

# V&V Reference Report

## L2 ASCDS Version : 10.2.2

Observation 52778 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 13 2014

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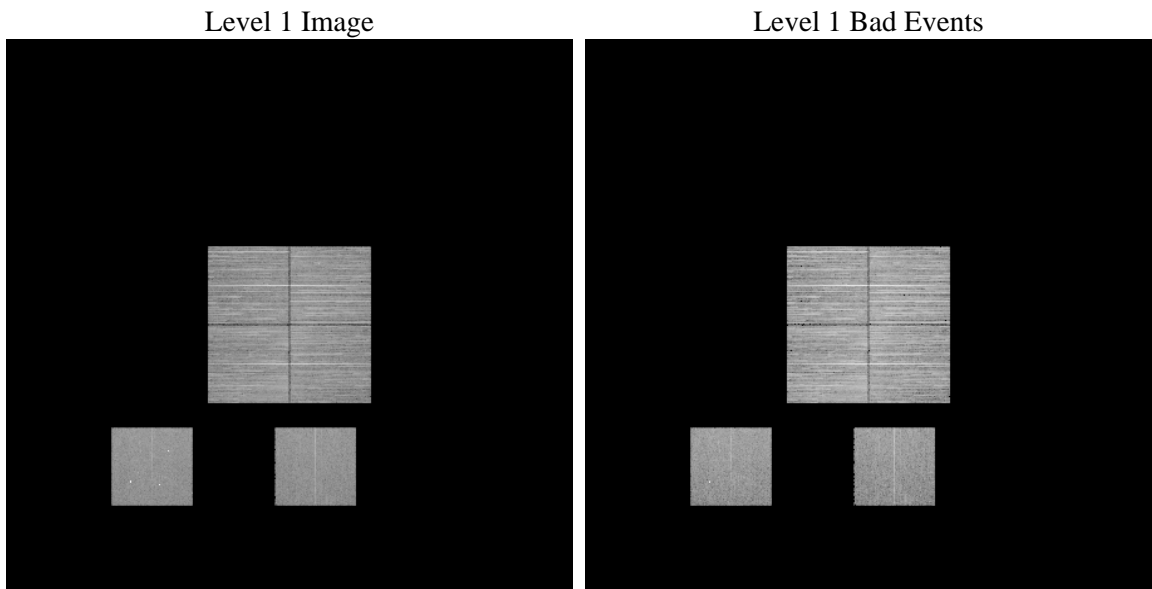
# 1 Front

seq_num	&#160	Sequence number
obs_id	52778	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	219.88160937466	Nominal RA [deg]
dec_nom	-42.562543727344	Nominal Dec [deg]
roll_nom	337.93996693899	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8249.5999693274	Sum of GTIs [s]
livetime	8145.1385672031	Livetime [s]
ontime0	8249.5999693274	Sum of GTIs [s]
ontime1	8249.5999693274	Sum of GTIs [s]
ontime2	8249.5999693274	Sum of GTIs [s]
ontime3	8249.5999693274	Sum of GTIs [s]
ontime5	8249.5999693274	Sum of GTIs [s]
ontime7	8249.5999693274	Sum of GTIs [s]
l2events	204406	Number of level 2 events

