

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3531 - L2 Version 3
Chandra X-Ray Center

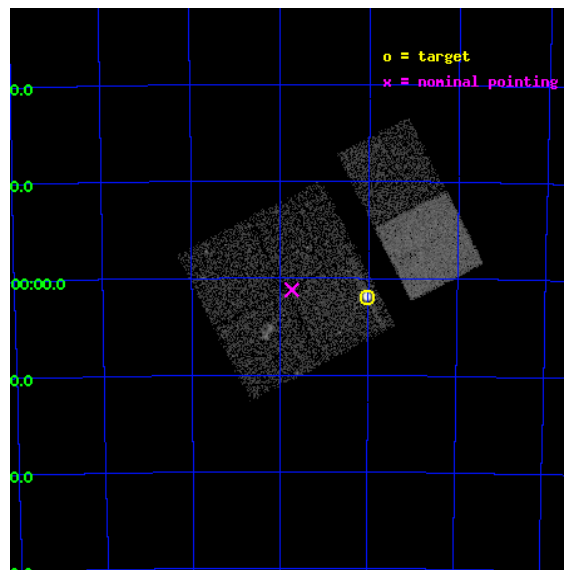
L2 Processing Date : Nov 3 2012

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1 Front

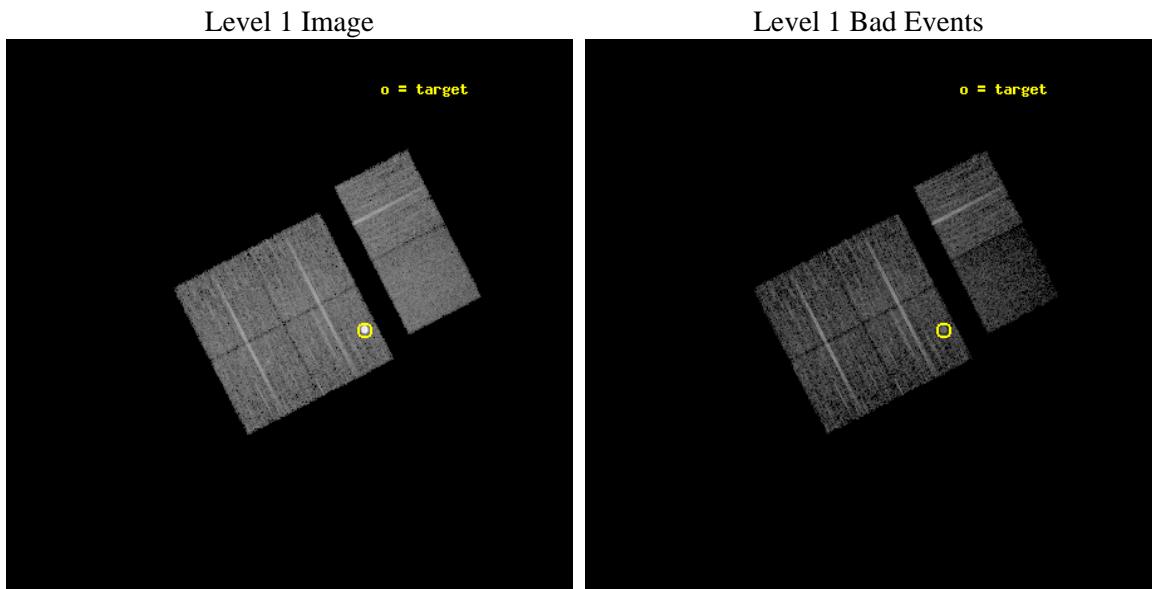
seq_num	590286	Sequence number
obs_id	3531	Observation id
title	AO4B ACIS-I CALIBRATION OBSERVATIONS OF E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[I3,-120,-4.0,6.5.0]	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.432815896415	Nominal RA [deg]
dec_nom	-72.02027580182	Nominal Dec [deg]
roll_nom	62.780129545003	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8172.7999695539	Sum of GTIs [s]
livetime	8069.3110552701	Livetime [s]
ontime0	8172.7999695539	Sum of GTIs [s]
ontime1	8172.7999695539	Sum of GTIs [s]
ontime2	8172.7999695539	Sum of GTIs [s]
ontime3	8172.7999695539	Sum of GTIs [s]
ontime6	8172.7999695539	Sum of GTIs [s]
ontime7	8169.5589992702	Sum of GTIs [s]
l2events	56260	Number of level 2 events



