

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2513 - L2 Version 4
Chandra X-Ray Center

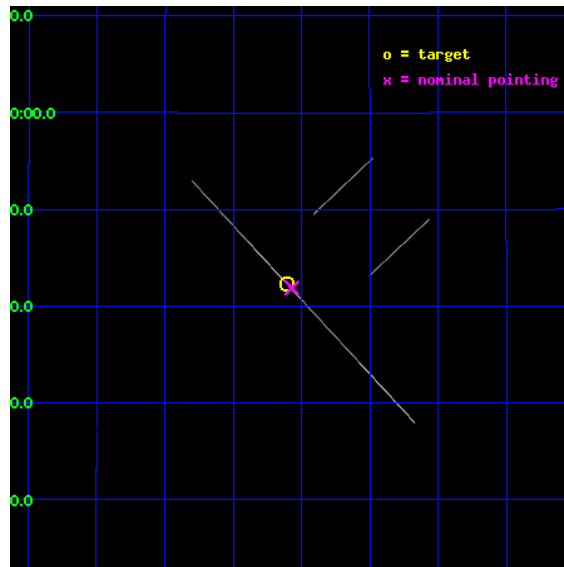
L2 Processing Date : Sep 22 2012

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1 Front

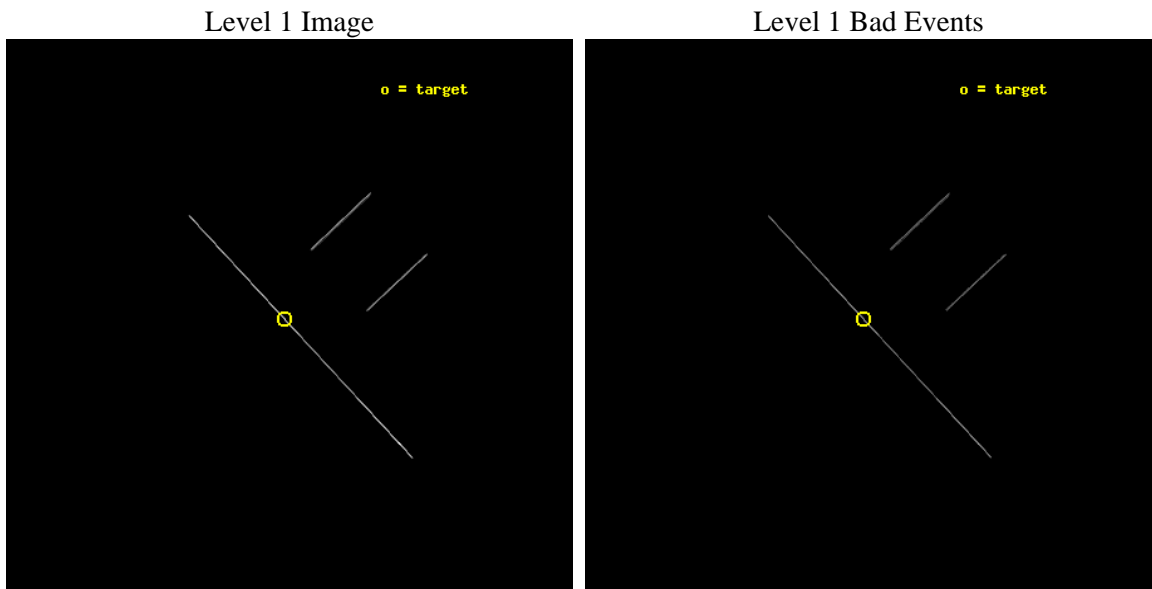
seq_num	300066	Sequence number
obs_id	2513	Observation id
title	FIRST X-RAY OBSERVATIONS DURING AN EXTREMELY RARE OUTBURST OF WZ SGE	
observer	Dr Erik Kuulkers	Principal investigator
object	WZ SGE	Source name
ra_targ	301.900833	Observer's specified target RA [deg]
dec_targ	17.704167	Observer's specified target Dec [deg]
ra_nom	301.89264335726	Nominal RA [deg]
dec_nom	17.698342309349	Nominal Dec [deg]
roll_nom	226.96067224136	Nominal Roll [deg]
revision	4	Processing version of data
ontime	12071.75	Sum of GTIs [s]
livetime	12024.594726562	Livetime [s]
ontime2	12071.75	Sum of GTIs [s]
ontime3	12071.75	Sum of GTIs [s]
ontime5	12071.75	Sum of GTIs [s]
ontime6	12071.75	Sum of GTIs [s]
ontime7	12071.75	Sum of GTIs [s]
ontime8	12071.75	Sum of GTIs [s]
l2events	158158	Number of level 2 events



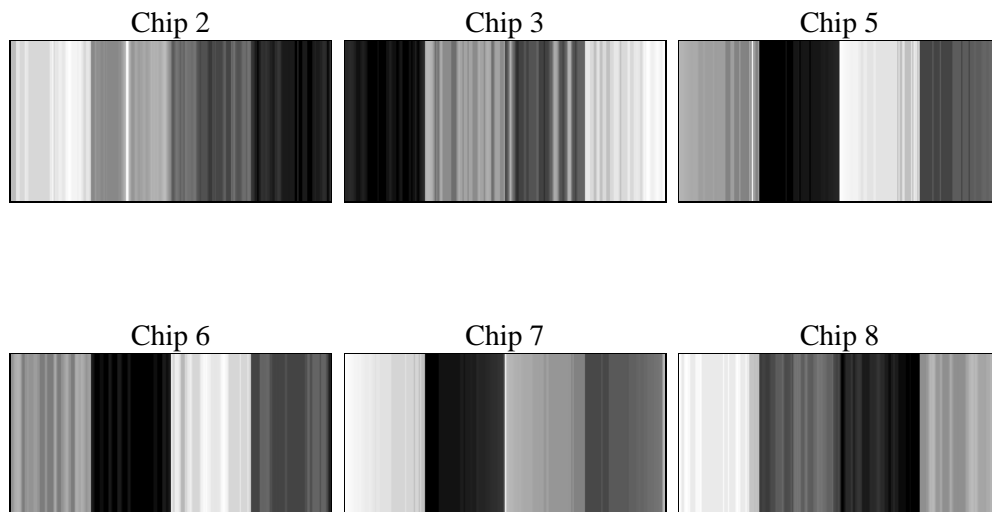
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	11500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	12071.75	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime2	12071.75	Sum of GTIs [s]
date	2012-09-22T07:44:53	Date and time of file creation	ontime3	12071.75	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	12071.75	Sum of GTIs [s]
			ontime6	12071.75	Sum of GTIs [s]
			ontime7	12071.75	Sum of GTIs [s]
			ontime8	12071.75	Sum of GTIs [s]
			l1events	256022	Number of level 1 events

