

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 492 - L2 Version 3
Chandra X-Ray Center

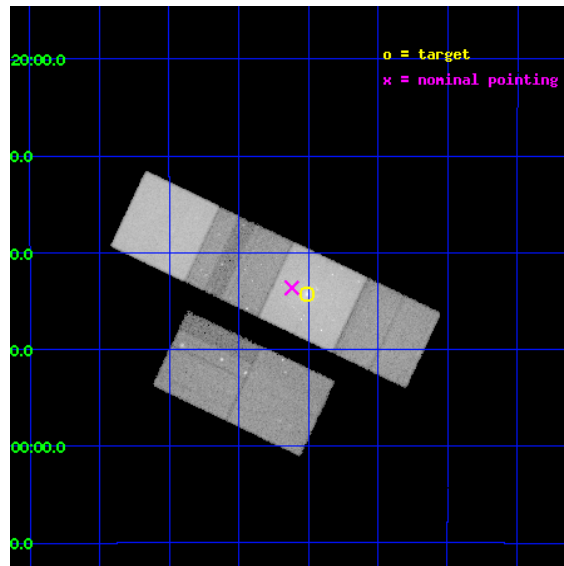
L2 Processing Date : Sep 2 2012

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1 Front

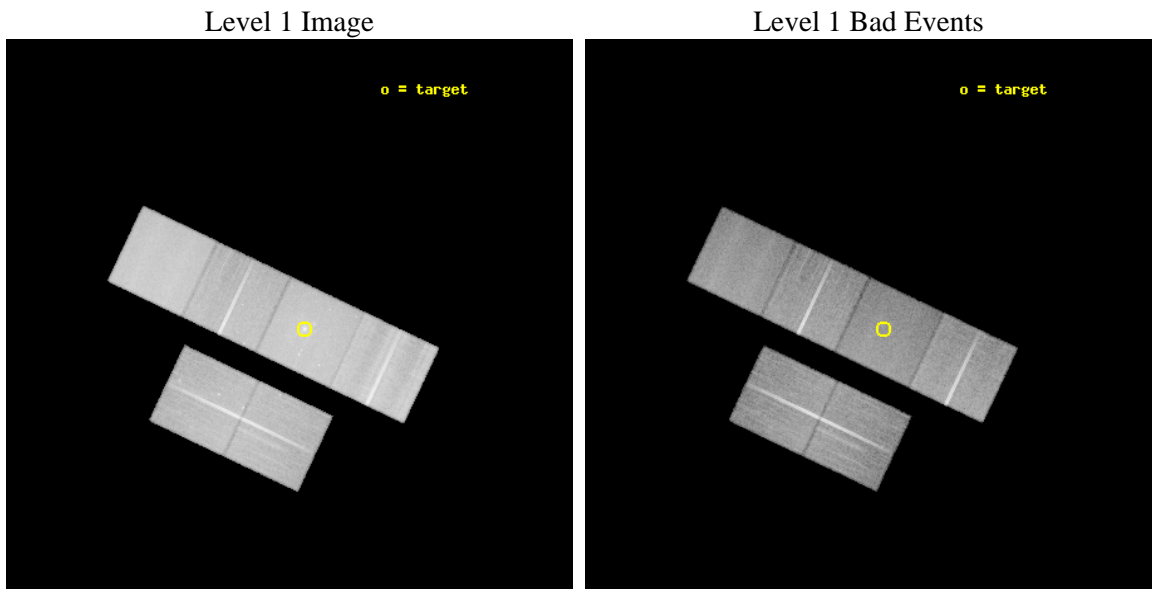
seq_num	800000	Sequence number
obs_id	492	Observation id
title	THE SHAPE OF THE DARK MATTER DISTRIBUTION IN NGC 720	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	NGC 720	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	28.251667	Observer's specified target RA [deg]
dec_targ	-13.738333	Observer's specified target Dec [deg]
ra_nom	28.279656441456	Nominal RA [deg]
dec_nom	-13.727458660532	Nominal Dec [deg]
roll_nom	25.380965031099	Nominal Roll [deg]
revision	3	Processing version of data
ontime	40124.800037354	Sum of GTIs [s]
livetime	39616.715659027	Livetime [s]
ontime2	40124.800037354	Sum of GTIs [s]
ontime3	40124.800037354	Sum of GTIs [s]
ontime5	40124.800037354	Sum of GTIs [s]
ontime6	40124.800037354	Sum of GTIs [s]
ontime7	40124.800037354	Sum of GTIs [s]
ontime8	40124.800037354	Sum of GTIs [s]
l2events	599021	Number of level 2 events



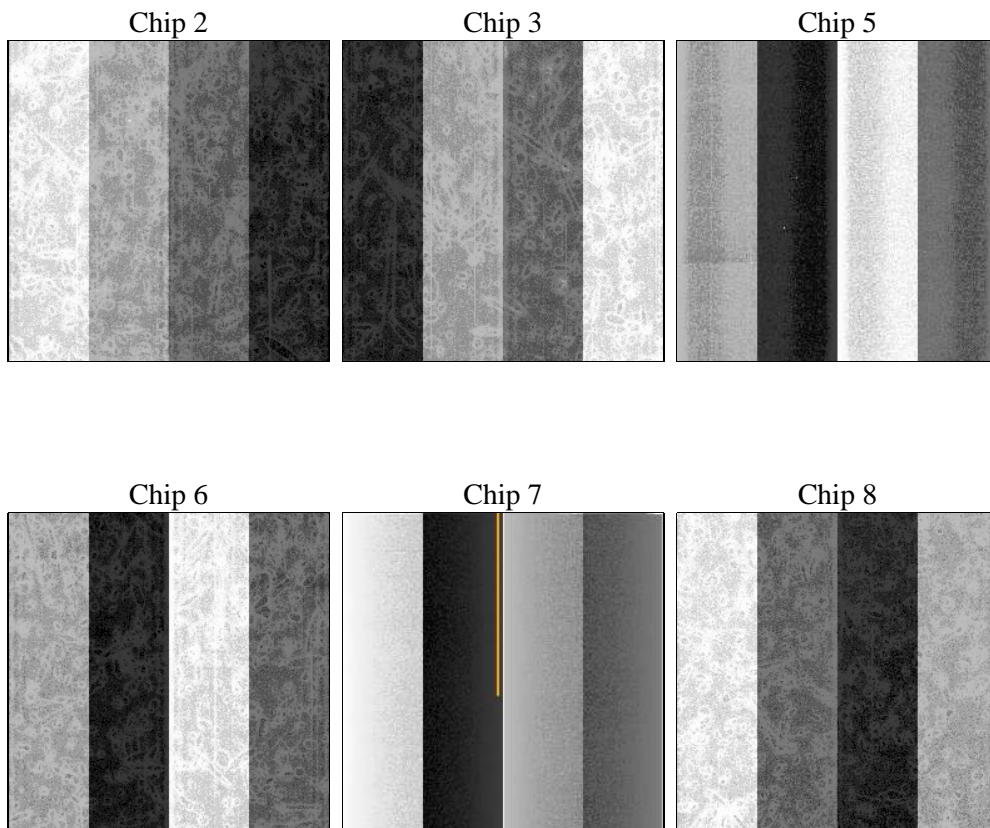
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	40124.800037354	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime2	40124.800037354	Sum of GTIs [s]
date	2012-09-02T10:36:46	Date and time of file creation	ontime3	40124.800037354	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	40124.800037354	Sum of GTIs [s]
			ontime6	40124.800037354	Sum of GTIs [s]
			ontime7	40124.800037354	Sum of GTIs [s]
			ontime8	40124.800037354	Sum of GTIs [s]
			l1events	2073608	Number of level 1 events

