

# V&V Reference Report

## L2 ASCDS Version : 10.2.1

Observation 52999 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Feb 15 2014

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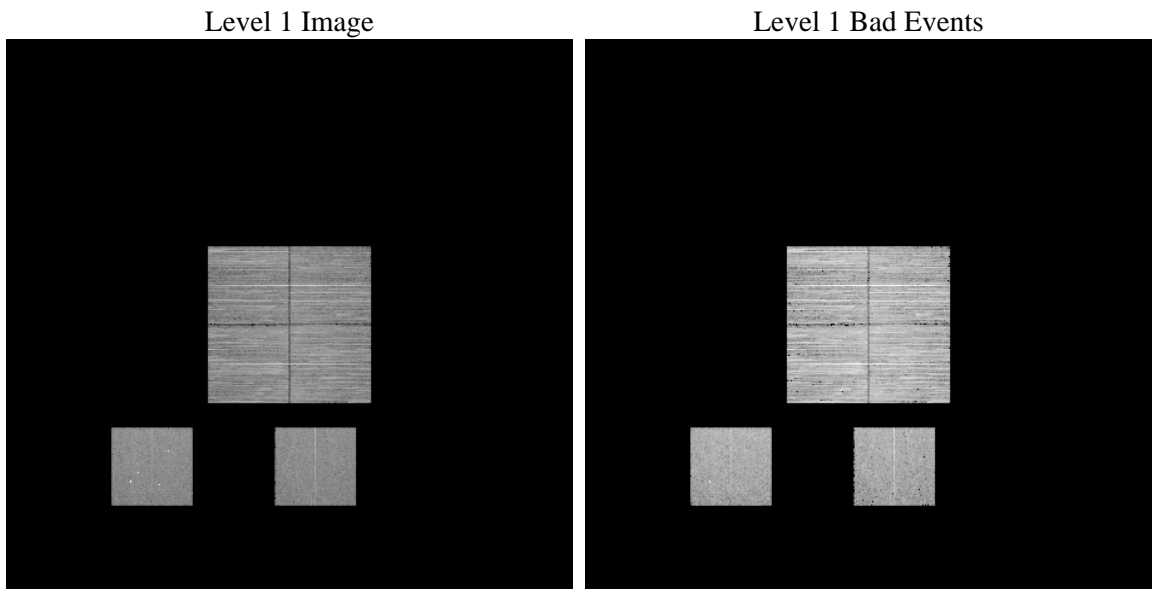
# 1 Front

seq_num	&#160	Sequence number
obs_id	52999	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	245.97862162108	Nominal RA [deg]
dec_nom	-47.974982230702	Nominal Dec [deg]
roll_nom	87.004446202985	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6133.9442229867	Sum of GTIs [s]
livetime	6056.2725278175	Livetime [s]
ontime0	6133.9031829834	Sum of GTIs [s]
ontime1	6133.8621429801	Sum of GTIs [s]
ontime2	6133.8211029768	Sum of GTIs [s]
ontime3	6133.98526299	Sum of GTIs [s]
ontime5	6133.7800629735	Sum of GTIs [s]
ontime7	6133.9442229867	Sum of GTIs [s]
l2events	151838	Number of level 2 events