2.1.4 Events

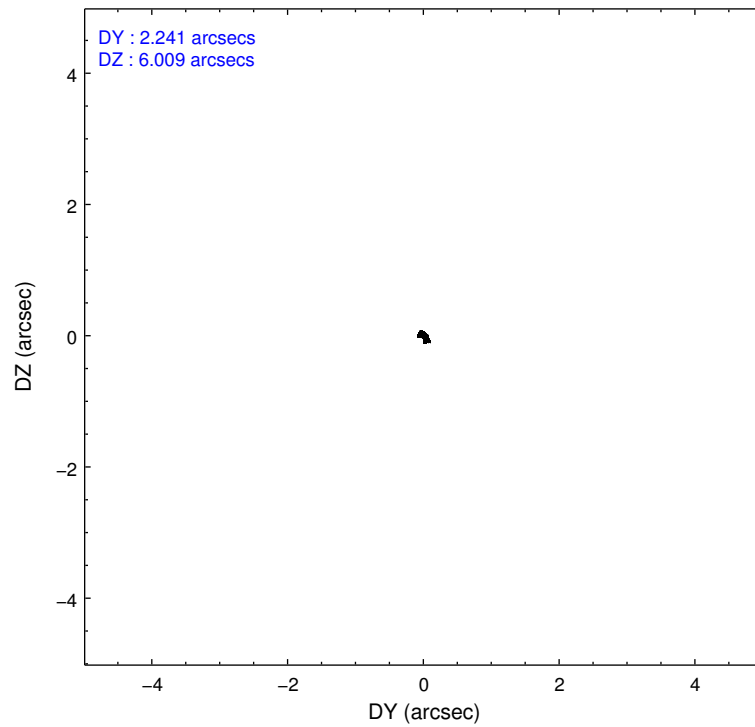
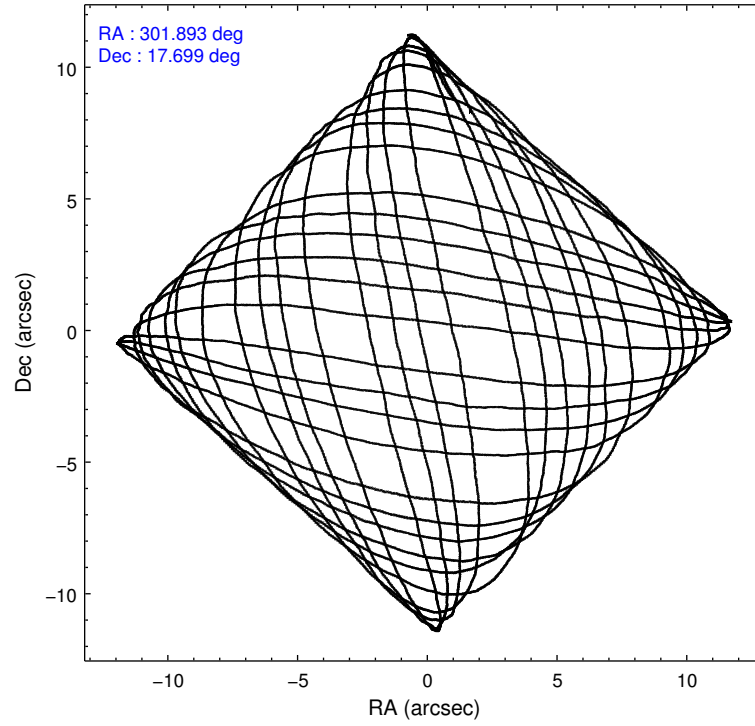
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	17059	17899	93266	17359	71603	38836
rejected events	3364	3373	10565	3660	11213	5506
rejected %	19%	18%	11%	21%	15%	14%

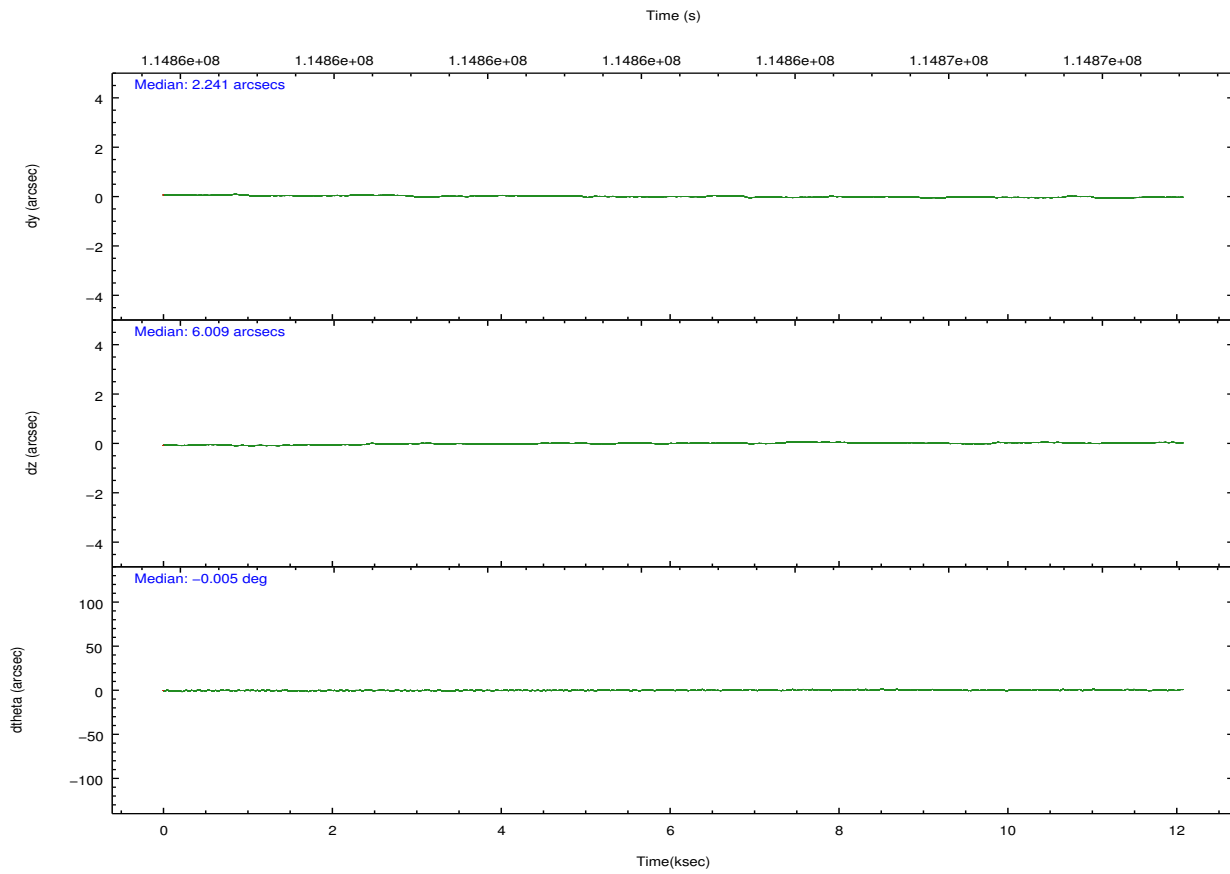
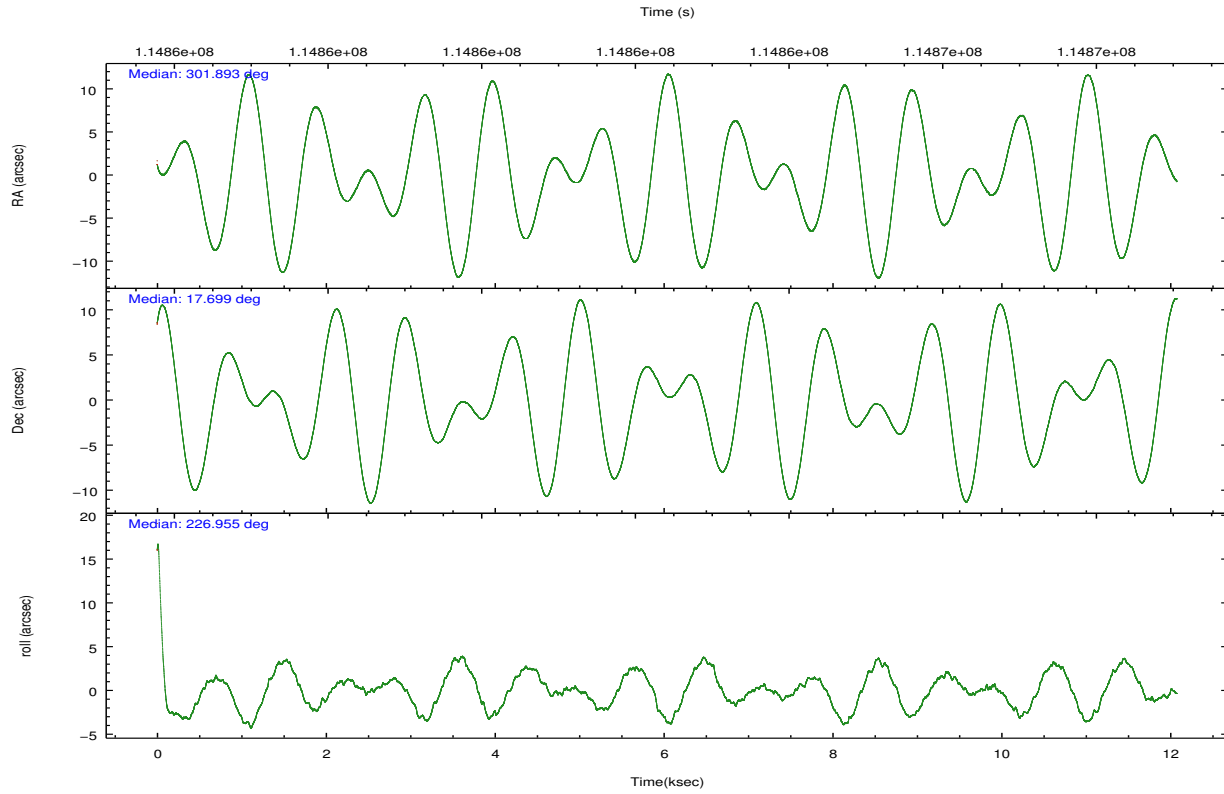
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1952	2008	28259	1691	10890	7392
	11%	11%	30%	9%	15%	19%
grade 1 events	64	58	129	53	156	107
	0%	0%	0%	0%	0%	0%
grade 2 events	5254	5630	22413	5442	15134	9665
	30%	31%	24%	31%	21%	24%
grade 3 events	2084	2379	1868	1954	5686	4853
	12%	13%	2%	11%	7%	12%
grade 4 events	2030	2023	1822	1967	5657	4571
	11%	11%	1%	11%	7%	11%
grade 5 events	2793	2759	7423	3056	9218	4312
	16%	15%	7%	17%	12%	11%
grade 6 events	2882	3042	31352	3196	24862	7936
	16%	16%	33%	18%	34%	20%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	301.898787	301.8926433572578	Subarray requested	NONE	NONE
[deg] Pointing Dec	17.724975	17.69834230934887	Alternating exposures requested	N	N
[deg] Pointing Roll	226.802162	226.9606722413587	[s] Primary exposure time	0.000000	0
[s] Window start time (MET)	114663664.184000	114663664.184000			
[s] Window stop time (MET)	115257664.184000	115257664.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	114856949.184000	114855799.93422			
Observation start date	2001-08-22T08:41:25	2001-08-22T08:23:19			
[s] Observation end time (MET)	114868449.184000	114869161.32225			
Observation end date	2001-08-22T11:53:05	2001-08-22T12:06:01			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