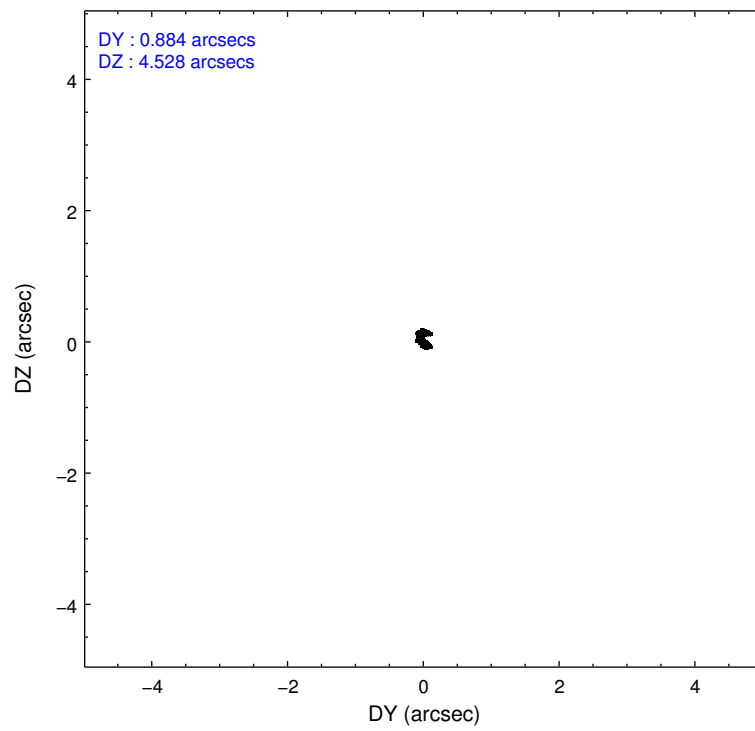
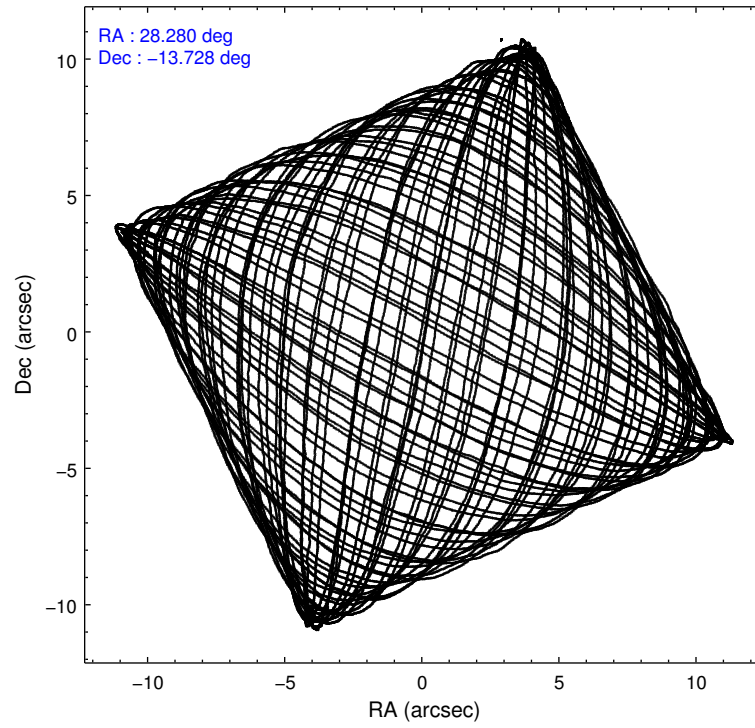
2.1.4 Events

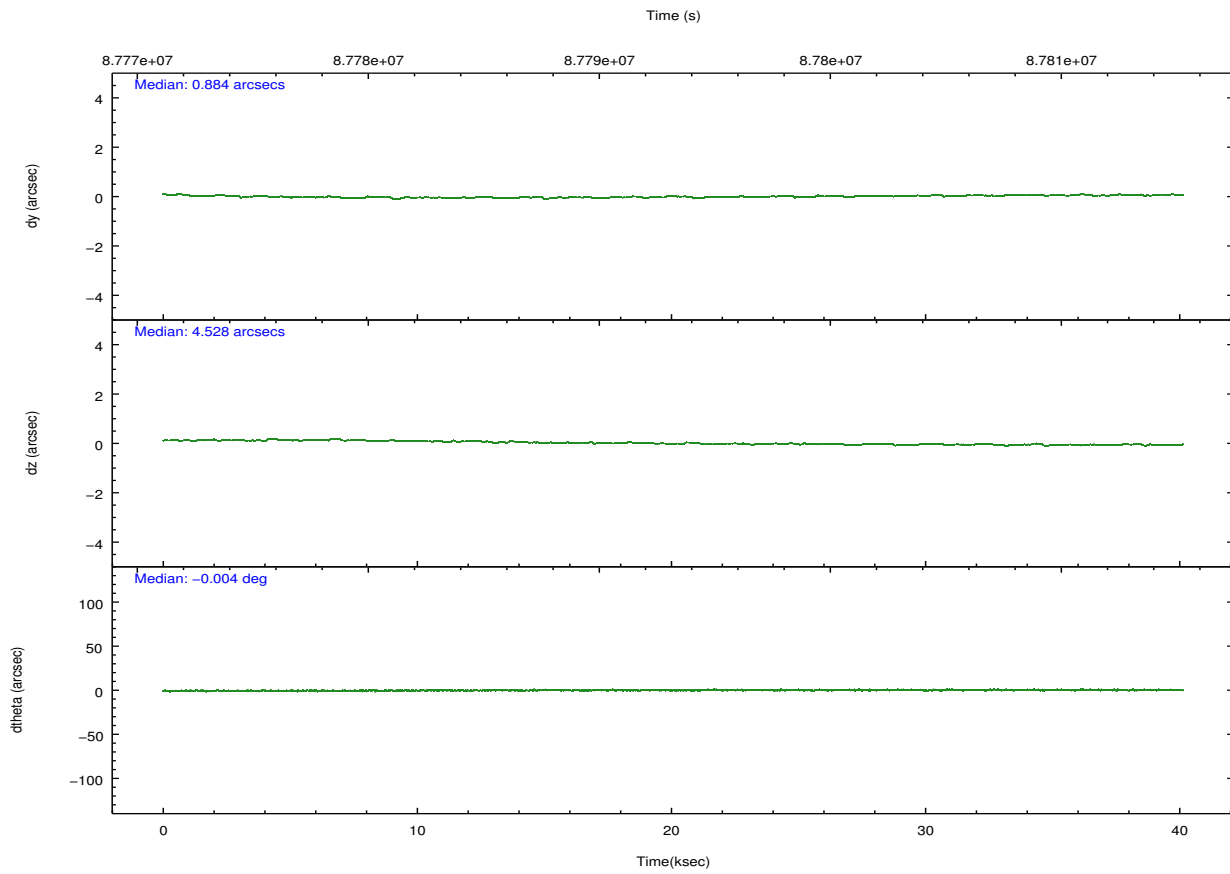
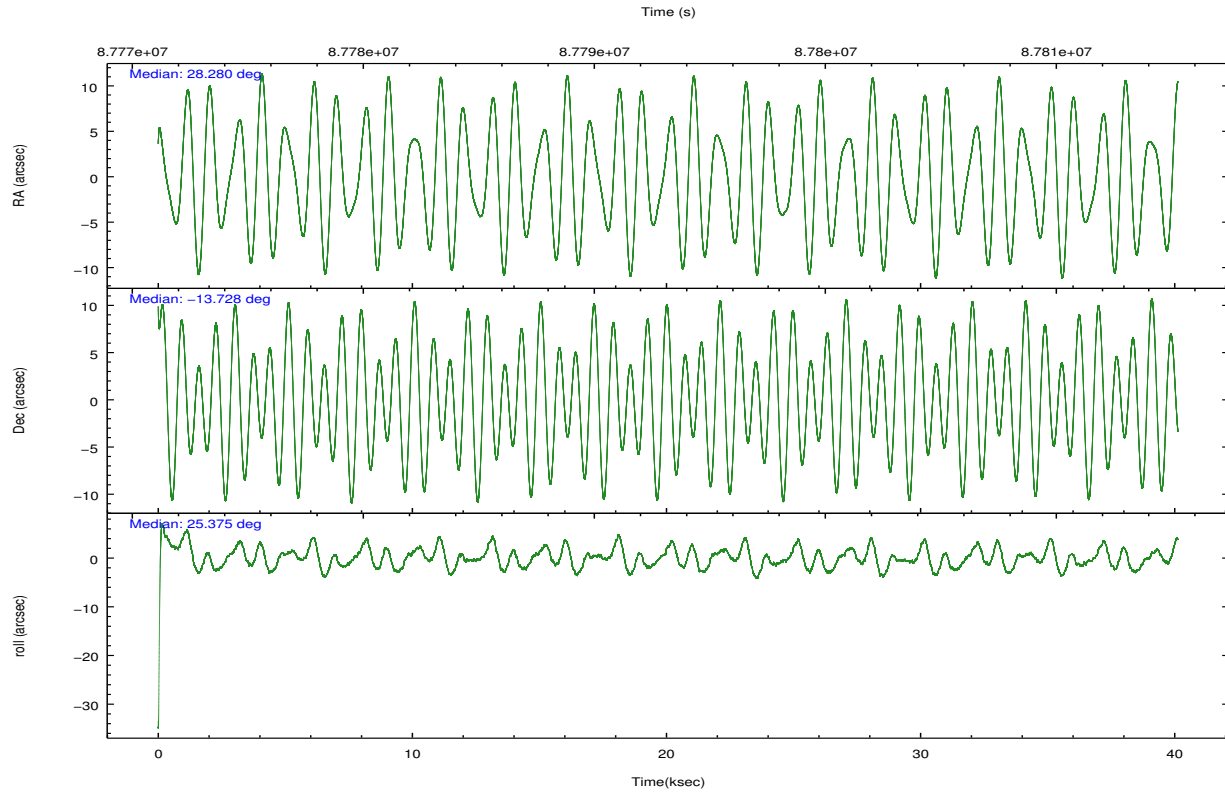
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	293072	282583	400276	294414	390179	413084	grade 0 events	24258	24503	19487	29305	25761	62962
rejected events	240962	227983	203937	234172	189698	262740		8%	8%	4%	9%	6%	15%
rejected %	82%	80%	50%	79%	48%	63%	grade 1 events	147	144	563	168	333	458
								0%	0%	0%	0%	0%	0%
							grade 2 events	13088	15501	58999	15490	40071	26777
								4%	5%	14%	5%	10%	6%
							grade 3 events	2834	3066	10695	3202	18379	19624
								0%	1%	2%	1%	4%	4%
							grade 4 events	3276	3140	10201	3512	17932	17982
								1%	1%	2%	1%	4%	4%
							grade 5 events	8425	9127	26926	10258	30884	13068
								2%	3%	6%	3%	7%	3%
							grade 6 events	9307	9050	101168	9435	102586	24553
								3%	3%	25%	3%	26%	5%
							grade 7 events	231737	218052	172237	223044	154233	247660
								79%	77%	43%	75%	39%	59%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	28.263824	28.27965644145621	Subarray requested	NONE	NONE
[deg] Pointing Dec	-13.750092	-13.72745866053235	Alternating exposures requested	N	N
[deg] Pointing Roll	25.220591	25.38096503109854	[s] Primary exposure time	0.000000	3.2
[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)	87773254.184000	87771884.612812			
Observation start date	2000-10-12T21:26:30	2000-10-12T21:04:44			
[s] Observation end time (MET)	87813254.184000	87813985.46440101			
Observation end date	2000-10-13T08:33:10	2000-10-13T08:46:25			
Read mode	TIMED	TIMED			

