

V&V Reference Report

L2 ASCDS Version : 8.5.1

Observation 15165 - L2 Version 2
Chandra X-Ray Center

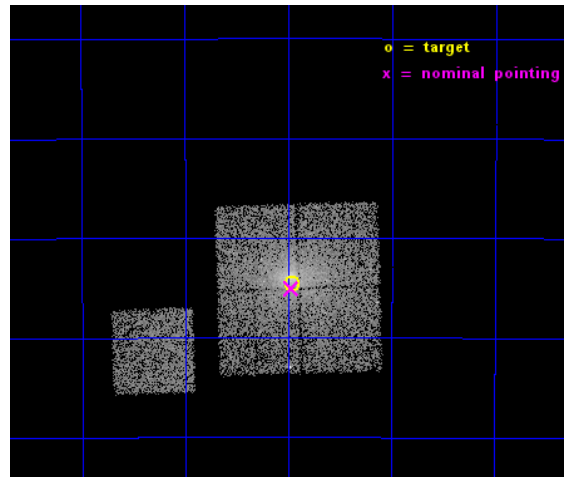
L2 Processing Date : Nov 30 2014

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	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

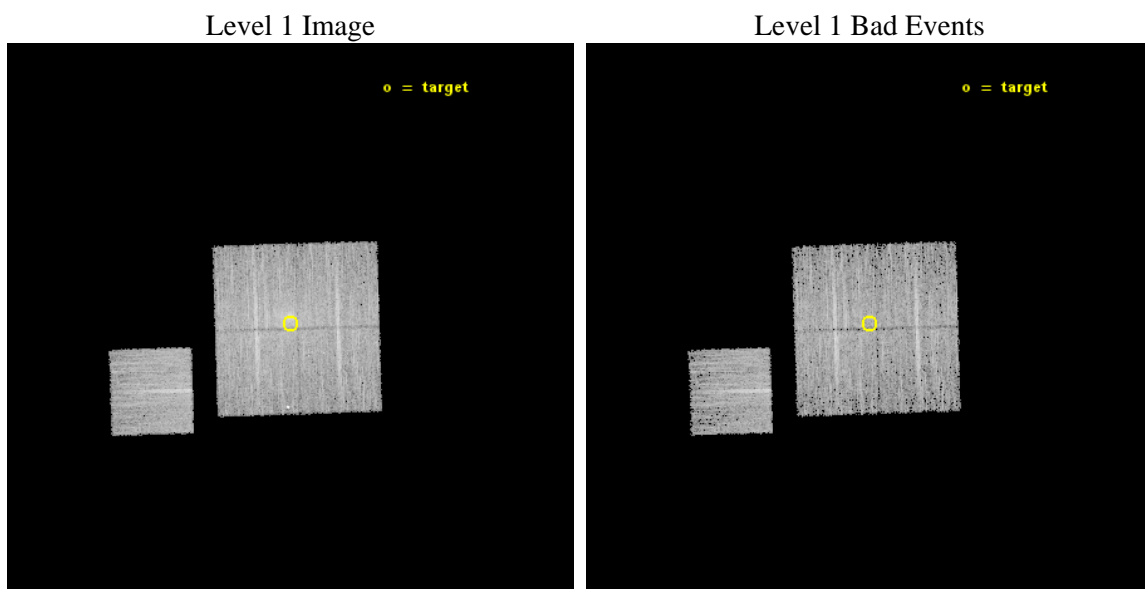
seq_num	801293	Sequence number
obs_id	15165	Observation id
title	COMPLETING eHIFLUGCS: THE ULTIMATE PRECISE AND ACCURATE LOCAL BASELINE	Proposal title
observer	Dr. Thomas Reiprich	Principal investigator
object	A3809	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	326.74	Observer's specified target RA [deg]
dec_targ	-43.91	Observer's specified target Dec [deg]
ra_nom	326.74300253959	Nominal RA [deg]
dec_nom	-43.917739404749	Nominal Dec [deg]
roll_nom	268.24171744048	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10579.218164742	Sum of GTIs [s]
livetime	10440.992891113	Livetime [s]
ontime0	10579.095044732	Sum of GTIs [s]
ontime1	10579.136084735	Sum of GTIs [s]
ontime2	10576.036124408	Sum of GTIs [s]
ontime3	10579.218164742	Sum of GTIs [s]
ontime6	10579.054004729	Sum of GTIs [s]
l2events	36204	Number of level 2 events



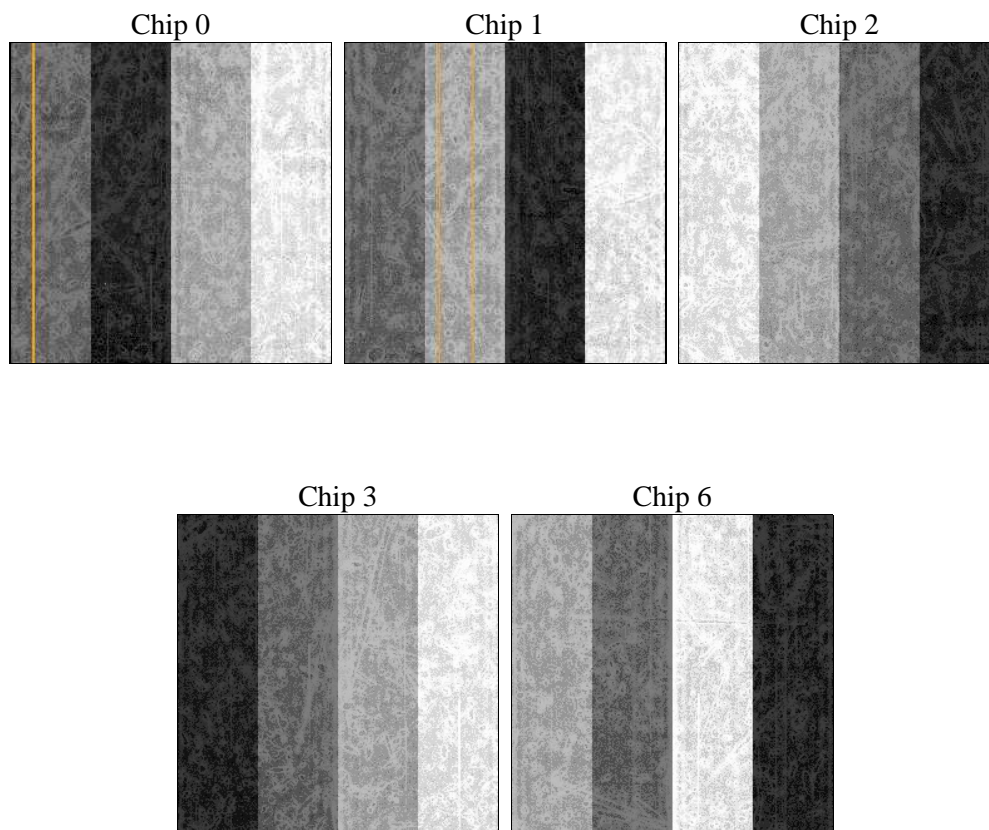
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10500.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	10579.218164742	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	10579.095044732	Sum of GTIs [s]
date	2014-11-30T07:32:12	Date and time of file creation	ontime1	10579.136084735	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10576.036124408	Sum of GTIs [s]
			ontime3	10579.218164742	Sum of GTIs [s]
			ontime6	10579.054004729	Sum of GTIs [s]
			l1events	259367	Number of level 1 events

