

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15281 - L2 Version 2
Chandra X-Ray Center

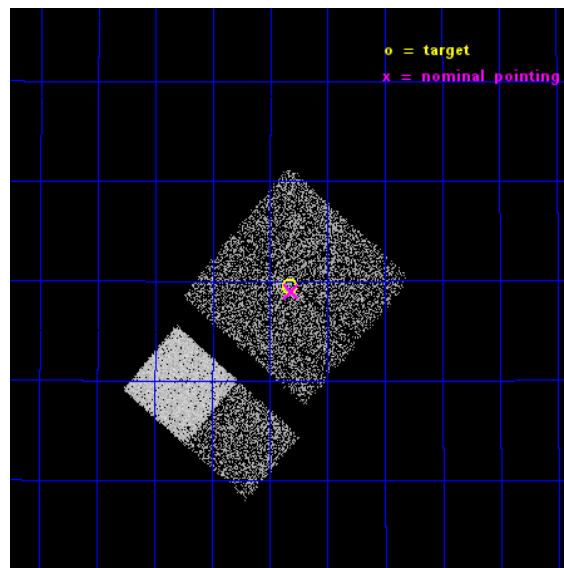
L2 Processing Date : Dec 1 2014

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1 Front

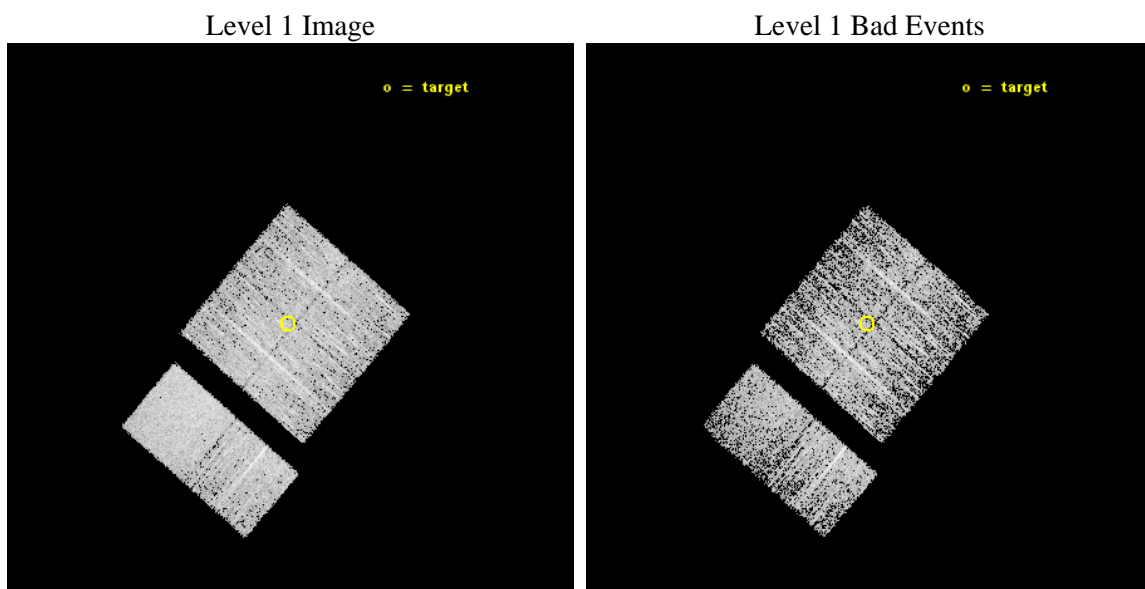
seq_num	801319	Sequence number
obs_id	15281	Observation id
title	Paving the way for eROSITA: with Chandra observations of the CODEX-BOSS clusters	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	CODEX 25094	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	143.95875	Observer's specified target RA [deg]
dec_targ	36.656417	Observer's specified target Dec [deg]
ra_nom	143.95348045336	Nominal RA [deg]
dec_nom	36.649508397394	Nominal Dec [deg]
roll_nom	220.7152618295	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3964.0759029984	Sum of GTIs [s]
livetime	3913.8803870347	Livetime [s]
ontime0	3963.9527829885	Sum of GTIs [s]
ontime1	3963.9938229918	Sum of GTIs [s]
ontime2	3964.0348629951	Sum of GTIs [s]
ontime3	3964.0759029984	Sum of GTIs [s]
ontime6	3964.157983005	Sum of GTIs [s]
ontime7	3964.1169430017	Sum of GTIs [s]
l2events	23822	Number of level 2 events



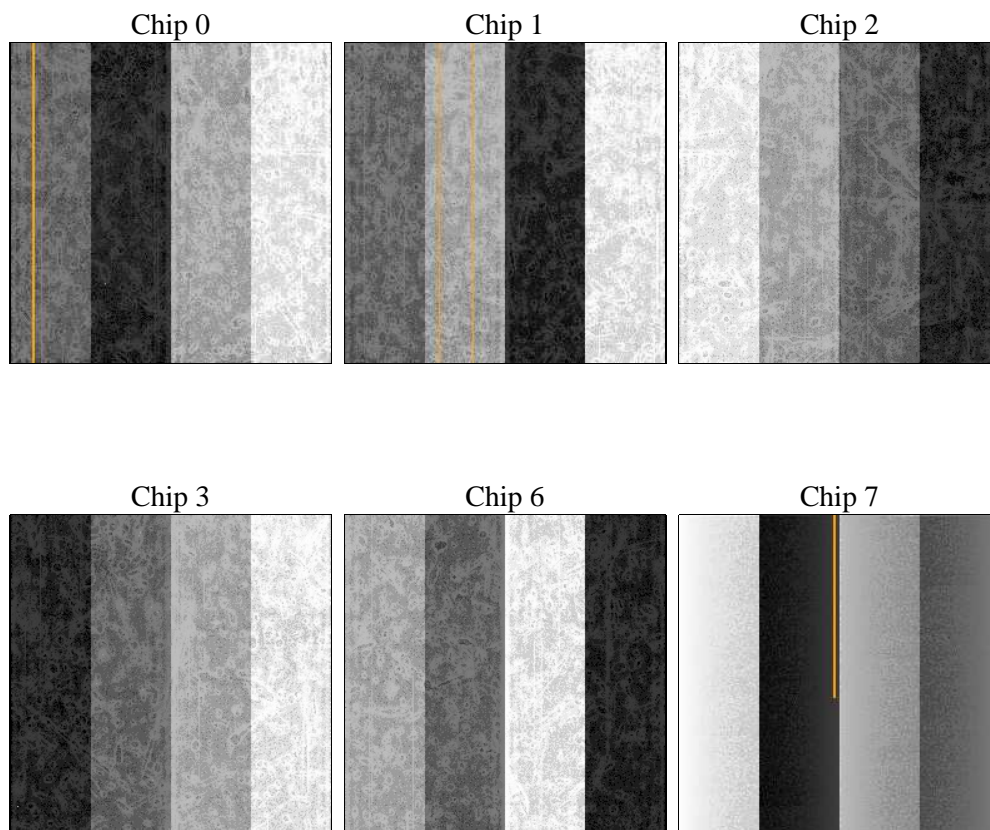
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	3964.0759029984	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	3963.9527829885	Sum of GTIs [s]
date	2014-12-01T19:17:41	Date and time of file creation	ontime1	3963.9938229918	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	3964.0348629951	Sum of GTIs [s]
			ontime3	3964.0759029984	Sum of GTIs [s]
			ontime6	3964.157983005	Sum of GTIs [s]
			ontime7	3964.1169430017	Sum of GTIs [s]
			l1events	137714	Number of level 1 events