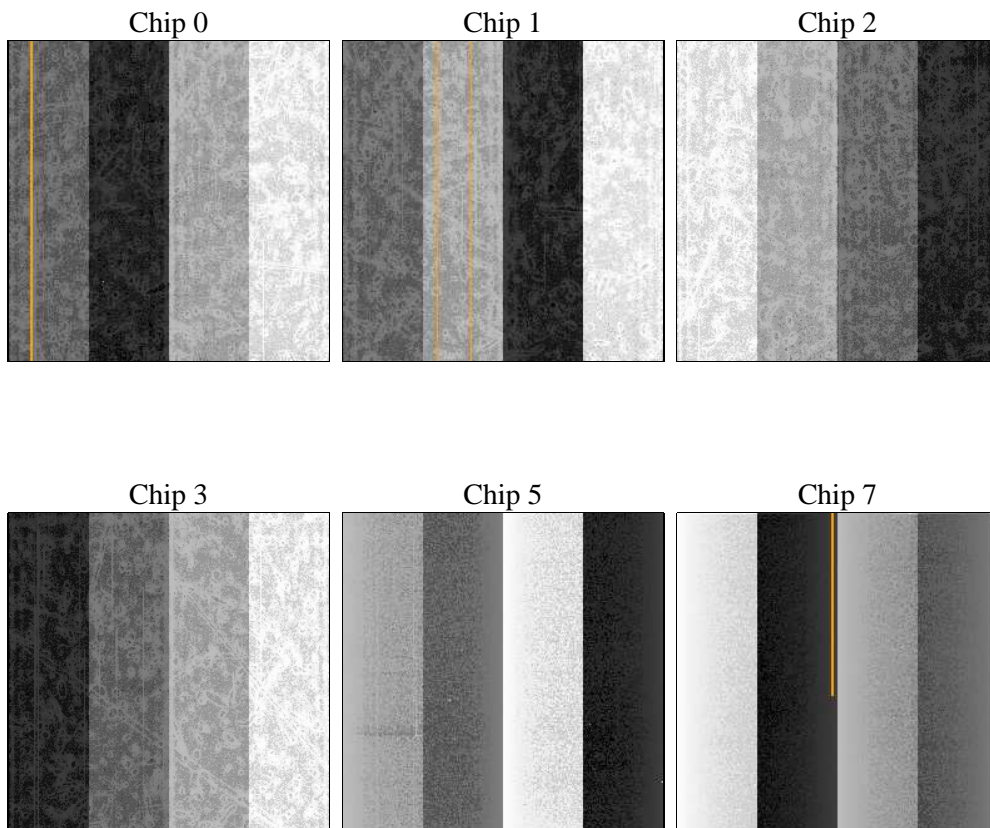
## 2 OBI

### 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	10.2.1	Processing system revision	ontime	6133.9442229867	Sum of GTIs [s]
caldbver	4.6.0	&#160	ontime0	6133.9031829834	Sum of GTIs [s]
date	2014-02-15T09:32:03	Date and time of file creation	ontime1	6133.8621429801	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6133.8211029768	Sum of GTIs [s]
			ontime3	6133.98526299	Sum of GTIs [s]
			ontime5	6133.7800629735	Sum of GTIs [s]
			ontime7	6133.9442229867	Sum of GTIs [s]
			l1events	616218	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	103819	104343	110997	113642	95281	88136	grade 0 events	10071	9825	10490	10999	7112	5081
rejected events	83547	83827	90716	92784	51134	50049		9%	9%	9%	9%	7%	5%
rejected %	80%	80%	81%	81%	53%	56%	grade 1 events	60	34	49	57	203	58
								0%	0%	0%	0%	0%	0%
							grade 2 events	4209	4662	4120	4109	15537	9500
								4%	4%	3%	3%	16%	10%
							grade 3 events	1410	1440	1454	1421	1192	2962
								1%	1%	1%	1%	1%	3%
							grade 4 events	1440	1354	1426	1426	1252	2926
								1%	1%	1%	1%	1%	3%
							grade 5 events	2015	2006	2003	2238	3949	5048
								1%	1%	1%	1%	4%	5%
							grade 6 events	3365	3496	3041	3132	19498	18032
								3%	3%	2%	2%	20%	20%
							grade 7 events	81249	81526	88414	90260	46538	44529
								78%	78%	79%	79%	48%	50%

## 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	245.9786216210809
[deg] Pointing Dec	0	-47.97498223070194
[deg] Pointing Roll	0.0	87.00444620298543
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)	508810309.157833	508810309.157833
Observation start date	2014-02-15T00:11:49	2014-02-15T00:11:49
[s] Observation end time (MET)	508817772.168165	508817772.168165
Observation end date	2014-02-15T02:16:12	2014-02-15T02:16:12
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	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.02.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.1339442229867

### A.2 Comments