

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 52643 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jul 13 2014

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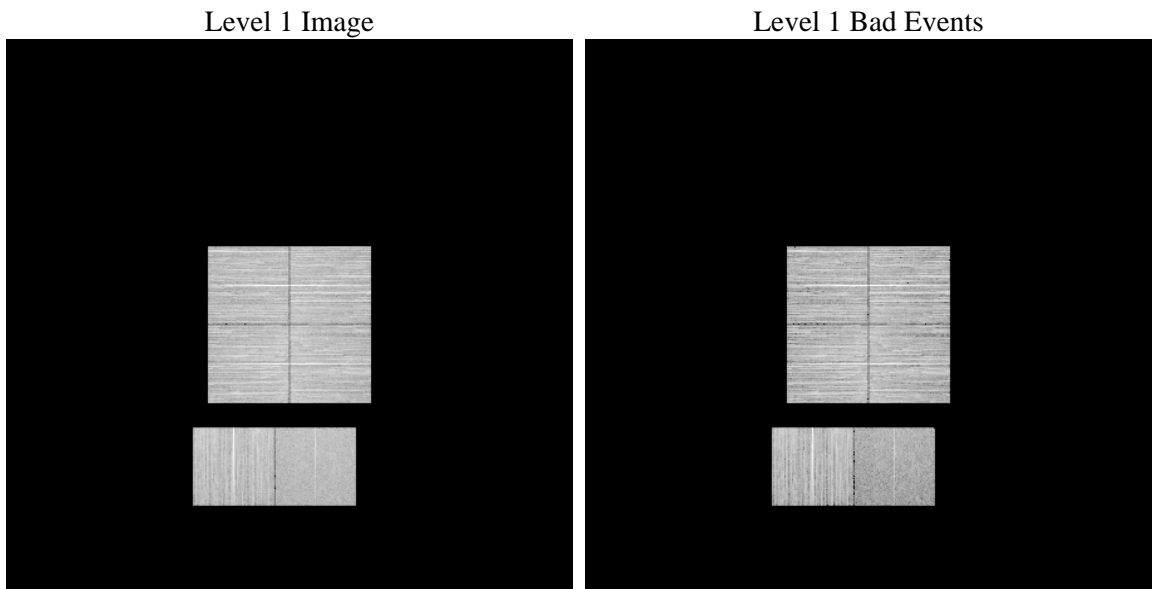
# 1 Front

seq_num	&#160	Sequence number
obs_id	52643	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycycle	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	270.03784137137	Nominal RA [deg]
dec_nom	-42.008295372065	Nominal Dec [deg]
roll_nom	310.6760743261	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8264.1389110088	Sum of GTIs [s]
livetime	8159.4934080506	Livetime [s]
ontime0	8264.0978710055	Sum of GTIs [s]
ontime1	8264.0568310022	Sum of GTIs [s]
ontime2	8264.0157909989	Sum of GTIs [s]
ontime3	8264.1799510121	Sum of GTIs [s]
ontime6	8263.9747509956	Sum of GTIs [s]
ontime7	8264.1389110088	Sum of GTIs [s]
l2events	203322	Number of level 2 events