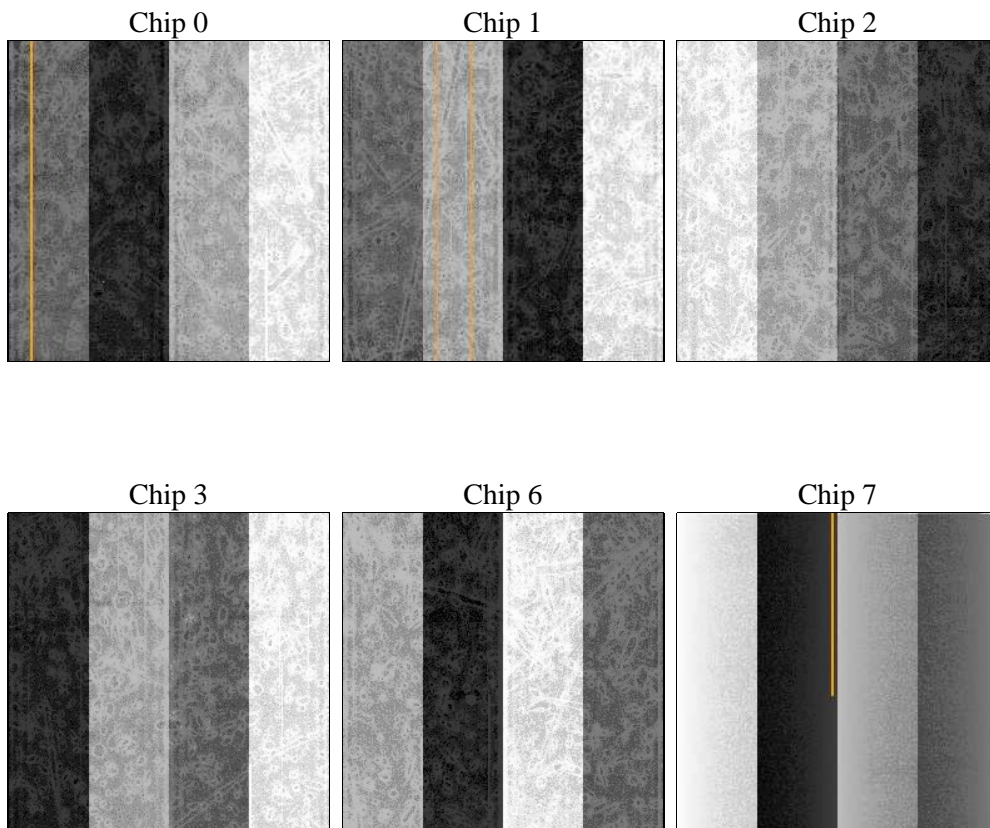
2 OBI

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	8.4.5	Processing system revision	ontime	8172.7999695539	Sum of GTIs [s]
caldbver	4.5.2	 	ontime0	8172.7999695539	Sum of GTIs [s]
date	2012-11-03T14:29:47	Date and time of file creation	ontime1	8172.7999695539	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	8172.7999695539	Sum of GTIs [s]
			ontime3	8172.7999695539	Sum of GTIs [s]
			ontime6	8172.7999695539	Sum of GTIs [s]
			ontime7	8169.5589992702	Sum of GTIs [s]
			l1events	261708	Number of level 1 events

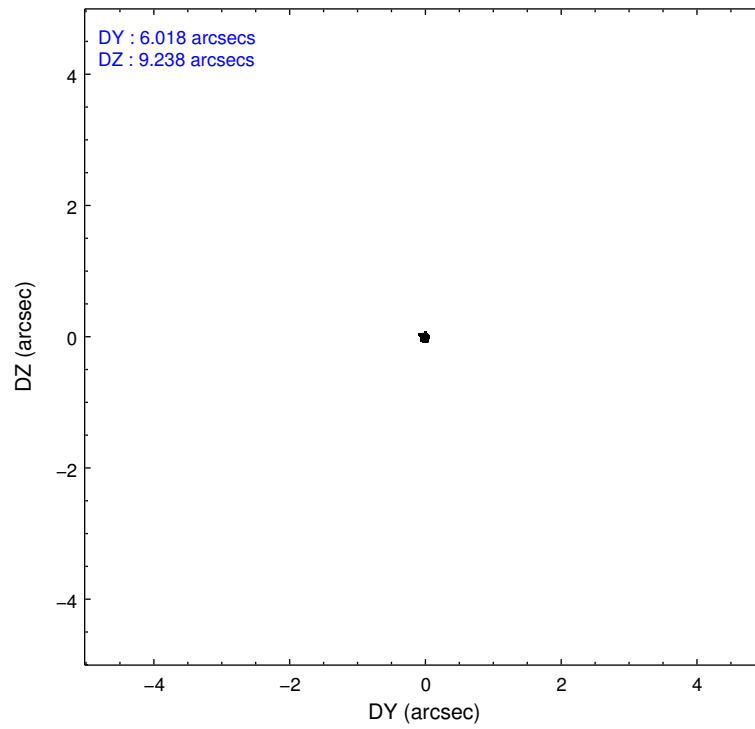
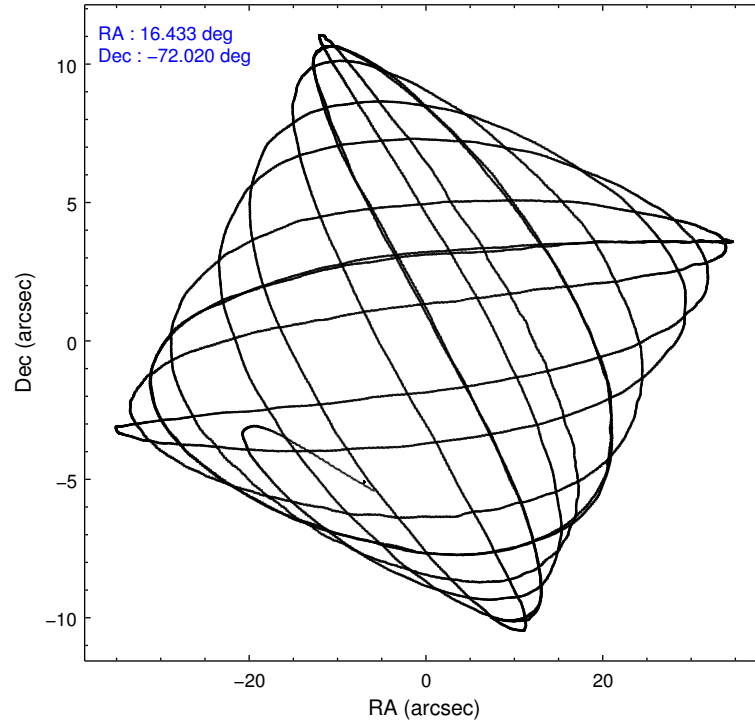
2.1.4 Events

