

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 51559 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 16 2015

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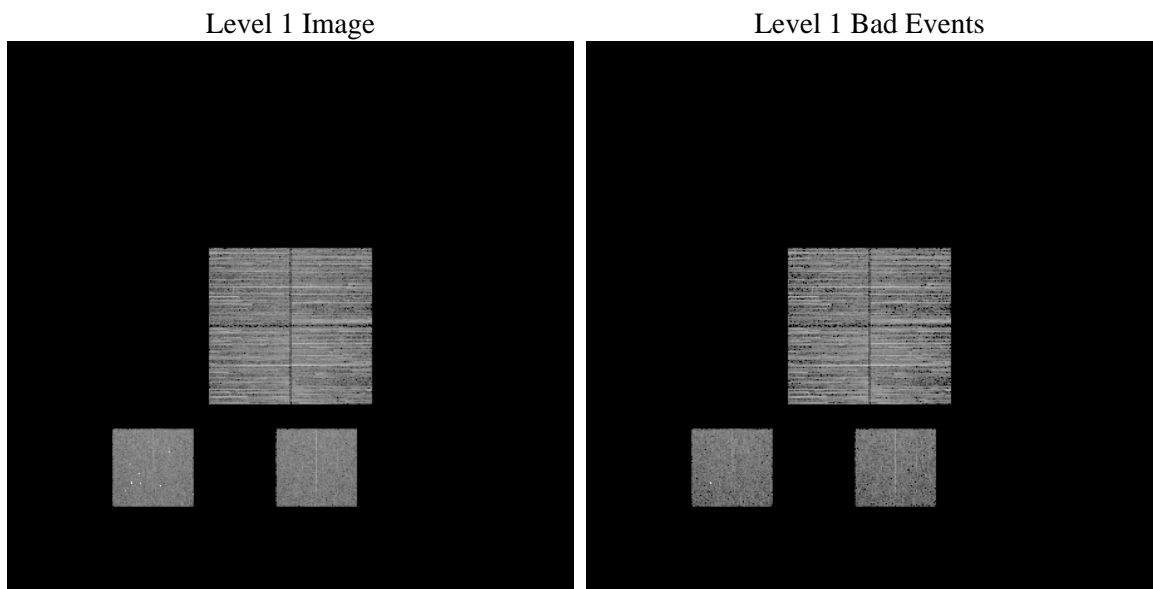
# 1 Front

seq_num	&#160	Sequence number
obs_id	51559	Observation id
title	ACIS-012357 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	7.4269468781111	Nominal RA [deg]
dec_nom	30.446815134479	Nominal Dec [deg]
roll_nom	213.40029638714	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3372.8000502586	Sum of GTIs [s]
livetime	3330.0916251659	Livetime [s]
ontime0	3372.8000502586	Sum of GTIs [s]
ontime1	3372.8000502586	Sum of GTIs [s]
ontime2	3372.8000502586	Sum of GTIs [s]
ontime3	3372.8000502586	Sum of GTIs [s]
ontime5	3372.8000502586	Sum of GTIs [s]
ontime7	3372.8000502586	Sum of GTIs [s]
l2events	69796	Number of level 2 events

