

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 14604 - L2 Version 2
Chandra X-Ray Center

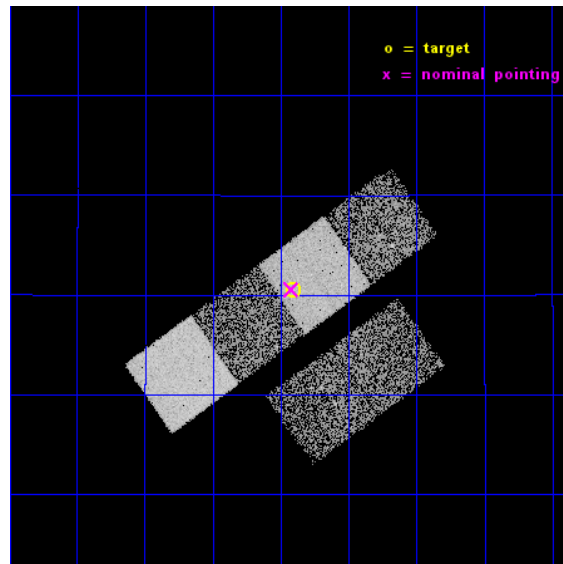
L2 Processing Date : Nov 29 2014

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1 Front

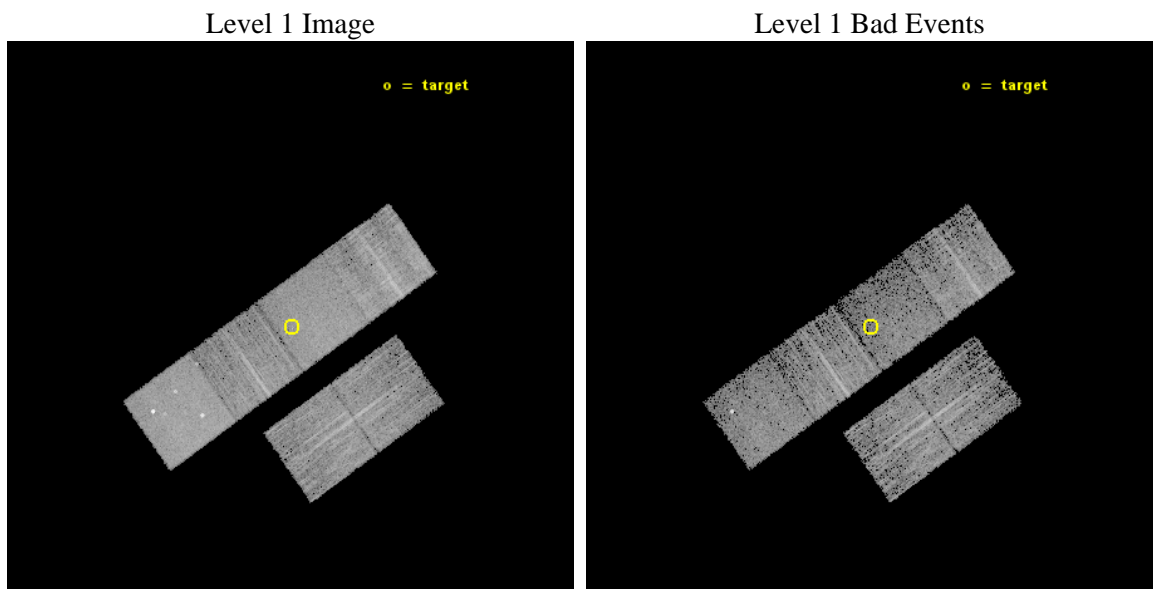
seq_num	200904	Sequence number
obs_id	14604	Observation id
title	Probing the Dynamo Mechanism in Fully Convective Stars	Proposal ti
observer	Dr Nicholas Wright	Principal investigator
object	G 184-31	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	282.477083	Observer's specified target RA [deg]
dec_targ	18.674861	Observer's specified target Dec [deg]
ra_nom	282.4801115328	Nominal RA [deg]
dec_nom	18.675983762367	Nominal Dec [deg]
roll_nom	324.42052019573	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7967.8531191349	Sum of GTIs [s]
livetime	7866.9593652753	Livetime [s]
ontime2	7967.8941591382	Sum of GTIs [s]
ontime3	7964.4890088439	Sum of GTIs [s]
ontime5	7967.8120791316	Sum of GTIs [s]
ontime6	7967.7710391283	Sum of GTIs [s]
ontime7	7967.8531191349	Sum of GTIs [s]
ontime8	7967.6889591217	Sum of GTIs [s]
l2events	64140	Number of level 2 events



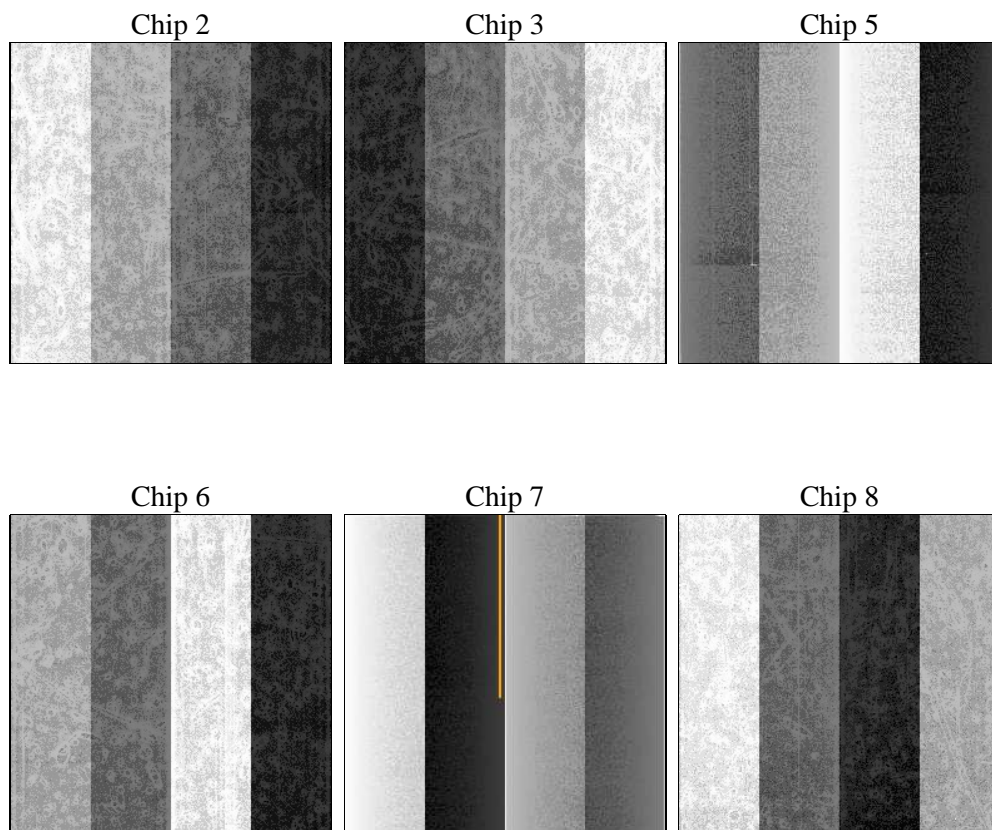
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	7967.8531191349	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	7967.8941591382	Sum of GTIs [s]
date	2014-11-30T02:44:12	Date and time of file creation	ontime3	7964.4890088439	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	7967.8120791316	Sum of GTIs [s]
			ontime6	7967.7710391283	Sum of GTIs [s]
			ontime7	7967.8531191349	Sum of GTIs [s]
			ontime8	7967.6889591217	Sum of GTIs [s]
			l1events	267085	Number of level 1 events