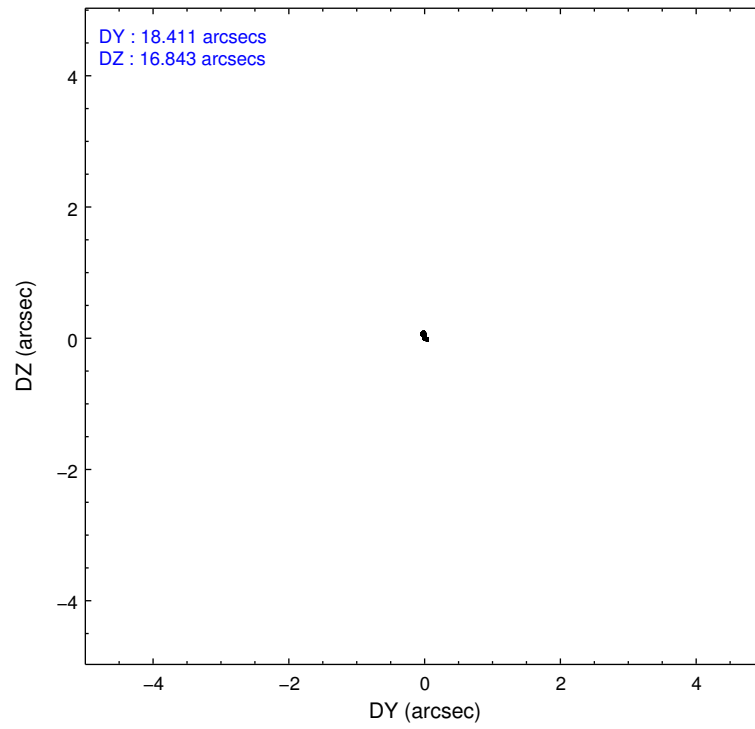
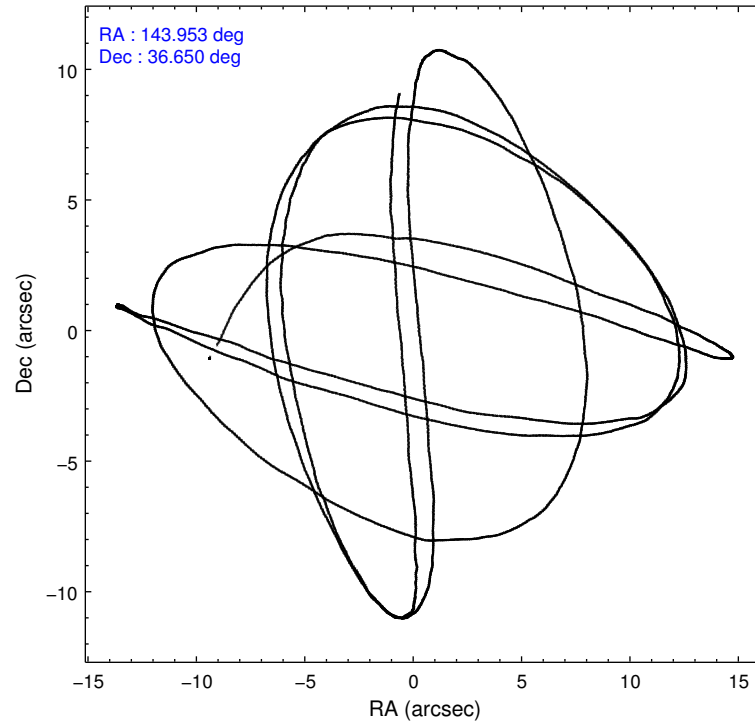
2.1.4 Events

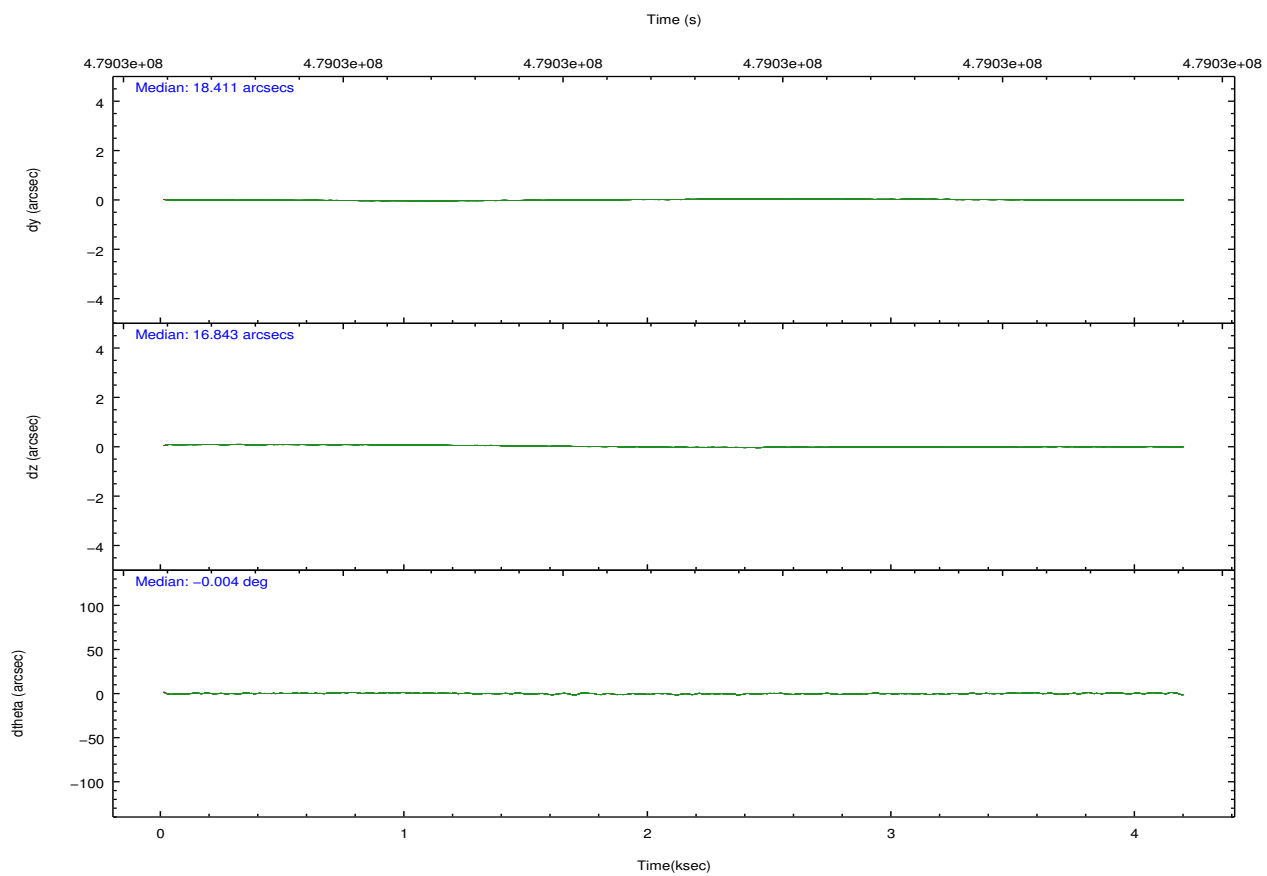
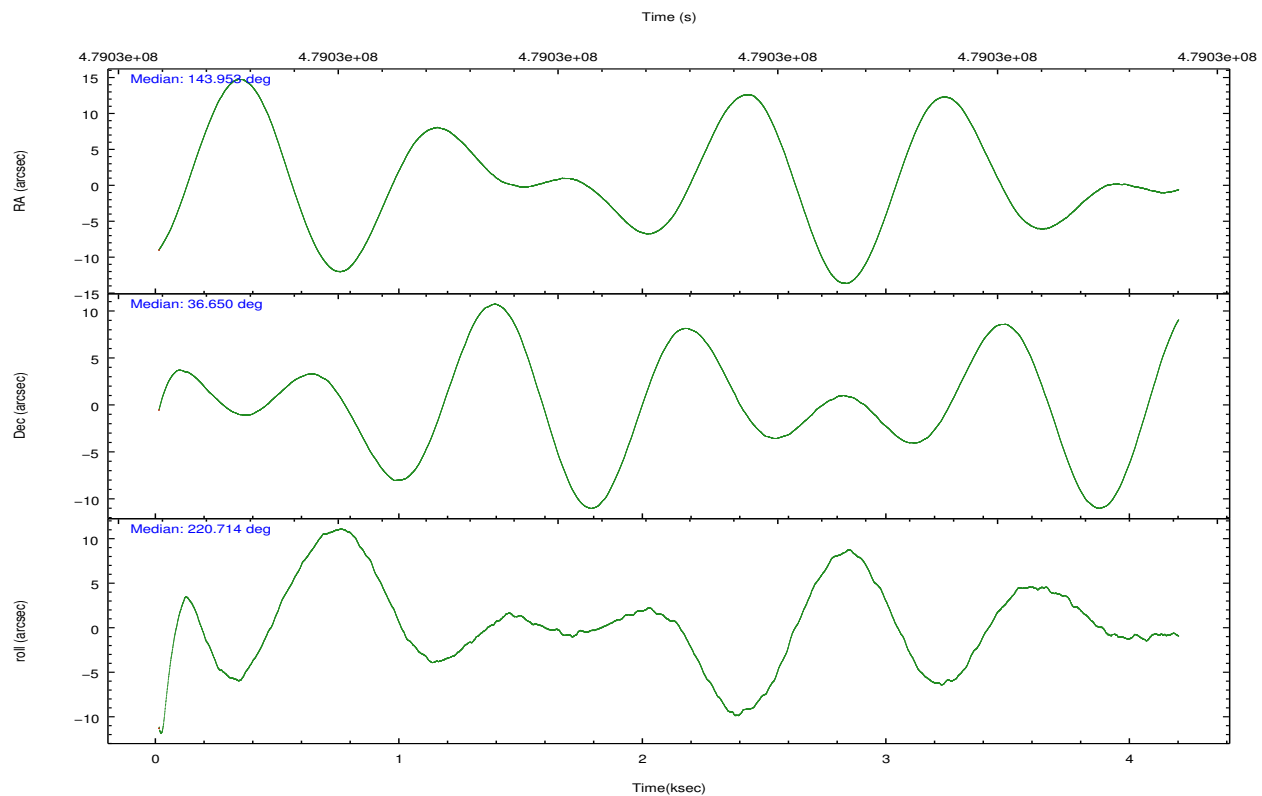
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	20866	19982	22621	21750	23124	29371	grade 0 events	909	1025	1009	1058	911	1122
rejected events	18293	17037	19963	19170	20446	16482		4%	5%	4%	4%	3%	3%
rejected %	87%	85%	88%	88%	88%	56%	grade 1 events	14	18	11	16	14	34
								0%	0%	0%	0%	0%	0%
							grade 2 events	639	741	631	486	605	2674
								3%	3%	2%	2%	2%	9%
							grade 3 events	289	261	257	282	284	1130
								1%	1%	1%	1%	1%	3%
							grade 4 events	232	291	280	246	272	1105
								1%	1%	1%	1%	1%	3%
							grade 5 events	912	1000	921	1117	1177	2967
								4%	5%	4%	5%	5%	10%
							grade 6 events	511	627	489	514	609	6878
								2%	3%	2%	2%	2%	23%
							grade 7 events	17360	16019	19023	18031	19252	13461
								83%	80%	84%	82%	83%	45%