2.3 Aspect



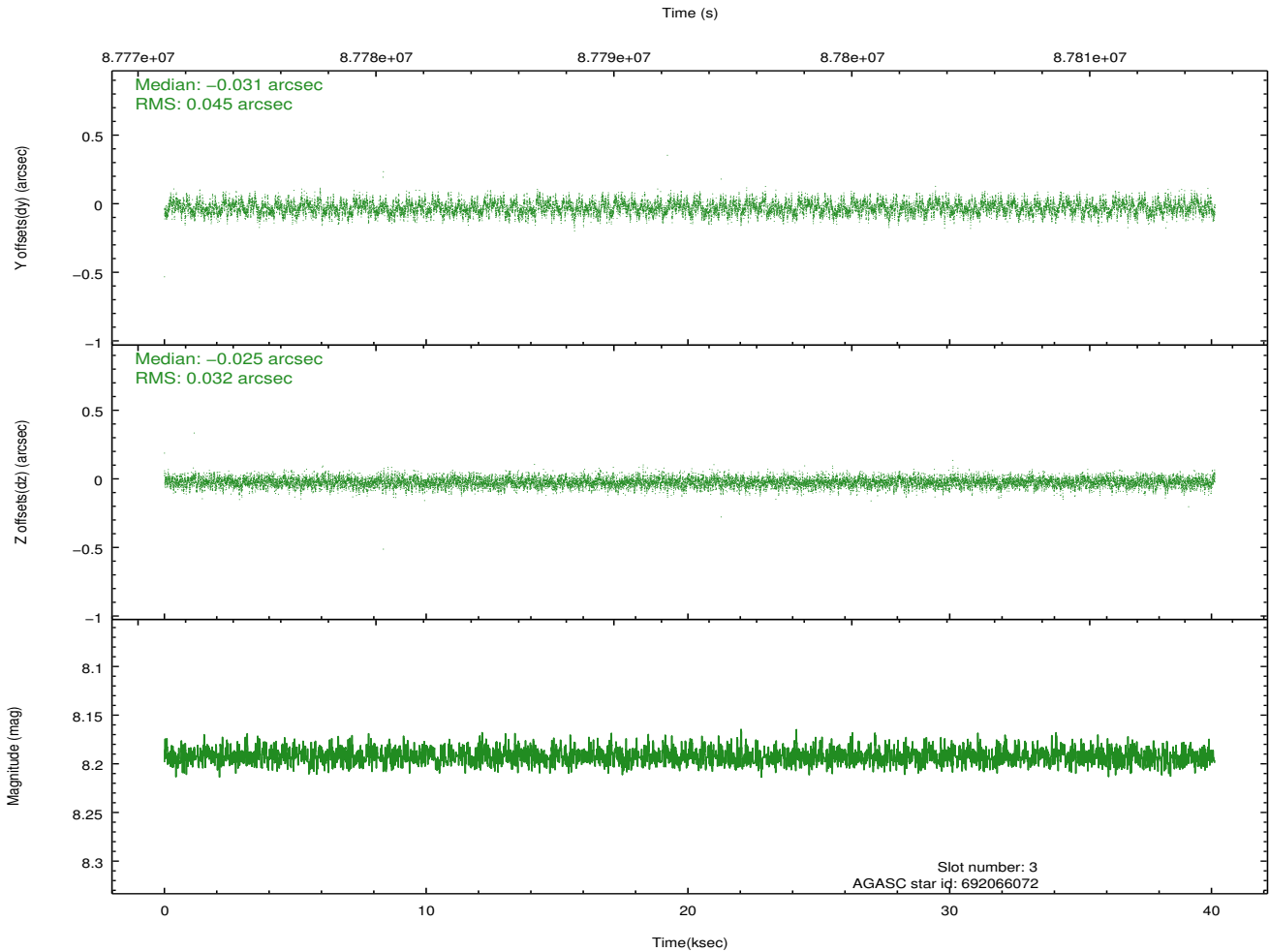
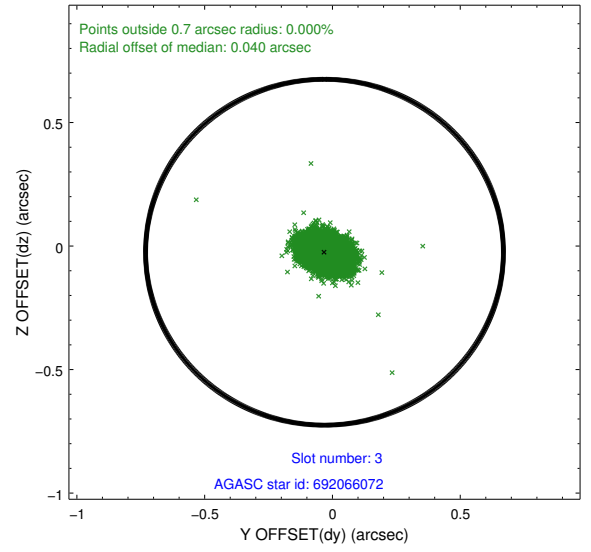
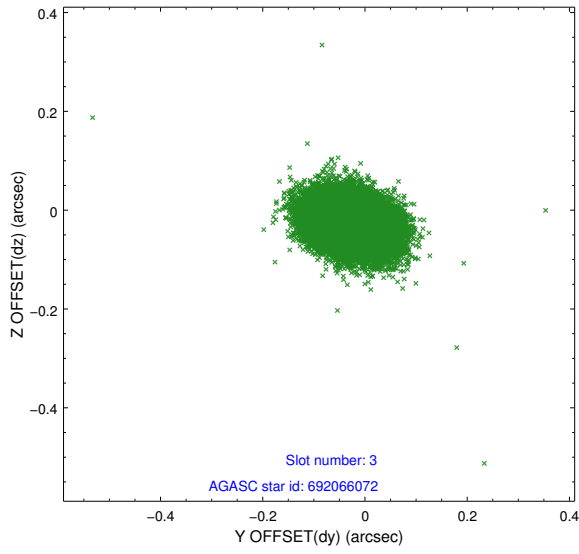