2.1.4 Events

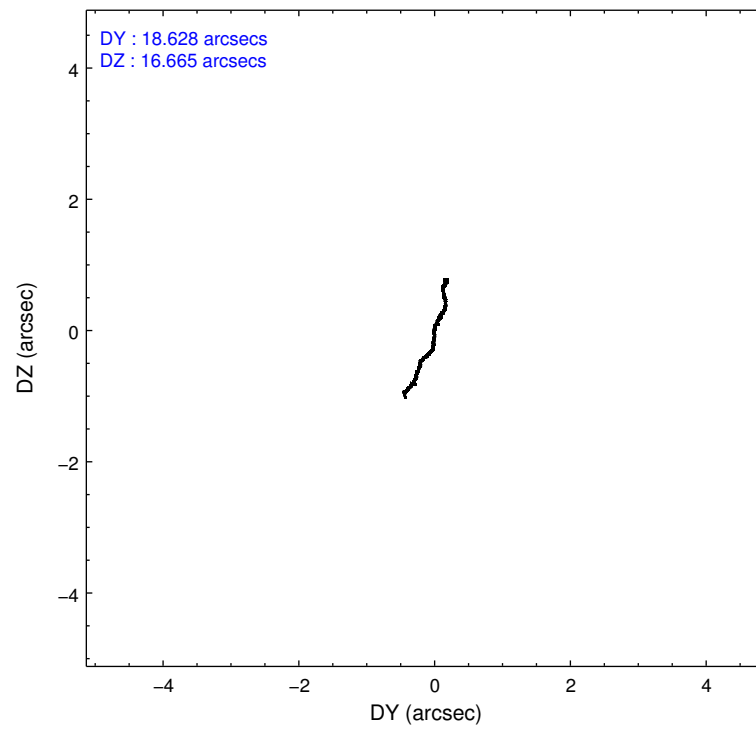
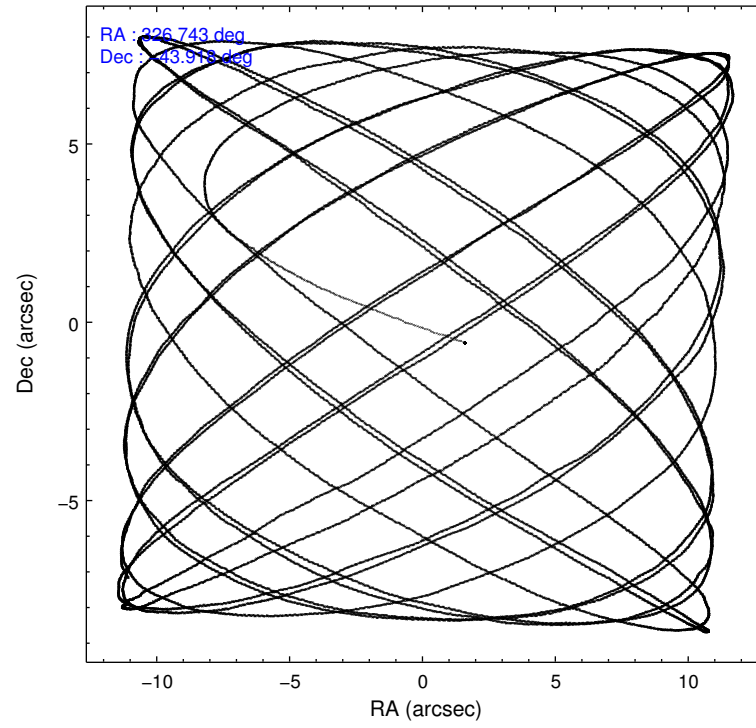
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	47509	50435	51954	57552	51917
rejected events	39951	41535	44164	46283	45801
rejected %	84%	82%	85%	80%	88%

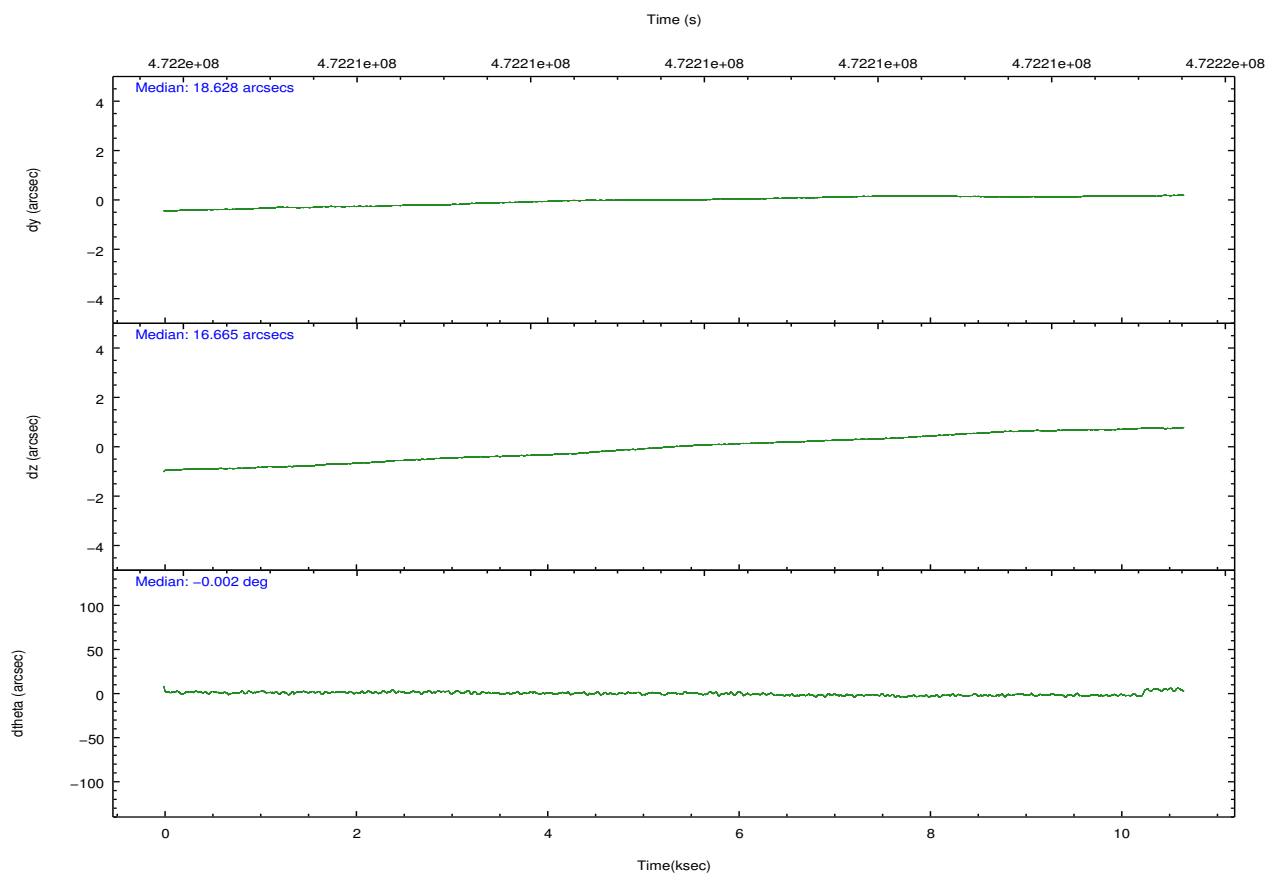
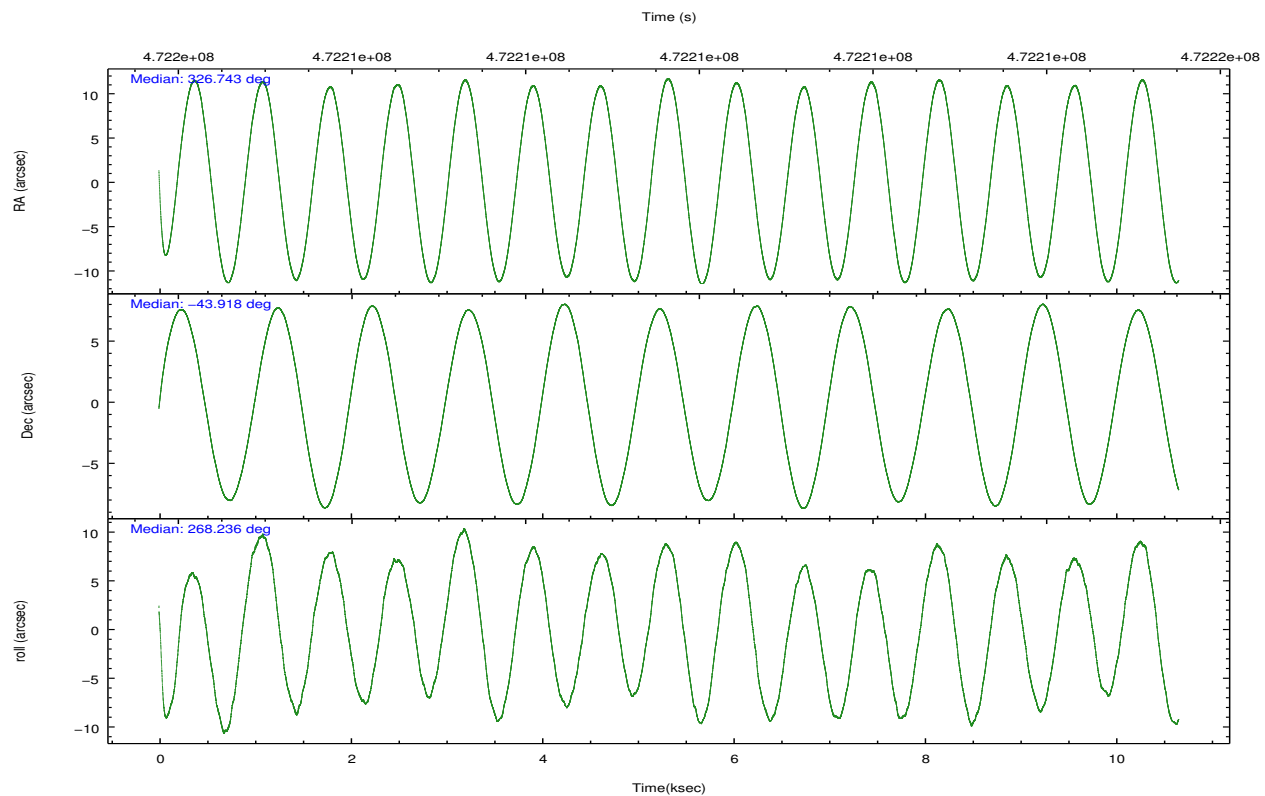
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3259	4294	3834	6648	2212
	6%	8%	7%	11%	4%
grade 1 events	34	33	36	42	23
	0%	0%	0%	0%	0%
grade 2 events	1705	1779	1625	1824	1362
	3%	3%	3%	3%	2%
grade 3 events	681	724	634	782	639
	1%	1%	1%	1%	1%
grade 4 events	664	753	654	773	635
	1%	1%	1%	1%	1%
grade 5 events	2110	2265	2041	2320	2245
	4%	4%	3%	4%	4%
grade 6 events	1253	1360	1056	1249	1275
	2%	2%	2%	2%	2%
grade 7 events	37803	39227	42074	43914	43526
	79%	77%	80%	76%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	326.724816	326.7430025395885	CCD I2 on	Y	Y
[deg] Pointing Dec	-43.893622	-43.9177394047487	CCD I3 on	Y	Y
[deg] Pointing Roll	268.020418	268.2417174404827	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	472204468.184000	472203357.74011	CCD S5 on	N	N
Observation start date	2012-12-18T07:53:21	2012-12-18T07:35:57	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	472214968.184000	472215828.91578	On-chip summing requested	N	N
Observation end date	2012-12-18T10:48:21	2012-12-18T11:03:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



