

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 61975 - L2 Version 001  
Chandra X-Ray Center

L2 Processing Date : Jun 2 2007

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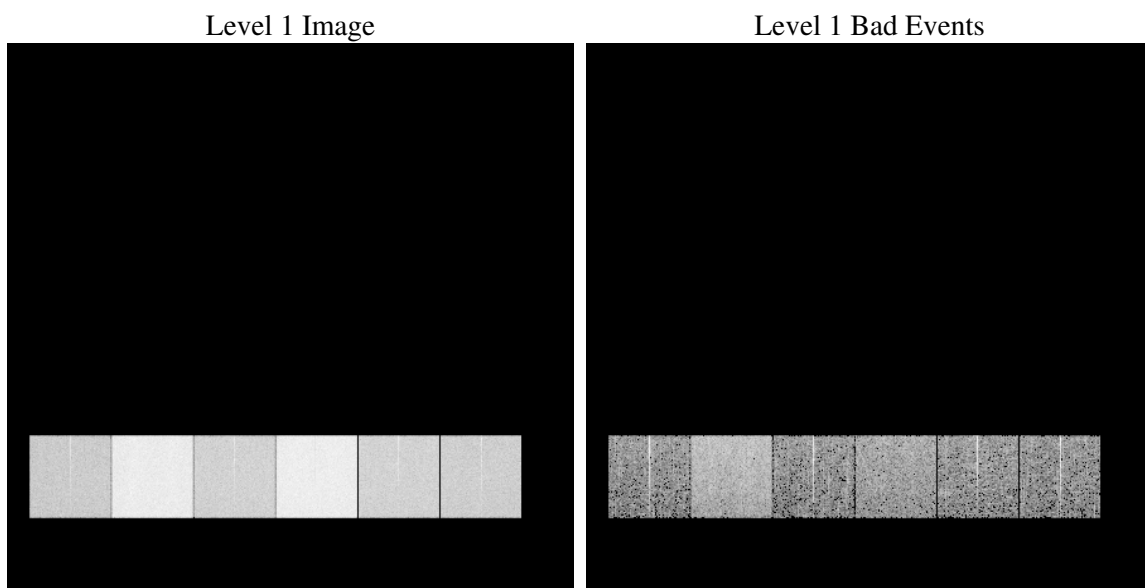
# 1 Front

seq_num	&#160
obs_id	61975
title	ACIS-456789 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	&#160
dtcycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	0.81236237782628
dec_nom	41.846581383611
roll_nom	134.31405198599
revision	3
ontime	4787.9273310006
livetime	4727.2997121917
ontime4	1984.8975542486
ontime5	5144.8024789989
ontime6	2202.0059543997
ontime7	4787.9273310006
ontime8	2231.2576536387
ontime9	2098.1697541028
l2events	1361576

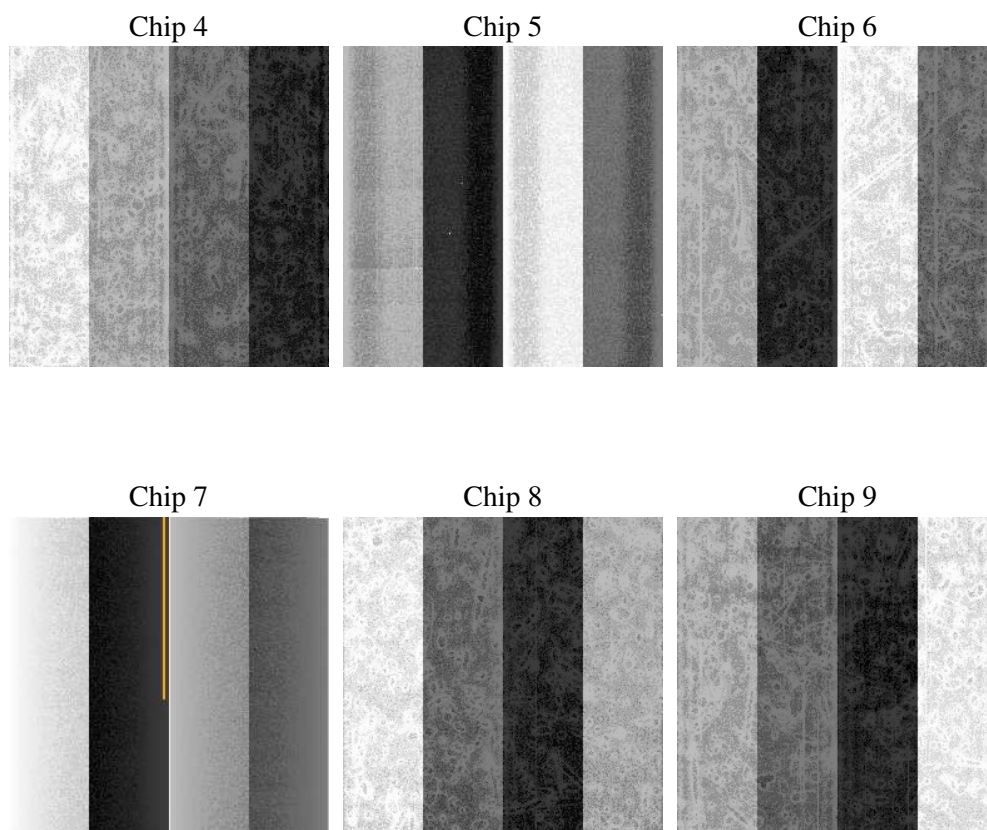
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.4.0
date	2007-06-02T13:25:02
revision	3

sched_exp_time	0.0
ontime	4787.9273310006
ontime4	1984.8975542486
ontime5	5144.8024789989
ontime6	2202.0059543997
ontime7	4787.9273310006
ontime8	2231.2576536387
ontime9	2098.1697541028
l1events	1556126

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	167862	393643	199567	410386	202364	182304
rejected events	18420	39835	18263	24026	19592	17810
rejected %	10%	10%	9%	5%	9%	9%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	83304	80652	98908	99375	101310	90606
	49%	20%	49%	24%	50%	49%
grade 1 events	433	232	483	251	480	459
	0%	0%	0%	0%	0%	0%
grade 2 events	28279	132839	32226	84989	32522	29392
	16%	33%	16%	20%	16%	16%
grade 3 events	8791	21422	11015	39703	11196	9932
	5%	5%	5%	9%	5%	5%
grade 4 events	8677	21073	10725	39206	11307	10008
	5%	5%	5%	9%	5%	5%
grade 5 events	1318	8080	1469	5416	1536	1429
	0%	2%	0%	1%	0%	0%
grade 6 events	20605	98047	28681	123341	26675	24820
	12%	24%	14%	30%	13%	13%
grade 7 events	16455	31298	16060	18105	17338	15658
	9%	7%	8%	4%	8%	8%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
Pointing RA	0	0.812362377826281	Alternating exposures requested	N	N
Pointing Dec	0	41.8465813836106	Primary exposure time	3.2	3.2
Pointing Roll	0.0	134.3140519859883			
SIM focus pos (mm)	-0.684267	-0.7809083437167272			
SIM defocus (mm)	0	0.7524282956875696			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	81820672.12022901	81820671.351752			
Observation start date	2000-08-04T23:57:52	2000-08-04T23:57:51			
Observation end time	81831182.47062001	81831181.702143			
Observation end date	2000-08-05T02:53:02	2000-08-05T02:53:01			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.06.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.78792733

## A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the entire observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is warmer than -116.7 degrees C for approximately the first 3 ksec of this observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.