Slot Statistics

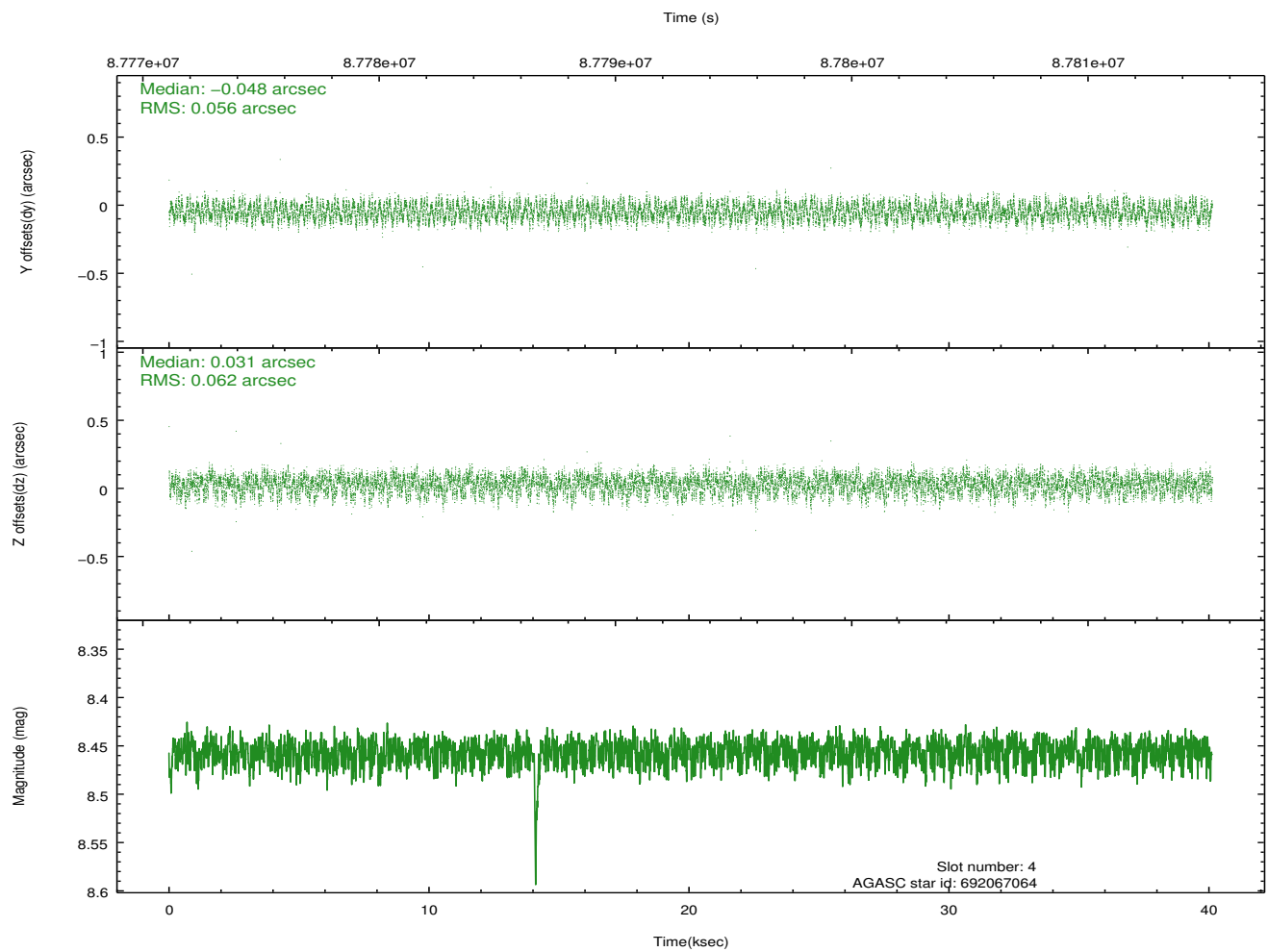
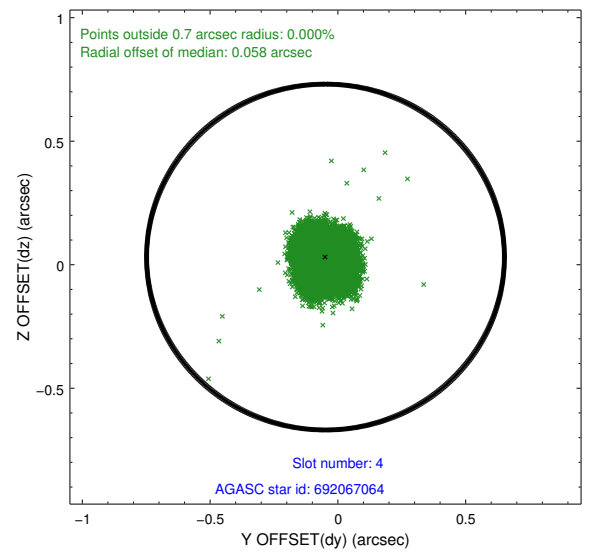
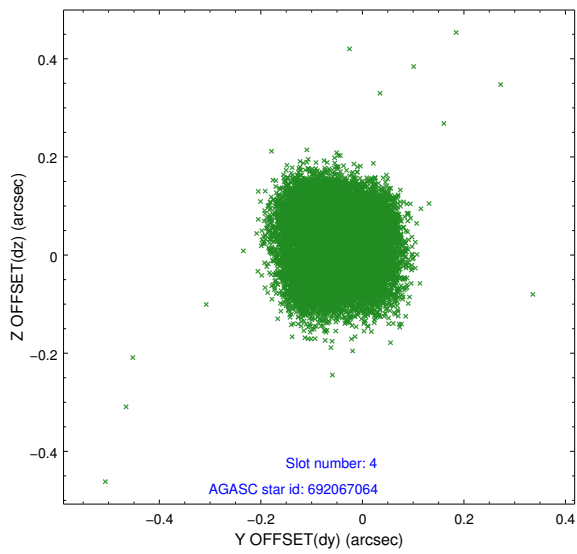
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	9785	-0.047	-0.027	0.007	0.011	0.000000	0.000000	-753.51	-1725.68
1	FID	ACIS-S-4	7.21	9786	0.027	0.030	0.006	0.010	0.000000	0.000000	2159.82	182.86
2	FID	ACIS-S-5	7.24	9787	-0.011	0.006	0.007	0.011	0.000000	0.000000	-1806.31	176.50
3	GUIDE	692066072	8.19	19573	-0.031	-0.025	0.058	0.095	27.518624	-13.704241	-2290.11	1256.98
4	GUIDE	692067064	8.46	19551	-0.048	0.031	0.090	0.136	28.275146	-14.459559	-1053.10	-2326.54
5	GUIDE	692064856	9.11	19569	0.044	-0.059	0.069	0.112	27.844359	-13.441810	-857.20	1629.39
6	GUIDE	692067256	8.89	19567	0.012	0.067	0.065	0.106	28.829272	-14.105112	1240.13	-1998.37
7	GUIDE	692065096	9.26	19566	0.022	-0.010	0.074	0.120	28.419979	-13.250038	1261.35	1396.12