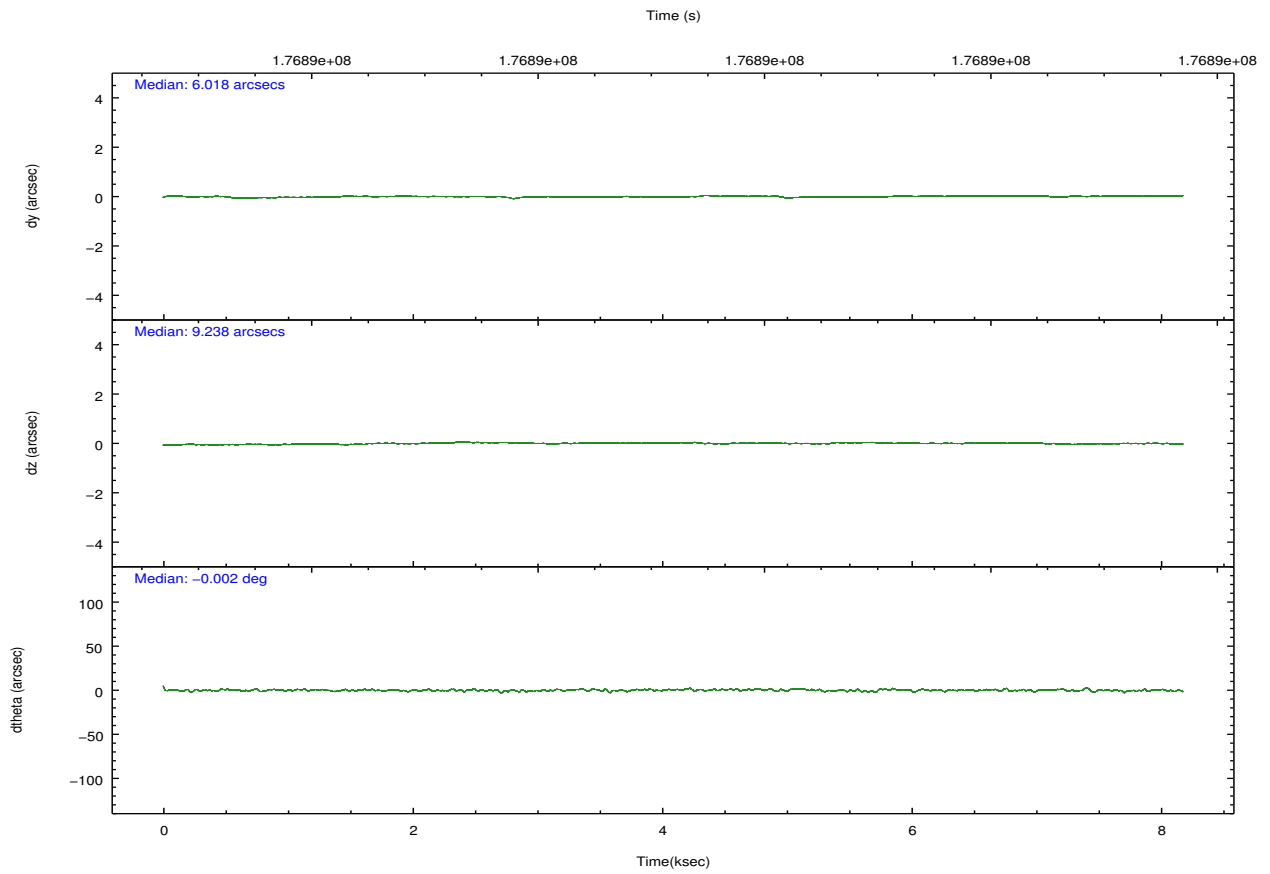
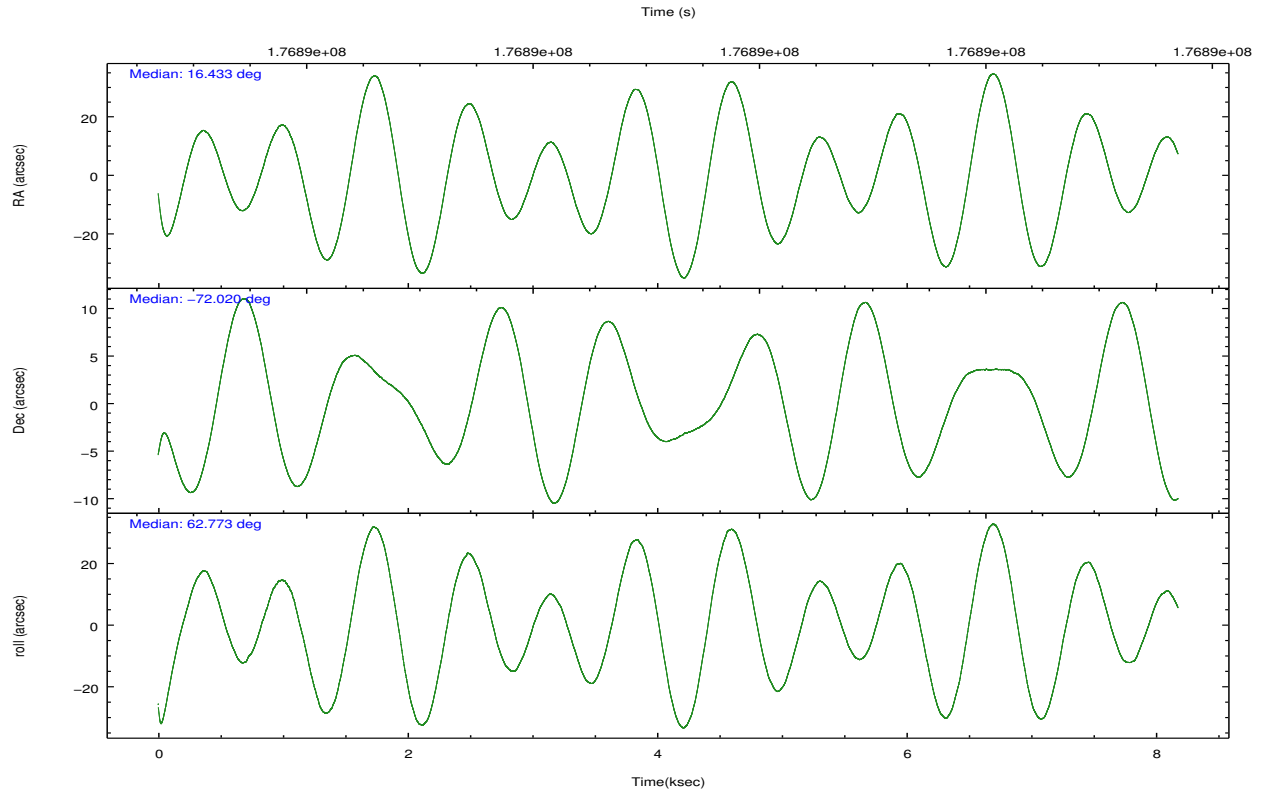
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	38424	37011	41778	62157	44019	38319	grade 0 events	1486	1918	1526	21678	1549	2067
rejected events	34444	32518	37959	36116	39937	19799		3%	5%	3%	34%	3%	5%
rejected %	89%	87%	90%	58%	90%	51%	grade 1 events	15	14	19	151	13	41
								0%	0%	0%	0%	0%	0%
							grade 2 events	853	939	853	2411	900	3965
								2%	2%	2%	3%	2%	10%
							grade 3 events	528	492	427	787	446	1925
								1%	1%	1%	1%	1%	5%
							grade 4 events	432	492	434	825	456	1820
								1%	1%	1%	1%	1%	4%
							grade 5 events	1212	1274	1117	1371	1436	4003
								3%	3%	2%	2%	3%	10%
							grade 6 events	790	781	690	859	860	9313
								2%	2%	1%	1%	1%	24%
							grade 7 events	33108	31101	36712	34075	38359	15185
								86%	84%	87%	54%	87%	39%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	16.437466	16.43281589641528	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.047587	-72.02027580181965	Alternating exposures requested	N	N
[deg] Pointing Roll	62.575895	62.78012954500306	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	174614464.184000	174614464.184000			
[s] Window stop time (MET)	177292864.184000	177292864.184000			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	176885275.184000	176884076.72518			
Observation start date	2003-08-10T06:46:51	2003-08-10T06:27:56			
[s] Observation end time (MET)	176893275.184000	176893409.86308			
Observation end date	2003-08-10T09:00:11	2003-08-10T09:03:29			
Read mode	TIMED	TIMED			

