

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 51575 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 8 2015

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Star Slots . . . . .	6
2.4	FID Slots . . . . .	6
<b>A</b>	<b>Summary</b>	<b>7</b>
A.1	Status . . . . .	7
A.2	Comments . . . . .	7

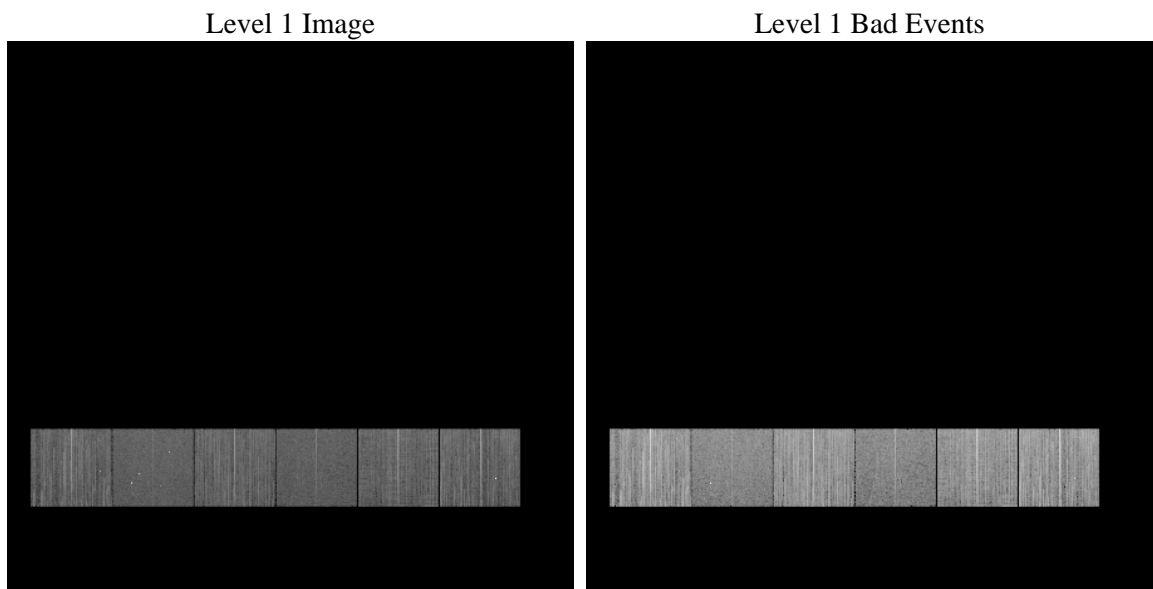
# 1 Front

seq_num	&#160	Sequence number
obs_id	51575	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	24.580505415105	Nominal RA [deg]
dec_nom	-9.5251513482894	Nominal Dec [deg]
roll_nom	36.76486380338	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8236.8001227379	Sum of GTIs [s]
livetime	8132.5007999782	Livetime [s]
ontime4	8236.8001227379	Sum of GTIs [s]
ontime5	8236.8001227379	Sum of GTIs [s]
ontime6	8236.8001227379	Sum of GTIs [s]
ontime7	8236.8001227379	Sum of GTIs [s]
ontime8	8236.8001227379	Sum of GTIs [s]
ontime9	8236.8001227379	Sum of GTIs [s]
l2events	225633	Number of level 2 events