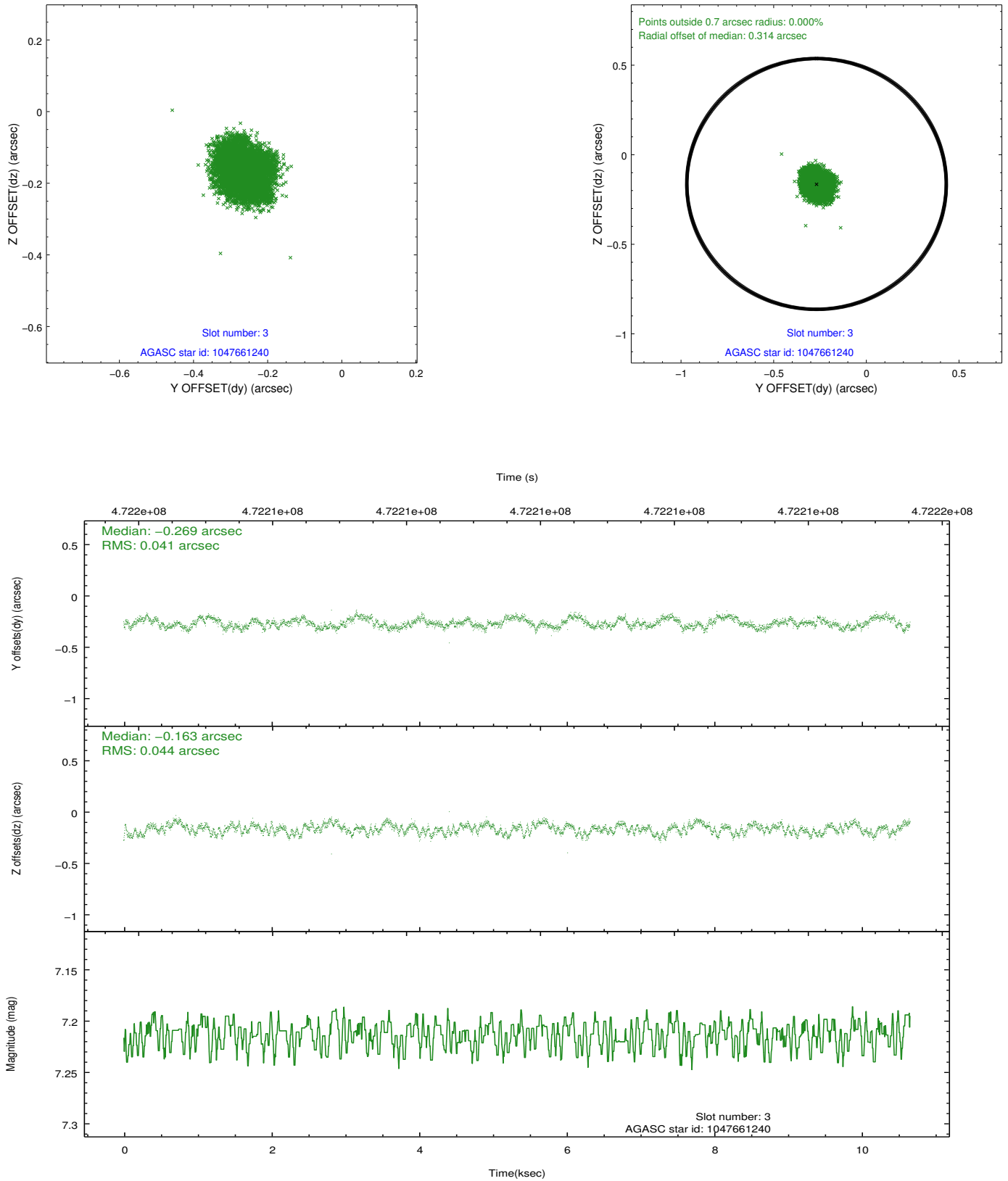


Slot Statistics

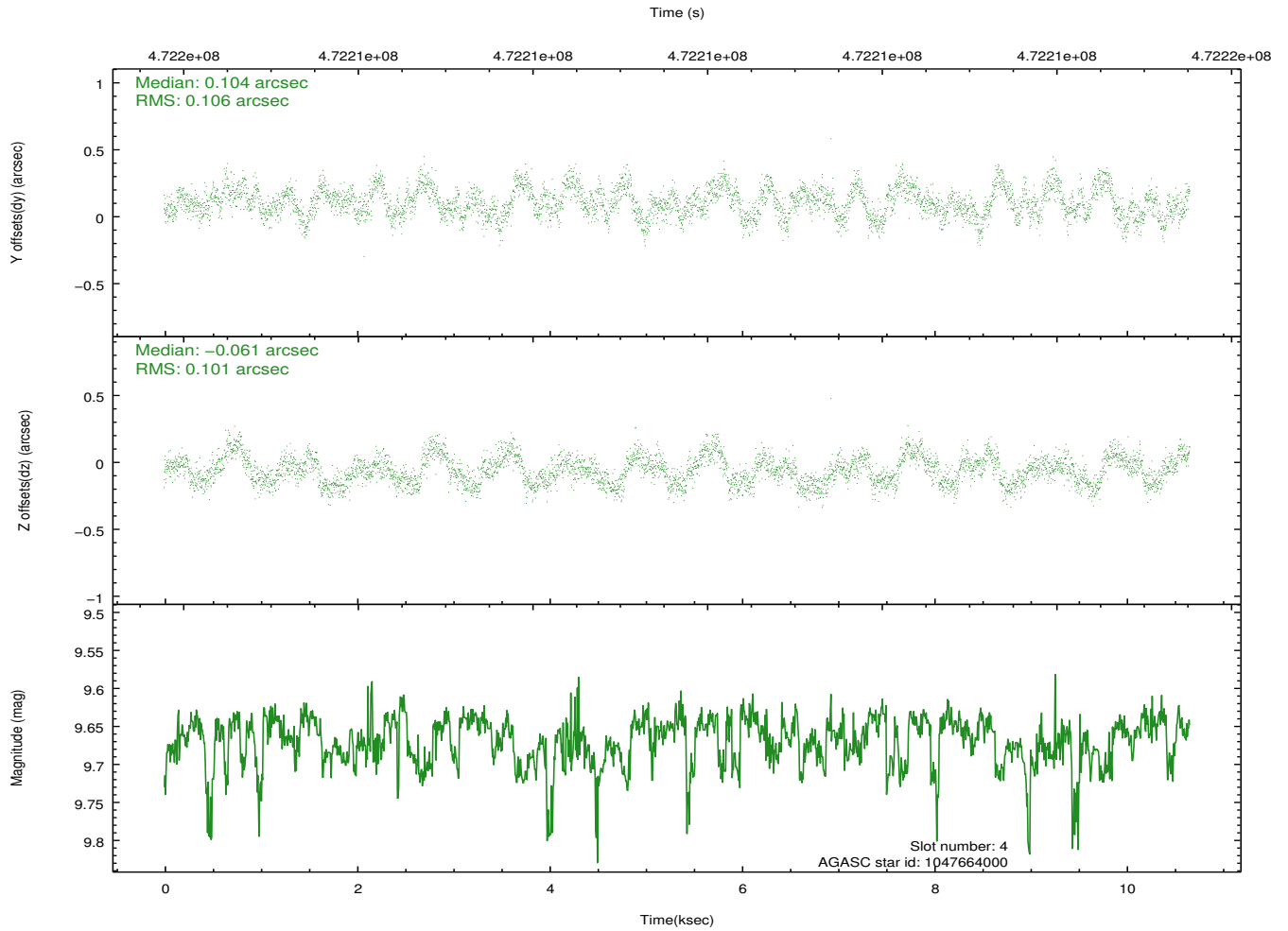
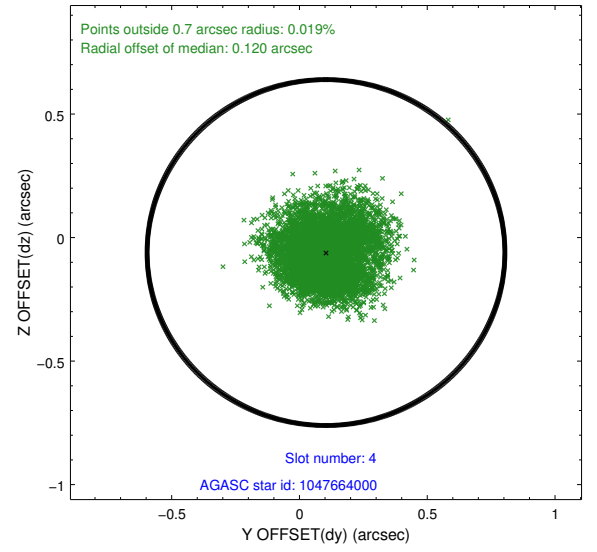
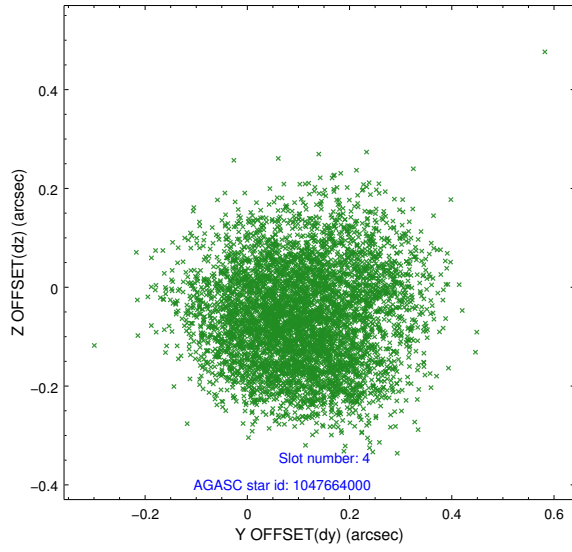
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.15	2600	-0.071	-0.026	0.013	0.044	0.000000	0.000000	920.71	-840.27
1	FID		ACIS-I-2	7.06	2600	-0.194	-0.090	0.010	0.020	0.000000	0.000000	-773.24	-847.03
2	FID		ACIS-I-4	7.07	2597	0.167	0.184	0.013	0.024	0.000000	0.000000	2140.60	1059.49
3	GUIDE	used	1047661240	7.21	5201	-0.269	-0.163	0.066	0.096	326.955541	-44.005043	381.66	610.93
4	GUIDE	used	1047664000	9.67	5165	0.104	-0.061	0.159	0.244	326.894219	-44.487197	2121.63	509.15
5	GUIDE	used	1047664568	9.80	5196	0.168	0.055	0.190	0.311	326.227415	-44.482821	2169.22	-1202.65
6	GUIDE	used	1047791608	8.39	5199	-0.026	-0.028	0.099	0.157	327.531967	-43.430936	-1726.32	2051.83
7	GUIDE	used	1047663632	8.72	5199	0.014	0.209	0.085	0.138	325.833948	-43.391538	-1712.07	-2390.23