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	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	143.964609	143.9534804533624	CCD I2 on	Y	Y
[deg] Pointing Dec	36.675554	36.64950839739372	CCD I3 on	Y	Y
[deg] Pointing Roll	220.499976	220.7152618294981	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	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	479029611.184000	479028645.02095	CCD S5 on	N	N
Observation start date	2013-03-07T07:45:44	2013-03-07T07:30:45	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	479033611.184000	479034790.40879	On-chip summing requested	N	N
Observation end date	2013-03-07T08:52:24	2013-03-07T09:13:10	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



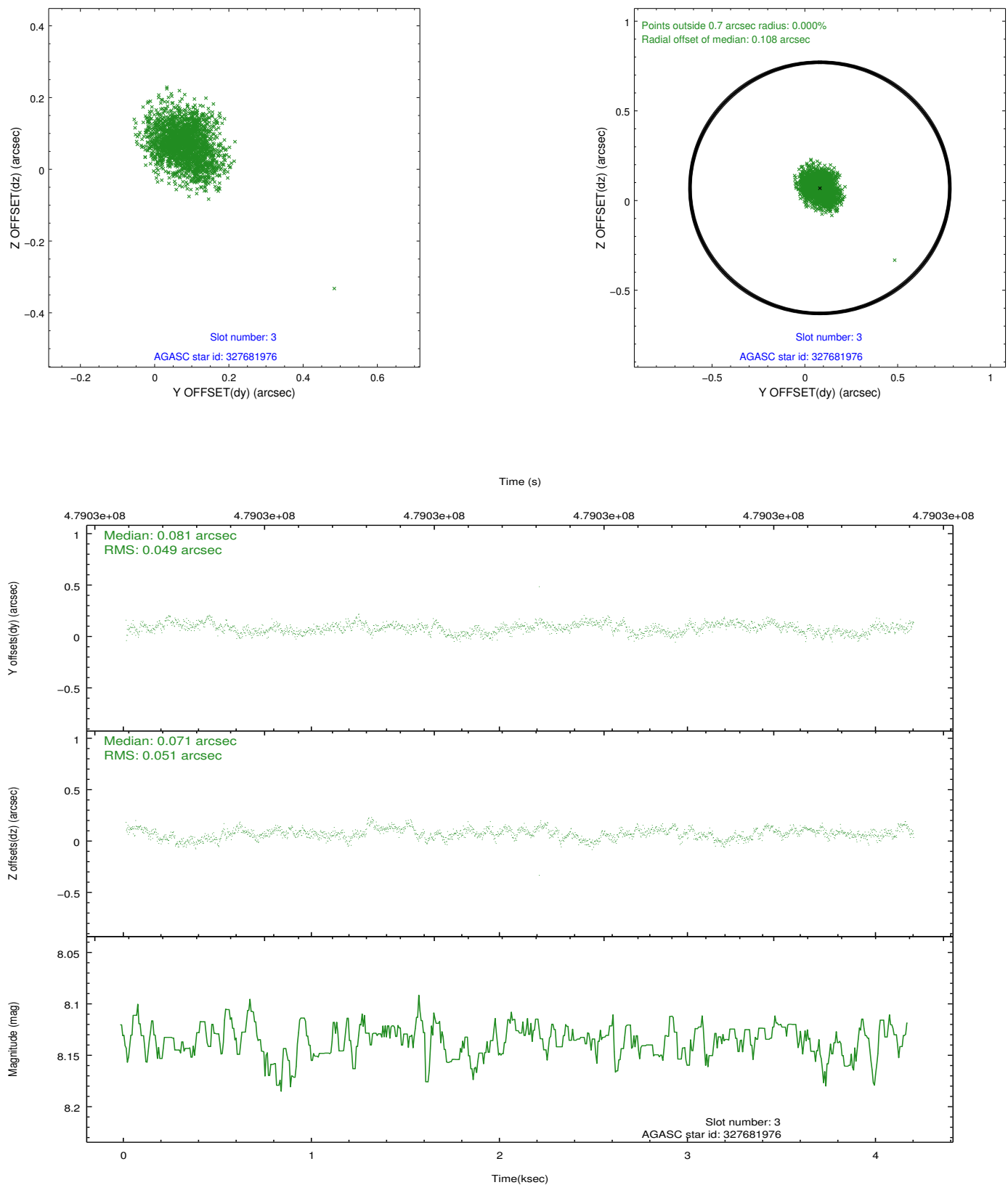


Slot Statistics

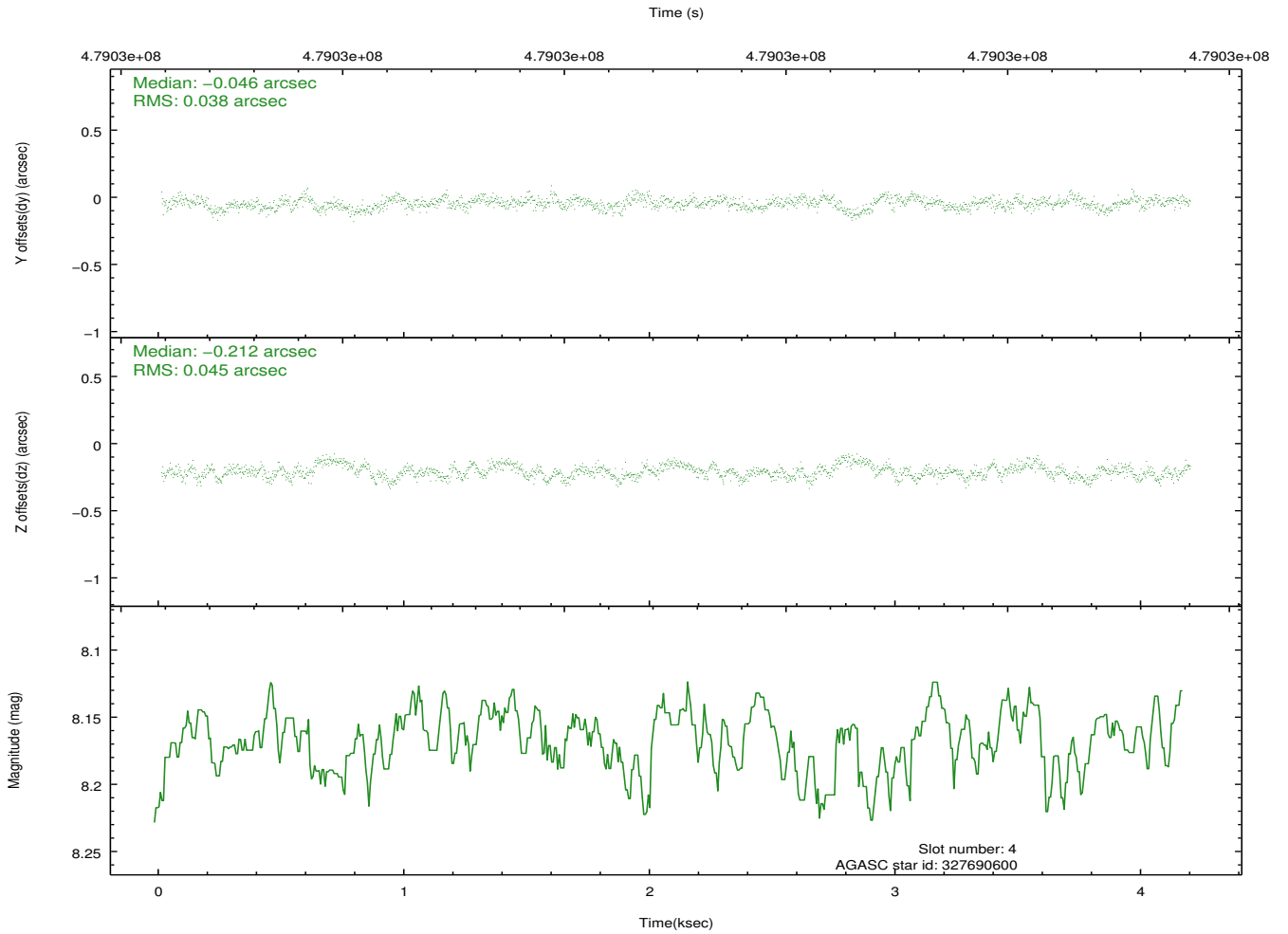
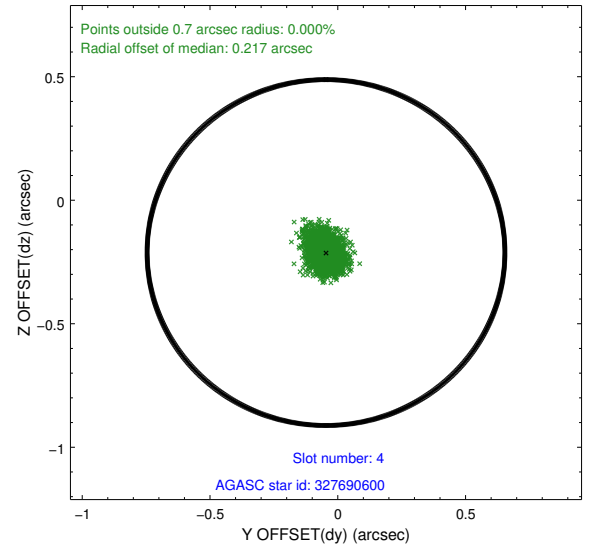
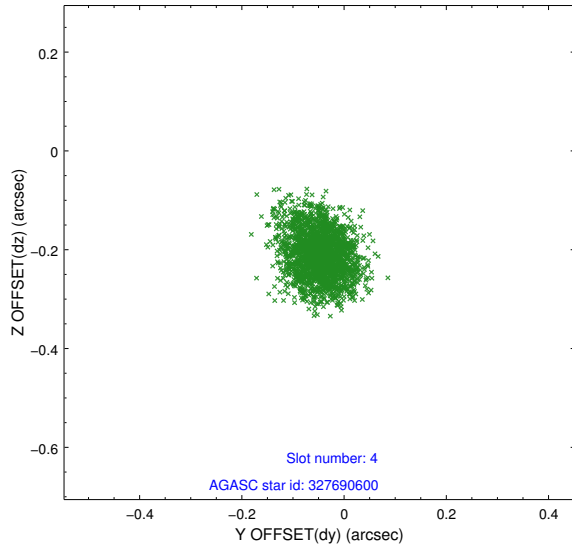
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.17	1022	0.124	-0.048	0.006	0.012	0.000000	0.000000	921.11	-840.52
1	FID		ACIS-I-2	7.07	1022	-0.028	-0.073	0.009	0.017	0.000000	0.000000	-772.32	-847.80
2	FID		ACIS-I-5	7.15	1022	-0.189	0.193	0.007	0.013	0.000000	0.000000	-1828.23	1056.35
3	GUIDE	used	327681976	8.13	2044	0.081	0.071	0.075	0.118	143.311340	36.646801	1500.67	-1149.36
4	GUIDE	used	327690600	8.17	2043	-0.046	-0.212	0.063	0.103	143.878260	36.291546	1089.24	887.73
5	GUIDE	used	327691984	7.97	2044	0.009	0.100	0.058	0.096	143.505053	36.422117	1603.92	-172.60
6	GUIDE	used	328605440	8.94	2044	-0.028	-0.068	0.100	0.161	144.450814	36.594177	-879.16	1132.73
7	GUIDE	used	392169744	8.25	2042	-0.011	0.102	0.074	0.126	144.017823	37.552878	-2165.11	-2302.40

