

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 54101 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Dec 11 2012

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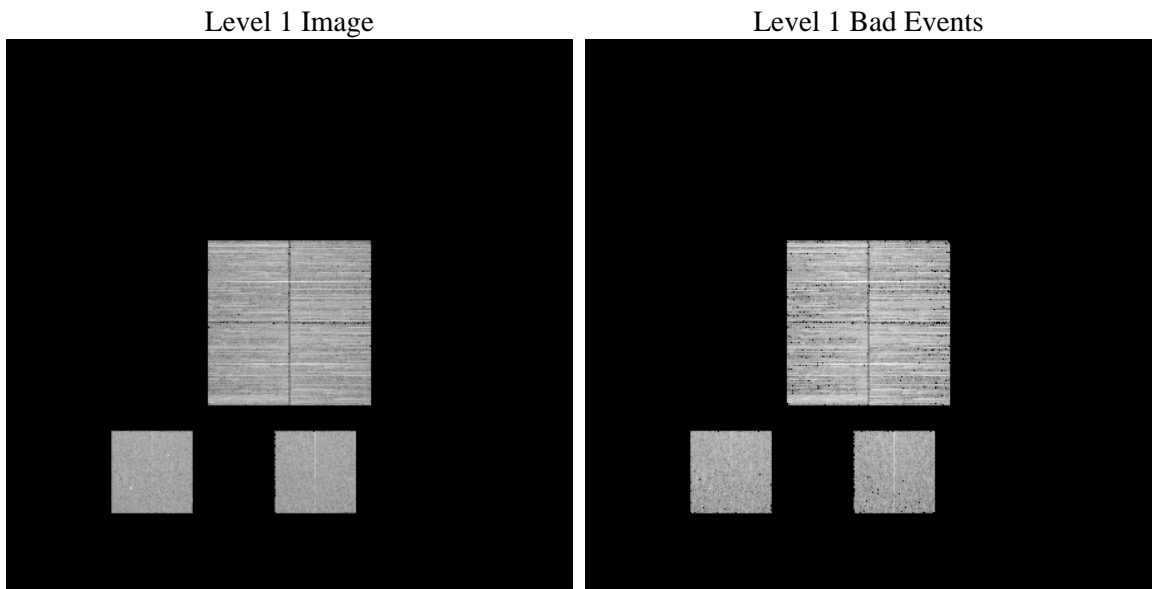
# 1 Front

seq_num	&#160	Sequence number
obs_id	54101	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	99.002511365761	Nominal RA [deg]
dec_nom	9.0285752448381	Nominal Dec [deg]
roll_nom	52.15586315667	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4134.3999846578	Sum of GTIs [s]
livetime	4082.0477226152	Livetime [s]
ontime0	4134.3999846578	Sum of GTIs [s]
ontime1	4134.3999846578	Sum of GTIs [s]
ontime2	4134.3999846578	Sum of GTIs [s]
ontime3	4134.3999846578	Sum of GTIs [s]
ontime5	4134.3999846578	Sum of GTIs [s]
ontime7	4134.3999846578	Sum of GTIs [s]
l2events	129057	Number of level 2 events