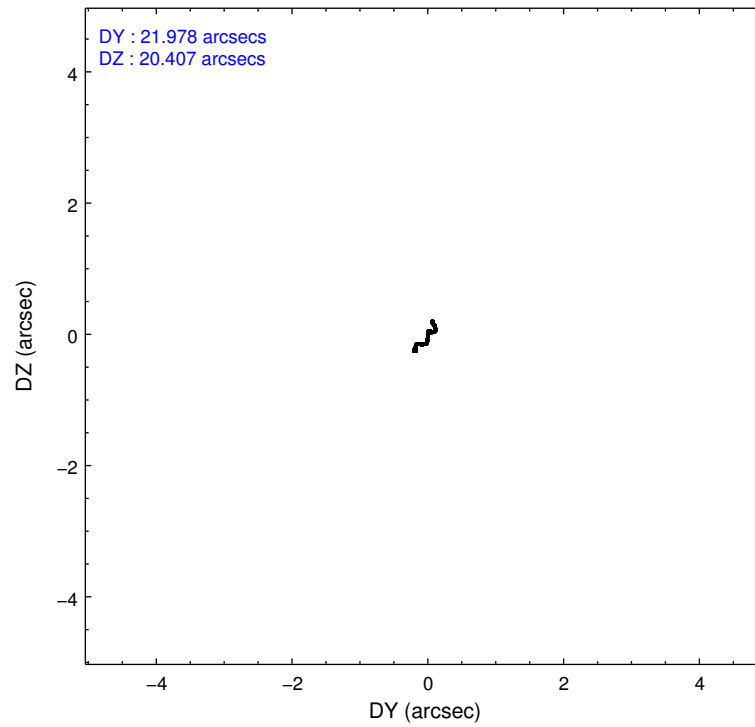
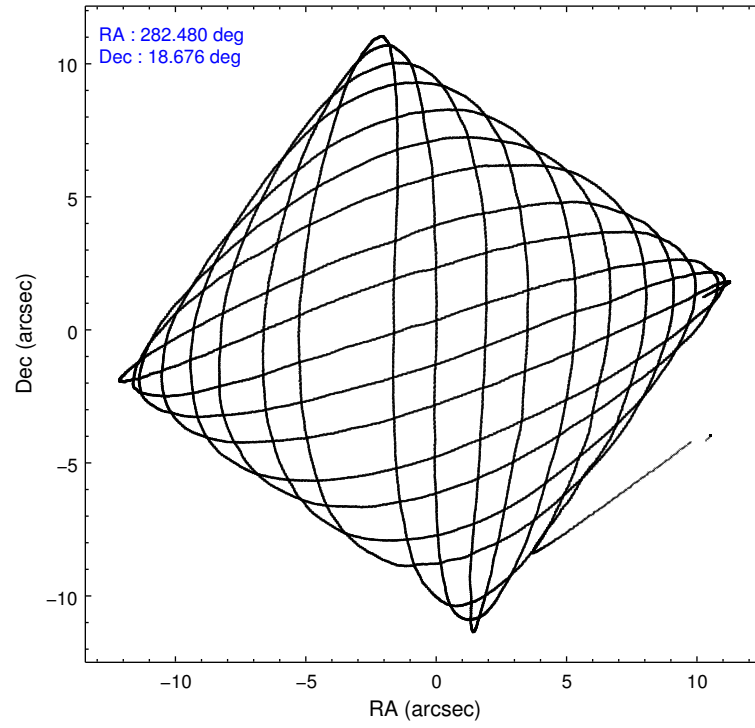
2.1.4 Events

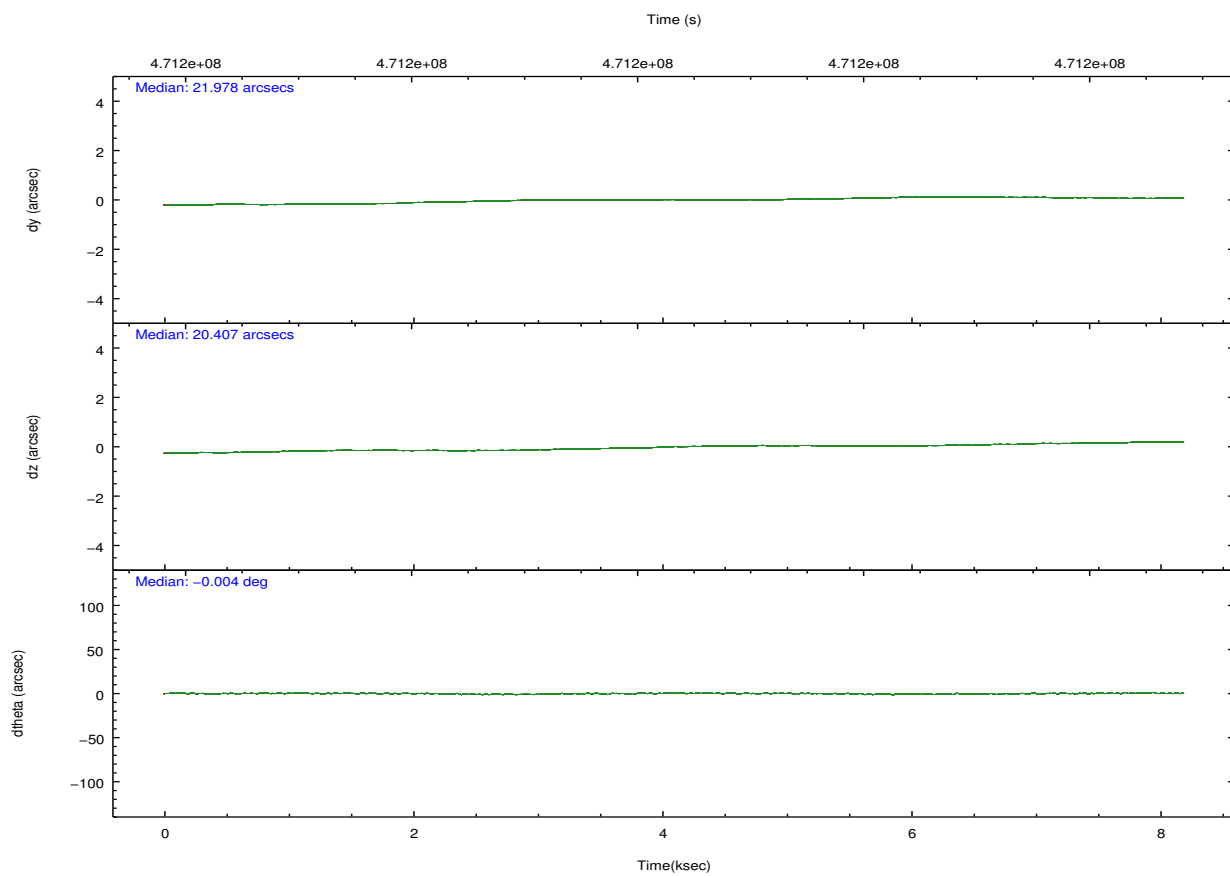
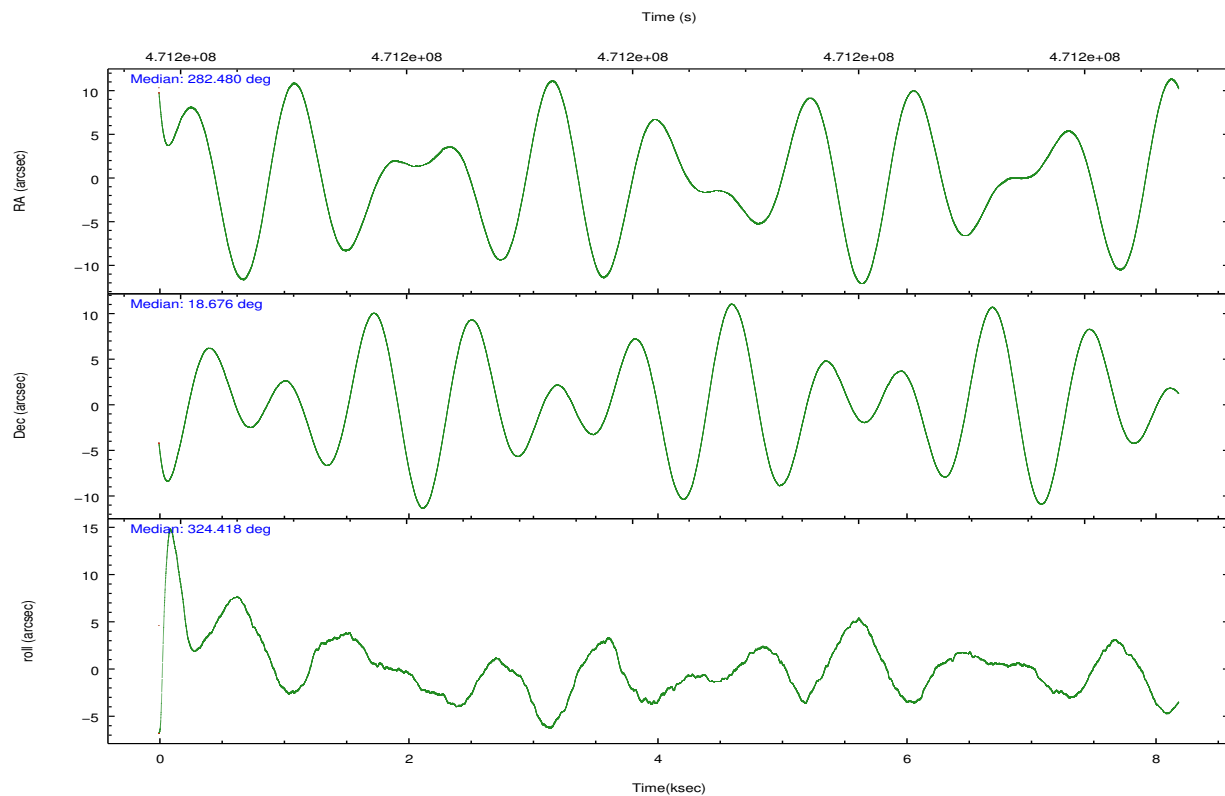
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	39724	34817	59916	37628	44906	50094	grade 0 events	1784	1515	3947	1653	2148	3917
rejected events	35131	30759	28533	33031	23697	35807		4%	4%	6%	4%	4%	7%
rejected %	88%	88%	47%	87%	52%	71%	grade 1 events	30	19	153	21	69	41
								0%	0%	0%	0%	0%	0%
							grade 2 events	1105	902	9720	1052	4581	3442
								2%	2%	16%	2%	10%	6%
							grade 3 events	452	470	1161	452	1919	1548
								1%	1%	1%	1%	4%	3%
							grade 4 events	459	434	1056	438	1845	1372
								1%	1%	1%	1%	4%	2%
							grade 5 events	1398	1680	4536	1708	4826	2619
								3%	4%	7%	4%	10%	5%
							grade 6 events	797	742	15543	1004	10728	4023
								2%	2%	25%	2%	23%	8%
							grade 7 events	33699	29055	23800	31300	18790	33132
								84%	83%	39%	83%	41%	66%

