

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 57270 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : May 31 2012

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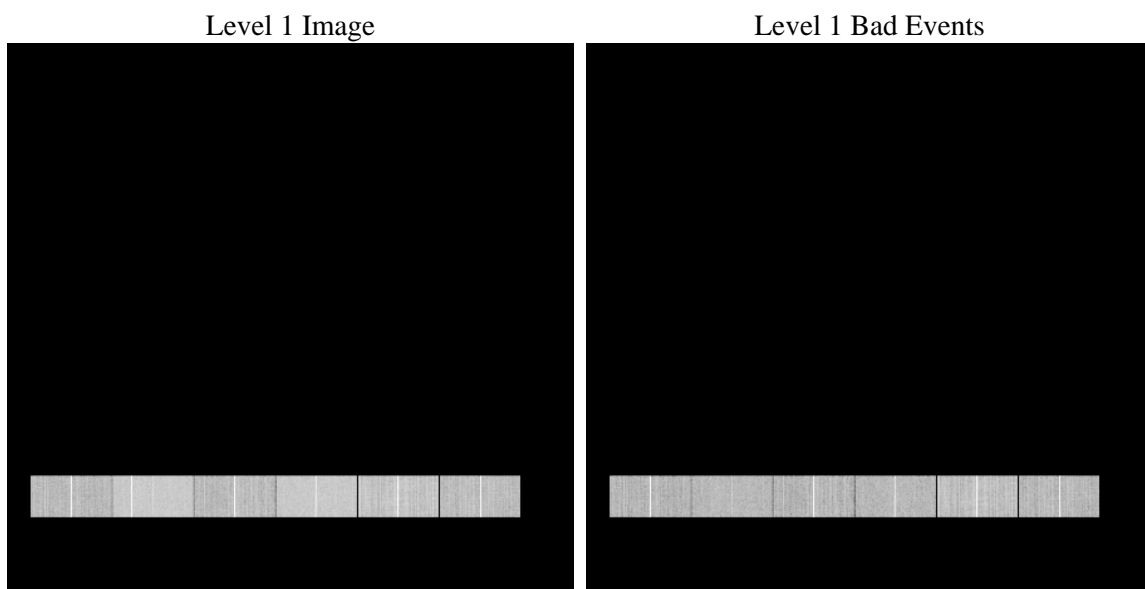
# 1 Front

seq_num	&#160	Sequence number
obs_id	57270	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
ra_targ	0.0	Observer's specified target RA [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	157.02535014769	Nominal RA [deg]
dec_nom	-14.985173675618	Nominal Dec [deg]
roll_nom	358.16570110274	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4214.3879185319	Sum of GTIs [s]
livetime	4197.9254657251	Livetime [s]
ontime4	2302.0594382286	Sum of GTIs [s]
ontime5	4221.6839185357	Sum of GTIs [s]
ontime6	2518.0191107392	Sum of GTIs [s]
ontime7	4214.3879185319	Sum of GTIs [s]
ontime8	2500.5084130168	Sum of GTIs [s]
ontime9	2499.0496900678	Sum of GTIs [s]
l2events	173839	Number of level 2 events

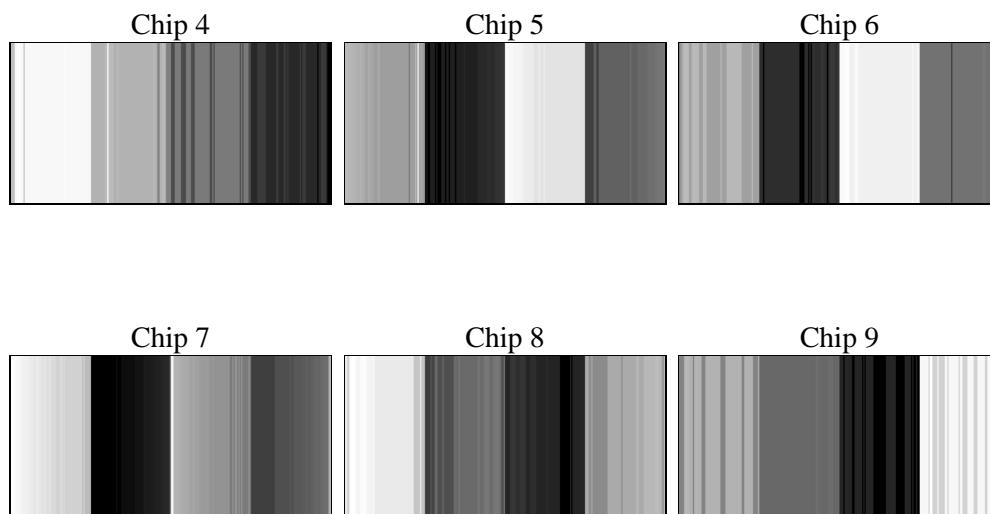
## 2 OBI

### 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	8.4.4	Processing system revision	ontime	4214.3879185319	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime4	2302.0594382286	Sum of GTIs [s]
date	2012-05-31T16:03:04	Date and time of file creation	ontime5	4221.6839185357	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	2518.0191107392	Sum of GTIs [s]
			ontime7	4214.3879185319	Sum of GTIs [s]
			ontime8	2500.5084130168	Sum of GTIs [s]
			ontime9	2499.0496900678	Sum of GTIs [s]
			l1events	714201	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	93762	150256	98299	140608	130922	100354	grade 0 events	2565	12365	2535	8803	4916	2768
rejected events	80829	77068	82341	78356	111736	85188		2%	8%	2%	6%	3%	2%
rejected %	86%	51%	83%	55%	85%	84%	grade 1 events	37	69	30	93	56	44
								0%	0%	0%	0%	0%	0%
							grade 2 events	13652	28779	15304	18602	16315	14616
								14%	19%	15%	13%	12%	14%
							grade 3 events	639	1578	783	4025	1412	677
								0%	1%	0%	2%	1%	0%
							grade 4 events	775	1552	711	4042	1423	787
								0%	1%	0%	2%	1%	0%
							grade 5 events	1241	4918	1385	5705	1790	1438
								1%	3%	1%	4%	1%	1%
							grade 6 events	4297	29090	5578	26927	7192	5264
								4%	19%	5%	19%	5%	5%
							grade 7 events	70556	71905	71973	72411	97818	74760
								75%	47%	73%	51%	74%	74%

## 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	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	157.0253501476896	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-14.98517367561817	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	358.1657011027386	[s] Primary exposure time	0	0
[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)	351873487.356409	351873486.33141			
Observation start date	2009-02-24T14:38:07	2009-02-24T14:38:06			
[s] Observation end time (MET)	351881781.65682	351881780.63182			
Observation end date	2009-02-24T16:56:22	2009-02-24T16:56:20			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Star Slots

## 2.4 FID Slots

# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.2143879185319

## A.2 Comments

Gap in events collected for 200-300 sec, starting at about Feb. 24, 2009, 16:35. Chips have no good time marked during this interval. The cause is a commanding issue. The gap in events corresponds to a switch to format 4, during which the telemetry only contains engineering data.