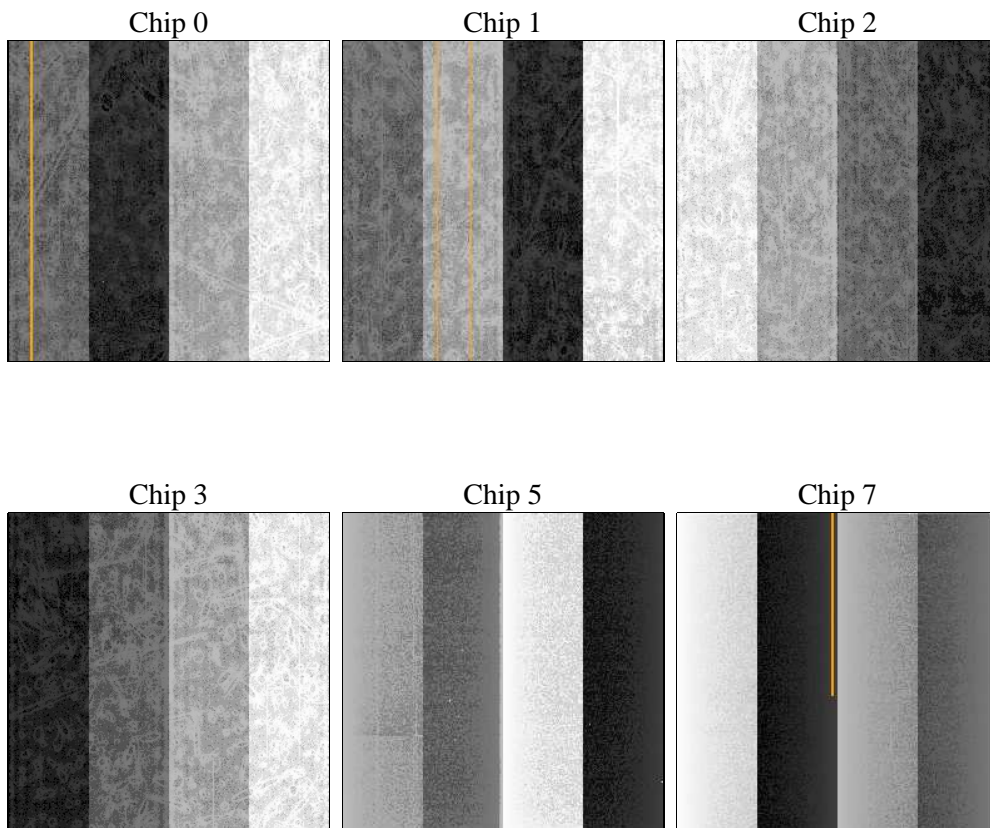
## 2 OBI

### 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	8.5	Processing system revision	ontime	4134.3999846578	Sum of GTIs [s]
caldbver	4.5.4	&#160	ontime0	4134.3999846578	Sum of GTIs [s]
date	2012-12-11T16:16:45	Date and time of file creation	ontime1	4134.3999846578	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4134.3999846578	Sum of GTIs [s]
			ontime3	4134.3999846578	Sum of GTIs [s]
			ontime5	4134.3999846578	Sum of GTIs [s]
			ontime7	4134.3999846578	Sum of GTIs [s]
			l1events	465204	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	82094	82714	80763	81790	70575	67268	grade 0 events	8947	8926	9490	9632	3675	4806
rejected events	64528	64924	62740	63697	37691	35335		10%	10%	11%	11%	5%	7%
rejected %	78%	78%	77%	77%	53%	52%	grade 1 events	44	40	47	59	65	42
								0%	0%	0%	0%	0%	0%
							grade 2 events	3459	3595	3414	3311	12260	7896
								4%	4%	4%	4%	17%	11%
							grade 3 events	1262	1184	1251	1260	1275	2666
								1%	1%	1%	1%	1%	3%
							grade 4 events	1175	1186	1230	1249	1198	2630
								1%	1%	1%	1%	1%	3%
							grade 5 events	1561	1611	1388	1722	3202	4058
								1%	1%	1%	2%	4%	6%
							grade 6 events	2723	2899	2638	2641	14476	13935
								3%	3%	3%	3%	20%	20%
							grade 7 events	62923	63273	61305	61916	34424	31235
								76%	76%	75%	75%	48%	46%

## 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	99.00251136576092
[deg] Pointing Dec	0	9.028575244838054
[deg] Pointing Roll	0.0	52.15586315667015
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	471588674.43195	471588673.40695
Observation start date	2012-12-11T04:51:14	2012-12-11T04:51:13
[s] Observation end time (MET)	471597181.932408	471597180.90741
Observation end date	2012-12-11T07:13:02	2012-12-11T07:13:00
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	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.1343999846578

### **A.2 Comments**