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	282.451284	282.4801115328044	CCD I2 on	O1	Y
[deg] Pointing Dec	18.678275	18.675983762367	CCD I3 on	O2	Y
[deg] Pointing Roll	324.273175	324.4205201957343	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	471196407.184000	471195060.57328	CCD S5 on	N	N
Observation start date	2012-12-06T15:52:20	2012-12-06T15:31:00	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	471204407.184000	471205452.02384	On-chip summing requested	N	N
Observation end date	2012-12-06T18:05:40	2012-12-06T18:24:12	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



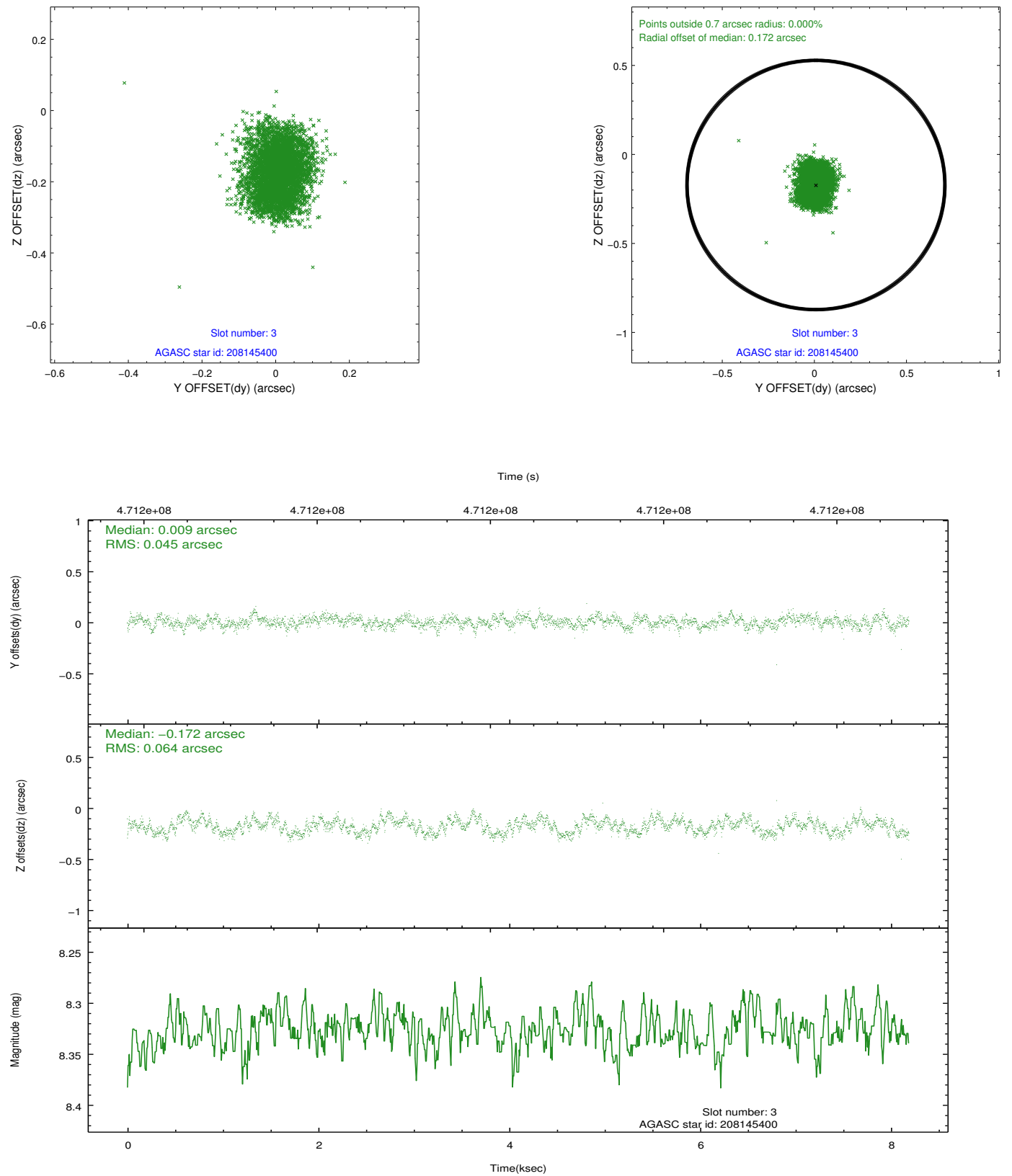


Slot Statistics

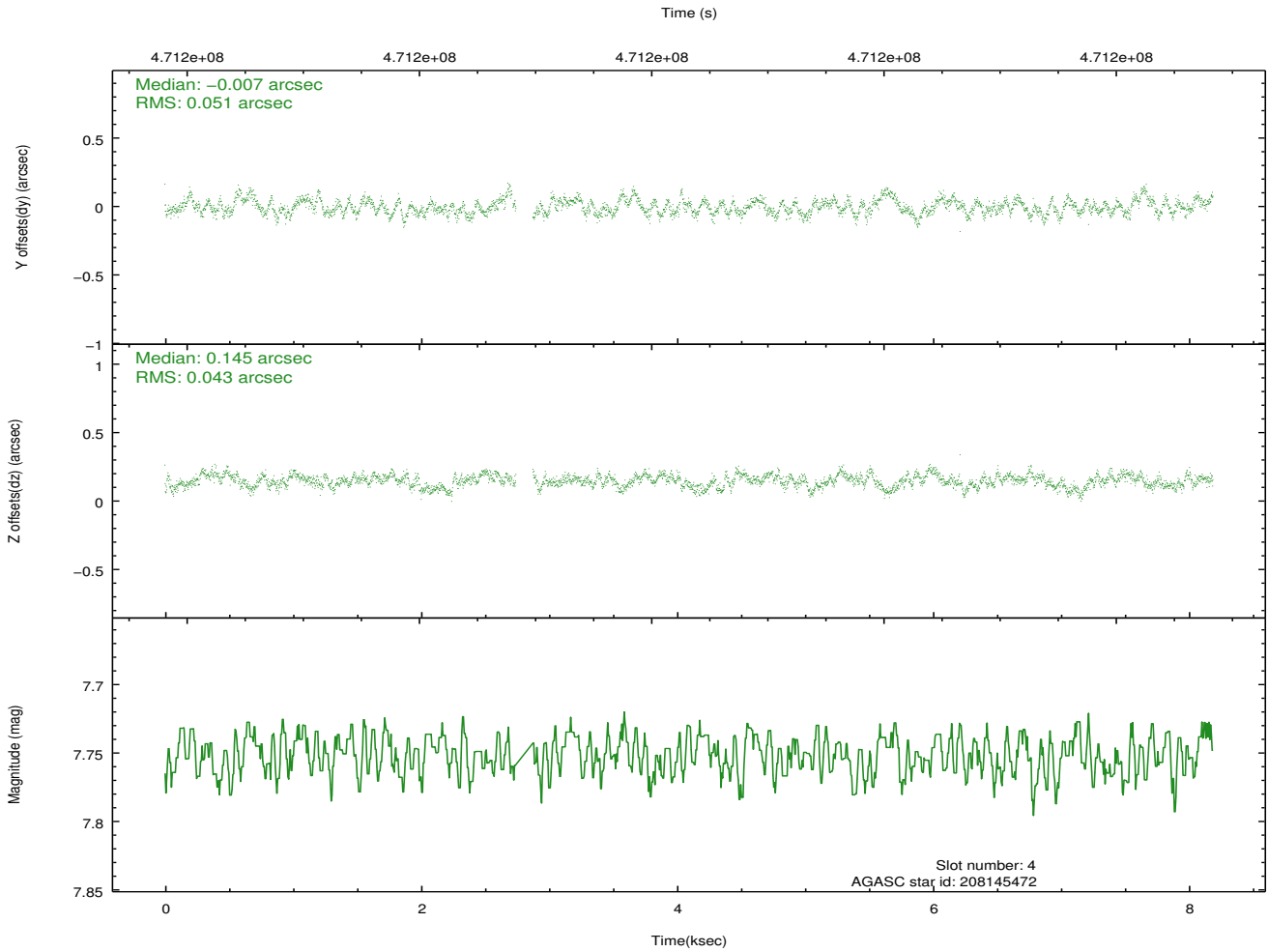
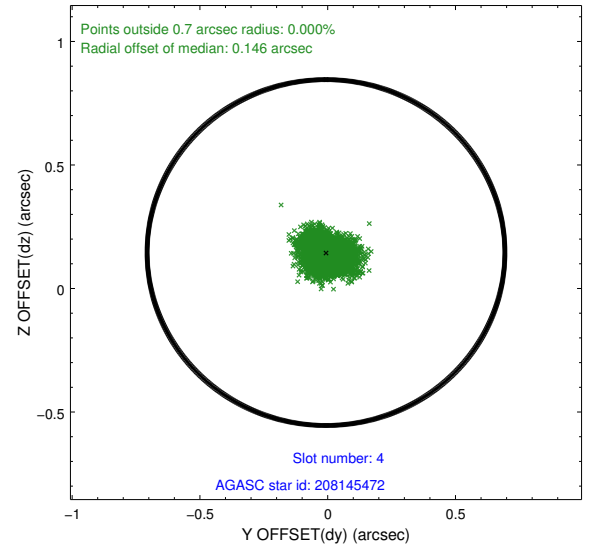
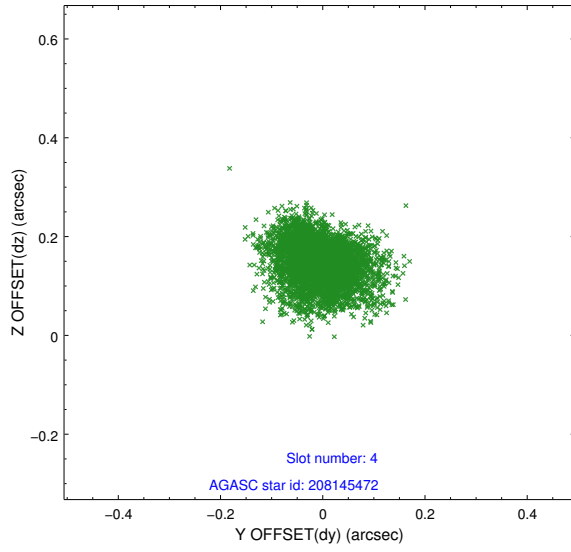
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	1998	-0.114	-0.021	0.006	0.011	0.000000	0.000000	-775.22	-1741.87
1	FID		ACIS-S-4	7.01	1998	0.253	0.060	0.005	0.010	0.000000	0.000000	2138.09	166.00
2	FID		ACIS-S-5	7.04	1998	-0.171	-0.031	0.007	0.012	0.000000	0.000000	-1827.26	160.33
3	GUIDE	used	208145400	8.33	3994	0.009	-0.172	0.085	0.132	282.816175	18.672668	1021.36	711.26
4	GUIDE	used	208145472	7.75	3929	-0.007	0.145	0.071	0.116	282.565327	18.403399	894.28	-575.84
5	GUIDE	used	208145880	8.79	3974	0.219	-0.040	0.103	0.169	282.844188	18.500309	1462.66	264.27
6	GUIDE	used	208674784	9.25	3994	-0.146	0.081	0.100	0.173	282.222669	19.457928	-2269.05	1826.02
7	GUIDE	used	208678520	8.54	3991	-0.080	-0.007	0.068	0.109	282.278028	19.145784	-1461.85	1022.72