2.4 Star Slots

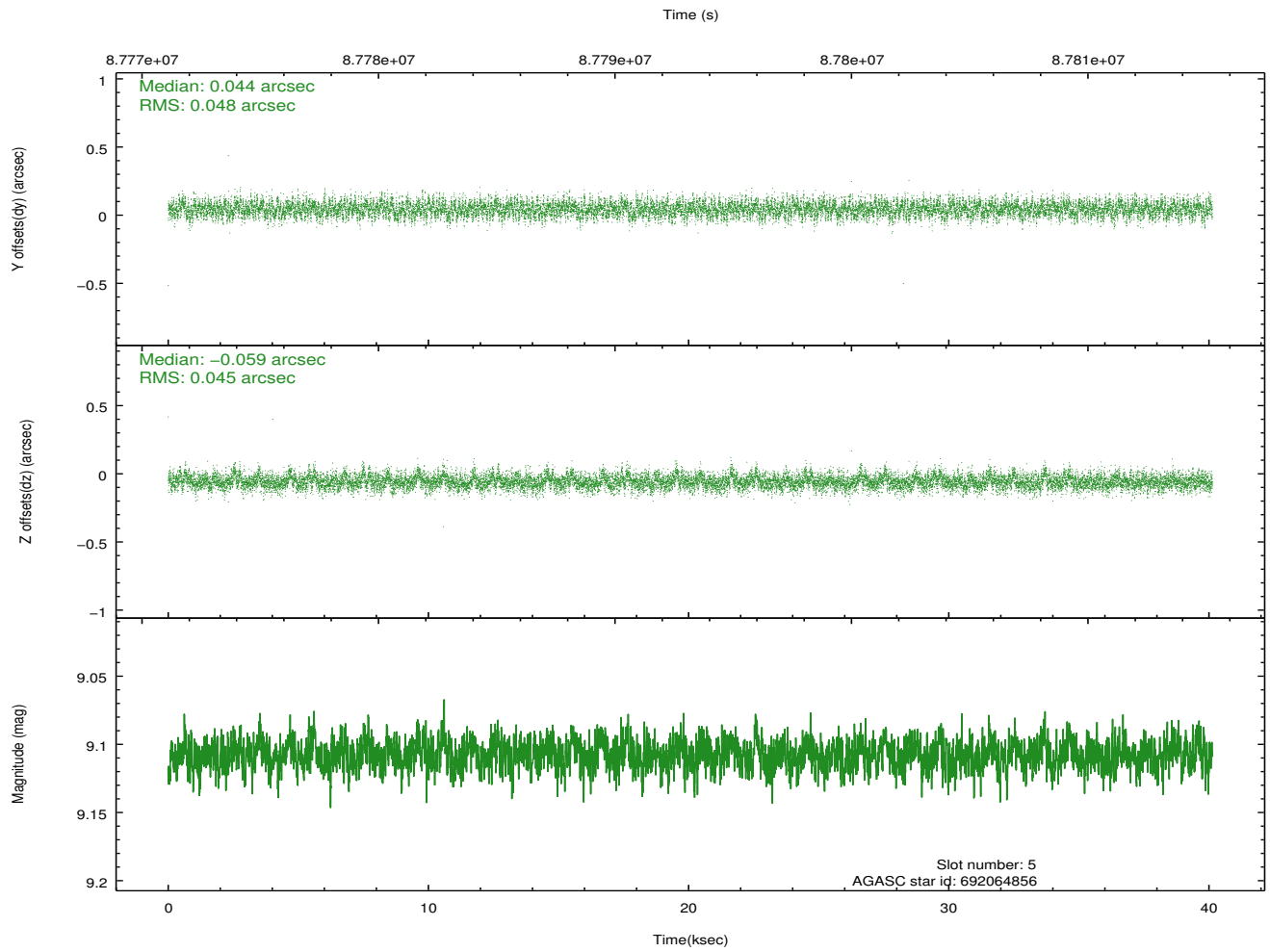
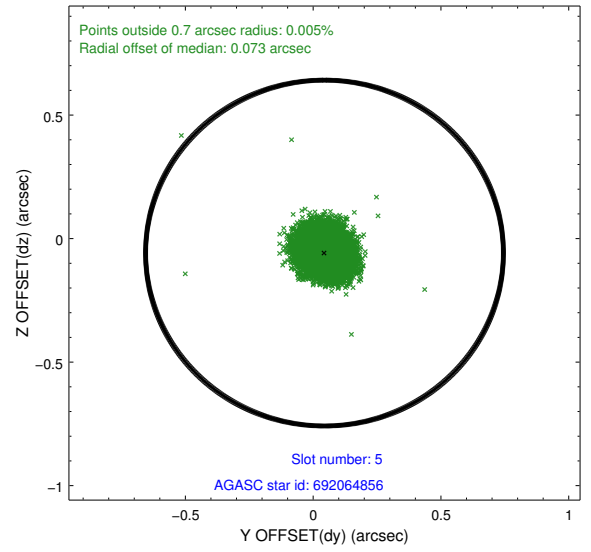
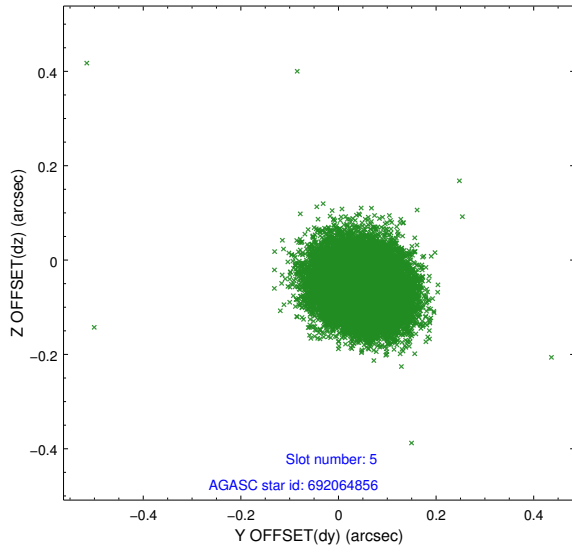
2.4.1 Slot 3



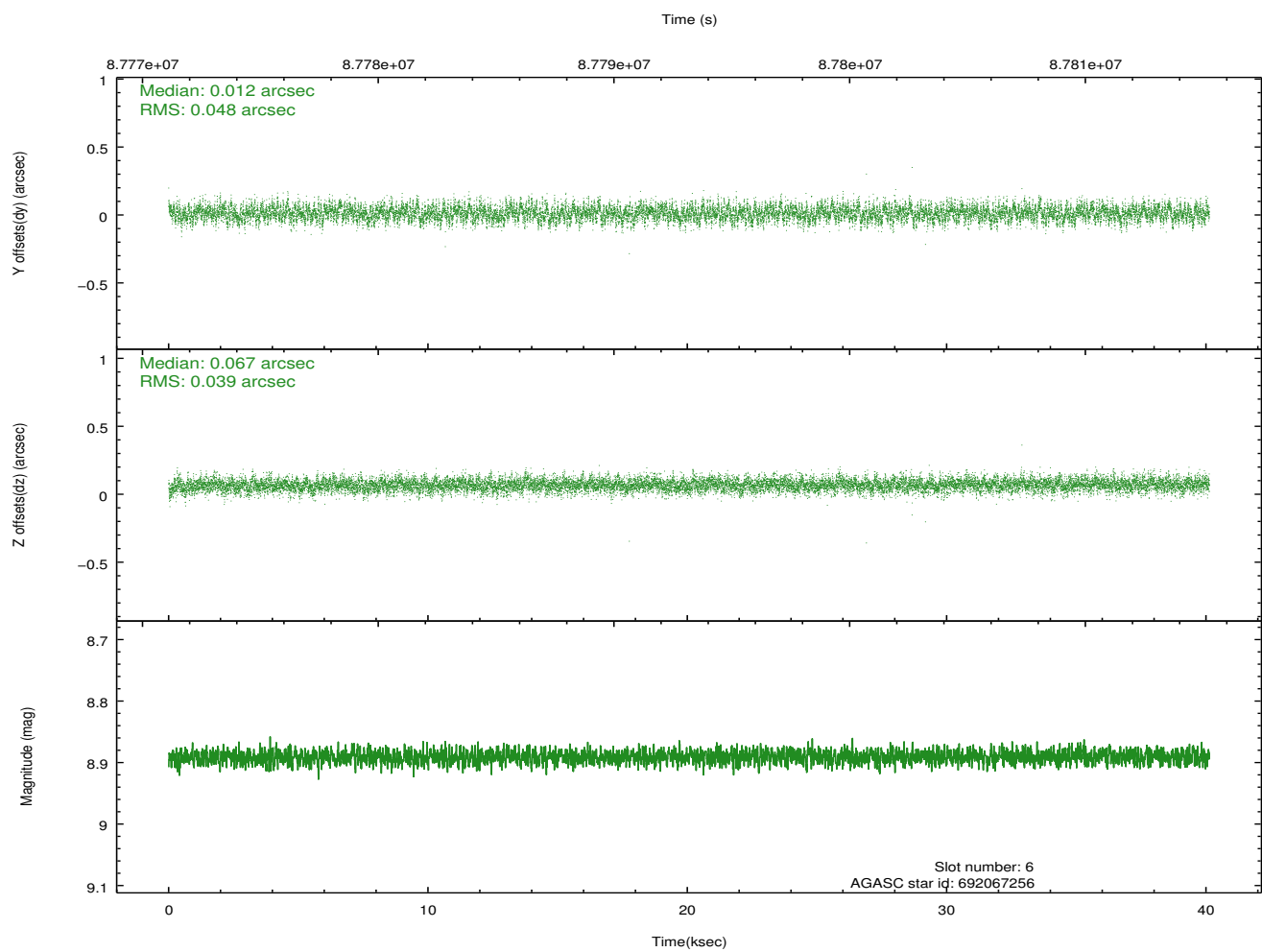
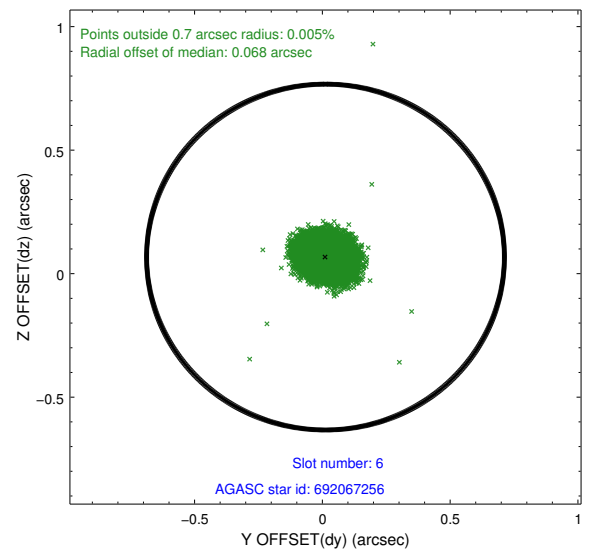
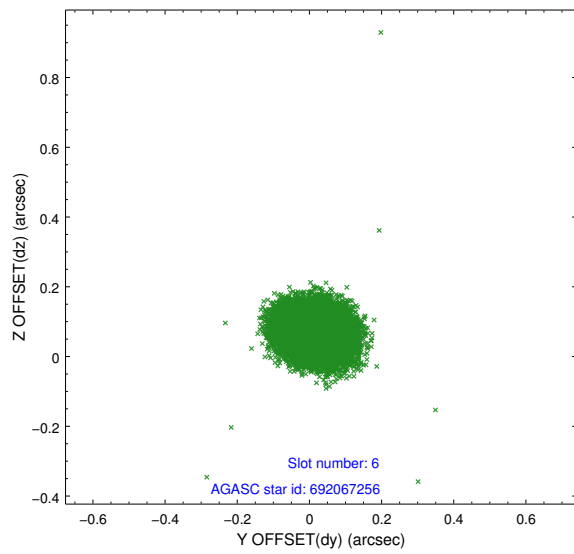
2.4.2 Slot 4