2.4 Star Slots

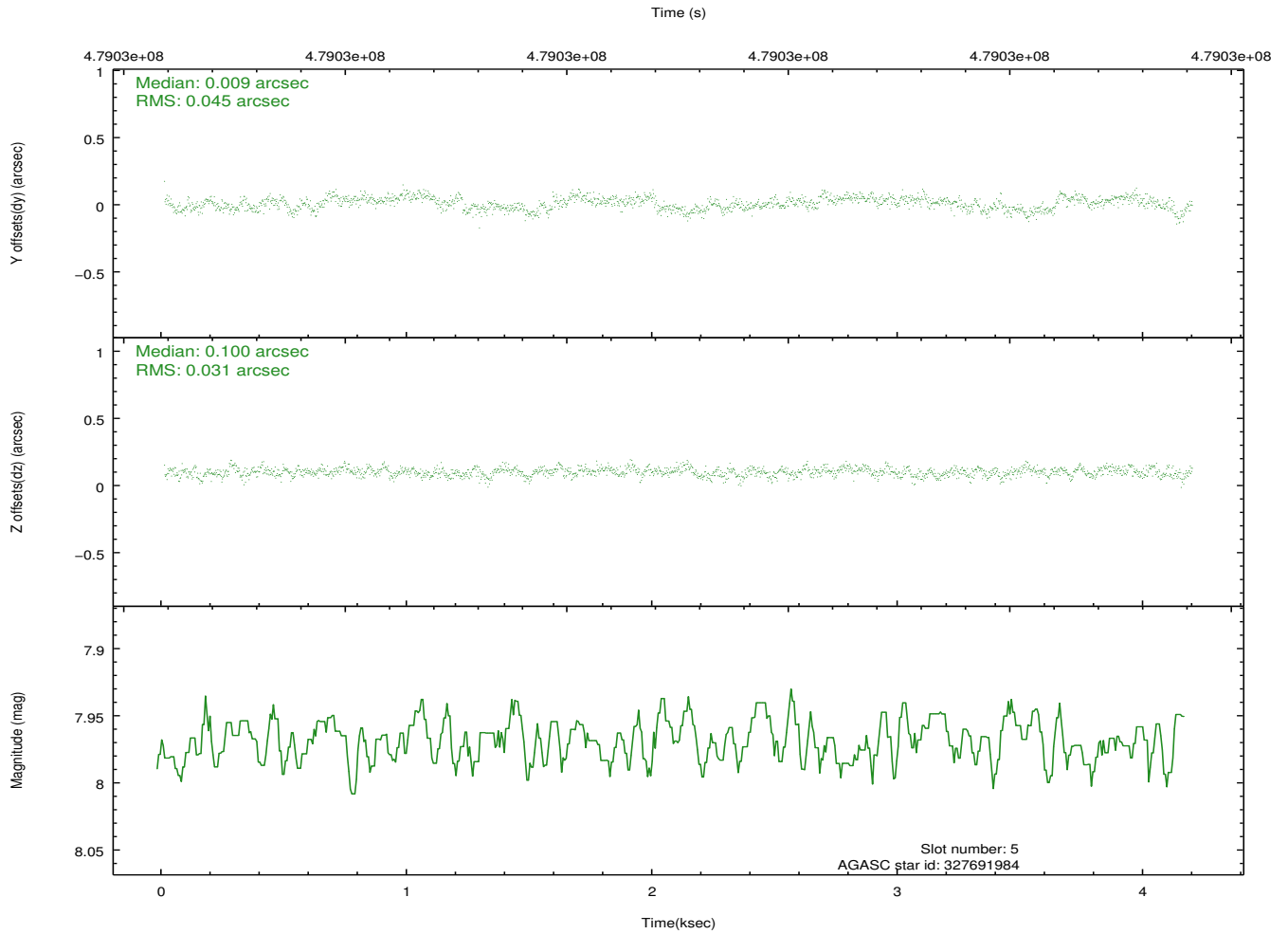
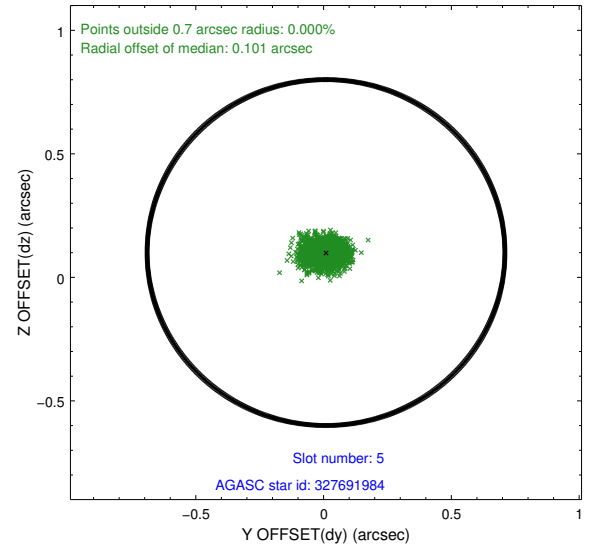
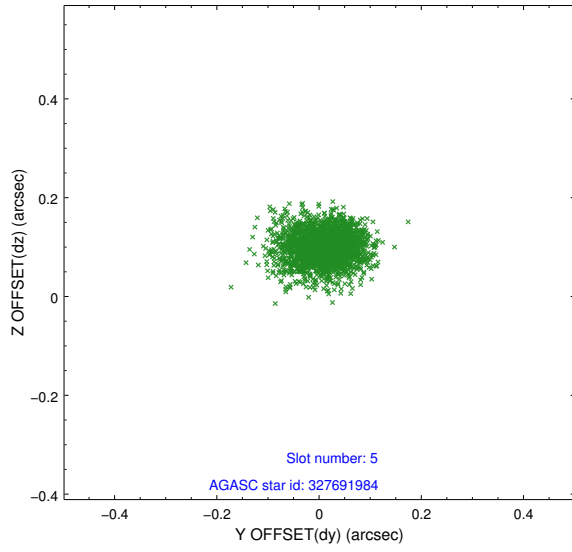
2.4.1 Slot 3