2.4 Star Slots

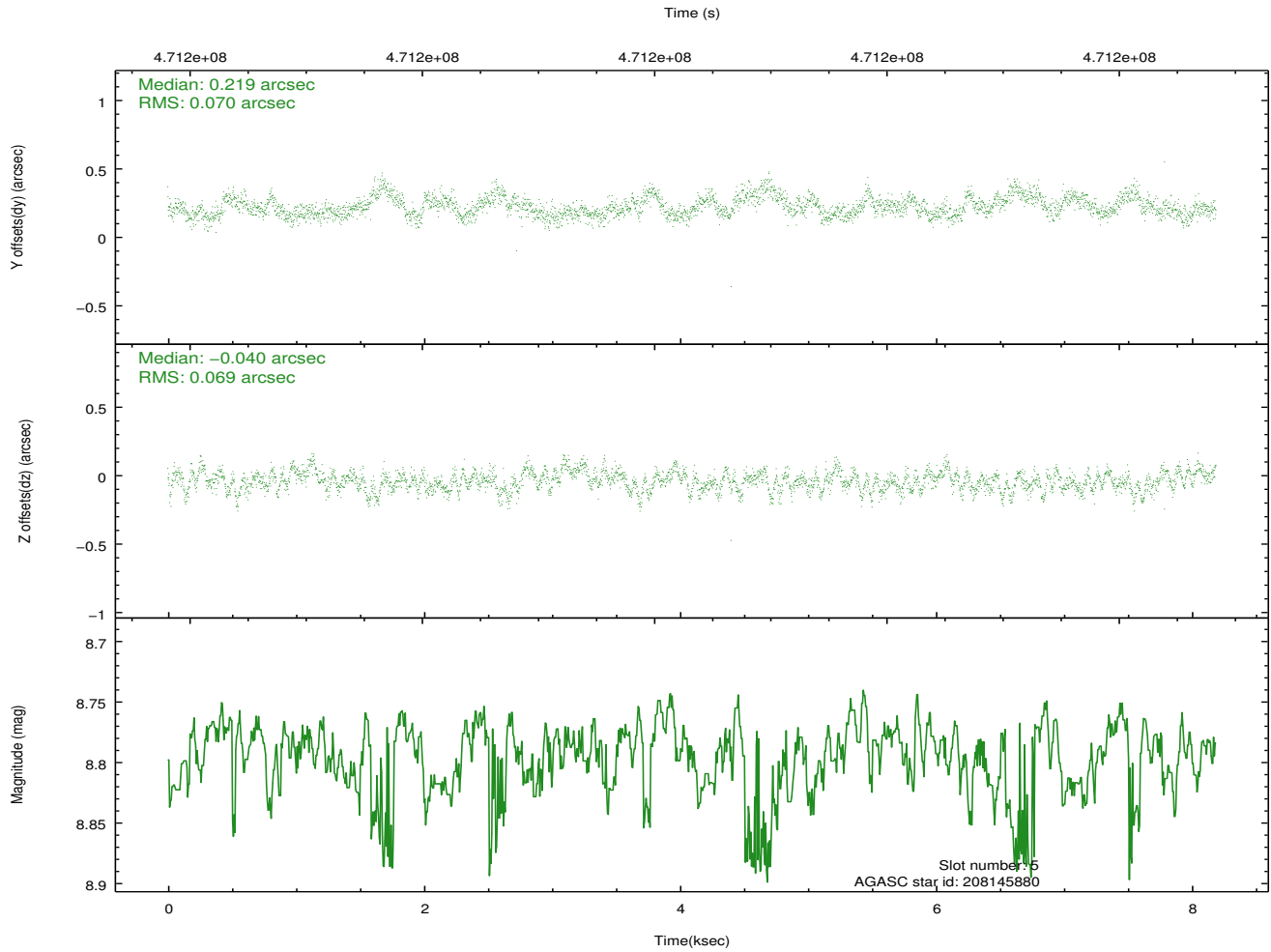
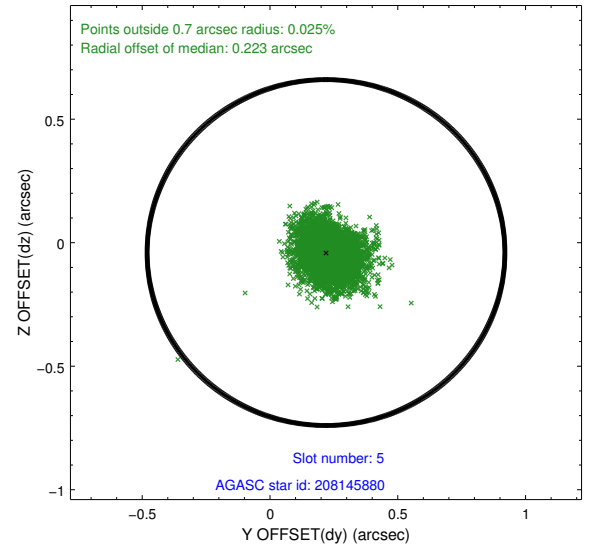
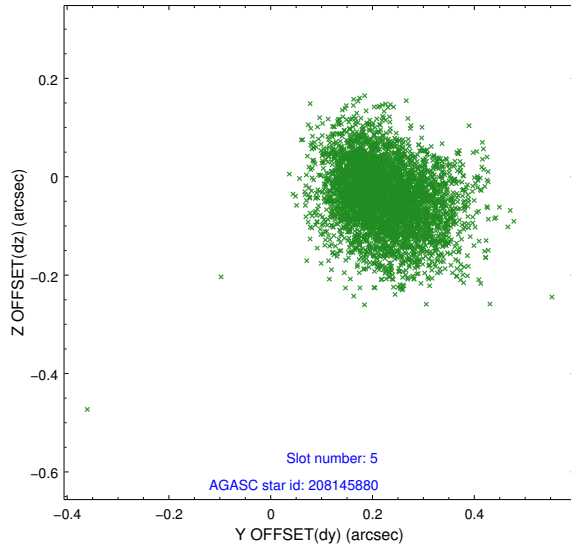
2.4.1 Slot 3