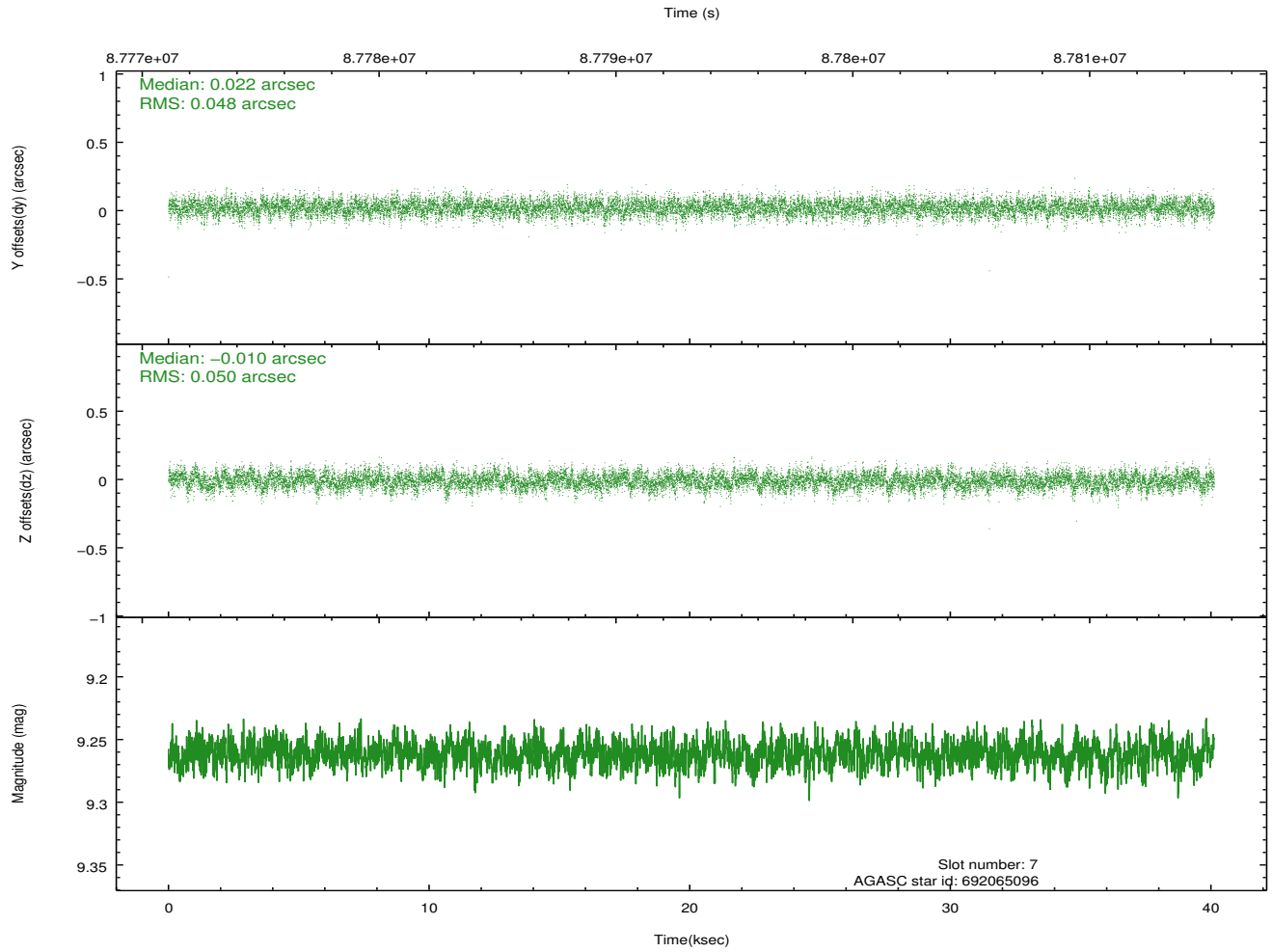
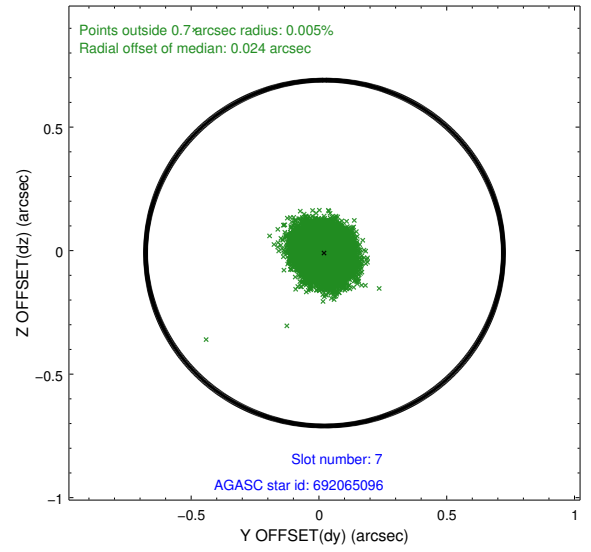
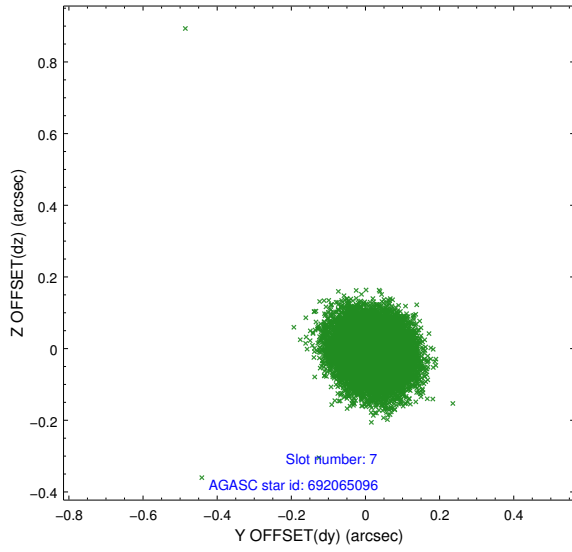
2.4.3 Slot 5