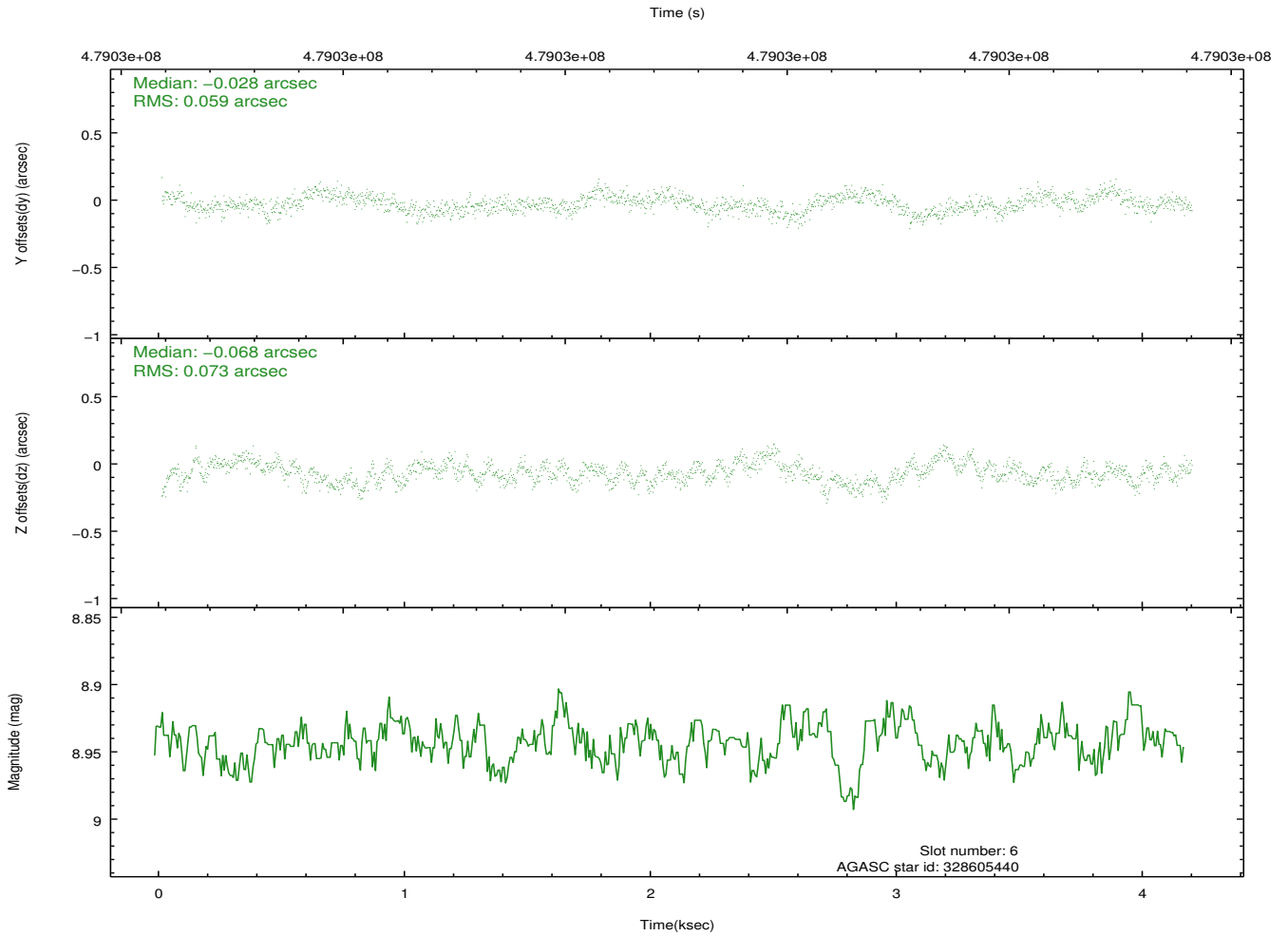
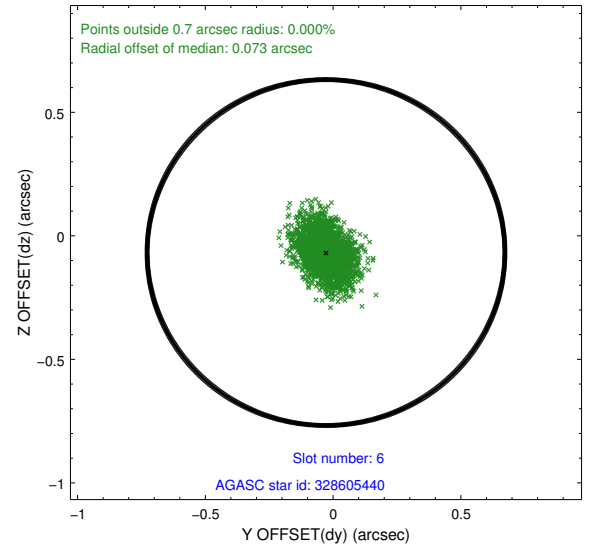
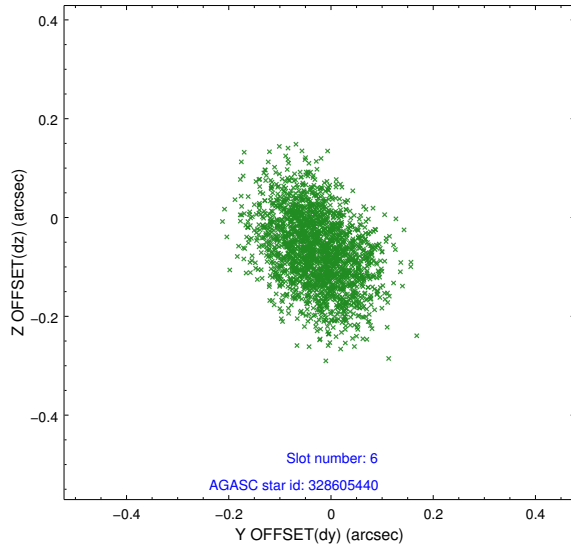
2.4.2 Slot 4