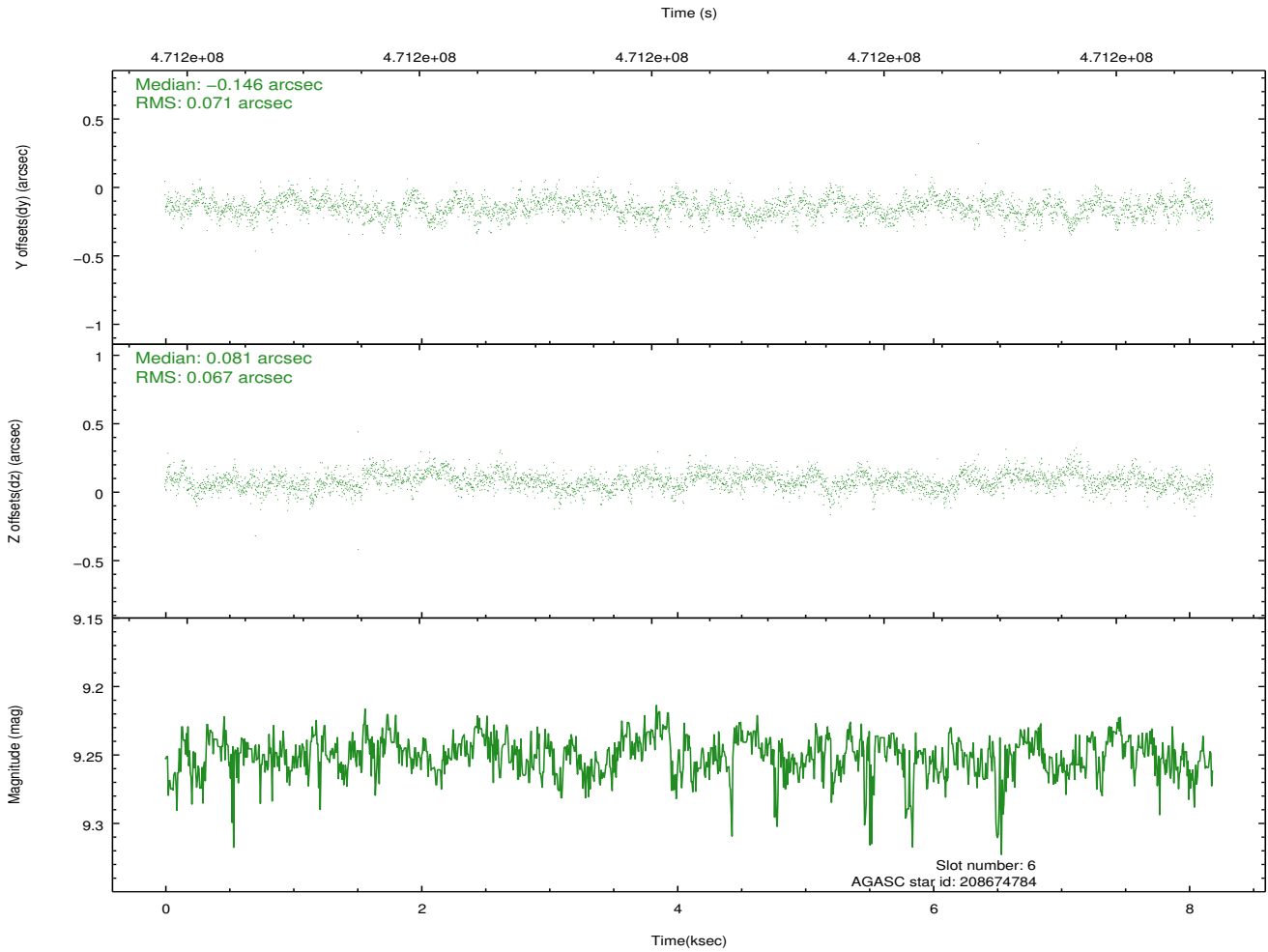
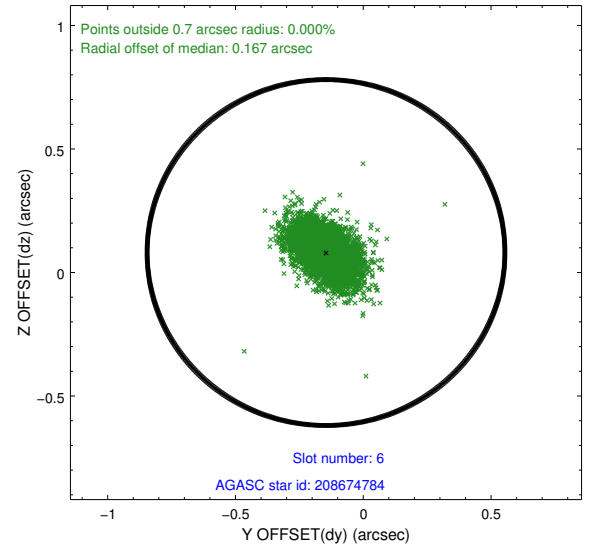
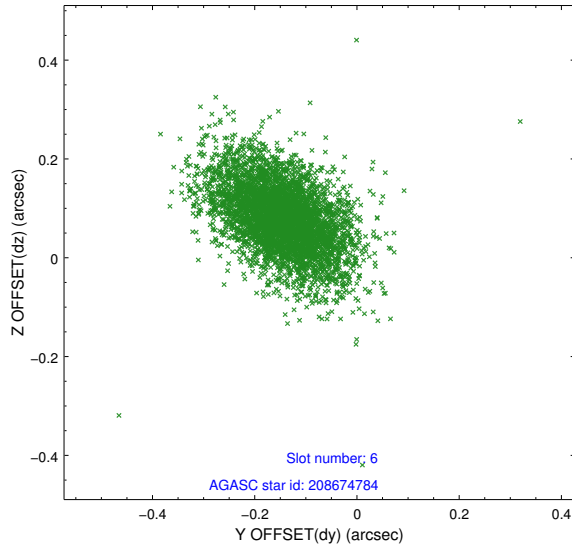
2.4.2 Slot 4



