

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 53054 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Jan 28 2014

Contents

1	Front	2
2	OBI	3
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
A	Summary	7
A.1	Status	7
A.2	Comments	7

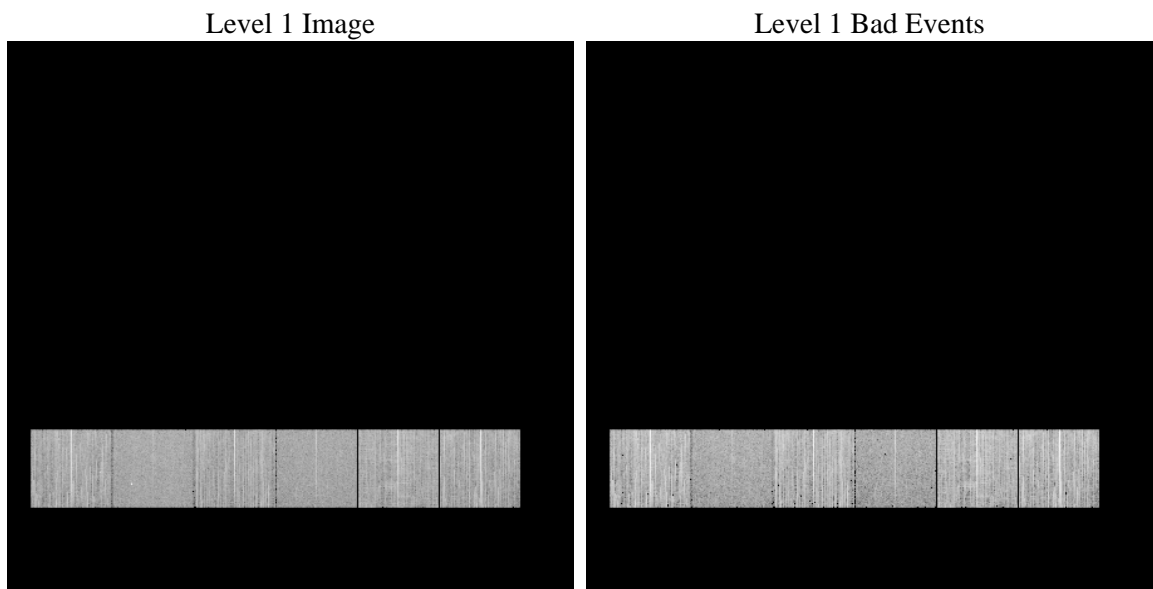
1 Front

seq_num	 	Sequence number
obs_id	53054	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	 	Source name
dtcycle	0	
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	103.02079175045	Nominal RA [deg]
dec_nom	14.97940375215	Nominal Dec [deg]
roll_nom	281.28575700984	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6015.6744024158	Sum of GTIs [s]
livetime	5939.5003109281	Livetime [s]
ontime4	6015.5512824059	Sum of GTIs [s]
ontime5	6015.6333624125	Sum of GTIs [s]
ontime6	6015.5923224092	Sum of GTIs [s]
ontime7	6015.6744024158	Sum of GTIs [s]
ontime8	6015.5102424026	Sum of GTIs [s]
ontime9	6015.7154424191	Sum of GTIs [s]
l2events	151616	Number of level 2 events