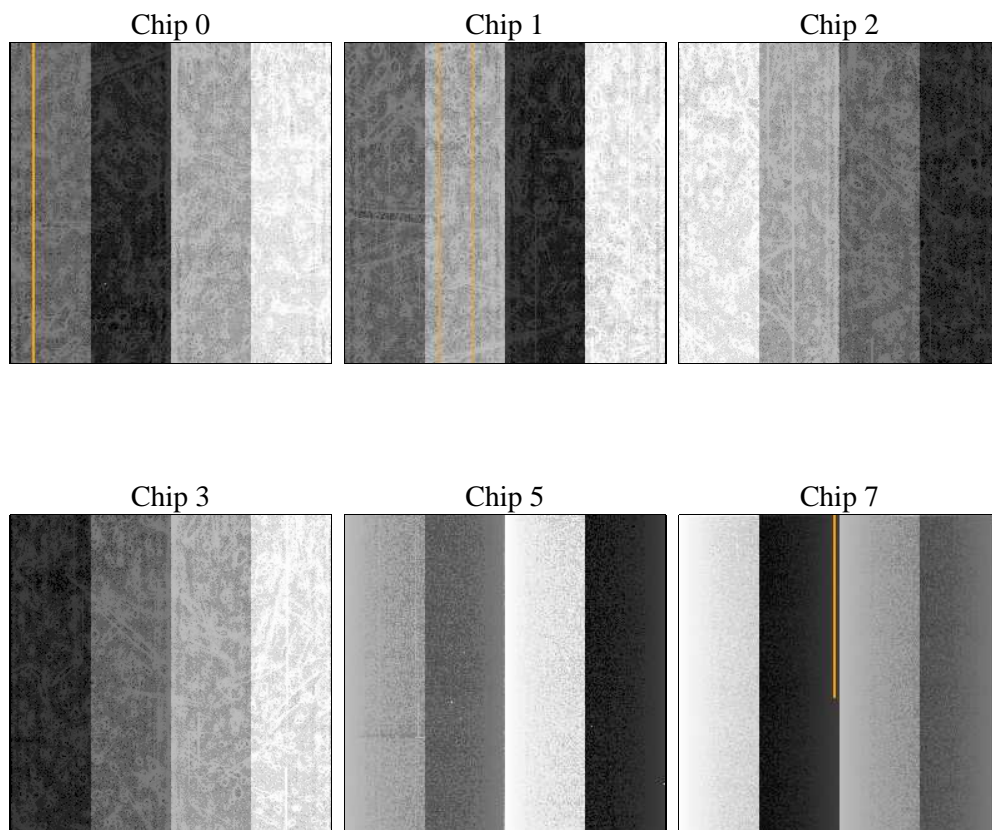
## 2 OBI

### 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	10.4.2.1	Processing system revision	ontime	3372.8000502586	Sum of GTIs [s]
caldbver	4.6.10a	&#160	ontime0	3372.8000502586	Sum of GTIs [s]
date	2015-10-16T23:29:58	Date and time of file creation	ontime1	3372.8000502586	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3372.8000502586	Sum of GTIs [s]
			ontime3	3372.8000502586	Sum of GTIs [s]
			ontime5	3372.8000502586	Sum of GTIs [s]
			ontime7	3372.8000502586	Sum of GTIs [s]
			l1events	359958	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	57545	61257	66624	67370	57448	49714	grade 0 events	4140	3829	4225	4158	5332	2182
rejected events	49145	52720	58252	58967	32404	30386		7%	6%	6%	6%	9%	4%
rejected %	85%	86%	87%	87%	56%	61%	grade 1 events	32	20	35	22	97	32
								0%	0%	0%	0%	0%	0%
							grade 2 events	1860	2128	1778	1886	8176	4910
								3%	3%	2%	2%	14%	9%
							grade 3 events	568	566	612	587	645	1388
								0%	0%	0%	0%	1%	2%
							grade 4 events	546	555	582	605	633	1351
								0%	0%	0%	0%	1%	2%
							grade 5 events	1135	1191	1133	1320	2414	2995
								1%	1%	1%	1%	4%	6%
							grade 6 events	1531	1672	1389	1370	10900	9975
								2%	2%	2%	2%	18%	20%
							grade 7 events	47733	51296	56870	57422	29251	26881
								82%	83%	85%	85%	50%	54%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	7.426946878111103
[deg] Pointing Dec	0	30.44681513447859
[deg] Pointing Roll	0.0	213.4002963871438
[mm] SIM focus pos	-1.429586	-0.6828225247311905
[mm] SIM defocus	0.1037507710433287	0.8505141146731063
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	561400274.87888	561400273.85388
Observation start date	2015-10-16T16:31:15	2015-10-16T16:31:13
[s] Observation end time (MET)	561407675.379298	561407674.3543
Observation end date	2015-10-16T18:34:35	2015-10-16T18:34:34
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	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.10.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.3728000502586

### A.2 Comments