2.4 Star Slots

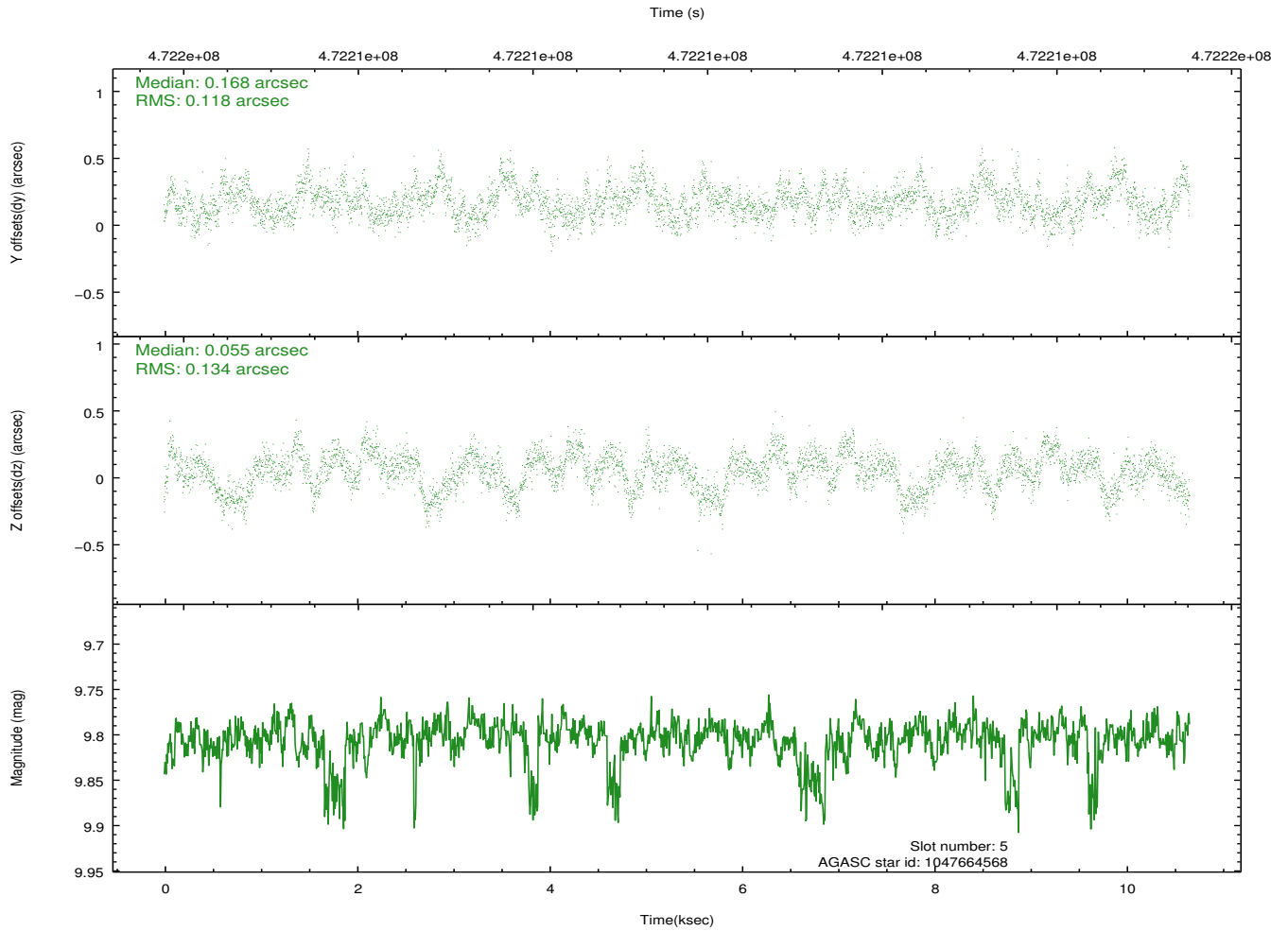
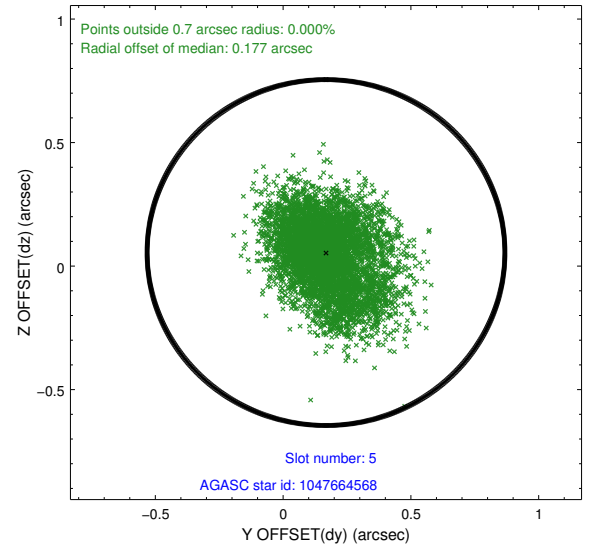
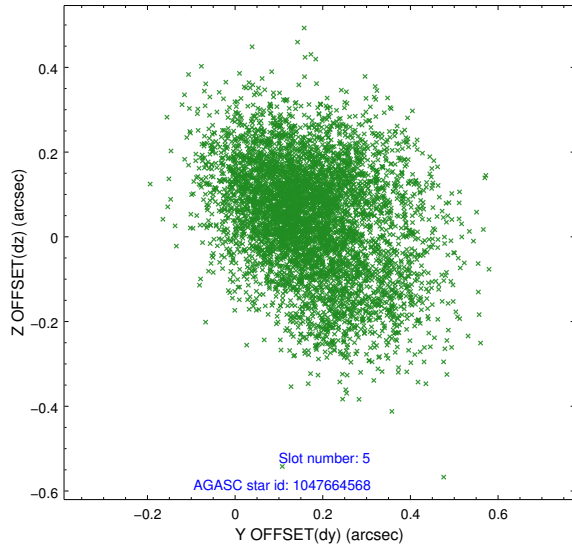
2.4.1 Slot 3



