

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 61924 - L2 Version 5  
Chandra X-Ray Center

L2 Processing Date : Jan 2 2013

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Star Slots . . . . .	6
2.4	FID Slots . . . . .	6
<b>A</b>	<b>Summary</b>	<b>7</b>
A.1	Status . . . . .	7
A.2	Comments . . . . .	7

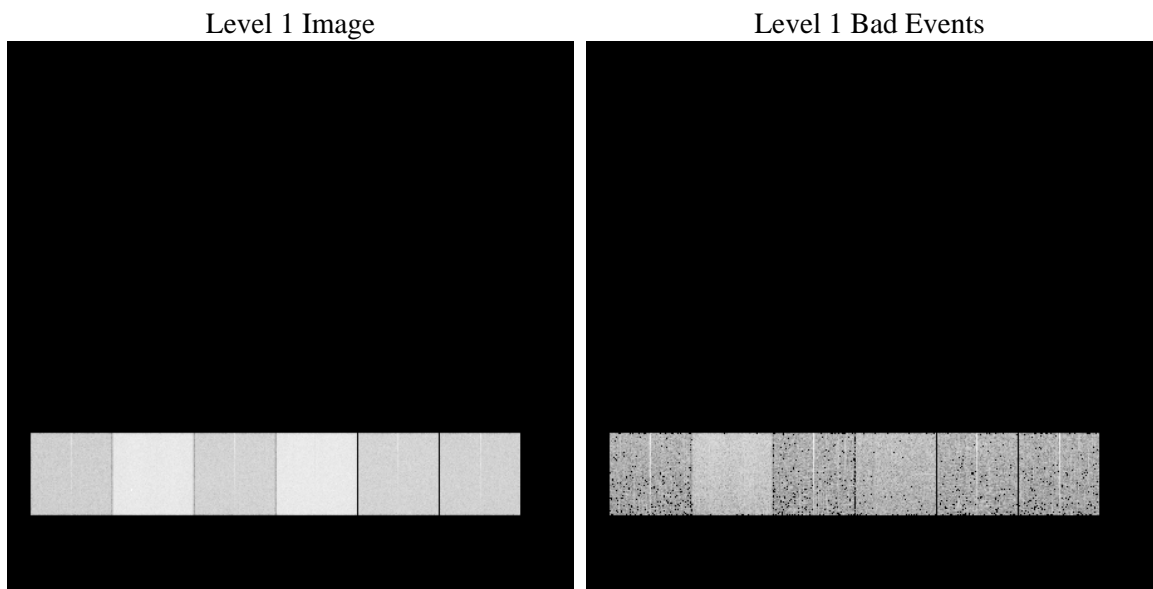
# 1 Front

seq_num	&#160	Sequence number
obs_id	61924	Observation id
title	ACIS-456789 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	14.918144483113	Nominal RA [deg]
dec_nom	32.906337393872	Nominal Dec [deg]
roll_nom	144.66112665305	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5007.3819646388	Sum of GTIs [s]
livetime	4943.9754791191	Livetime [s]
ontime4	2009.443299368	Sum of GTIs [s]
ontime5	5373.611070931	Sum of GTIs [s]
ontime6	2158.471021086	Sum of GTIs [s]
ontime7	5007.3819646388	Sum of GTIs [s]
ontime8	2200.6644794047	Sum of GTIs [s]
ontime9	2132.6027392745	Sum of GTIs [s]
l2events	1345408	Number of level 2 events