2.4.4 Slot 6

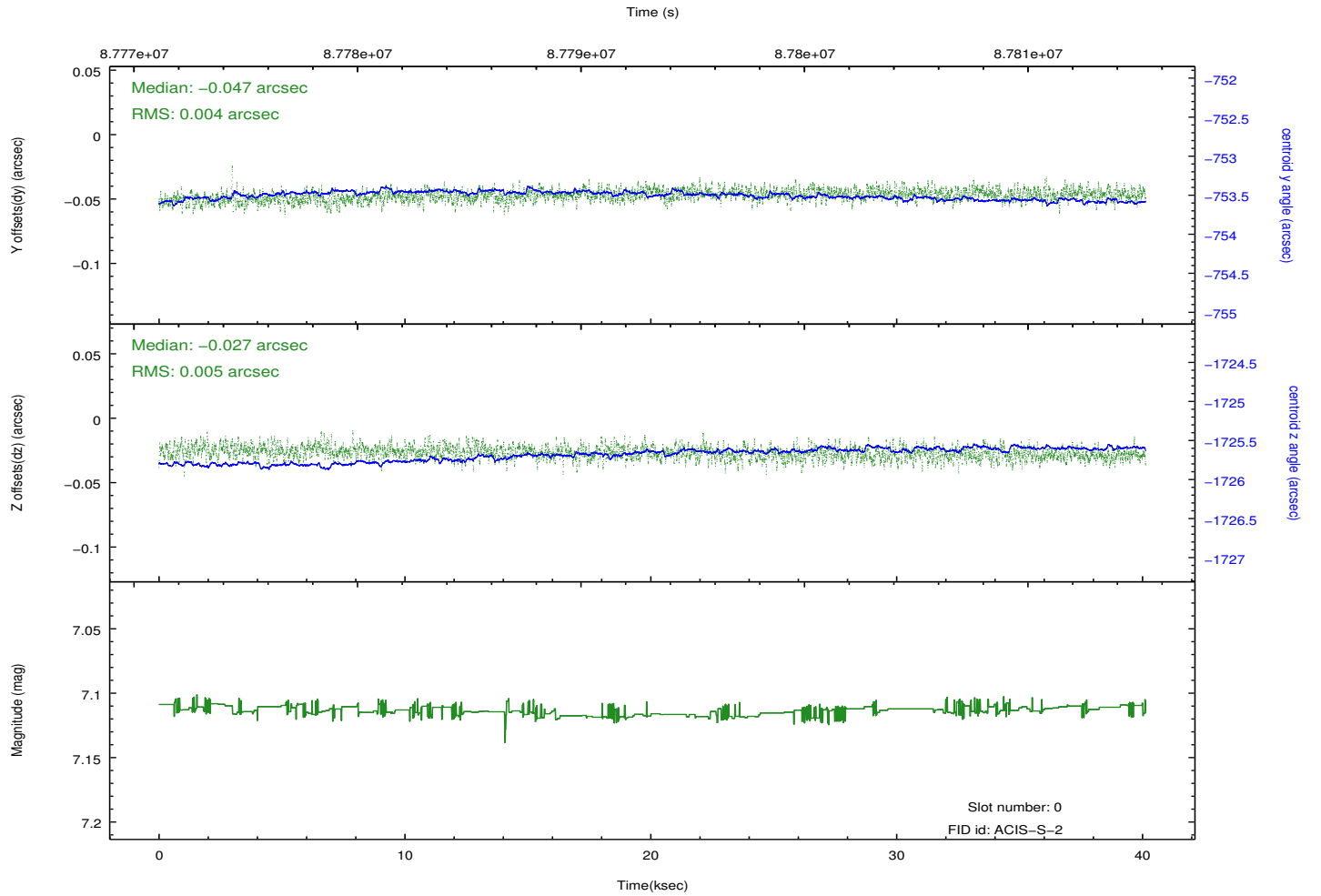
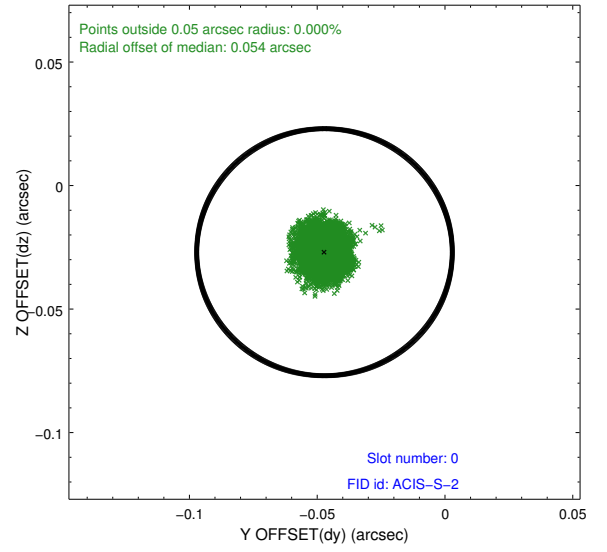
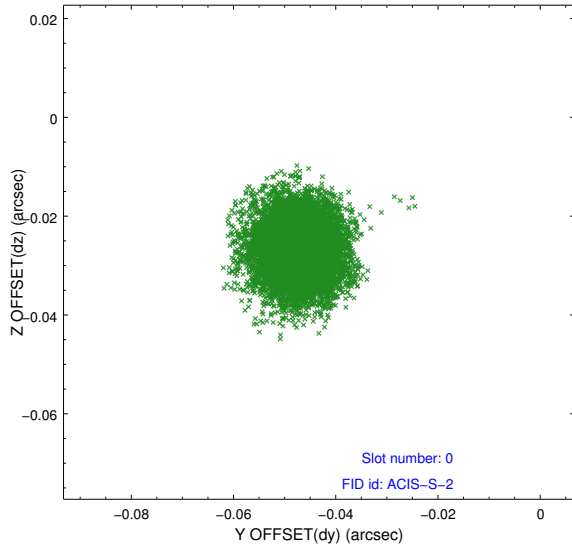


2.4.5 Slot 7

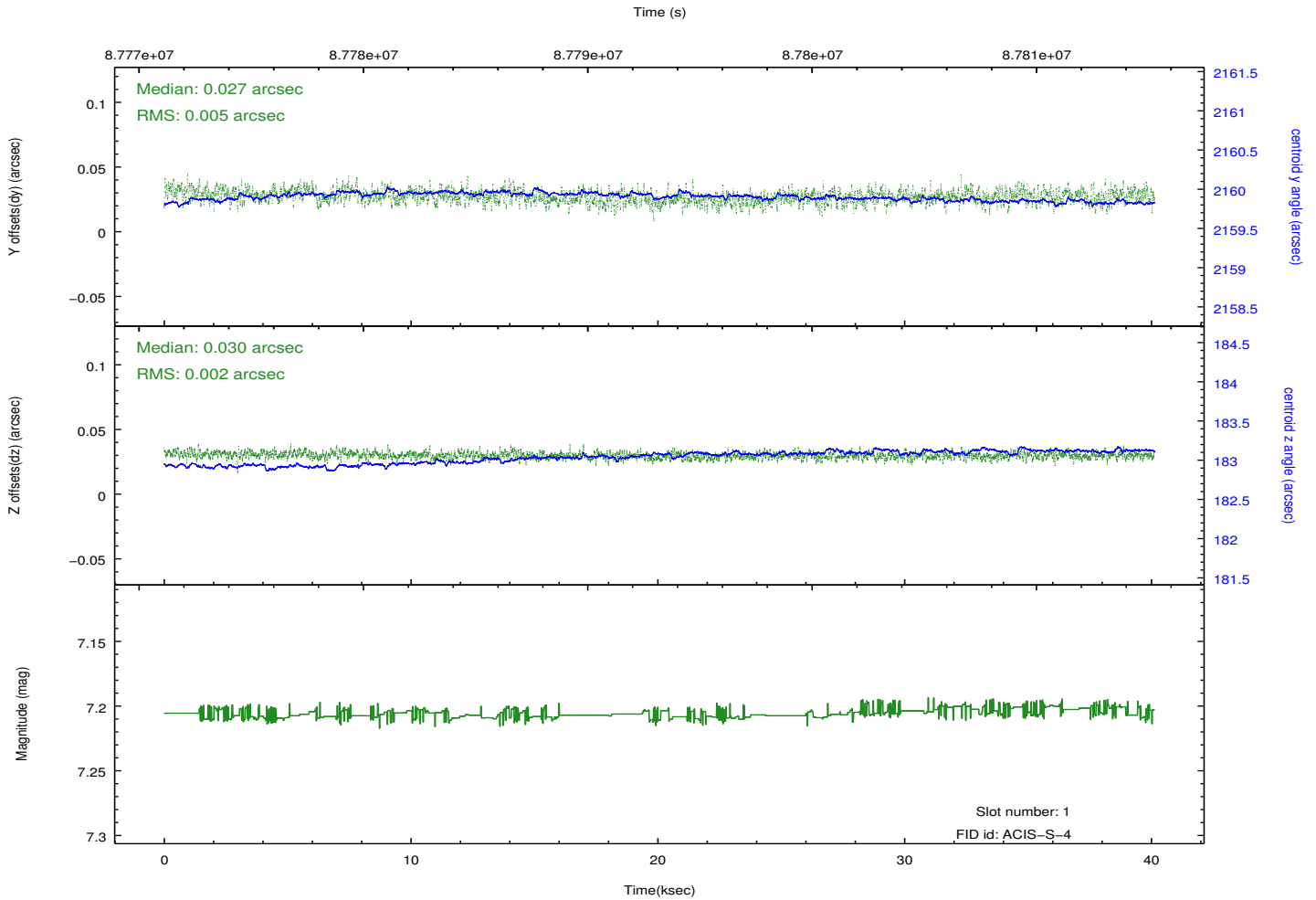
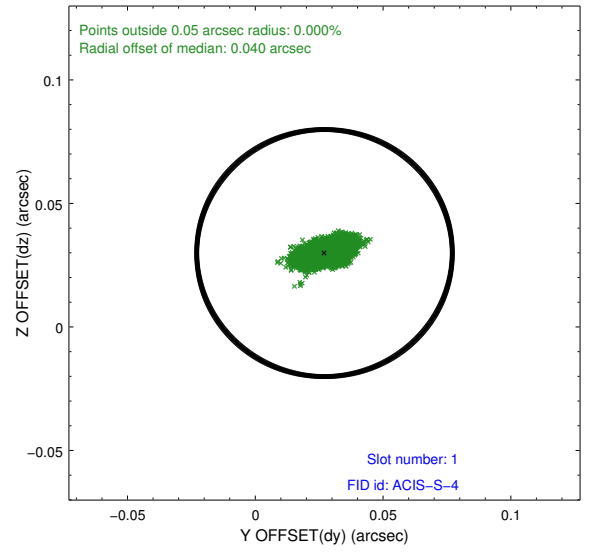
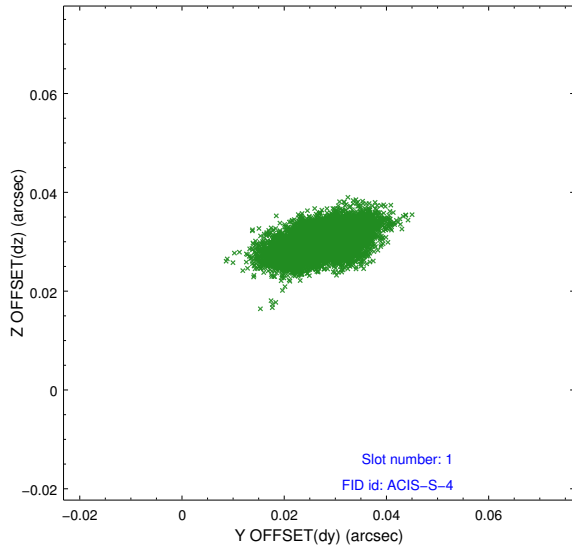