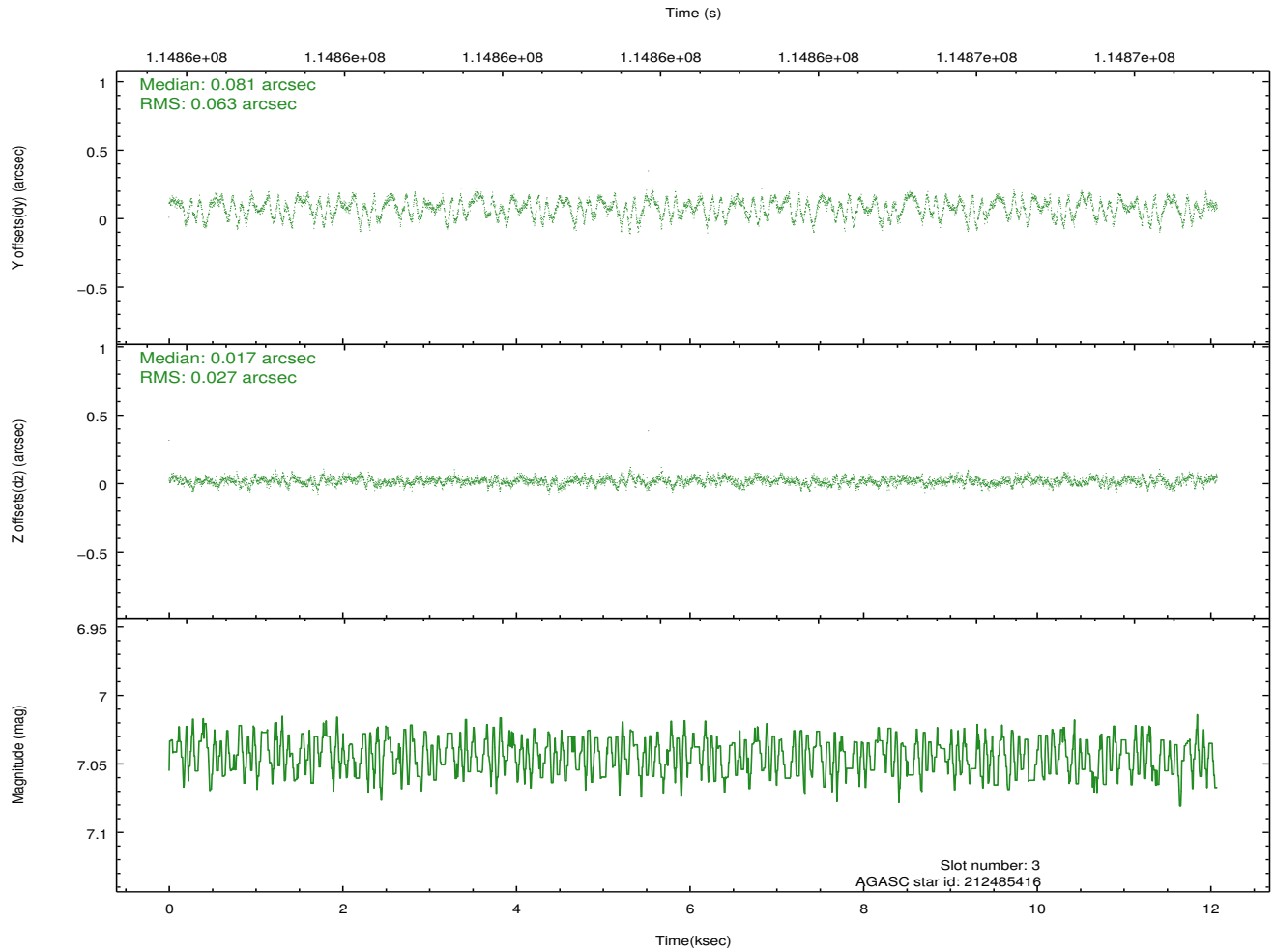
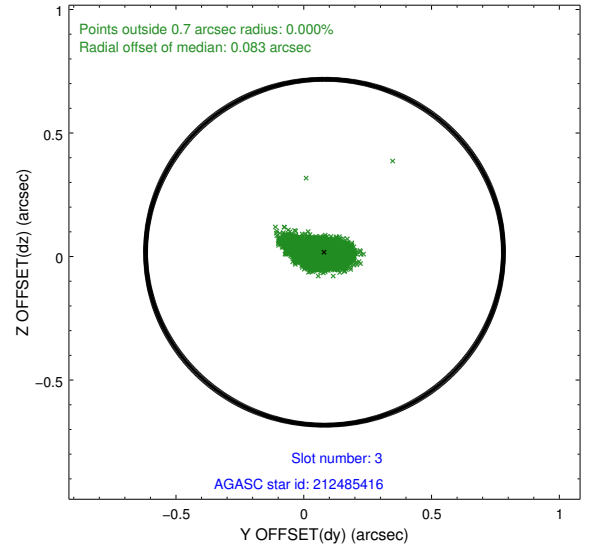
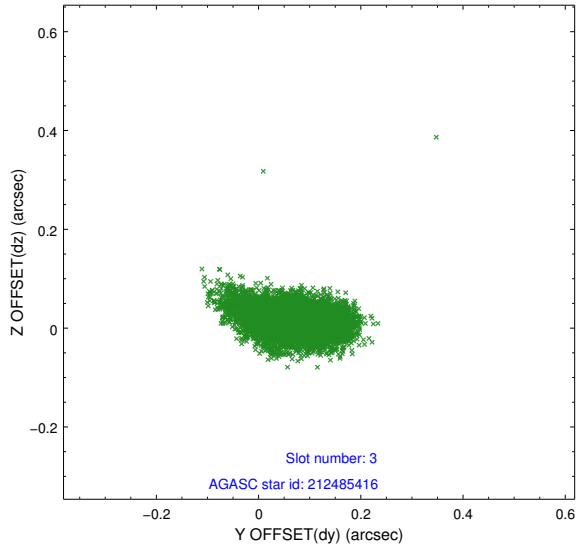