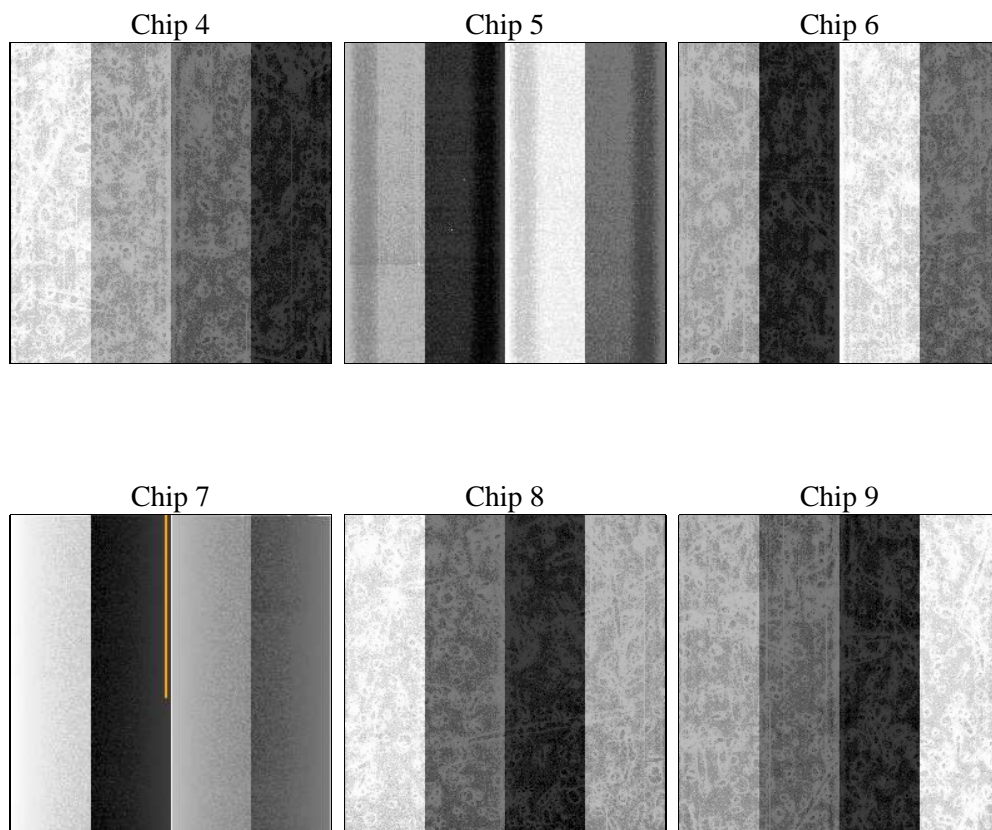
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	5007.3819646388	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime4	2009.443299368	Sum of GTIs [s]
date	2013-01-03T00:47:32	Date and time of file creation	ontime5	5373.611070931	Sum of GTIs [s]
revision	5	Processing version of data	ontime6	2158.471021086	Sum of GTIs [s]
			ontime7	5007.3819646388	Sum of GTIs [s]
			ontime8	2200.6644794047	Sum of GTIs [s]
			ontime9	2132.6027392745	Sum of GTIs [s]
			l1events	1553009	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	164601	404179	189513	417567	195536	181613	grade 0 events	78388	73702	91653	98686	96463	88908
rejected events	19812	45362	20042	26771	20694	19382		47%	18%	48%	23%	49%	48%
rejected %	12%	11%	10%	6%	10%	10%	grade 1 events	395	249	456	261	491	448
								0%	0%	0%	0%	0%	0%
							grade 2 events	29921	143454	30498	86418	31178	29102
								18%	35%	16%	20%	15%	16%
							grade 3 events	7983	19665	10050	39685	10707	9708
								4%	4%	5%	9%	5%	5%
							grade 4 events	8030	19037	10032	38486	10867	9800
								4%	4%	5%	9%	5%	5%
							grade 5 events	1361	8746	1512	5858	1579	1419
								0%	2%	0%	1%	0%	0%
							grade 6 events	20467	102959	27238	127521	25627	24713
								12%	25%	14%	30%	13%	13%
							grade 7 events	18056	36367	18074	20652	18624	17515
								10%	8%	9%	4%	9%	9%

## 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	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	14.91814448311346	Alternating exposures requested	N	N
[deg] Pointing Dec	0	32.90633739387154	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	144.6611266530451			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	85248676.09900001	85248675.33022401			
Observation start date	2000-09-13T16:11:16	2000-09-13T16:11:15			
[s] Observation end time (MET)	85259184.399	85259183.630619			
Observation end date	2000-09-13T19:06:24	2000-09-13T19:06:23			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0073819646388

### A.2 Comments