2.3 Aspect



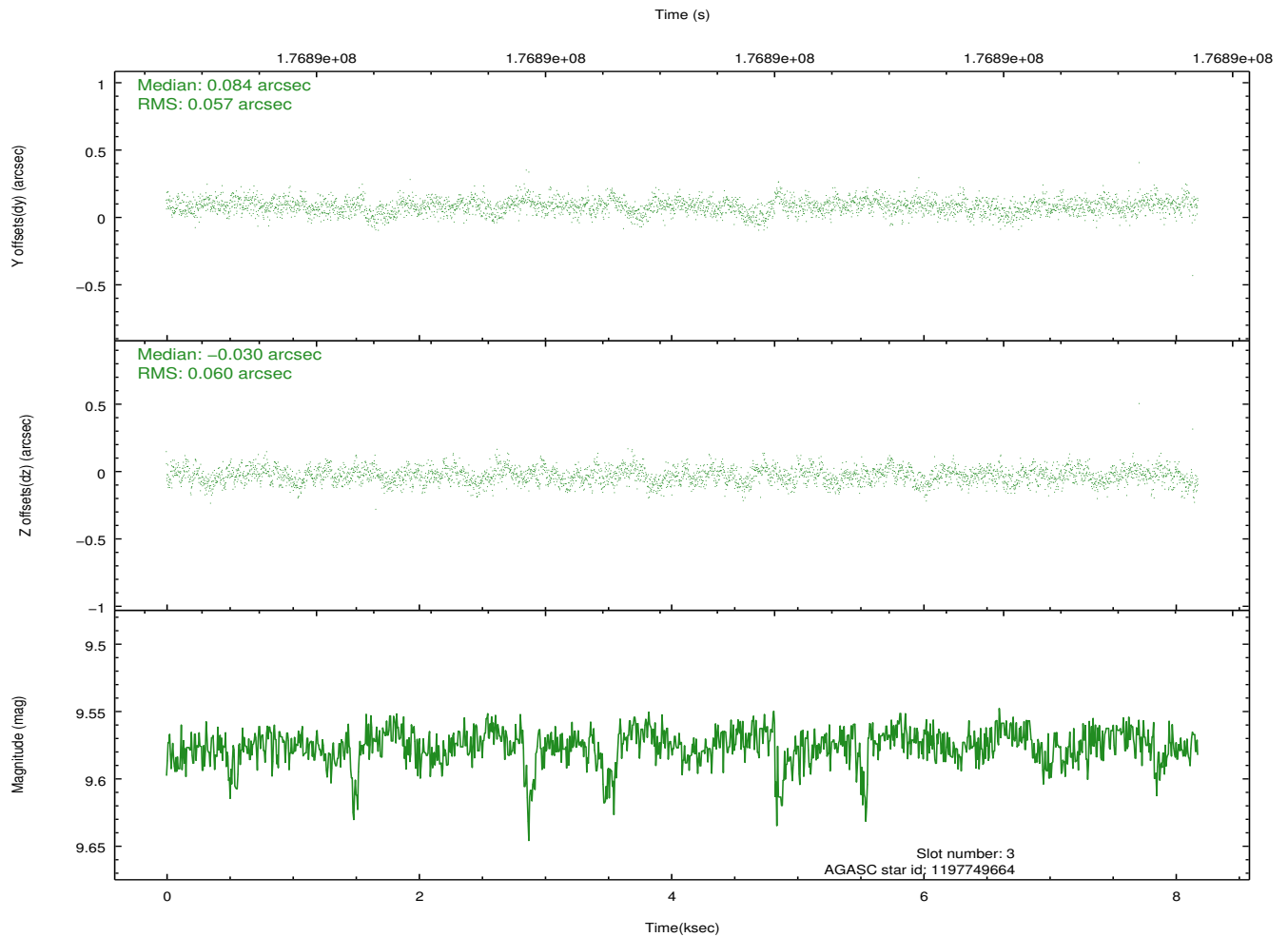
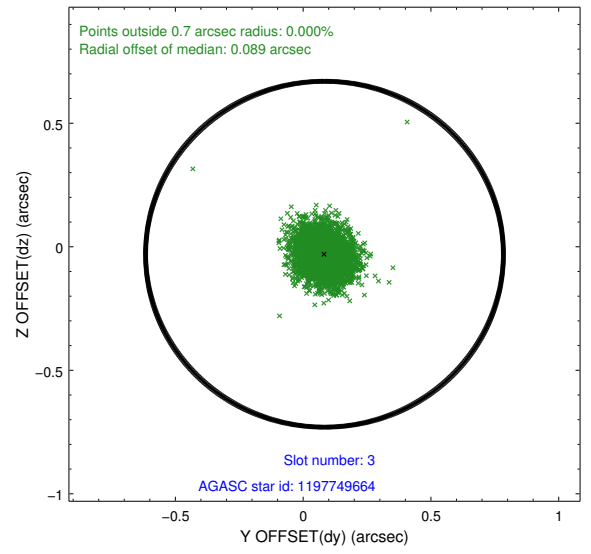
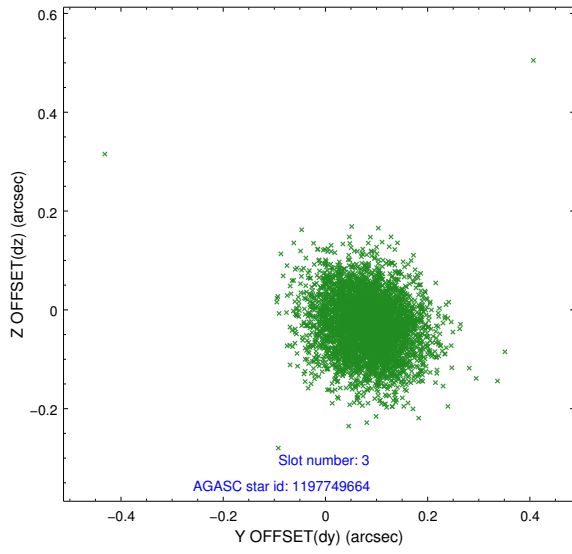