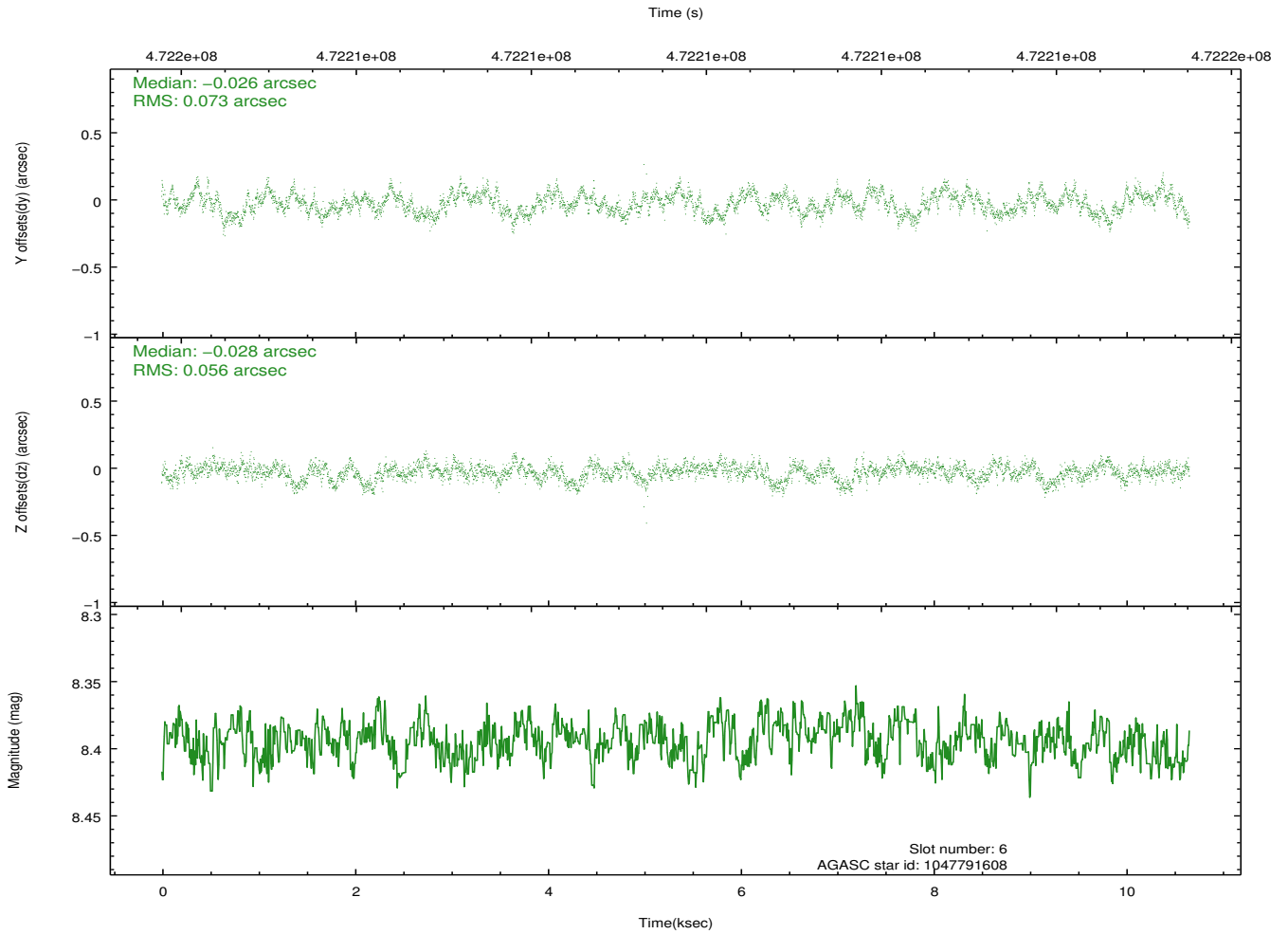
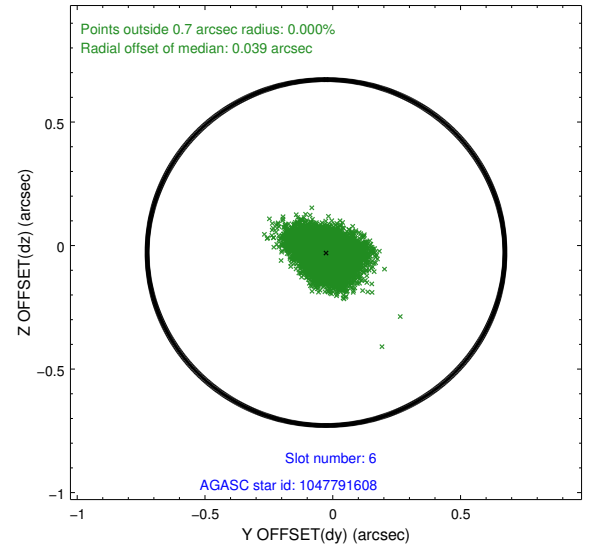
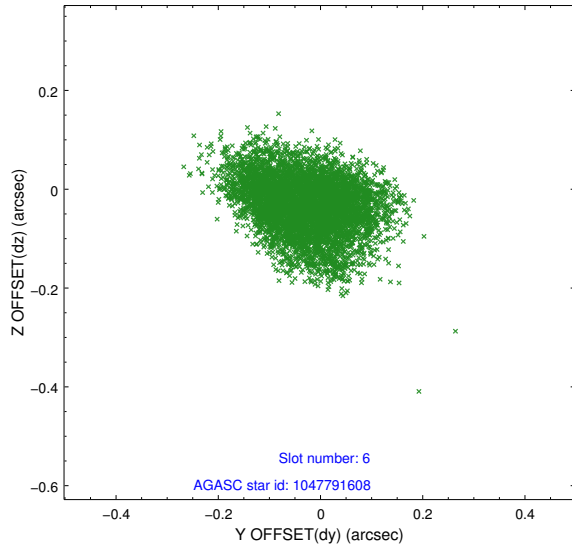
2.4.2 Slot 4



