

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 52140 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 25 2015

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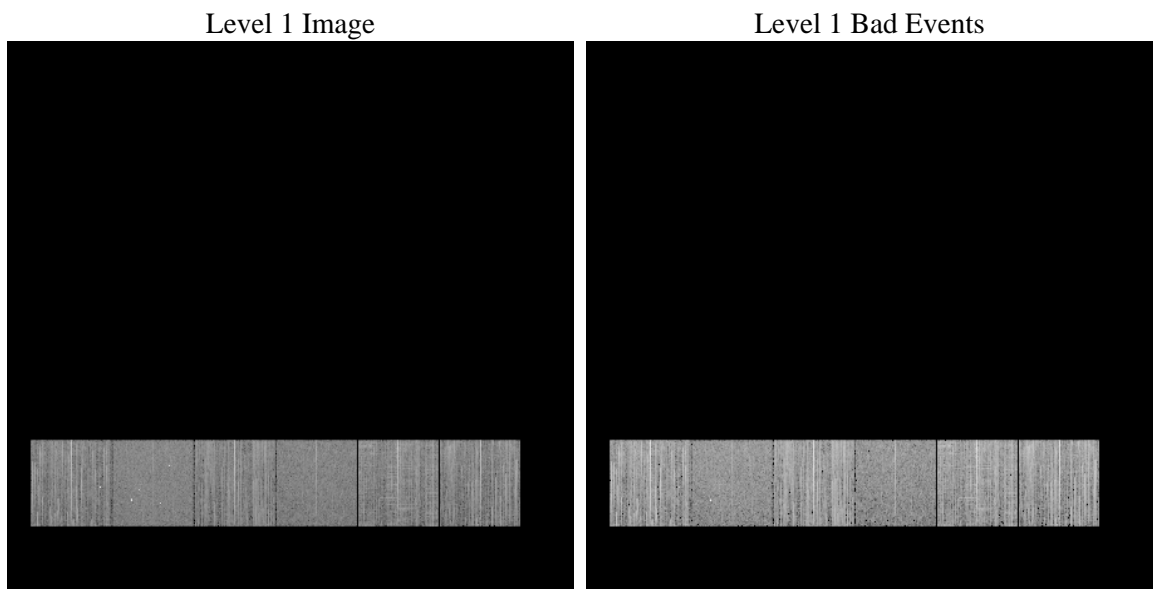
# 1 Front

seq_num	&#160	Sequence number
obs_id	52140	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	116.10562544925	Nominal RA [deg]
dec_nom	40.531881647439	Nominal Dec [deg]
roll_nom	190.46532278102	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4934.4000735283	Sum of GTIs [s]
livetime	4871.9177286583	Livetime [s]
ontime4	4934.4000735283	Sum of GTIs [s]
ontime5	4934.4000735283	Sum of GTIs [s]
ontime6	4934.4000735283	Sum of GTIs [s]
ontime7	4934.4000735283	Sum of GTIs [s]
ontime8	4934.4000735283	Sum of GTIs [s]
ontime9	4934.4000735283	Sum of GTIs [s]
l2events	112673	Number of level 2 events