Slot Statistics

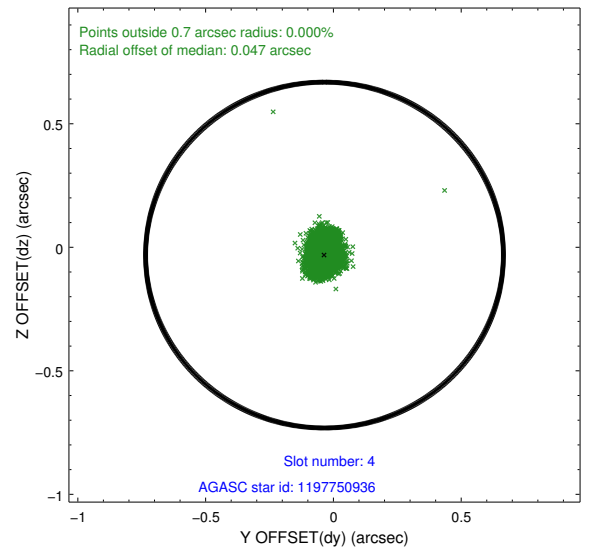
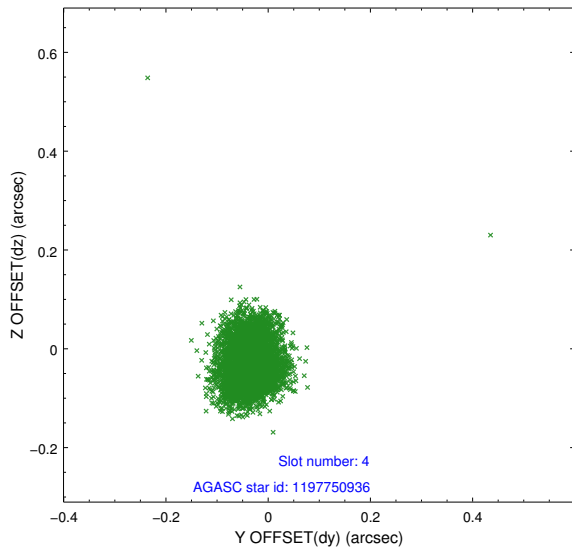
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1994	-0.054	0.080	0.009	0.015	0.000000	0.000000	933.65	-832.60
1	FID	ACIS-I-2	7.13	1993	-0.098	-0.061	0.007	0.011	0.000000	0.000000	-760.10	-839.53
2	FID	ACIS-I-4	7.18	1995	0.054	0.048	0.007	0.012	0.000000	0.000000	2153.32	1066.84
3	GUIDE	1197749664	9.57	3983	0.084	-0.030	0.087	0.143	15.809015	-72.366369	-1337.02	78.04
4	GUIDE	1197750936	7.56	3987	-0.035	-0.031	0.058	0.092	15.387940	-71.549550	1031.13	1882.53
5	GUIDE	1197884536	8.49	3987	0.096	0.108	0.054	0.089	17.160729	-71.835289	1048.65	-369.85
6	GUIDE	1197885104	9.35	3988	-0.109	0.034	0.089	0.147	17.845067	-72.189368	245.12	-1618.94
7	GUIDE	1197885328	7.22	3987	-0.037	-0.078	0.056	0.085	16.283090	-71.733943	922.41	674.10

