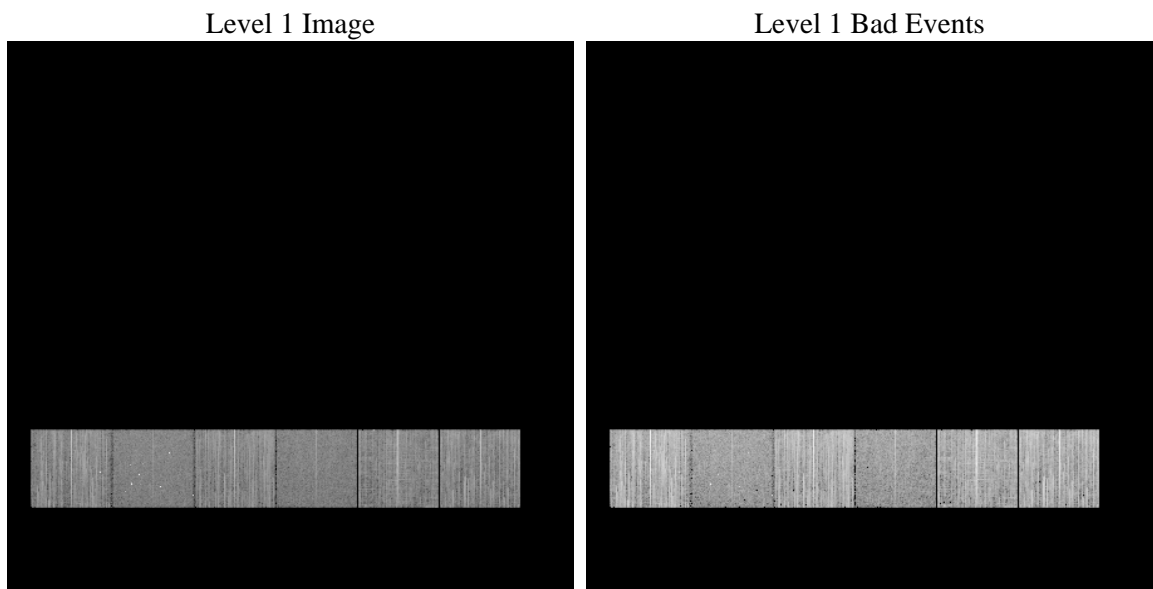
# 1 Front

seq_num	&#160	Sequence number
obs_id	52478	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	350.56846926207	Nominal RA [deg]
dec_nom	20.979240003431	Nominal Dec [deg]
roll_nom	178.19676510416	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4911.999981761	Sum of GTIs [s]
livetime	4849.8012803406	Livetime [s]
ontime4	4911.999981761	Sum of GTIs [s]
ontime5	4911.999981761	Sum of GTIs [s]
ontime6	4911.999981761	Sum of GTIs [s]
ontime7	4911.999981761	Sum of GTIs [s]
ontime8	4911.999981761	Sum of GTIs [s]
ontime9	4911.999981761	Sum of GTIs [s]
l2events	123644	Number of level 2 events