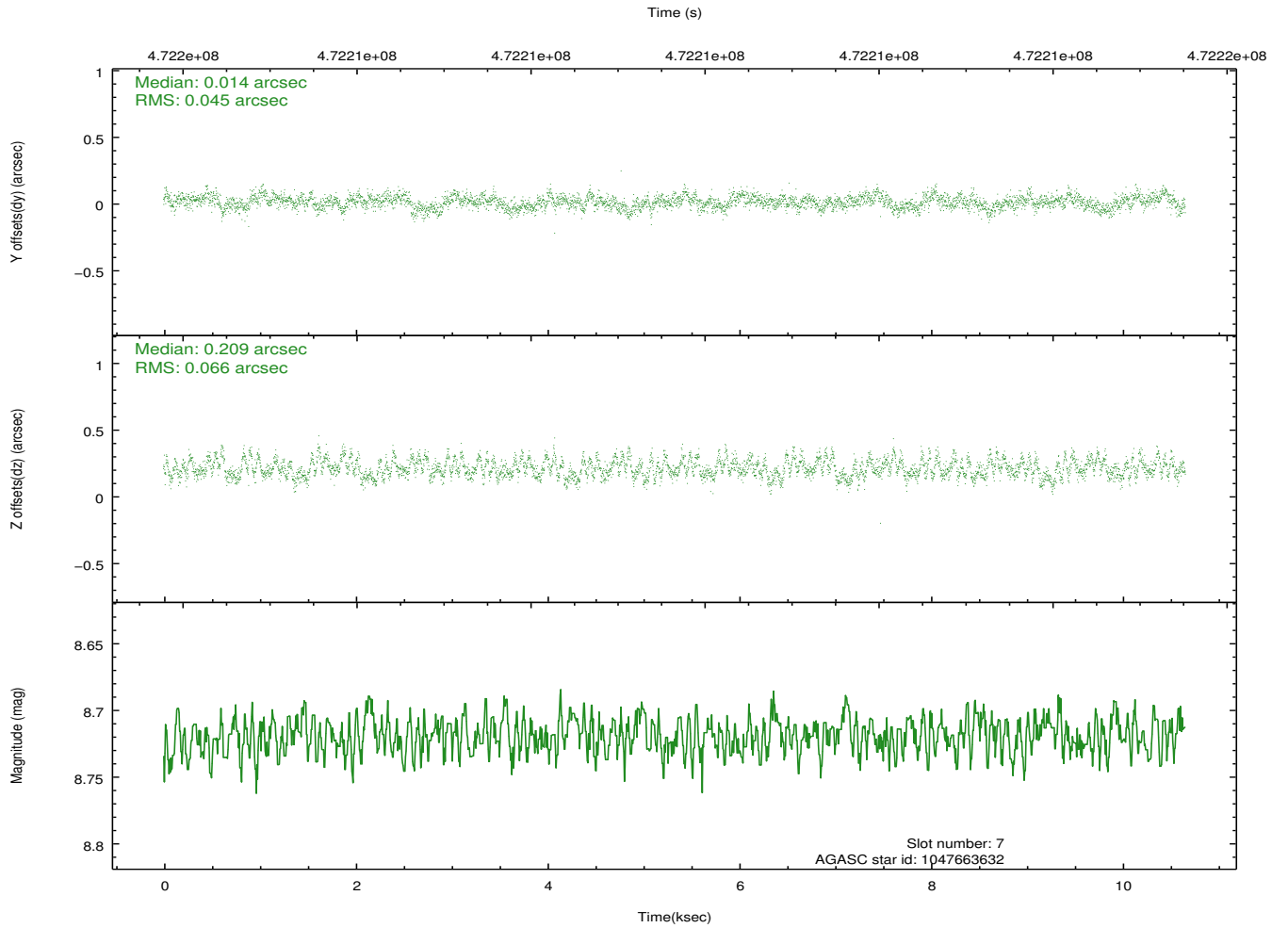
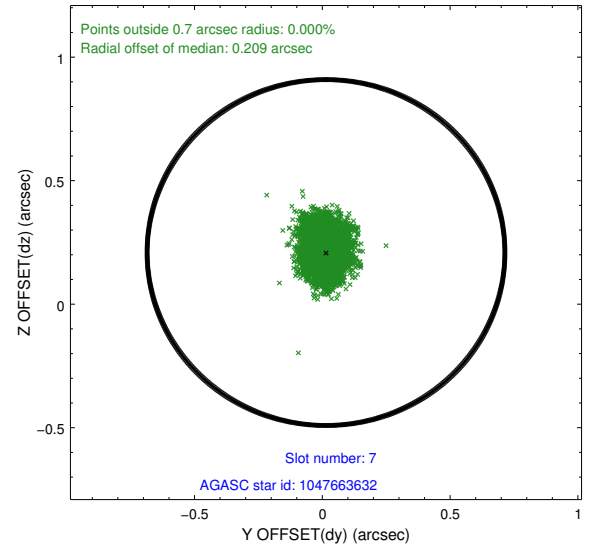
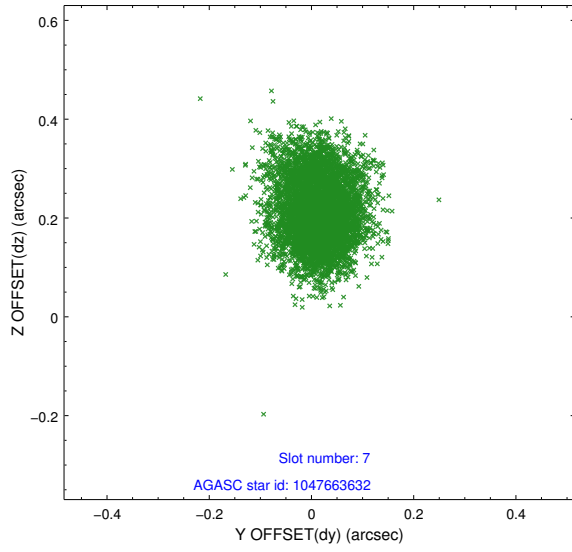
2.4.3 Slot 5