2.4 Star Slots

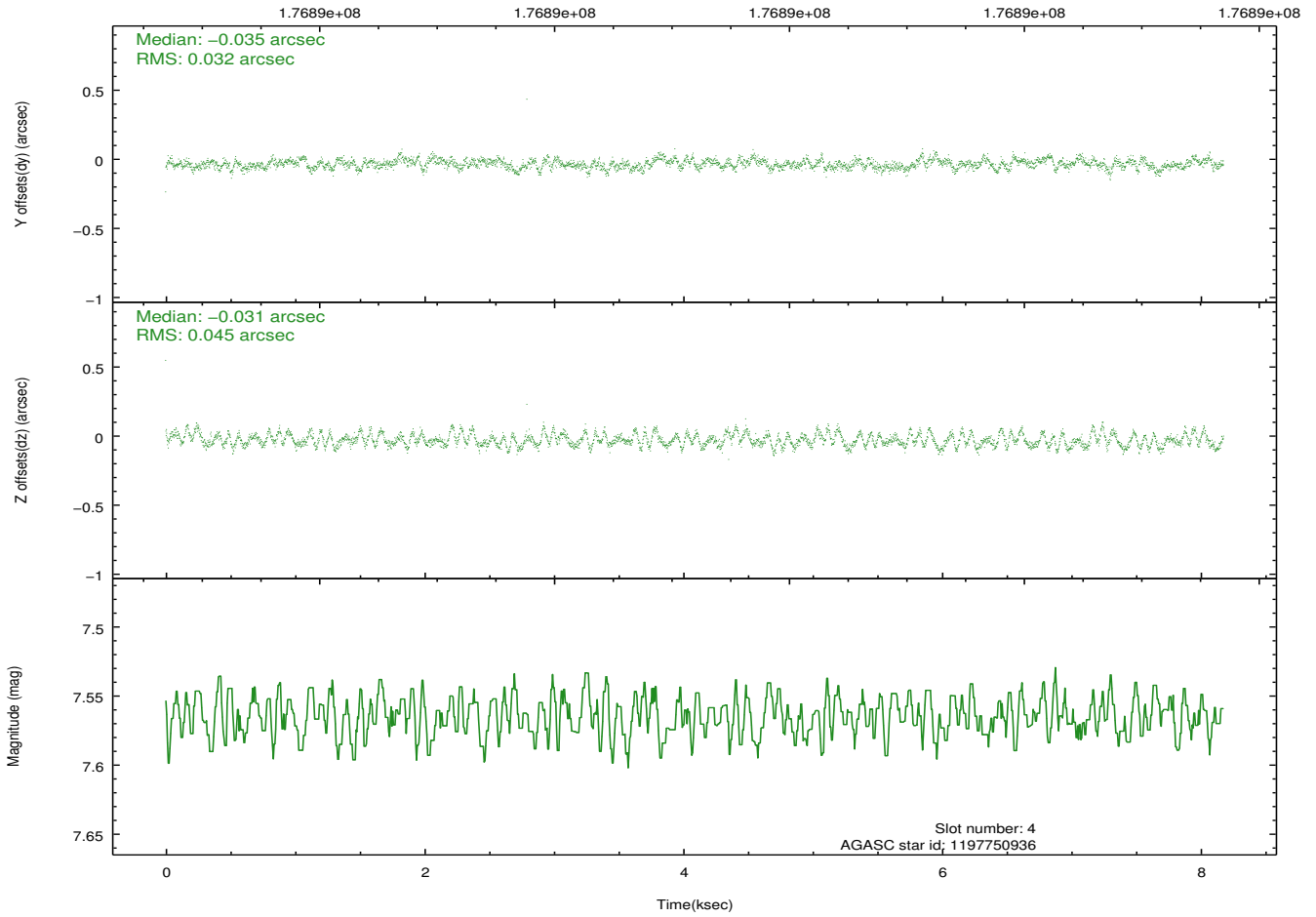
2.4.1 Slot 3



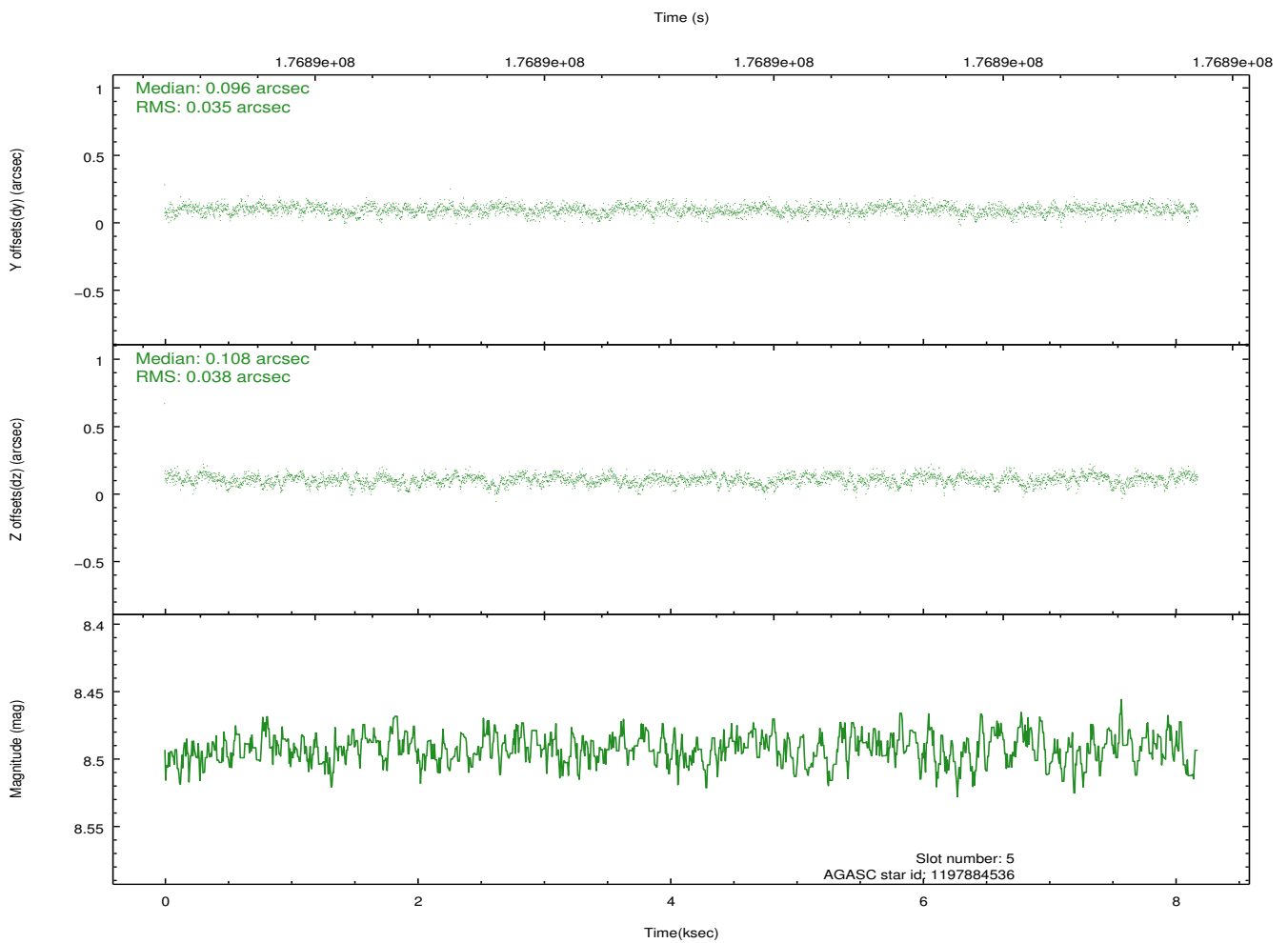
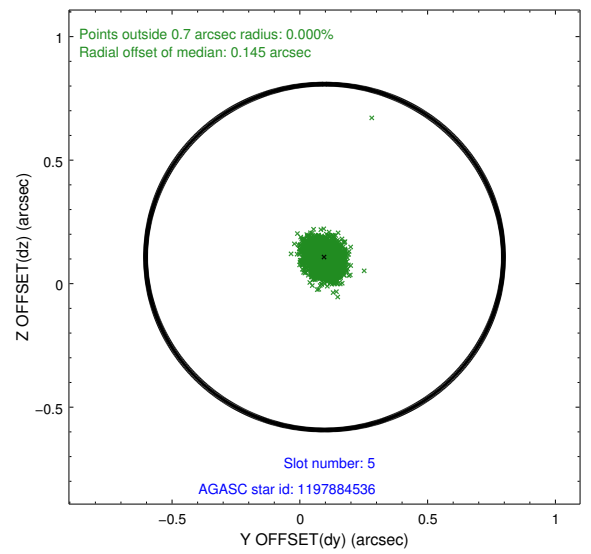