Slot Statistics

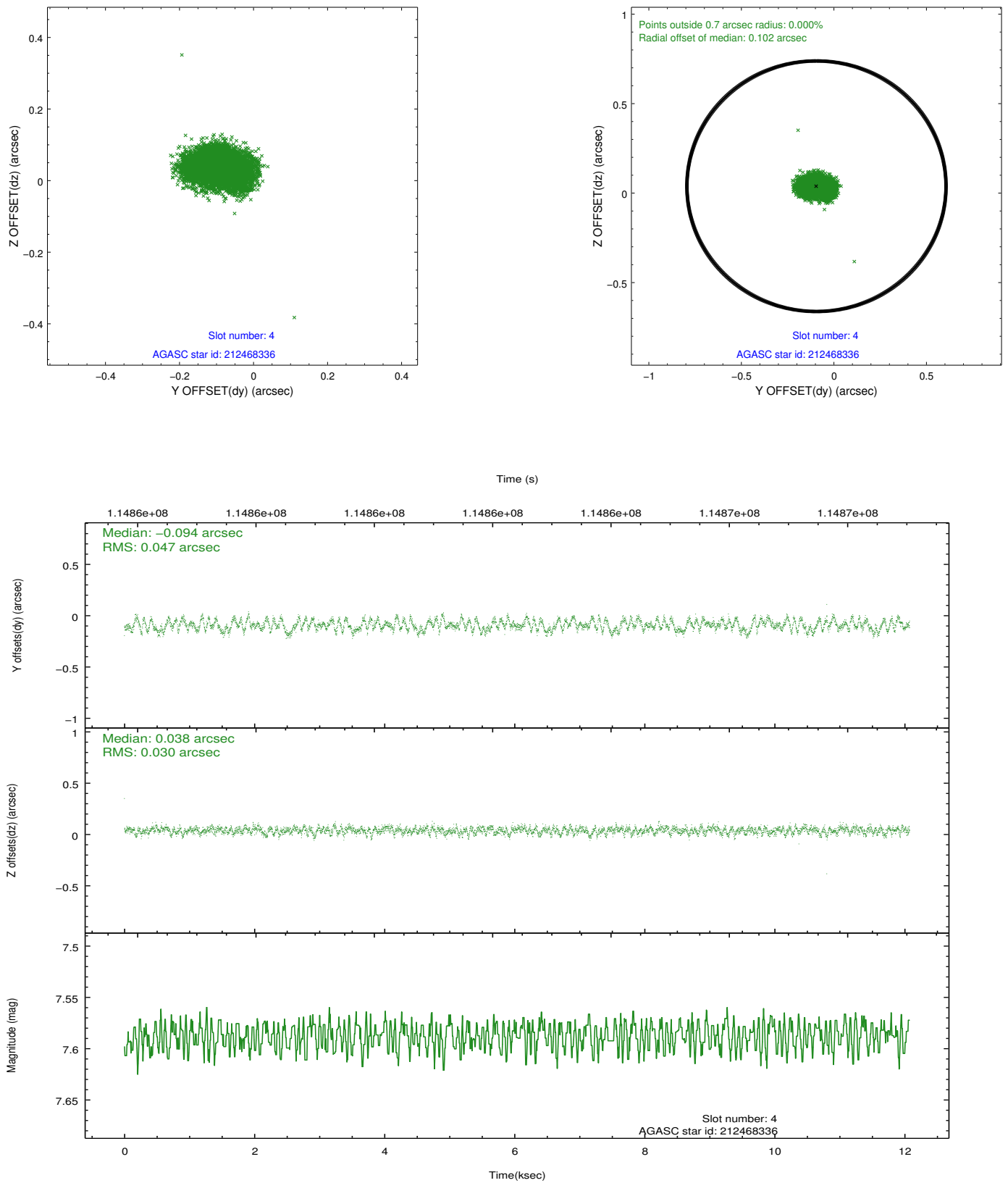
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2946	-0.042	0.002	0.006	0.010	0.000000	0.000000	-754.86	-1727.16
1	FID	ACIS-S-4	7.20	2946	-0.028	0.020	0.006	0.010	0.000000	0.000000	2158.19	180.99
2	FID	ACIS-S-5	7.24	2946	0.039	-0.013	0.007	0.012	0.000000	0.000000	-1807.14	175.00
3	GUIDE	212485416	7.04	5892	0.081	0.017	0.073	0.121	301.058813	17.734859	1941.63	-2127.42
4	GUIDE	212468336	7.59	5892	-0.094	0.038	0.060	0.094	301.479163	18.244435	-381.47	-2326.62
5	GUIDE	212599608	7.83	5892	-0.018	-0.049	0.048	0.078	302.041368	17.043012	1453.73	2038.75
6	GUIDE	212477672	7.62	5892	0.025	0.026	0.044	0.069	301.870505	17.020545	1915.80	1666.37
7	GUIDE	212600320	8.66	5890	0.013	-0.030	0.059	0.095	302.393008	18.138679	-2244.07	212.41

2.4 Star Slots

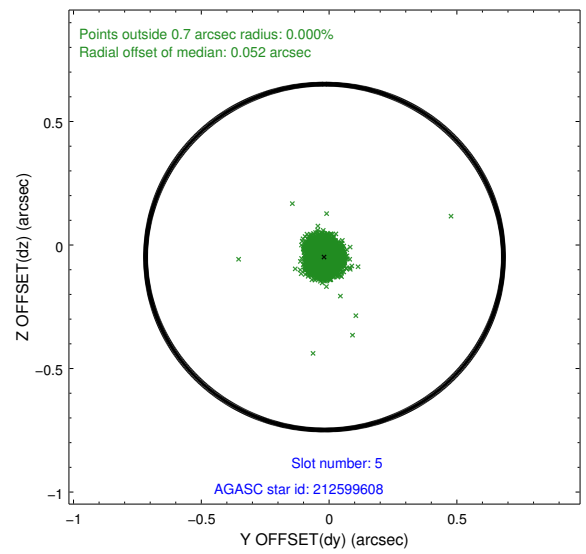
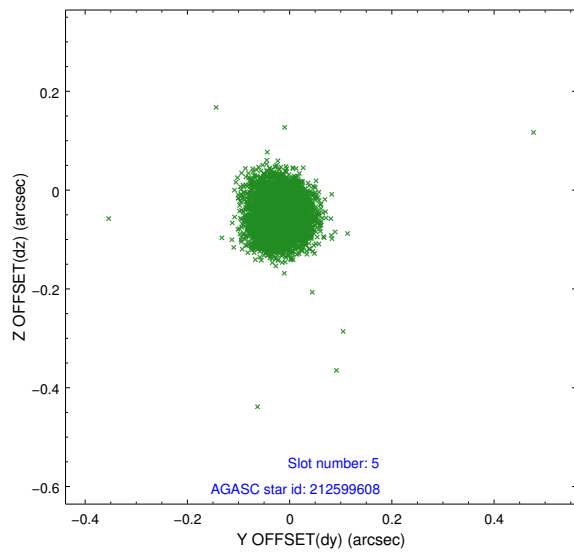
2.4.1 Slot 3