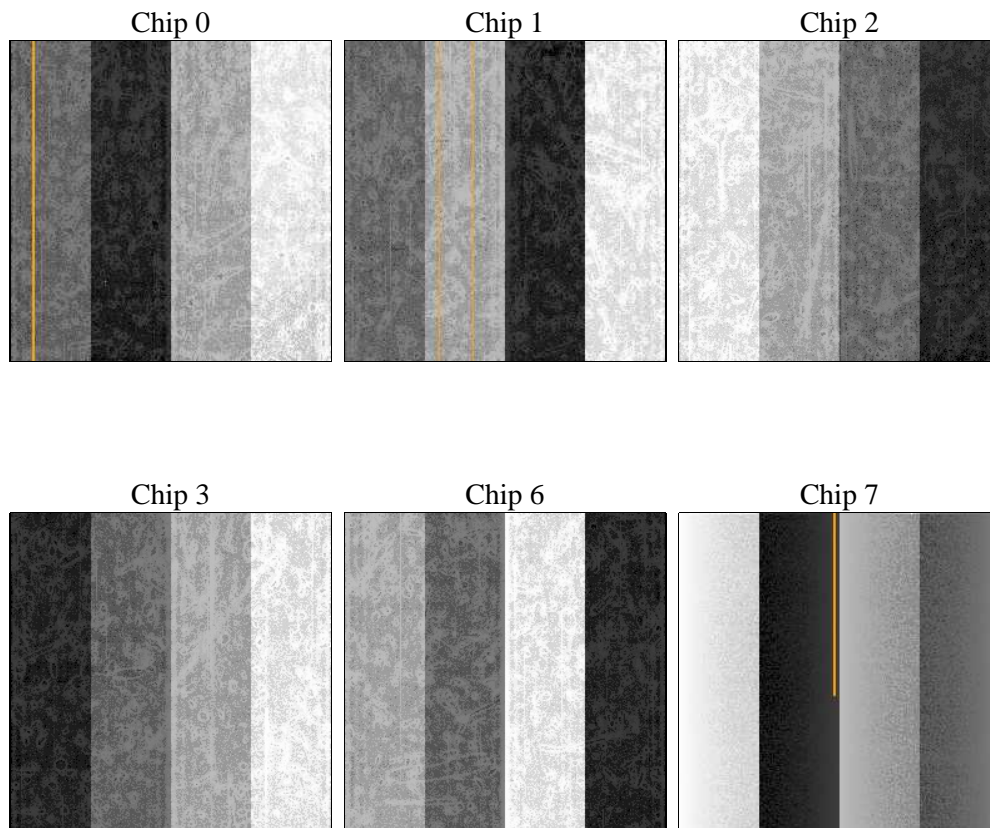
## 2 OBI

### 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	10.2.4	Processing system revision	ontime	8264.1389110088	Sum of GTIs [s]
caldbver	4.6.2	&#160	ontime0	8264.0978710055	Sum of GTIs [s]
date	2014-07-13T12:29:56	Date and time of file creation	ontime1	8264.0568310022	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8264.0157909989	Sum of GTIs [s]
			ontime3	8264.1799510121	Sum of GTIs [s]
			ontime6	8263.9747509956	Sum of GTIs [s]
			ontime7	8264.1389110088	Sum of GTIs [s]
			l1events	886977	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	150249	154271	160468	150699	150172	121118	grade 0 events	15826	15117	16182	16165	15857	8066
rejected events	118570	122245	129297	119005	116689	65911		10%	9%	10%	10%	10%	6%
rejected %	78%	79%	80%	78%	77%	54%	grade 1 events	100	69	86	82	77	90
								0%	0%	0%	0%	0%	0%
							grade 2 events	6407	7181	6010	6136	7052	13789
								4%	4%	3%	4%	4%	11%
							grade 3 events	2072	2100	2037	2129	2189	4152
								1%	1%	1%	1%	1%	3%
							grade 4 events	2088	1990	2020	2193	2054	4255
								1%	1%	1%	1%	1%	3%
							grade 5 events	2832	2922	2671	3120	2892	7062
								1%	1%	1%	2%	1%	5%
							grade 6 events	5467	5814	5086	5258	6515	25184
								3%	3%	3%	3%	4%	20%
							grade 7 events	115457	119078	126376	115616	113536	58520
								76%	77%	78%	76%	75%	48%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	270.0378413713685	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-42.00829537206539	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	310.6760743260991	[s] Primary exposure time	3.2	3.2
[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)	521601329.963894	521601328.93889			
Observation start date	2014-07-13T01:15:30	2014-07-13T01:15:28			
[s] Observation end time (MET)	521611085.914434	521611084.88943			
Observation end date	2014-07-13T03:58:06	2014-07-13T03:58:04			
Read mode	TIMED	TIMED			

**2.3 Star Slots**

**2.4 FID Slots**

# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.07.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2641389110088

## A.2 Comments