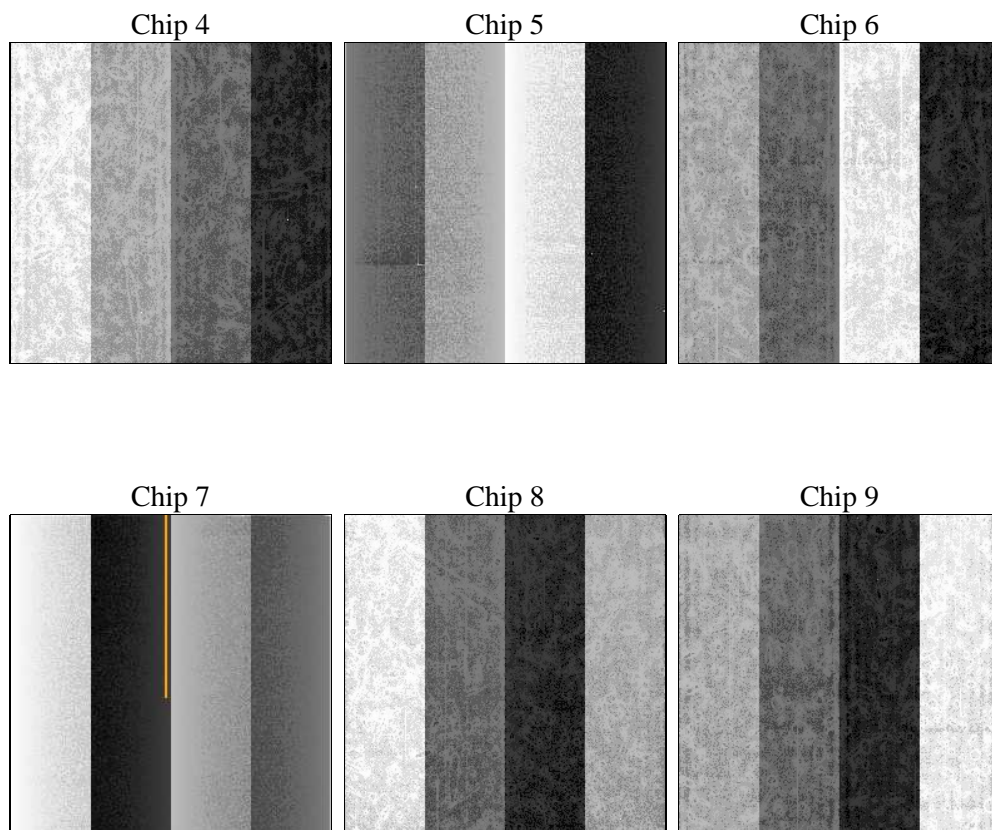
## 2 OBI

### 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	10.3.3	Processing system revision	ontime	4934.4000735283	Sum of GTIs [s]
caldsver	4.6.6	&#160	ontime4	4934.4000735283	Sum of GTIs [s]
date	2015-01-25T19:15:31	Date and time of file creation	ontime5	4934.4000735283	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	4934.4000735283	Sum of GTIs [s]
			ontime7	4934.4000735283	Sum of GTIs [s]
			ontime8	4934.4000735283	Sum of GTIs [s]
			ontime9	4934.4000735283	Sum of GTIs [s]
			l1events	509628	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	88047	79682	88777	71623	91973	89526
rejected events	72473	45979	74195	41857	71989	75437
rejected %	82%	57%	83%	58%	78%	84%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	8976	4159	7242	3983	8757	7260
	10%	5%	8%	5%	9%	8%
grade 1 events	60	78	35	53	60	53
	0%	0%	0%	0%	0%	0%
grade 2 events	2997	12486	3200	7514	4469	2885
	3%	15%	3%	10%	4%	3%
grade 3 events	1124	1174	999	2539	1642	1020
	1%	1%	1%	3%	1%	1%
grade 4 events	1055	1106	1007	2448	1693	1036
	1%	1%	1%	3%	1%	1%
grade 5 events	1999	3713	1883	4638	2581	2054
	2%	4%	2%	6%	2%	2%
grade 6 events	2081	16181	2691	14449	4189	2515
	2%	20%	3%	20%	4%	2%
grade 7 events	69755	40785	71720	35999	68582	72703
	79%	51%	80%	50%	74%	81%

## 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	116.1056254492484
[deg] Pointing Dec	0	40.53188164743948
[deg] Pointing Roll	0.0	190.4653227810232
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)	538512102.754144	538512102.754144
Observation start date	2015-01-24T18:41:43	2015-01-24T18:41:42
[s] Observation end time (MET)	538518501.921382	538518501.921382
Observation end date	2015-01-24T20:28:22	2015-01-24T20:28:21
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)	2015.01.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9344000735283

### **A.2 Comments**