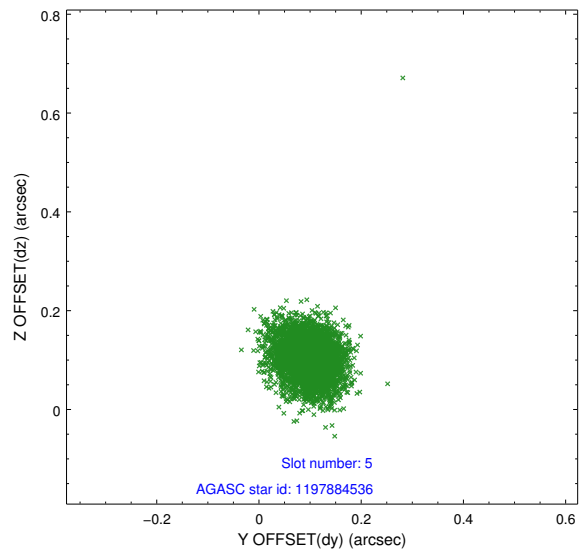
2.4.2 Slot 4



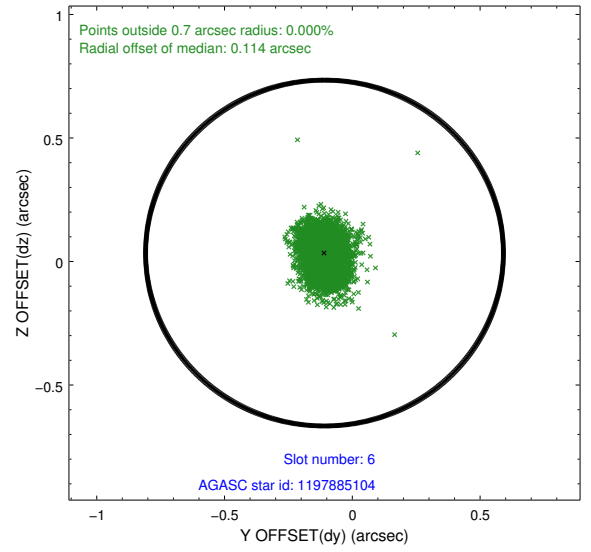
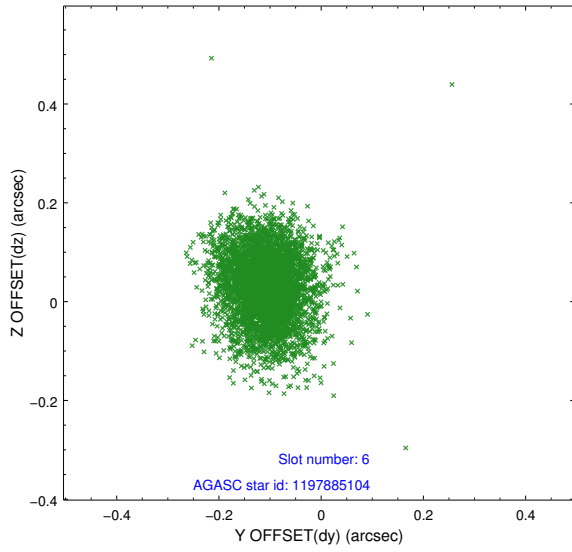
Time (s)



