

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 52456 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Sep 23 2014

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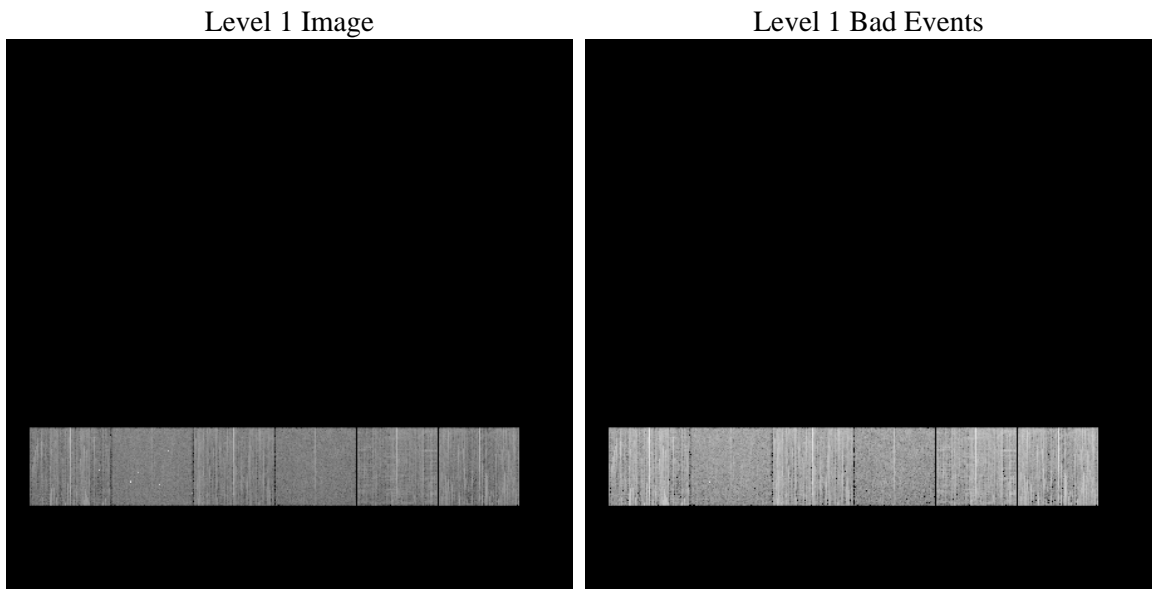
# 1 Front

seq_num	&#160	Sequence number
obs_id	52456	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycle	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	334.61336012665	Nominal RA [deg]
dec_nom	3.3735199363144	Nominal Dec [deg]
roll_nom	262.04047392621	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4672.6748116612	Sum of GTIs [s]
livetime	4613.506589649	Livetime [s]
ontime4	4675.1999826431	Sum of GTIs [s]
ontime5	4675.1999826431	Sum of GTIs [s]
ontime6	4675.1999826431	Sum of GTIs [s]
ontime7	4672.6748116612	Sum of GTIs [s]
ontime8	4675.1999826431	Sum of GTIs [s]
ontime9	4672.6337716579	Sum of GTIs [s]
l2events	125070	Number of level 2 events