2.4.4 Slot 6

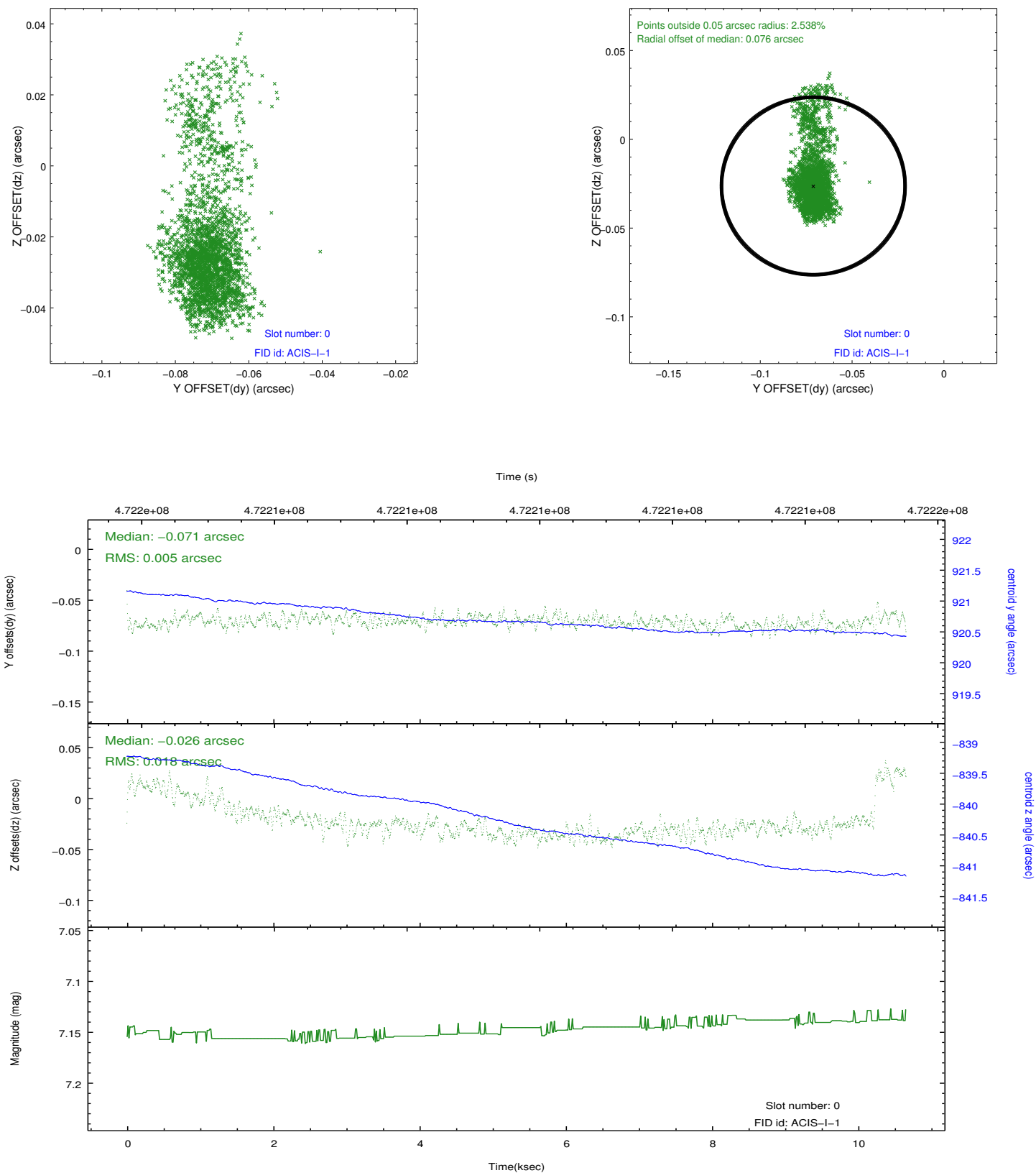


2.4.5 Slot 7

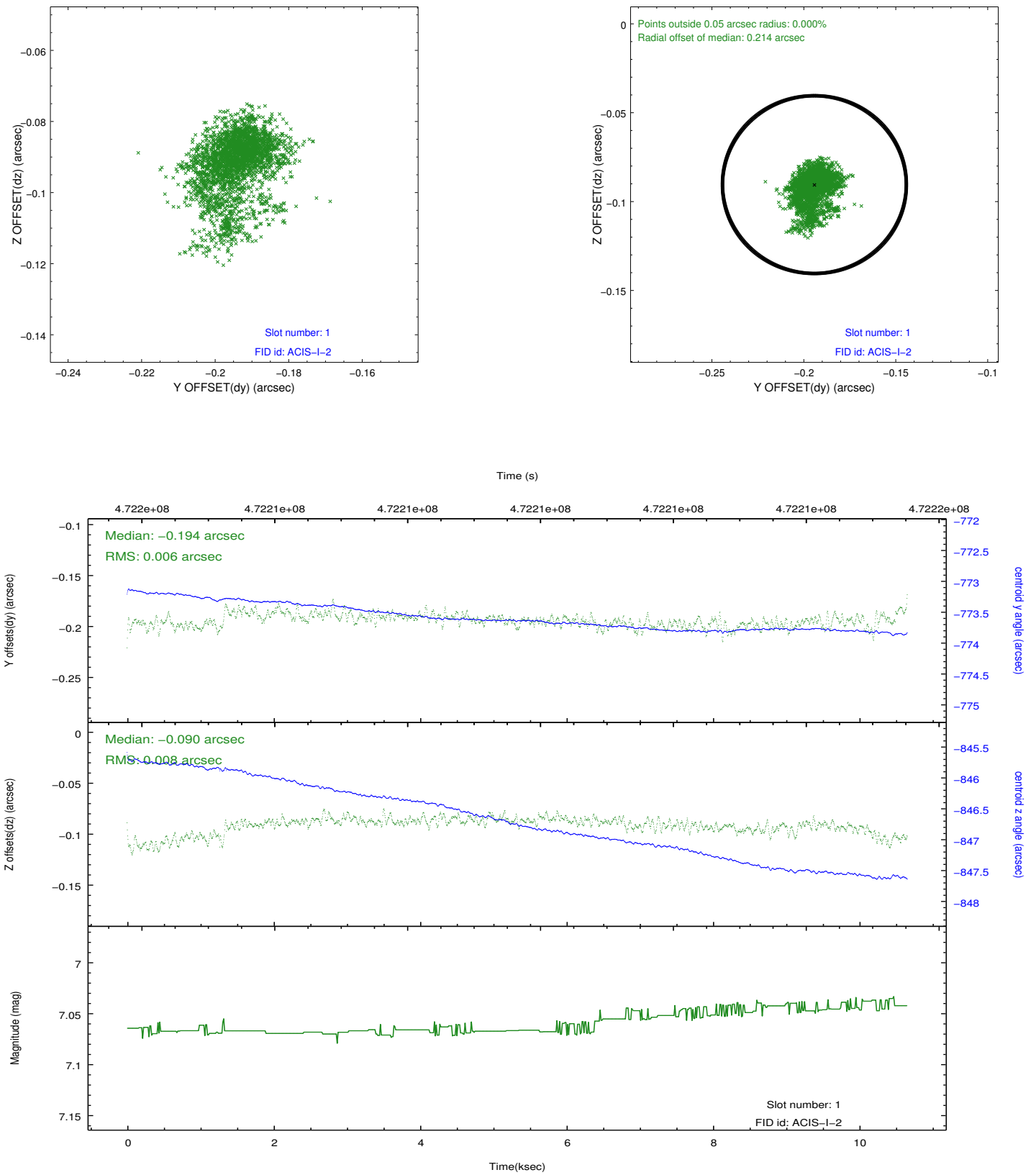


2.5 FID Slots

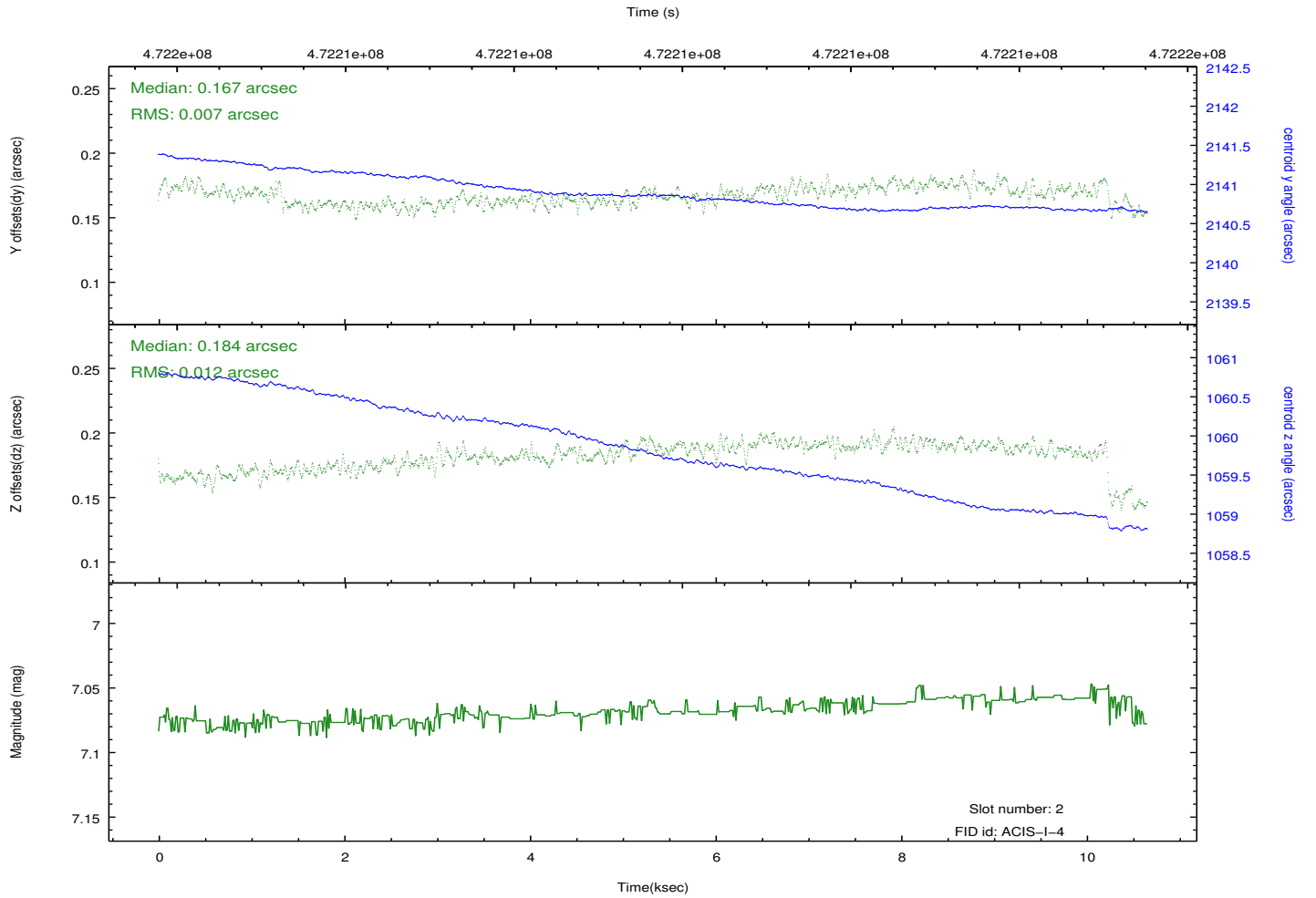