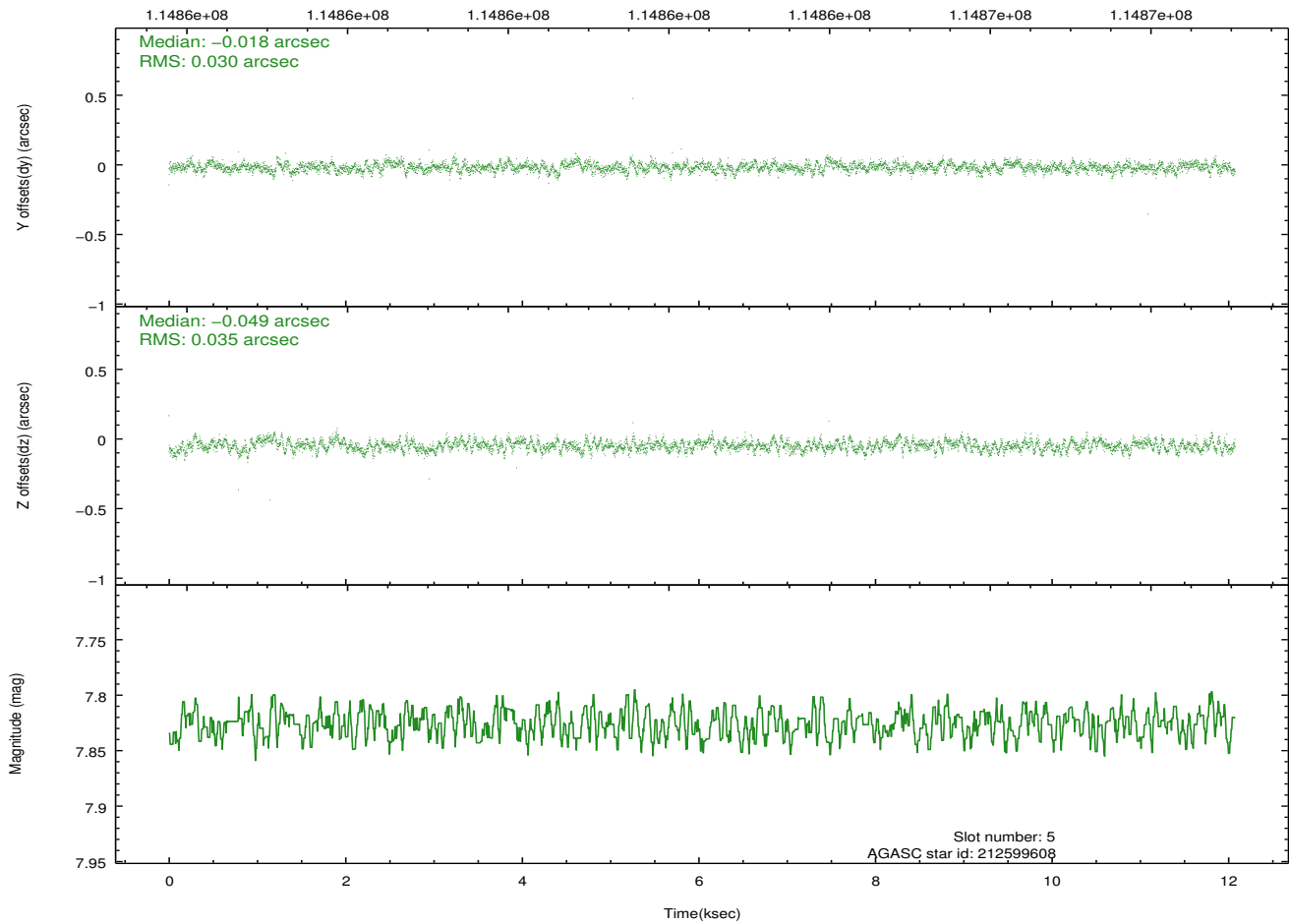
2.4.2 Slot 4



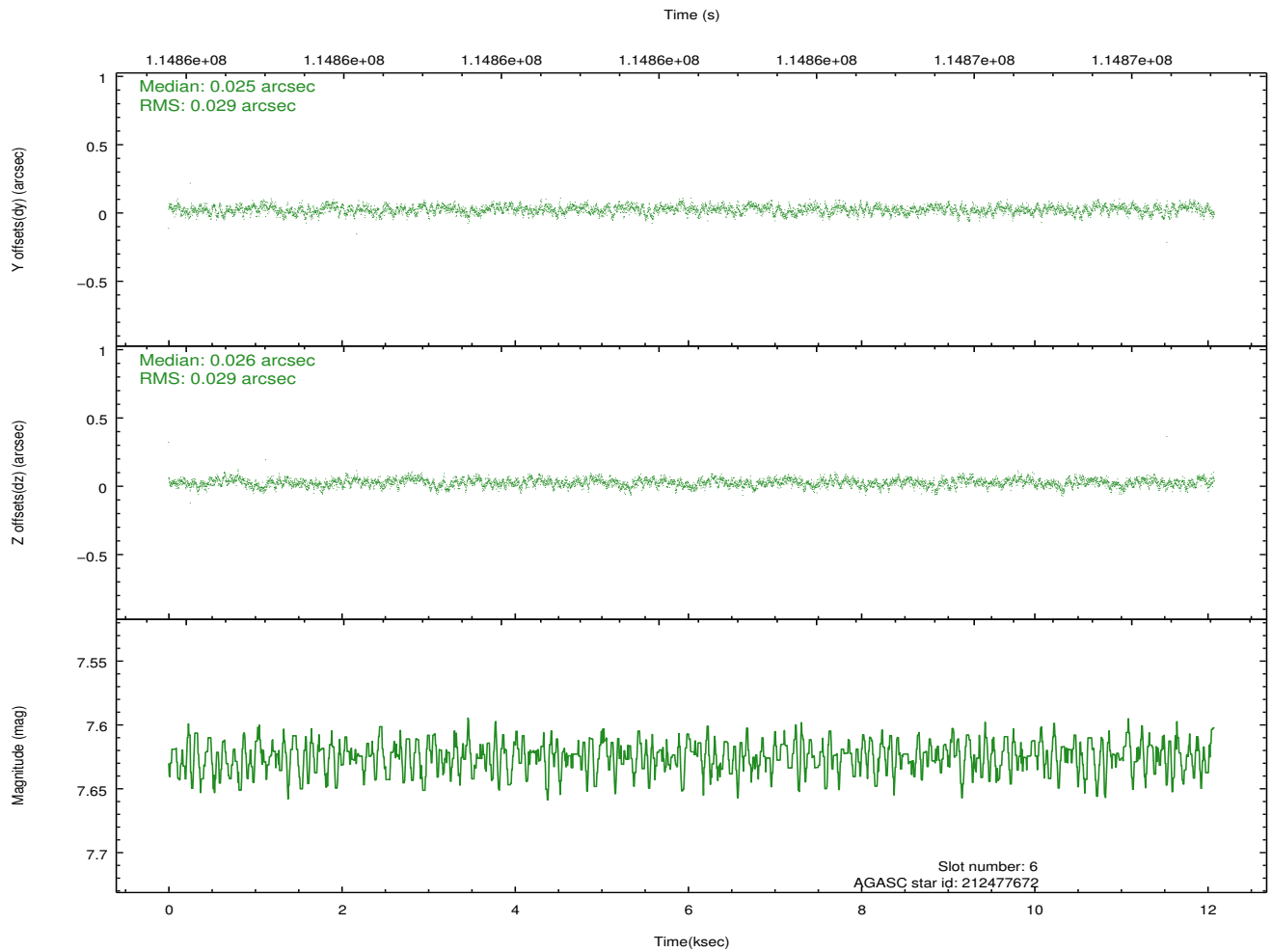
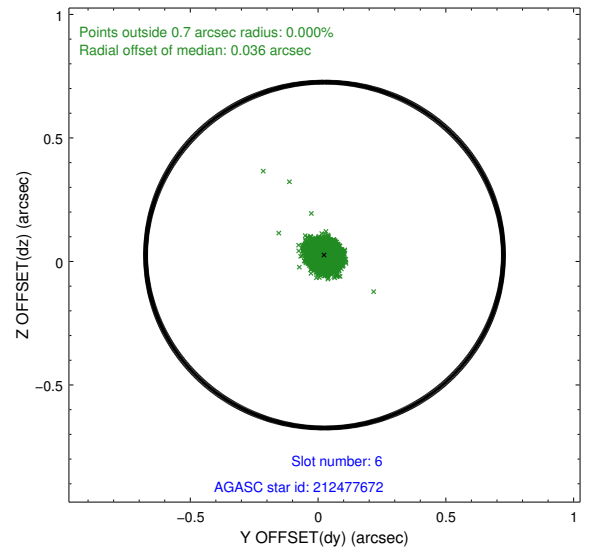
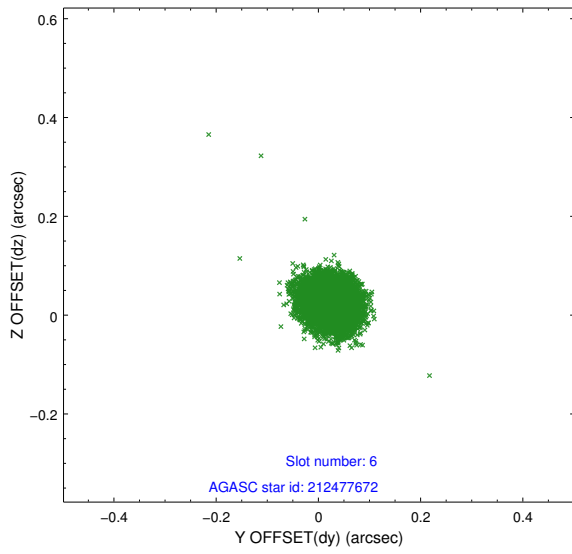
2.4.3 Slot 5