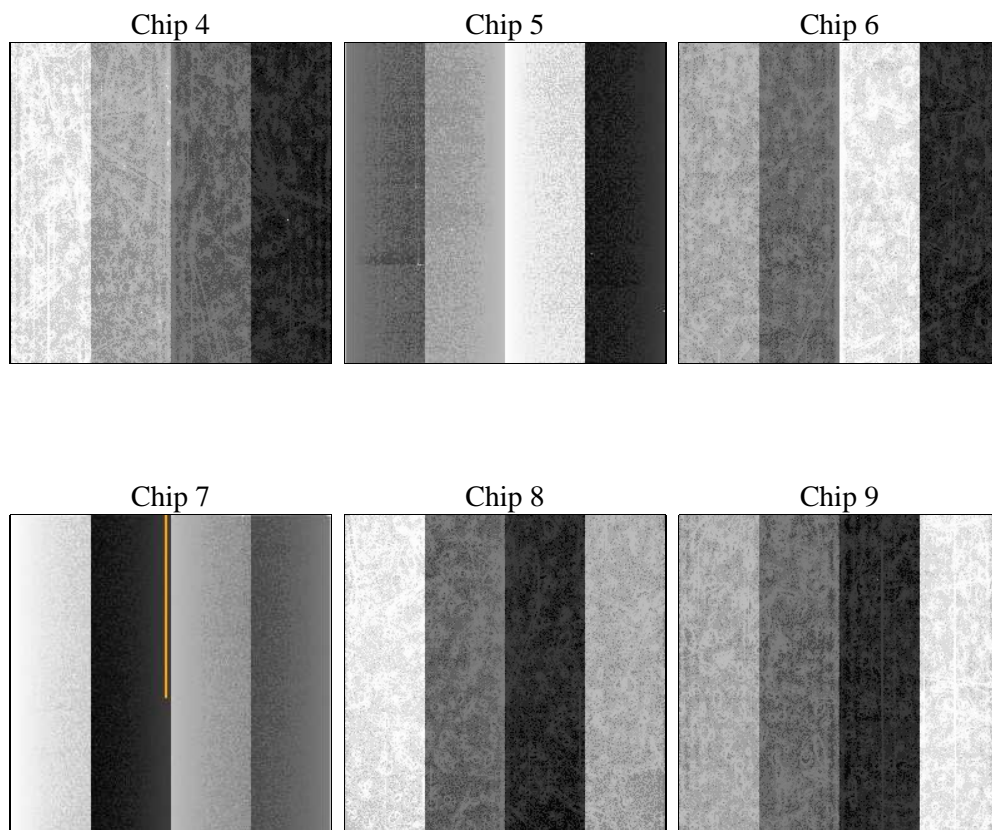
## 2 OBI

### 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	8236.8001227379	Sum of GTIs [s]
caldsver	4.6.10a	&#160	ontime4	8236.8001227379	Sum of GTIs [s]
date	2015-10-08T15:15:55	Date and time of file creation	ontime5	8236.8001227379	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8236.8001227379	Sum of GTIs [s]
			ontime7	8236.8001227379	Sum of GTIs [s]
			ontime8	8236.8001227379	Sum of GTIs [s]
			ontime9	8236.8001227379	Sum of GTIs [s]
			l1events	946287	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	165919	140473	164763	127273	165003	182856	grade 0 events	15884	7155	13927	7956	17202	21608
rejected events	135337	77927	133779	70935	123089	142488		9%	5%	8%	6%	10%	11%
rejected %	81%	55%	81%	55%	74%	77%	grade 1 events	125	153	81	90	102	169
								0%	0%	0%	0%	0%	0%
							grade 2 events	5875	23784	6822	14103	8834	8644
								3%	16%	4%	11%	5%	4%
							grade 3 events	2118	1854	1934	4253	3291	2043
								1%	1%	1%	3%	1%	1%
							grade 4 events	2127	1825	2018	4368	3312	2075
								1%	1%	1%	3%	2%	1%
							grade 5 events	3181	6350	3271	7829	4299	3441
								1%	4%	1%	6%	2%	1%
							grade 6 events	4783	28218	6491	25959	9562	6242
								2%	20%	3%	20%	5%	3%
							grade 7 events	131826	71134	130219	62715	118401	138634
								79%	50%	79%	49%	71%	75%

## 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	24.58050541510482	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-9.525151348289404	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	36.76486380337952	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.7809083437167272			
[mm] SIM defocus	0.1037507710433287	0.7524282956875696			
[mm] SIM translation stage pos	250.455976	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	560674203.787811	560674202.76281			
Observation start date	2015-10-08T06:50:04	2015-10-08T06:50:02			
[s] Observation end time (MET)	560683890.038359	560683889.01336			
Observation end date	2015-10-08T09:31:30	2015-10-08T09:31:29			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2368001227379

### A.2 Comments