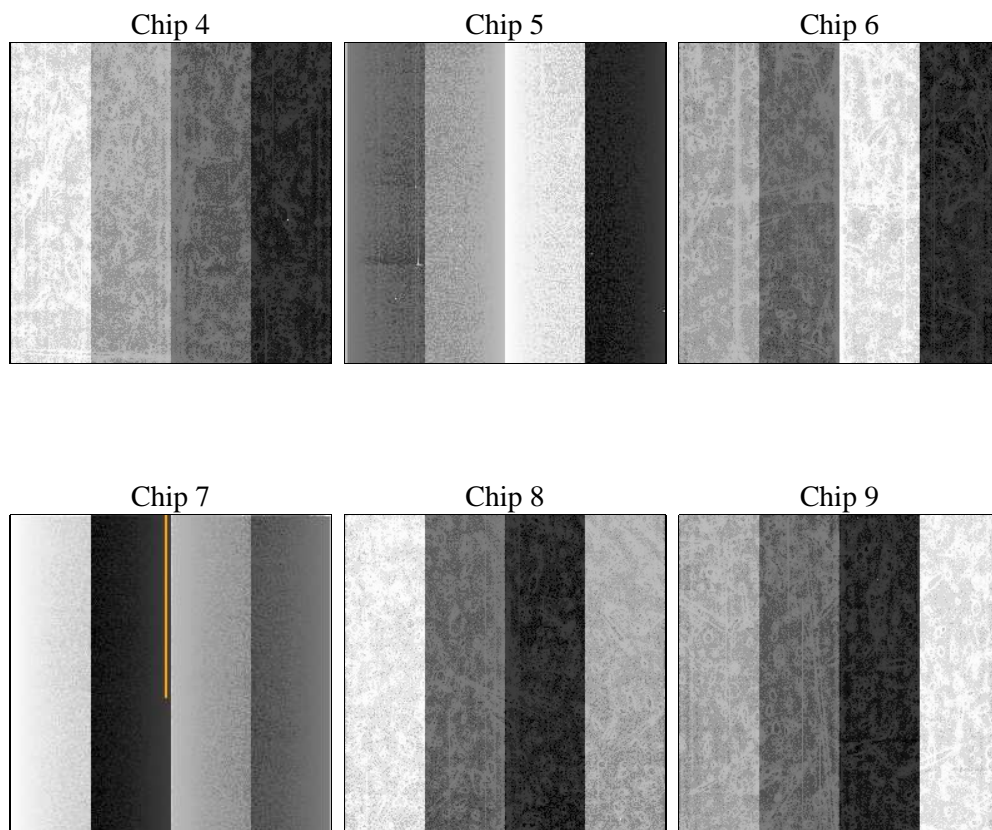
2 OBI

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	10.2.1	Processing system revision	ontime	6015.6744024158	Sum of GTIs [s]
caldsver	4.6.0	 	ontime4	6015.5512824059	Sum of GTIs [s]
date	2014-01-28T18:28:24	Date and time of file creation	ontime5	6015.6333624125	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	6015.5923224092	Sum of GTIs [s]
			ontime7	6015.6744024158	Sum of GTIs [s]
			ontime8	6015.5102424026	Sum of GTIs [s]
			ontime9	6015.7154424191	Sum of GTIs [s]
			l1events	603366	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	106863	90111	103570	84114	110472	108236	grade 0 events	10786	3236	9477	4956	11697	10069
rejected events	86566	50375	82554	46512	83749	87568		10%	3%	9%	5%	10%	9%
rejected %	81%	55%	79%	55%	75%	80%	grade 1 events	84	121	37	47	55	51
								0%	0%	0%	0%	0%	0%
							grade 2 events	3956	14756	5260	9289	5871	4360
								3%	16%	5%	11%	5%	4%
							grade 3 events	1371	1281	1211	2796	1962	1367
								1%	1%	1%	3%	1%	1%
							grade 4 events	1414	1175	1272	2722	1958	1322
								1%	1%	1%	3%	1%	1%
							grade 5 events	2149	3788	2002	4953	2660	2408
								2%	4%	1%	5%	2%	2%
							grade 6 events	2785	19307	3807	17855	5250	3564
								2%	21%	3%	21%	4%	3%
							grade 7 events	84318	46447	80504	41496	81019	85095
								78%	51%	77%	49%	73%	78%

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	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	103.020791750447	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	14.97940375215024	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	281.2857570098442	[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)	507242032.421578	507242031.39658			
Observation start date	2014-01-27T20:33:52	2014-01-27T20:33:51			
[s] Observation end time (MET)	507248547.321936	507248546.29694			
Observation end date	2014-01-27T22:22:27	2014-01-27T22:22:26			
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)	2014.01.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.0156744024158

A.2 Comments