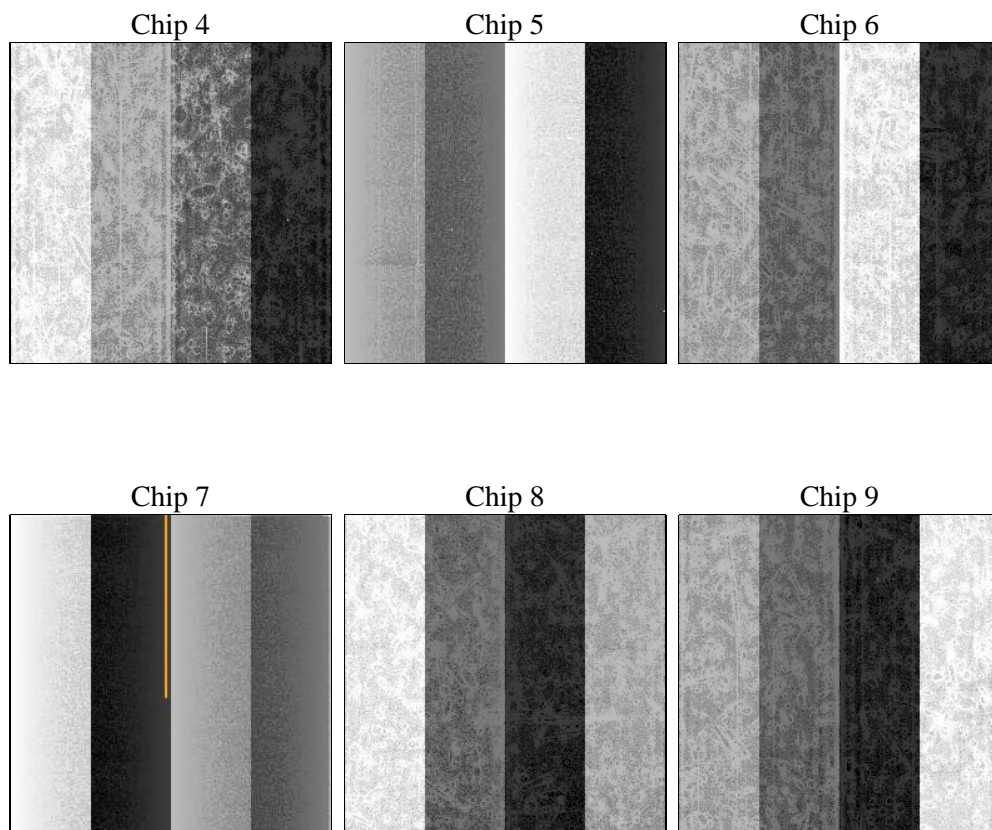
## 2 OBI

### 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	10.2.4	Processing system revision	ontime	4911.999981761	Sum of GTIs [s]
caldbver	4.6.3	&#160	ontime4	4911.999981761	Sum of GTIs [s]
date	2014-09-12T16:01:29	Date and time of file creation	ontime5	4911.999981761	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	4911.999981761	Sum of GTIs [s]
			ontime7	4911.999981761	Sum of GTIs [s]
			ontime8	4911.999981761	Sum of GTIs [s]
			ontime9	4911.999981761	Sum of GTIs [s]
			l1events	596559	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	113084	88176	108384	76363	101852	108700	grade 0 events	10525	8402	7846	4293	10334	8185
rejected events	95219	47828	91694	44978	78670	92509		9%	9%	7%	5%	10%	7%
rejected %	84%	54%	84%	58%	77%	85%	grade 1 events	80	482	36	64	59	47
								0%	0%	0%	0%	0%	0%
							grade 2 events	3387	14466	4281	8324	5496	3530
								2%	16%	3%	10%	5%	3%
							grade 3 events	1262	1340	1095	2398	1836	1102
								1%	1%	1%	3%	1%	1%
							grade 4 events	1188	1201	1078	2415	1746	1115
								1%	1%	0%	3%	1%	1%
							grade 5 events	1919	3473	1812	4396	2514	2034
								1%	3%	1%	5%	2%	1%
							grade 6 events	2495	17030	3268	15547	4887	3130
								2%	19%	3%	20%	4%	2%
							grade 7 events	92228	41782	88968	38926	74980	89557
								81%	47%	82%	50%	73%	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	350.5684692620712
[deg] Pointing Dec	0	20.97924000343055
[deg] Pointing Roll	0.0	178.1967651041648
SIM focus pos (mm)	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	526859221.505445	526859221.505445
Observation start date	2014-09-11T21:47:02	2014-09-11T21:47:01
[s] Observation end time (MET)	526865645.941672	526865645.941672
Observation end date	2014-09-11T23:34:06	2014-09-11T23:34:05
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	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.09.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.911999981761

### A.2 Comments