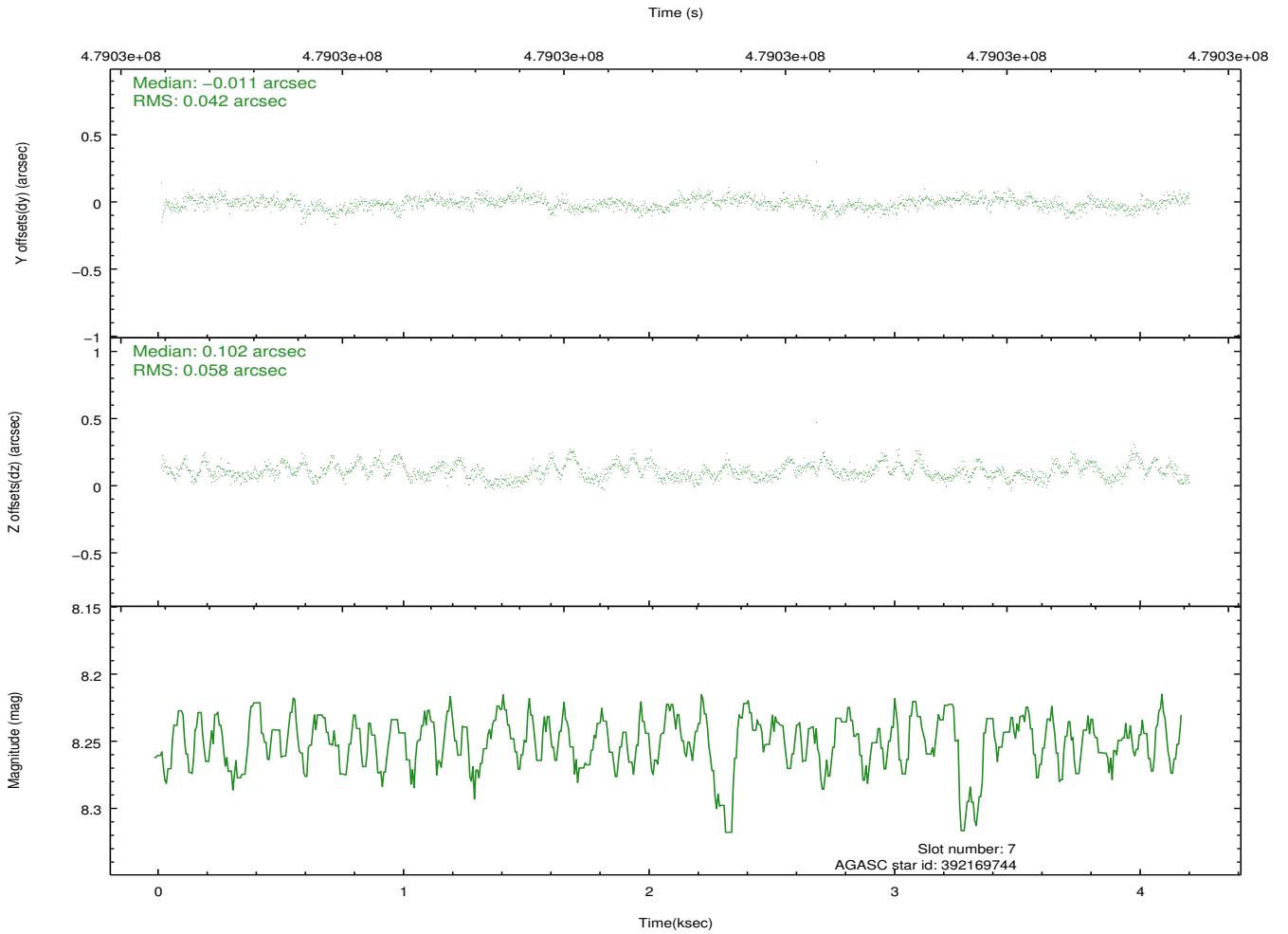
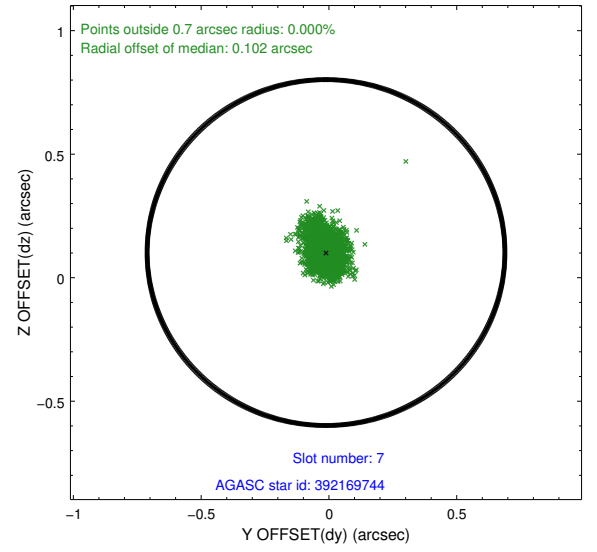
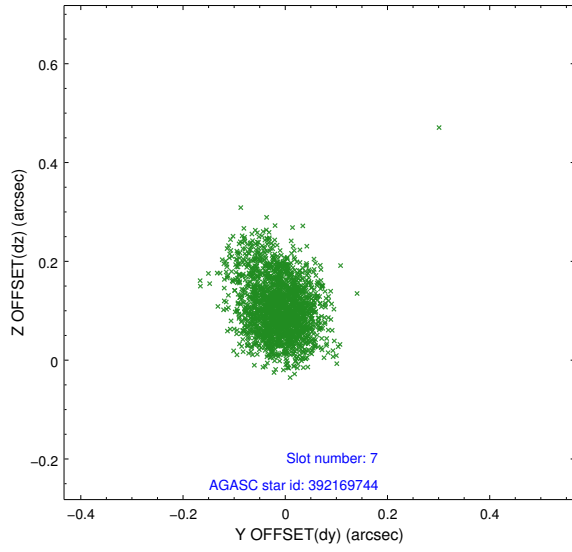
2.4.3 Slot 5