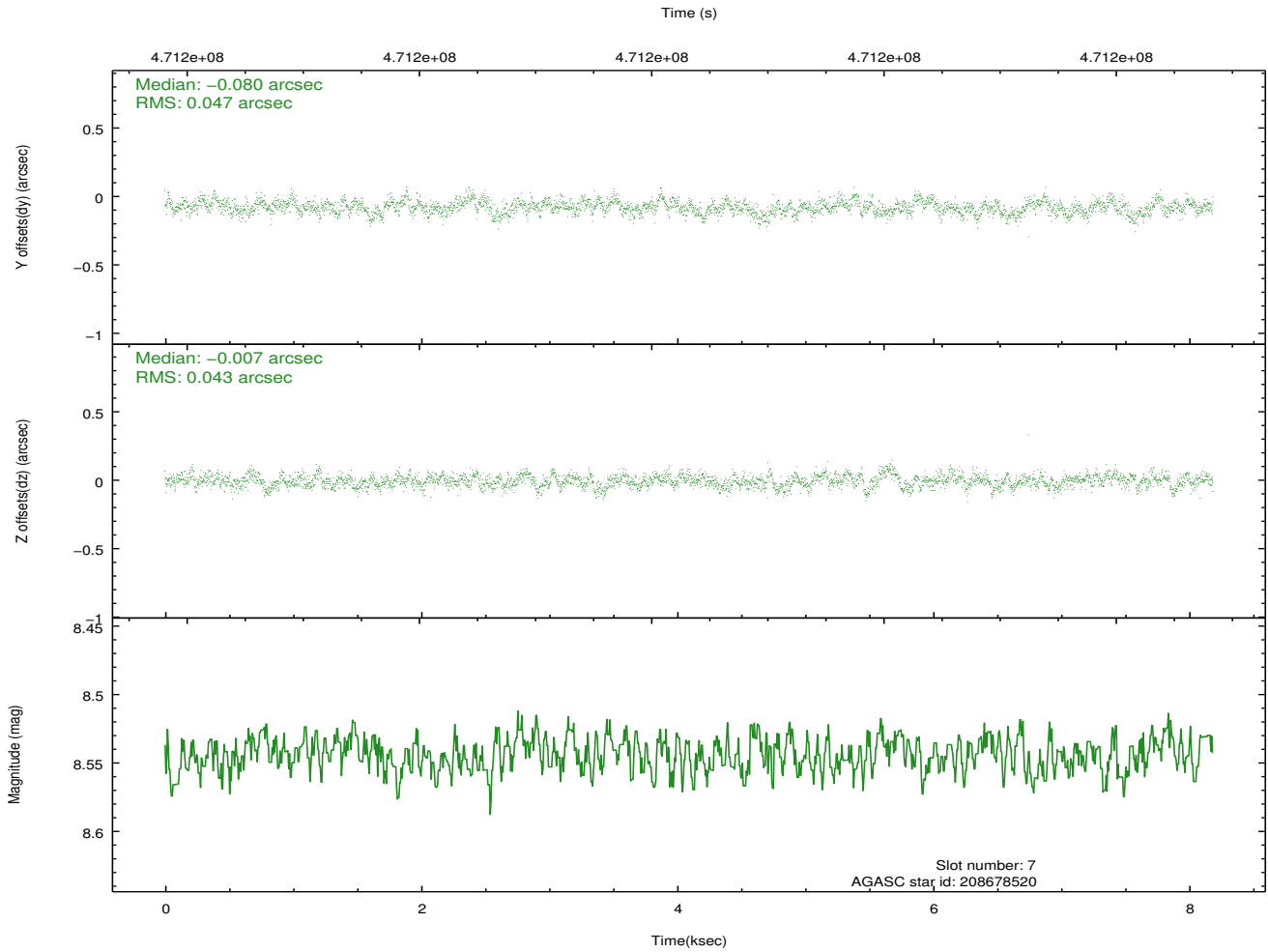
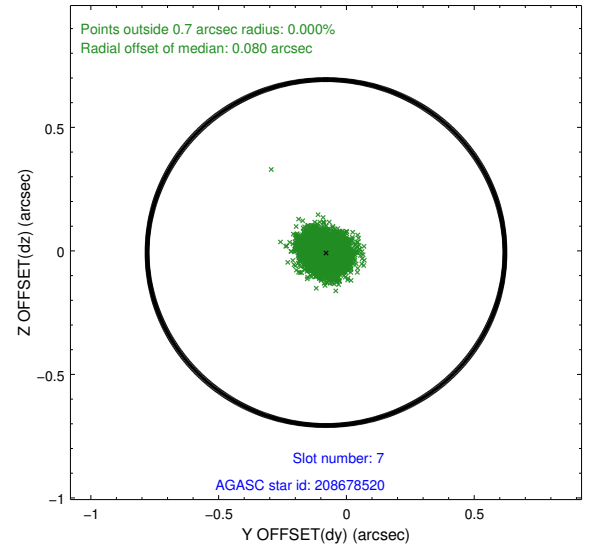
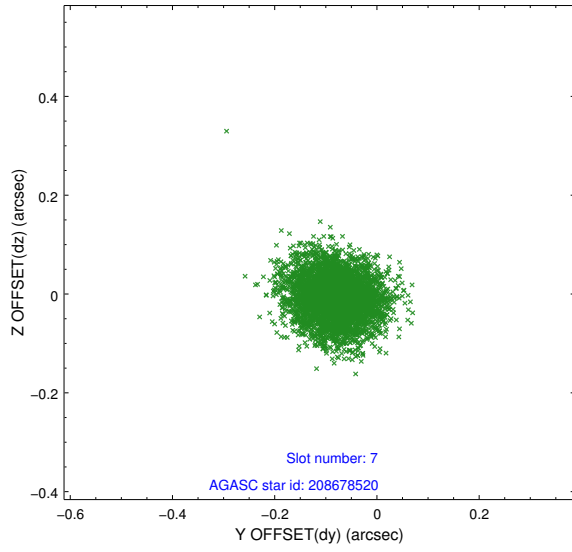
2.4.3 Slot 5