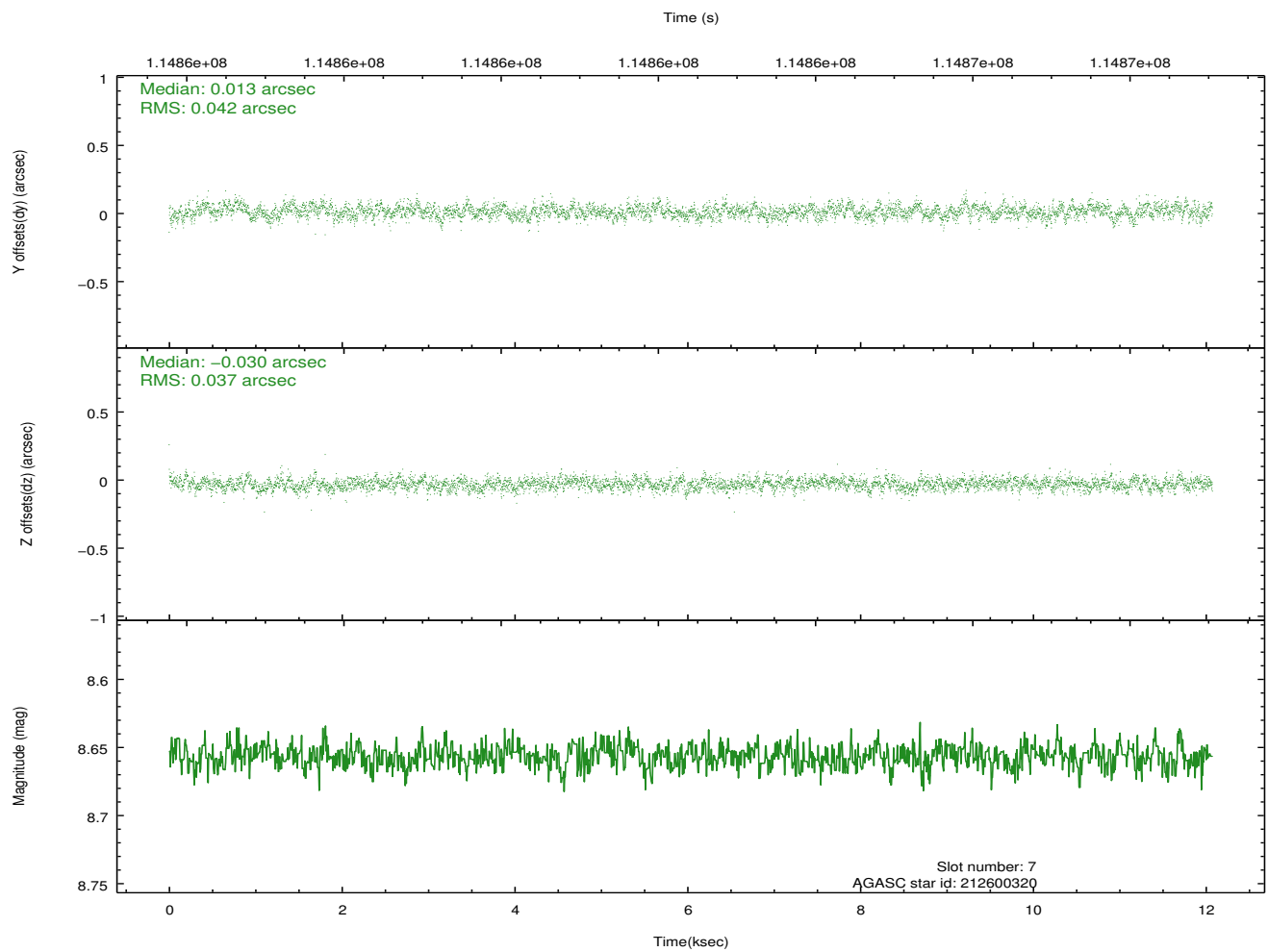
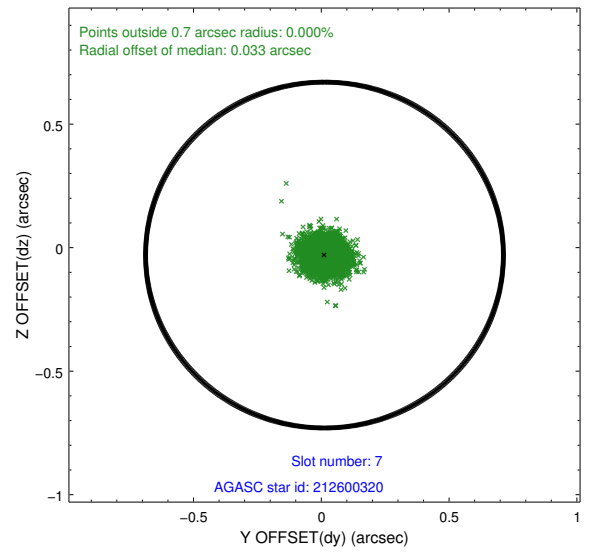
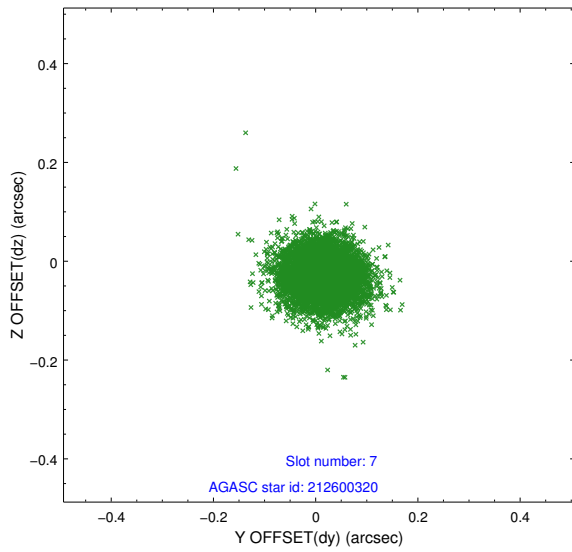
Time (s)