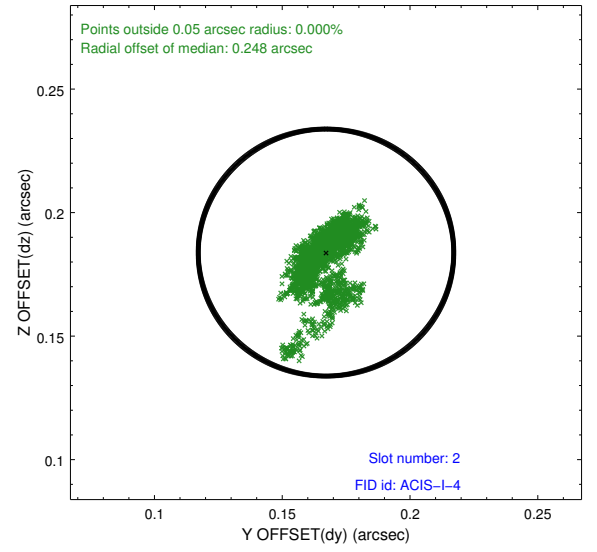
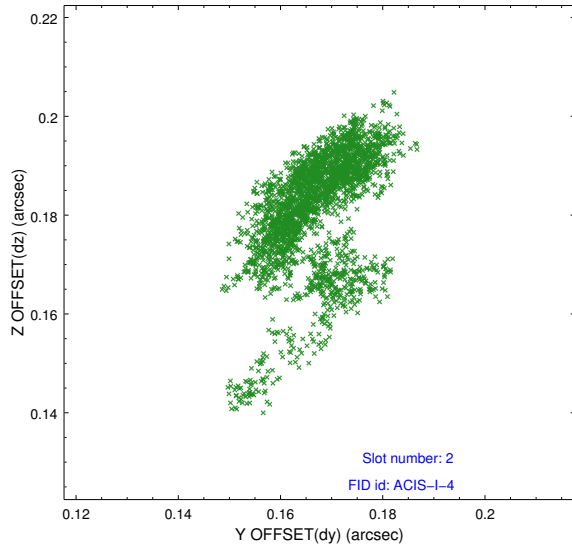
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.579218164742

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.