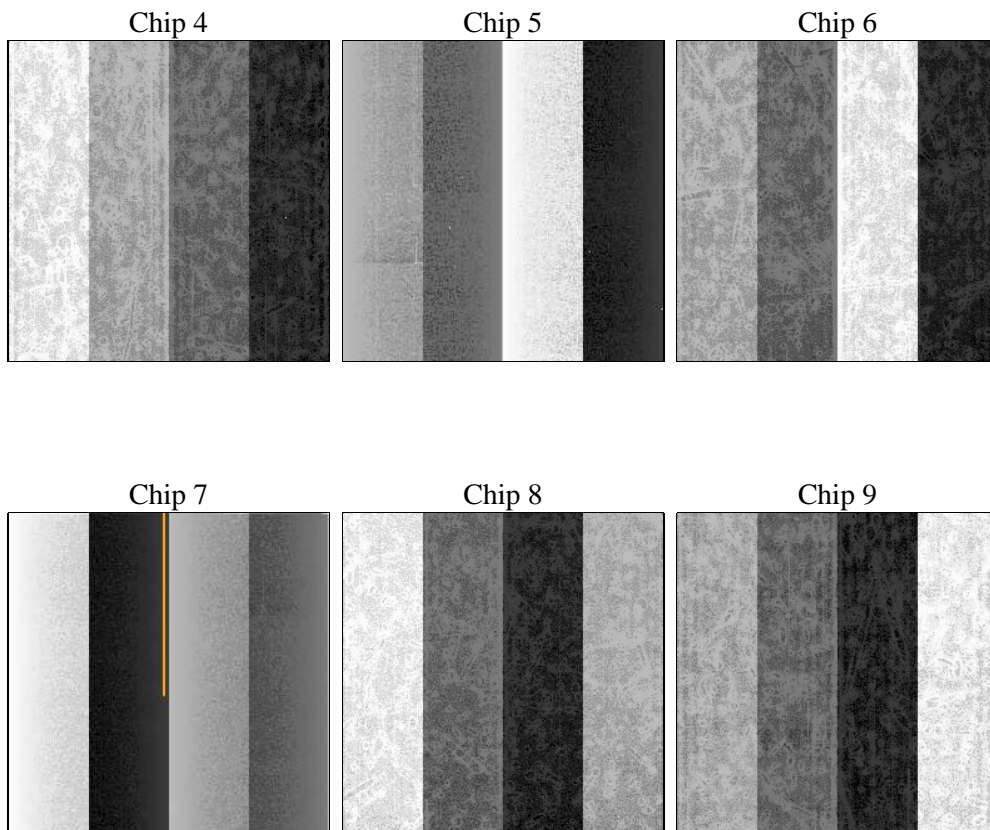
## 2 OBI

### 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	10.2.4	Processing system revision	ontime	4672.6748116612	Sum of GTIs [s]
caldbver	4.6.3	&#160	ontime4	4675.1999826431	Sum of GTIs [s]
date	2014-09-23T04:12:11	Date and time of file creation	ontime5	4675.1999826431	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	4675.1999826431	Sum of GTIs [s]
			ontime7	4672.6748116612	Sum of GTIs [s]
			ontime8	4675.1999826431	Sum of GTIs [s]
			ontime9	4672.6337716579	Sum of GTIs [s]
			l1events	530358	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	89524	81272	93460	72473	94922	98707
rejected events	72505	44488	76560	40628	72444	81853
rejected %	80%	54%	81%	56%	76%	82%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	9198	5349	7981	4450	9523	8124
	10%	6%	8%	6%	10%	8%
grade 1 events	76	121	44	36	64	45
	0%	0%	0%	0%	0%	0%
grade 2 events	3140	12645	3556	7757	4701	3358
	3%	15%	3%	10%	4%	3%
grade 3 events	1091	1570	1178	2536	1800	1159
	1%	1%	1%	3%	1%	1%
grade 4 events	1167	1325	1063	2424	1677	1117
	1%	1%	1%	3%	1%	1%
grade 5 events	1902	3888	1949	4658	2542	2053
	2%	4%	2%	6%	2%	2%
grade 6 events	2423	15895	3122	14678	4777	3096
	2%	19%	3%	20%	5%	3%
grade 7 events	70527	40479	74567	35934	69838	79755
	78%	49%	79%	49%	73%	80%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	334.6133601266496	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	3.373519936314377	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	262.0404739262078	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	527776631.406377	527776630.38138			
Observation start date	2014-09-22T12:37:11	2014-09-22T12:37:10			
[s] Observation end time (MET)	527787711.656992	527787710.63199			
Observation end date	2014-09-22T15:41:52	2014-09-22T15:41:50			
Read mode	TIMED	TIMED			

**2.3 Star Slots**

**2.4 FID Slots**

# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.6726748116612

## A.2 Comments