2.4.4 Slot 6

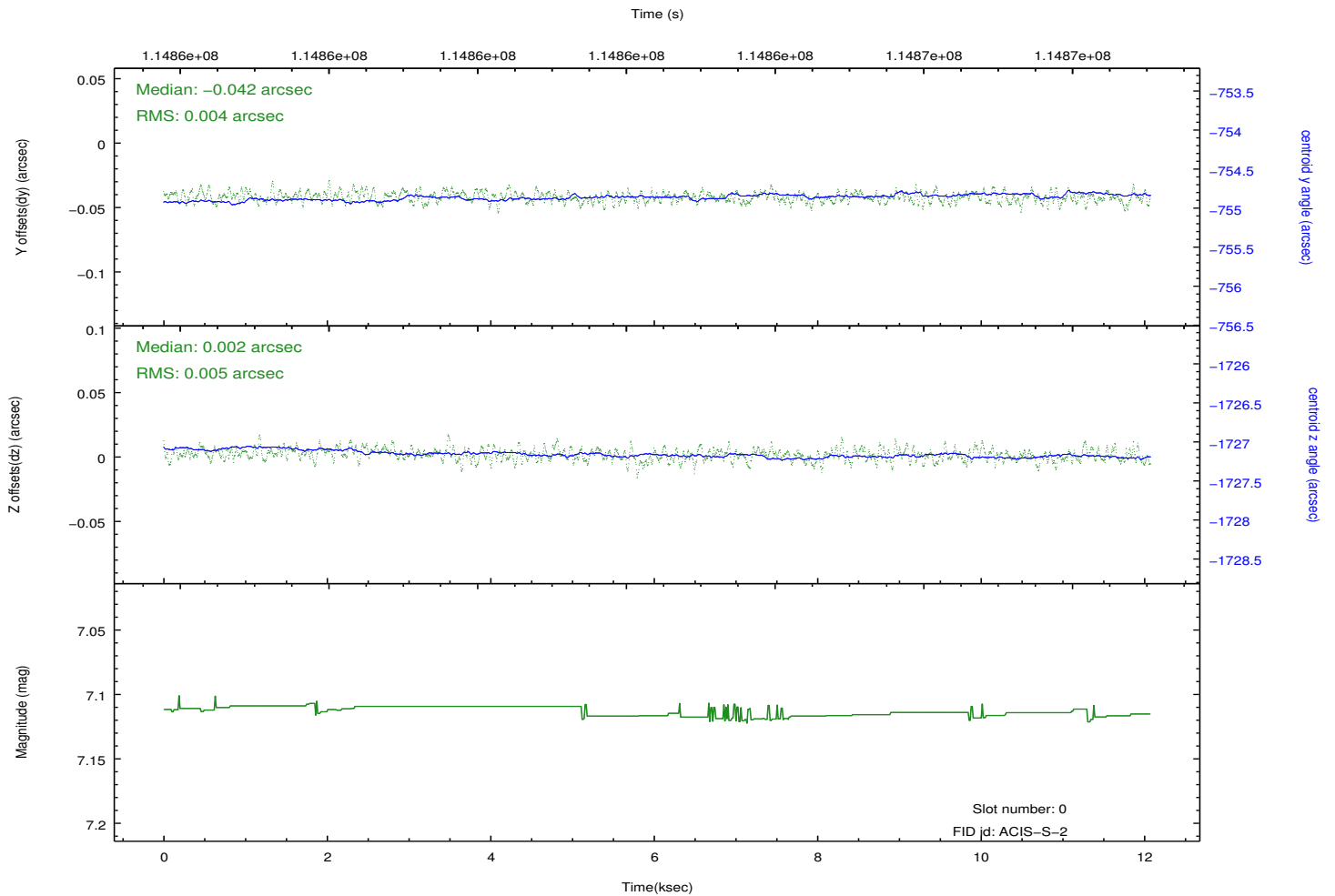
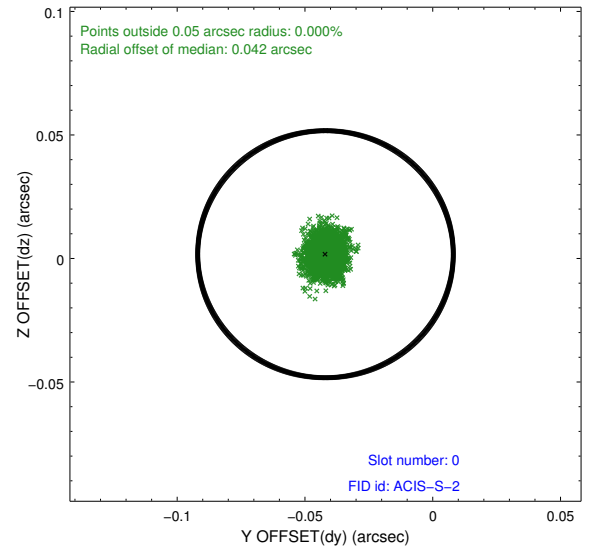
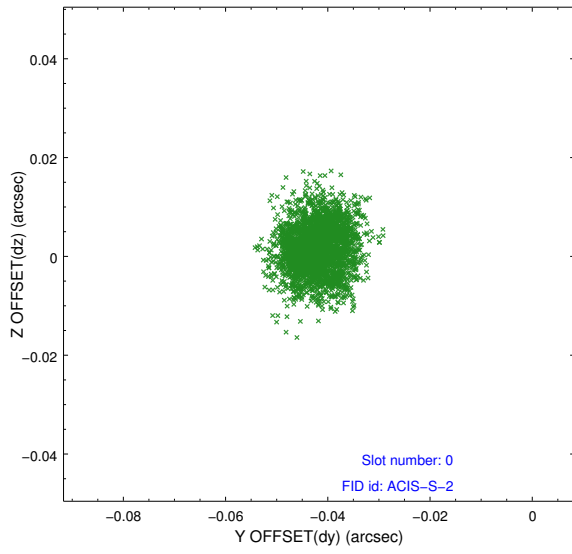


2.4.5 Slot 7

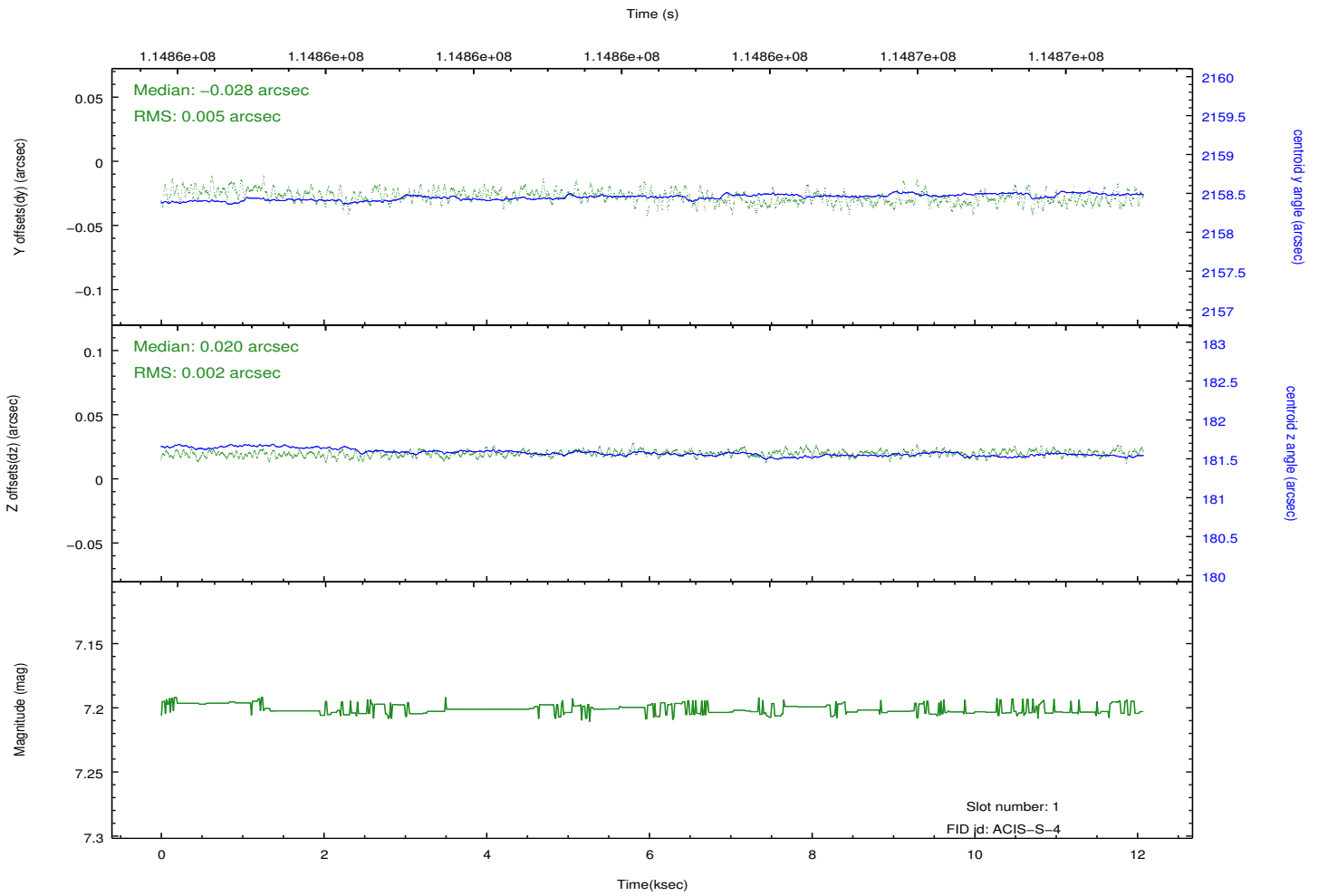
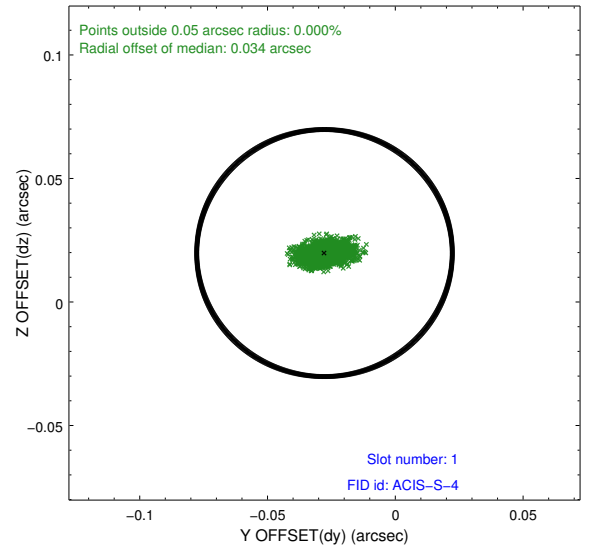
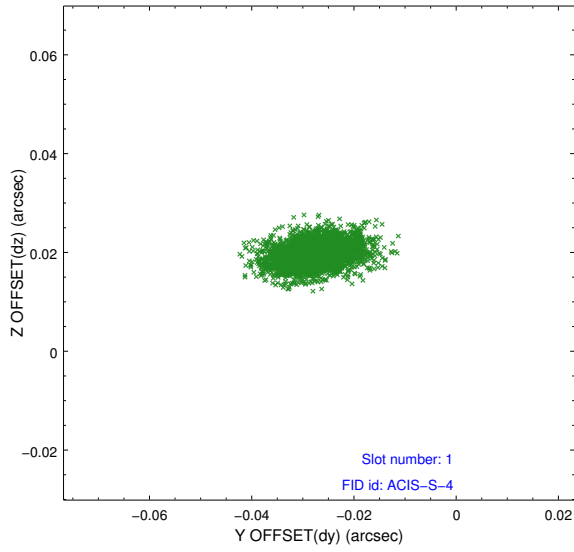