2.4.4 Slot 6

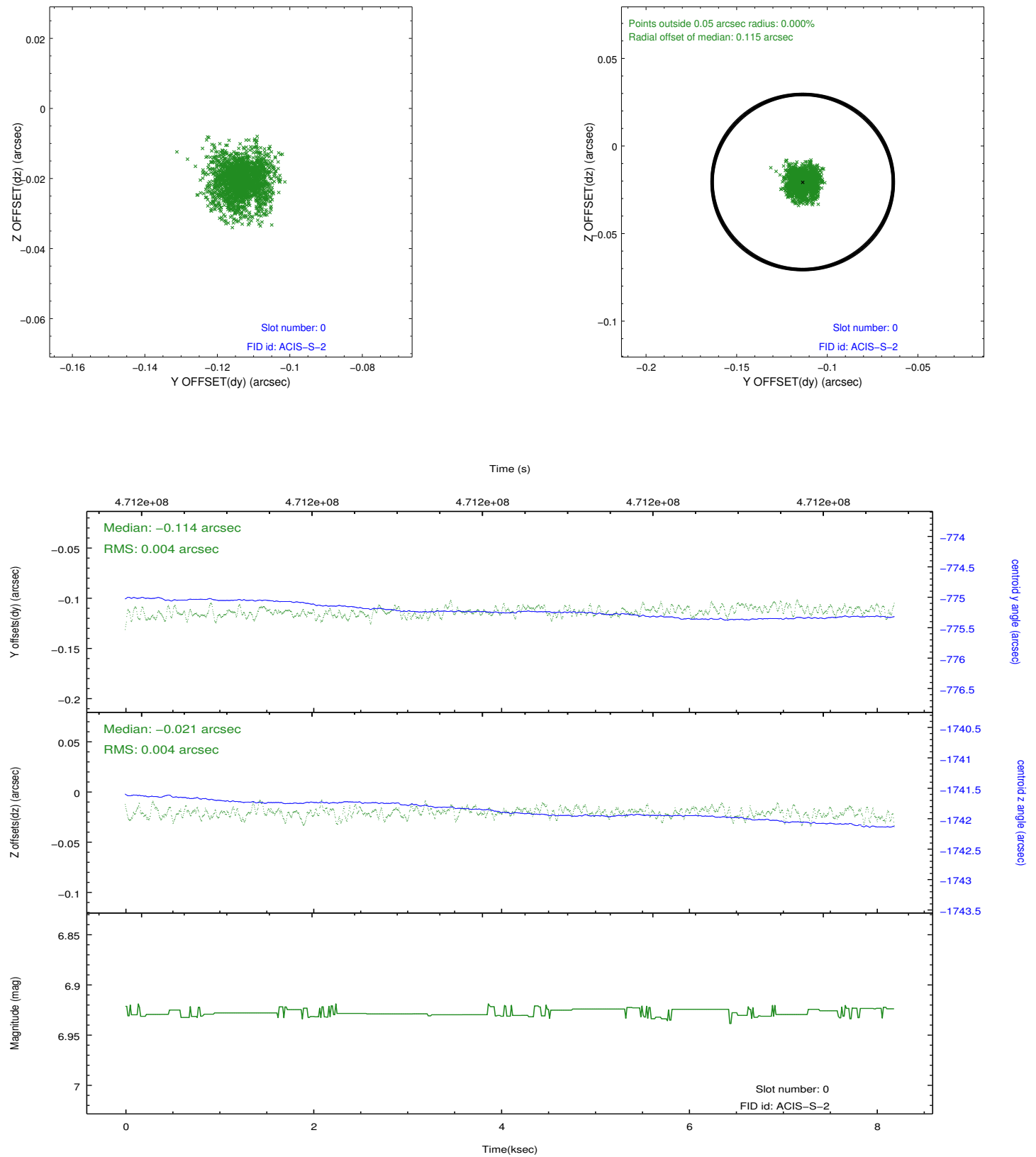


2.4.5 Slot 7

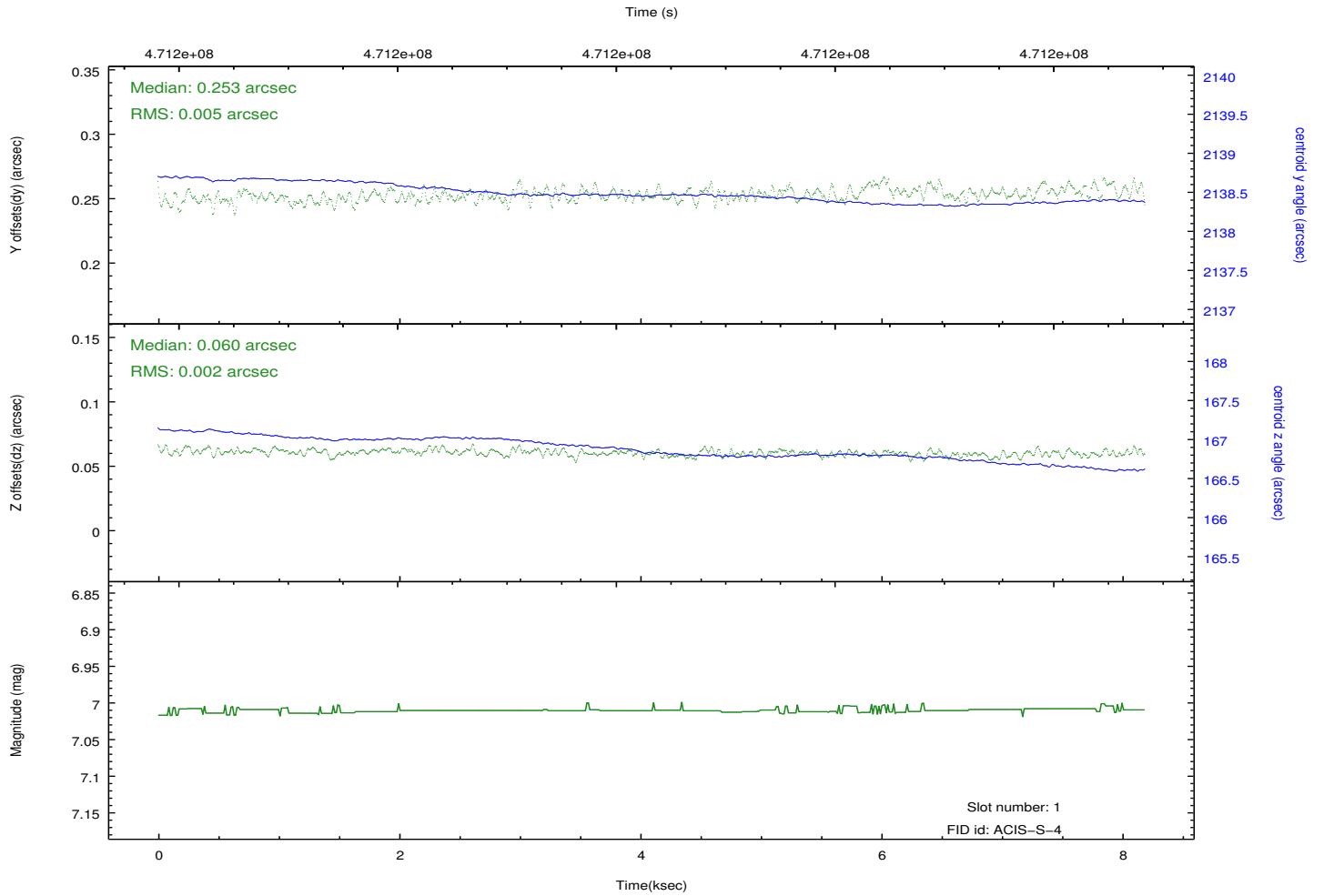
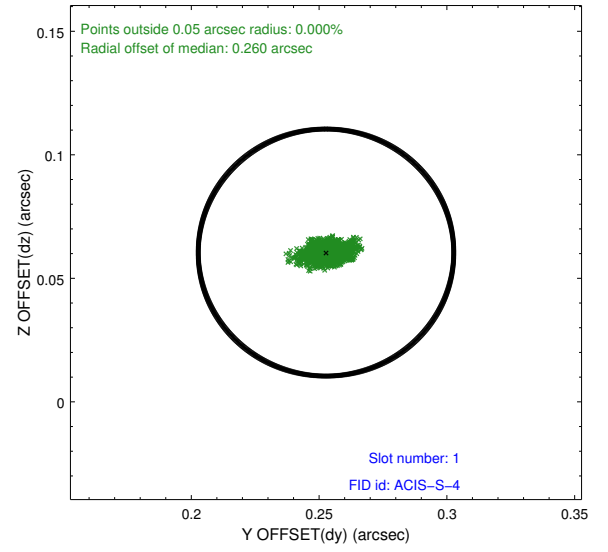
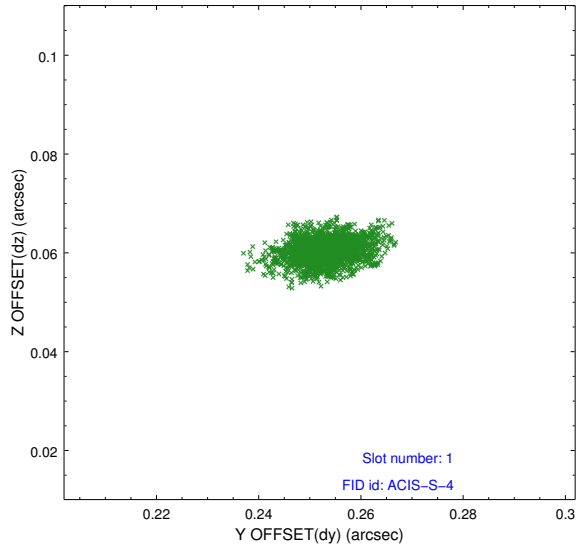


2.5 FID Slots