2.4.4 Slot 6

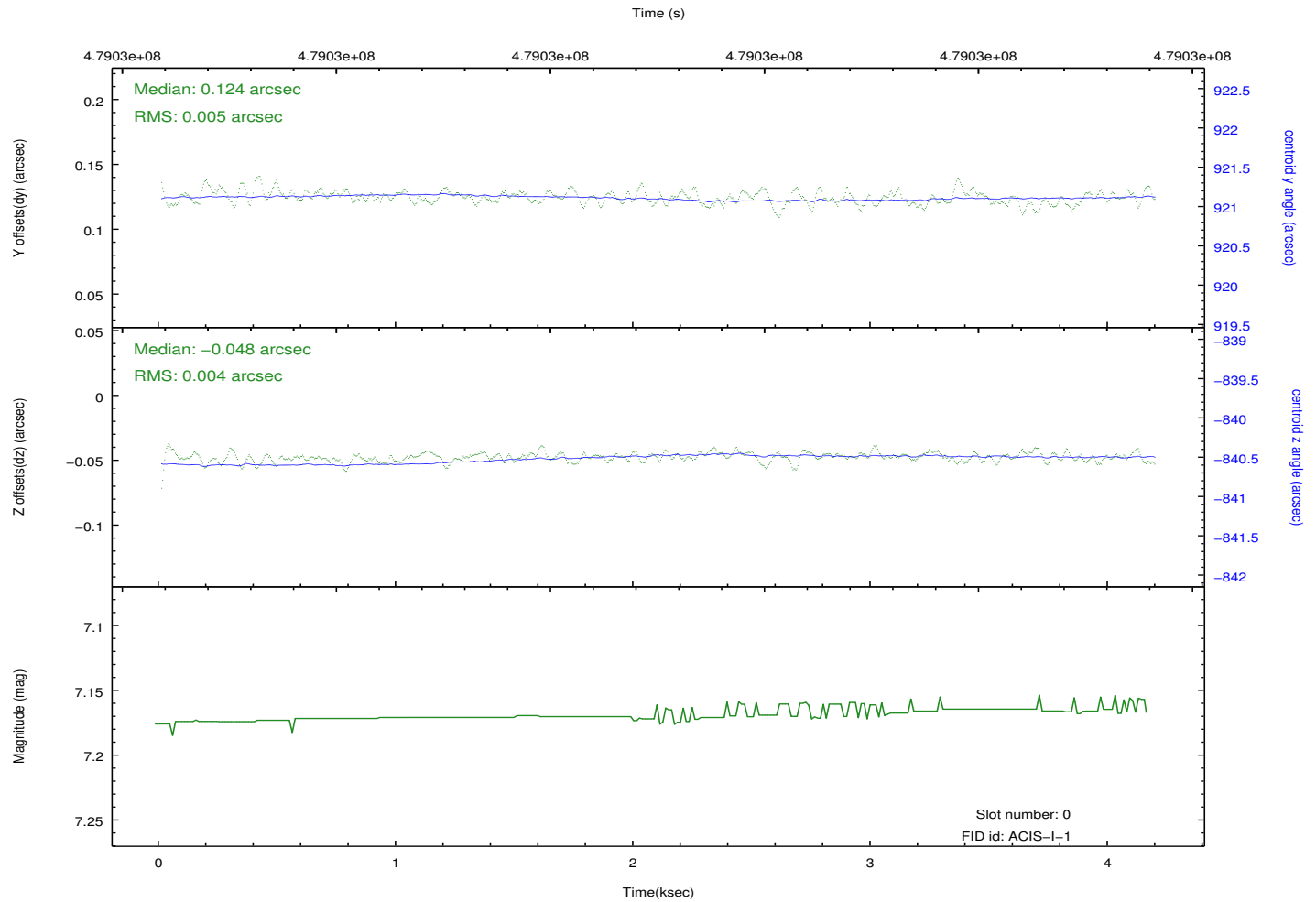
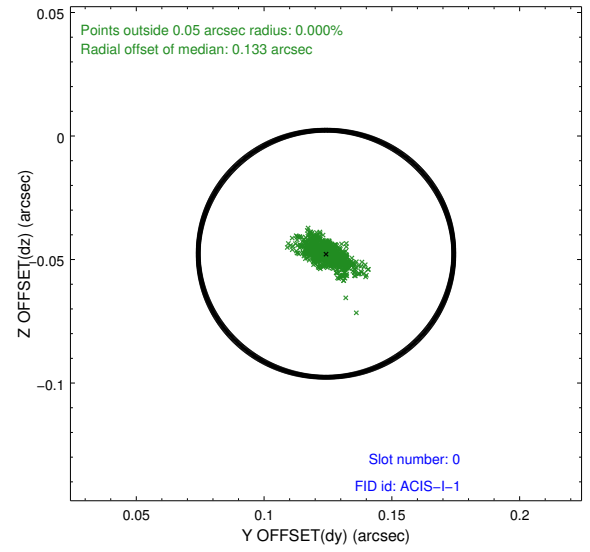
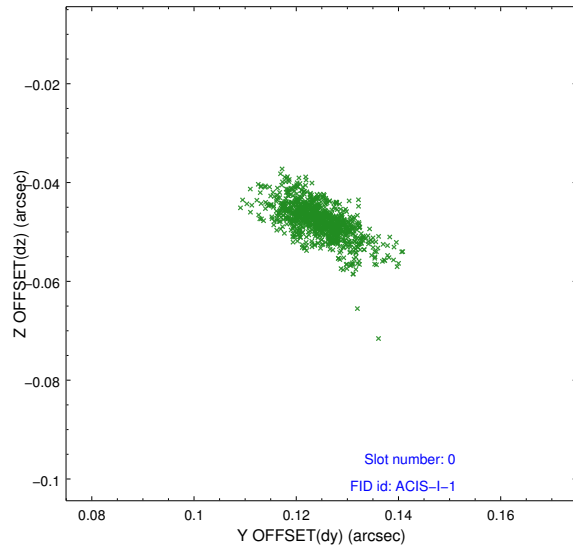