2.5 FID Slots

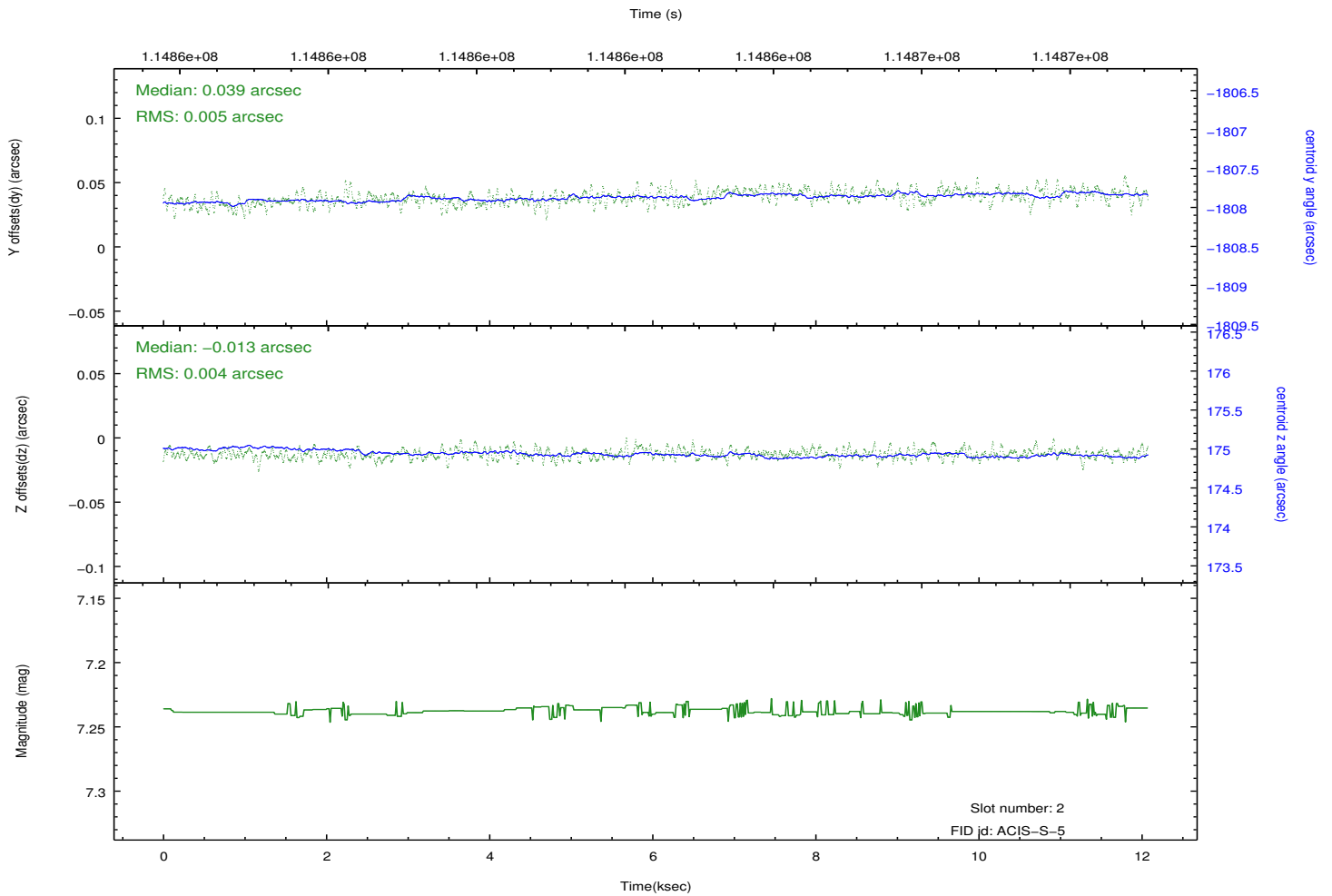
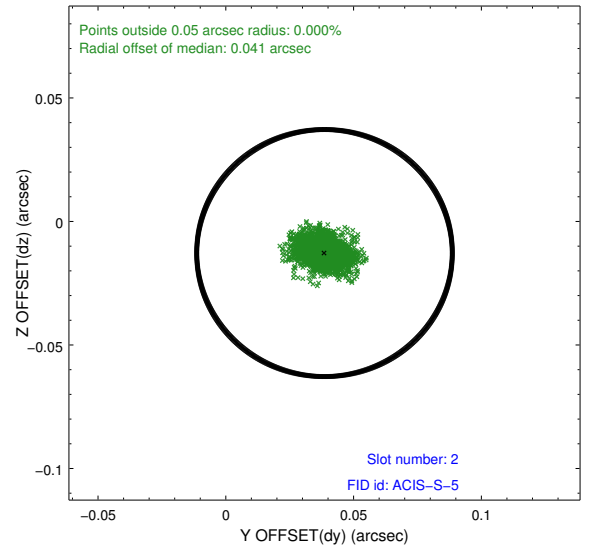
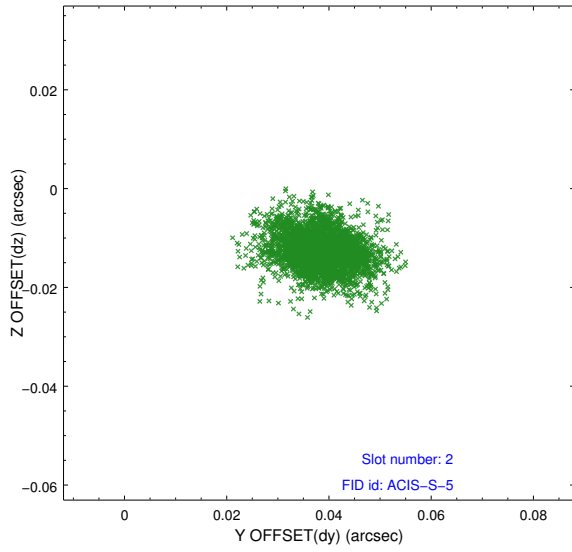
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Glenn Allen
V&V Date (YYYY-MM-DD)	2012.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.075

A.2 Comments

Glenn,

Node 1 of Chip 2 has 8 columns with elevated adu values of 25-30 compared to the rest of the node. Maybe that's okay for cc-mode, but I thought you should check.

Joy

Joy,

As you note, there is a feature in the bias for CCD_ID=2, which appears worst for 368 <~ CHIPX <~ 379. There are not enough events in this region to determine with certainty whether the pulse heights are systematically shifted or not. The total number of events in this region does not appear to be inconsistent with the number expected from the rest of NODE_ID=1 of CCD_ID=2. Furthermore, the distribution of GRADEs for the region affected is consistent with the distribution of GRADEs for the rest of NODE_ID=1 of CCD_ID=2. Since the source for this observation is on CCD_ID=7 and there is no evidence of another source on CCD_ID=2, I suggest that the bias be used as is.

Glenn