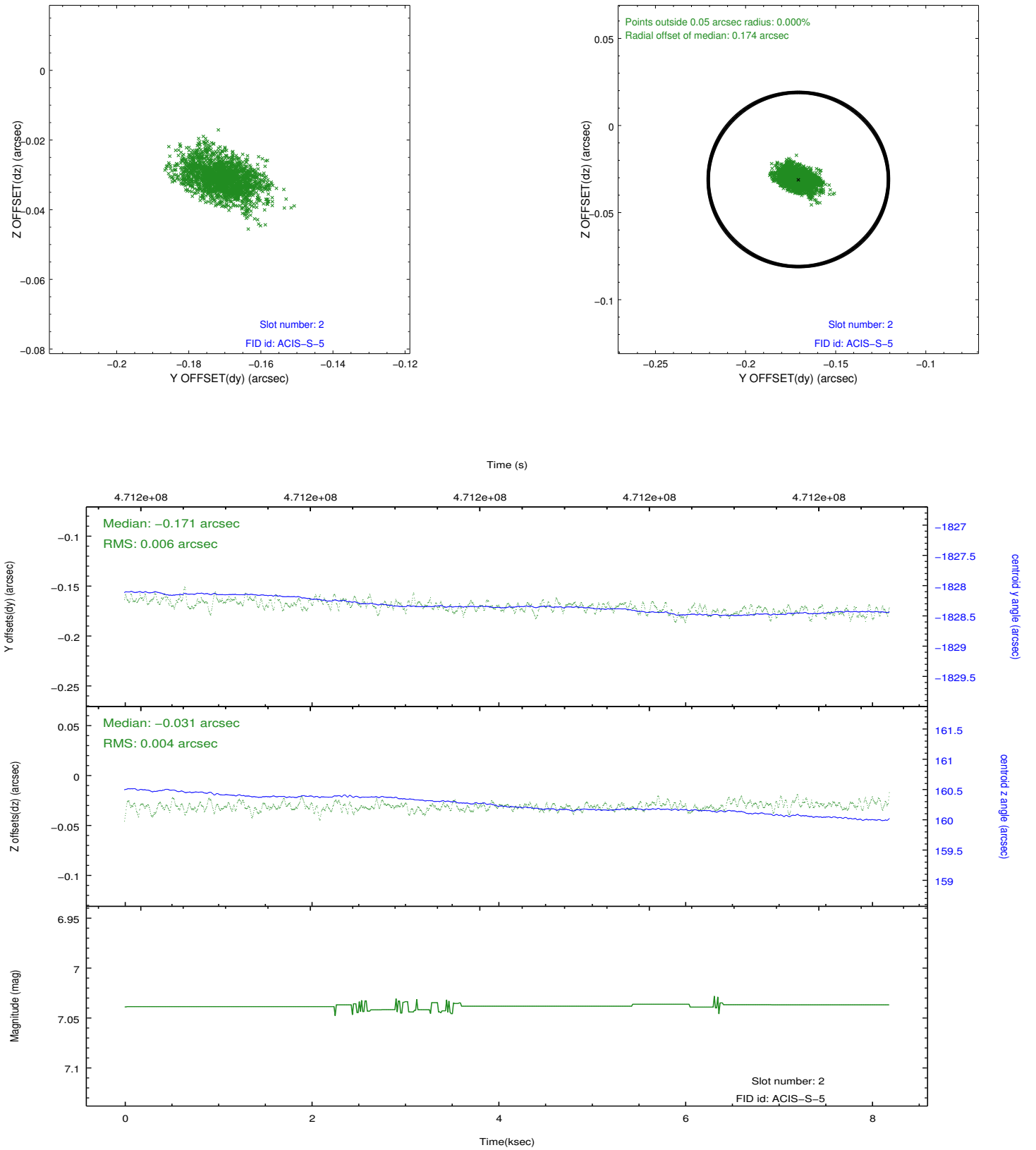
2.5.1 Slot 0



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)	2014.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.9678531191349

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.