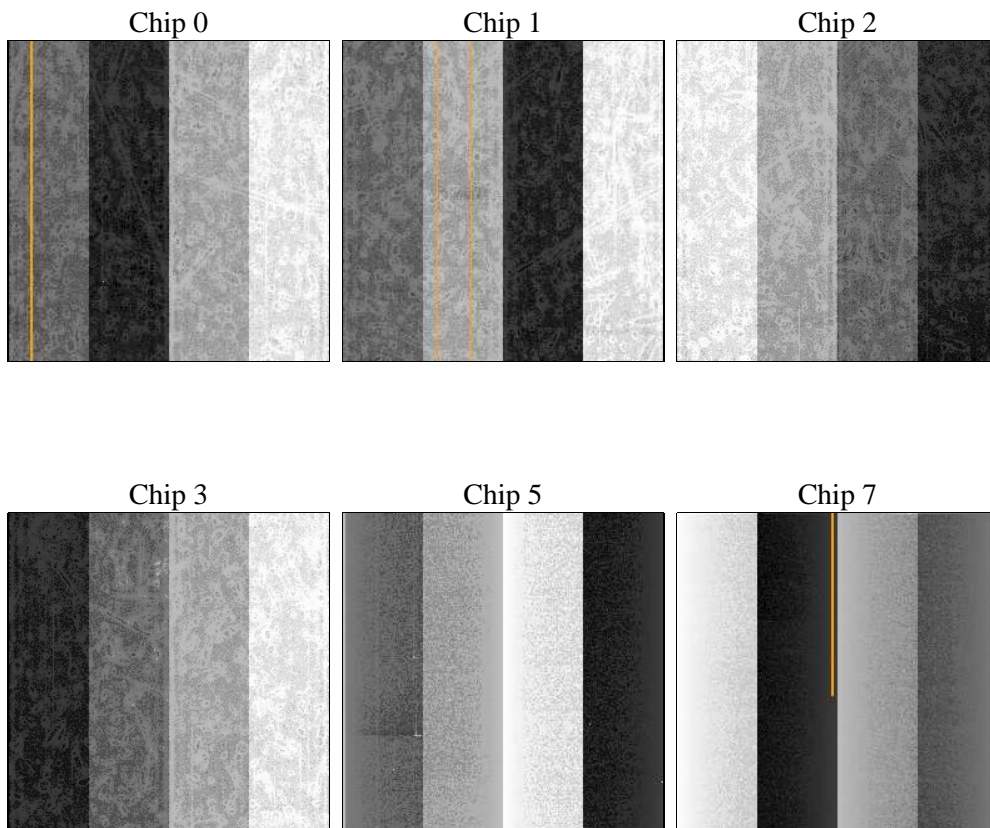
## 2 OBI

### 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	10.2.2	Processing system revision	ontime	8249.5999693274	Sum of GTIs [s]
caldsver	4.6.1	&#160	ontime0	8249.5999693274	Sum of GTIs [s]
date	2014-05-13T17:30:16	Date and time of file creation	ontime1	8249.5999693274	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8249.5999693274	Sum of GTIs [s]
			ontime3	8249.5999693274	Sum of GTIs [s]
			ontime5	8249.5999693274	Sum of GTIs [s]
			ontime7	8249.5999693274	Sum of GTIs [s]
			l1events	839303	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	141522	158505	149196	138054	131063	120963	grade 0 events	13393	12959	13509	13696	8044	7381
rejected events	115027	131675	122882	111298	71534	68140		9%	8%	9%	9%	6%	6%
rejected %	81%	83%	82%	80%	54%	56%	grade 1 events	77	77	66	77	116	92
								0%	0%	0%	0%	0%	0%
							grade 2 events	5413	5818	5148	5156	21575	12818
								3%	3%	3%	3%	16%	10%
							grade 3 events	1873	1787	1885	1887	2039	4325
								1%	1%	1%	1%	1%	3%
							grade 4 events	1775	1897	1821	2002	1949	4306
								1%	1%	1%	1%	1%	3%
							grade 5 events	2853	3010	2668	3119	6289	7552
								2%	1%	1%	2%	4%	6%
							grade 6 events	4185	4490	4089	4143	26203	24263
								2%	2%	2%	3%	19%	20%
							grade 7 events	111953	128467	120010	107974	64848	60226
								79%	81%	80%	78%	49%	49%

## 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	219.8816093746627
[deg] Pointing Dec	0	-42.56254372734416
[deg] Pointing Roll	0.0	337.9399669389887
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)	516345695.473226	516345695.473226
Observation start date	2014-05-13T05:21:35	2014-05-13T05:21:35
[s] Observation end time (MET)	516355243.603242	516355243.603242
Observation end date	2014-05-13T08:00:44	2014-05-13T08:00:43
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)	2014.05.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2495999693274

### A.2 Comments