2.5 FID Slots

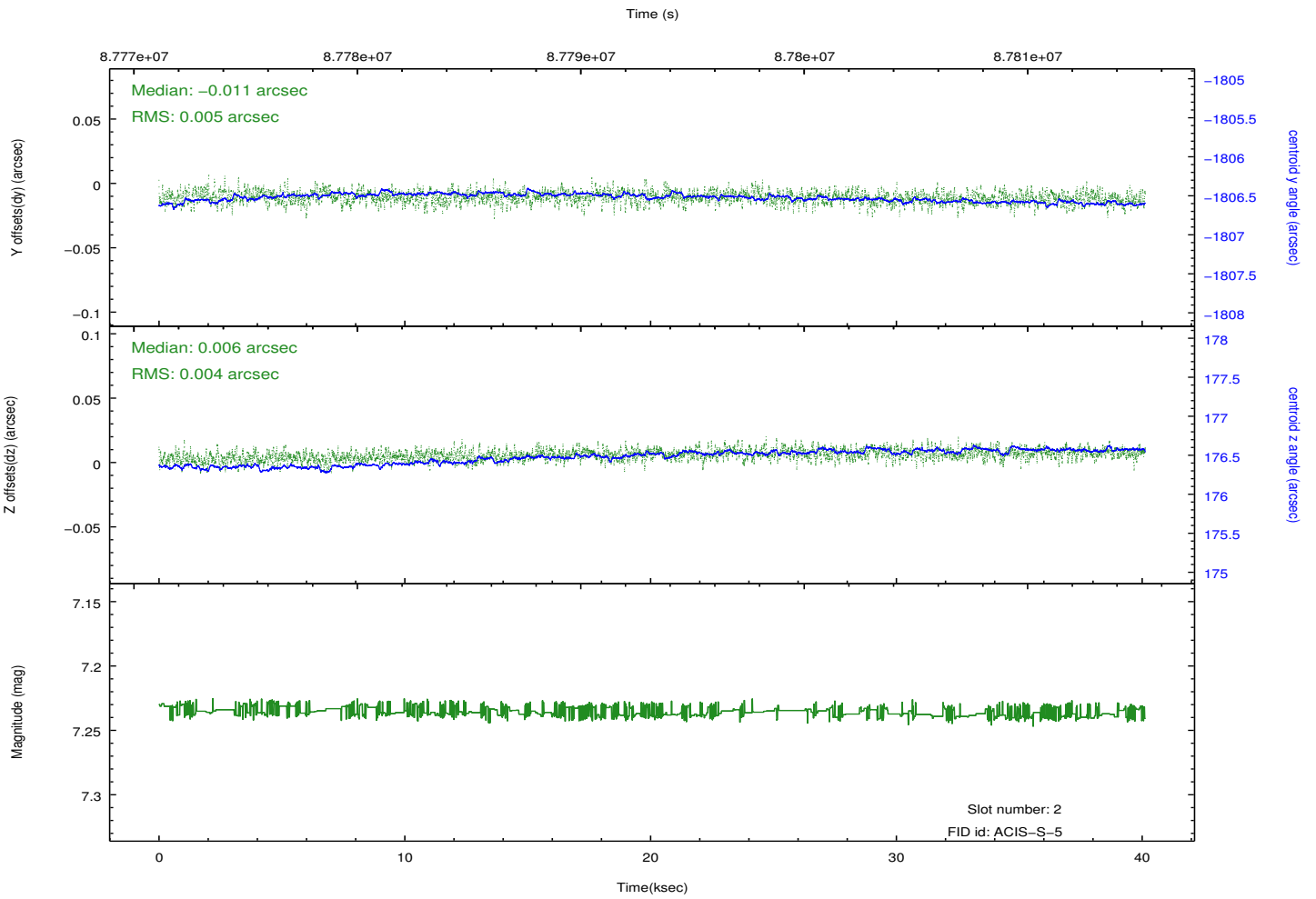
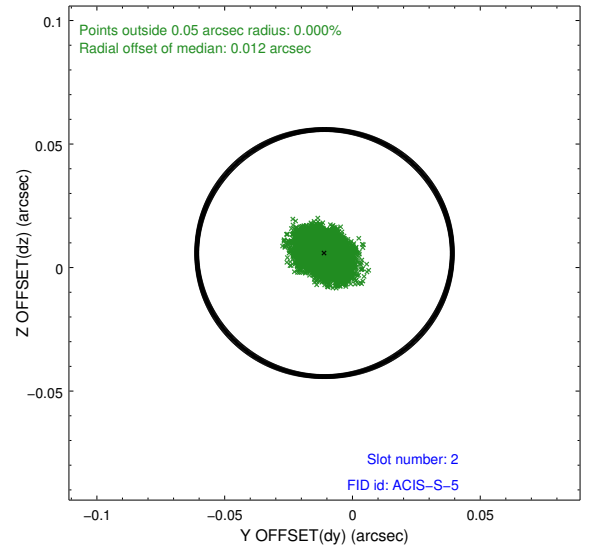
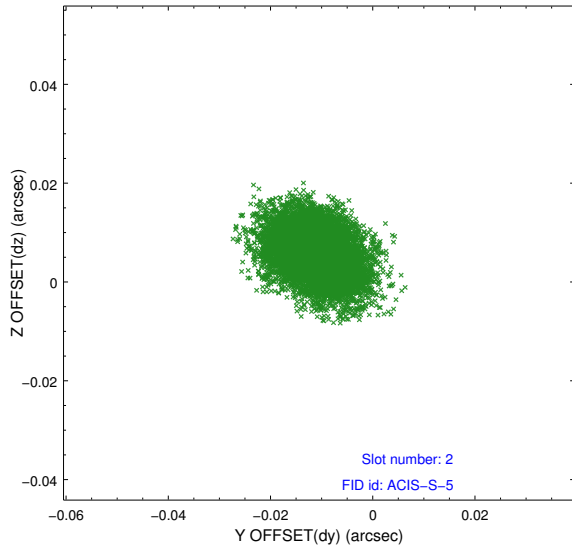
2.5.1 Slot 0



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)	2012.09.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.124

A.2 Comments