2.4.5 Slot 7

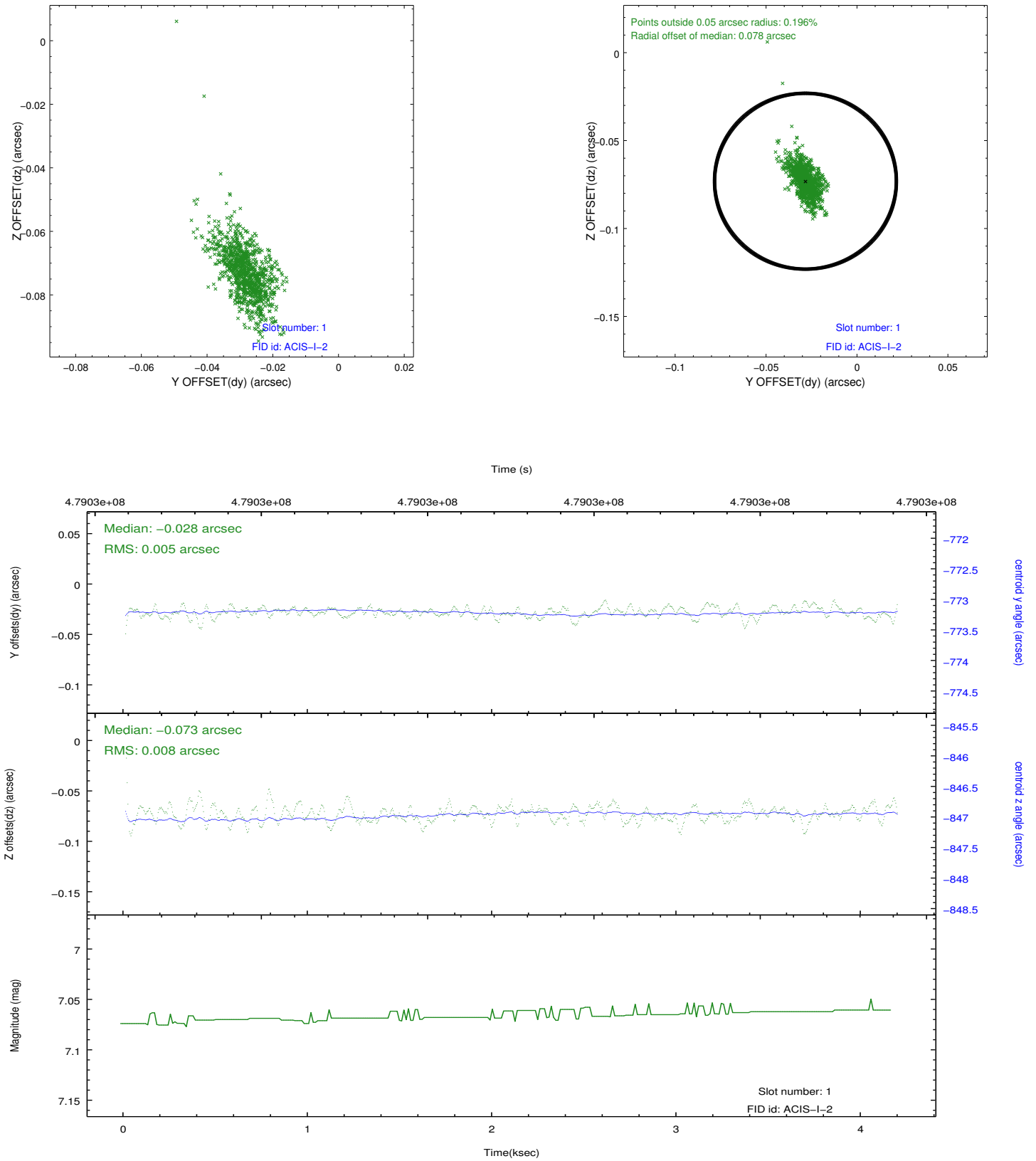


2.5 FID Slots

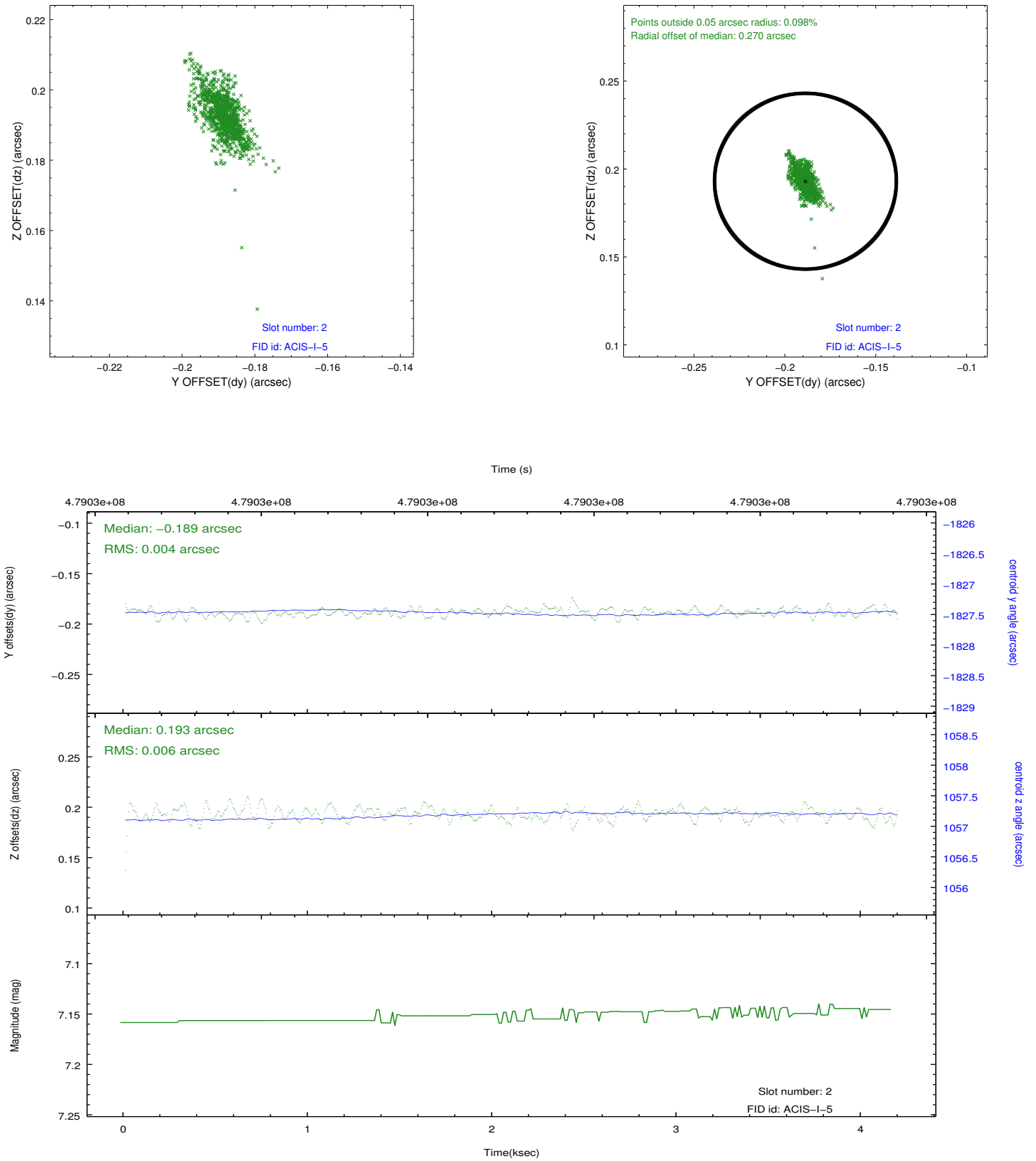
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.9640759029984

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.