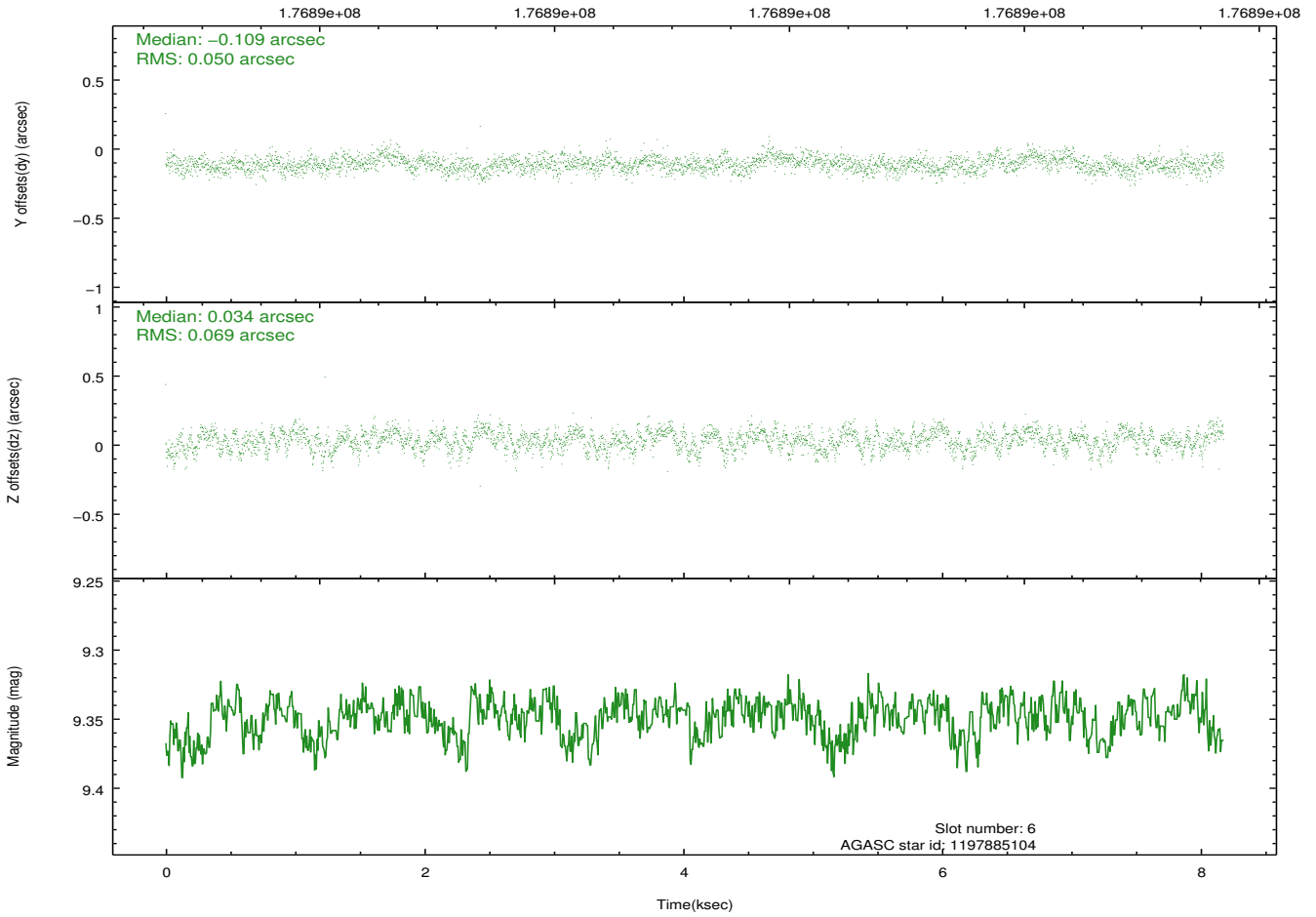
2.4.3 Slot 5



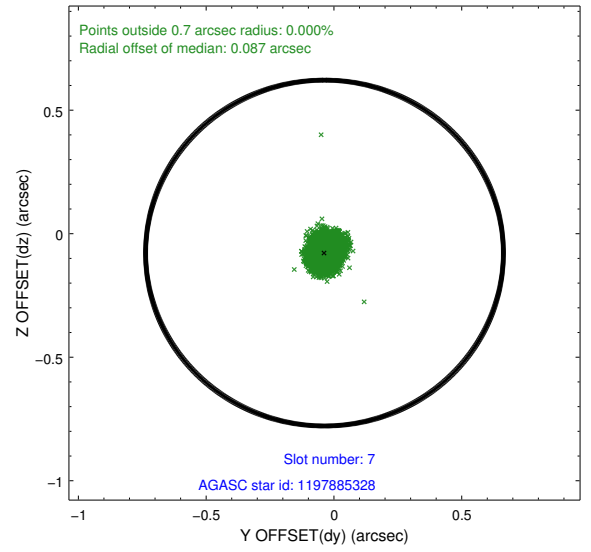
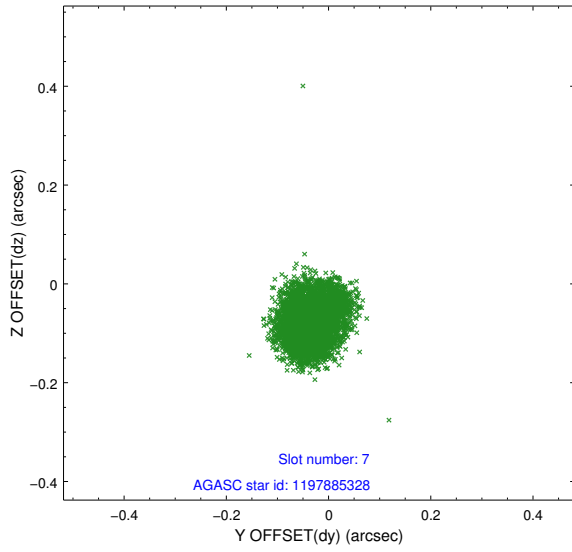
2.4.4 Slot 6



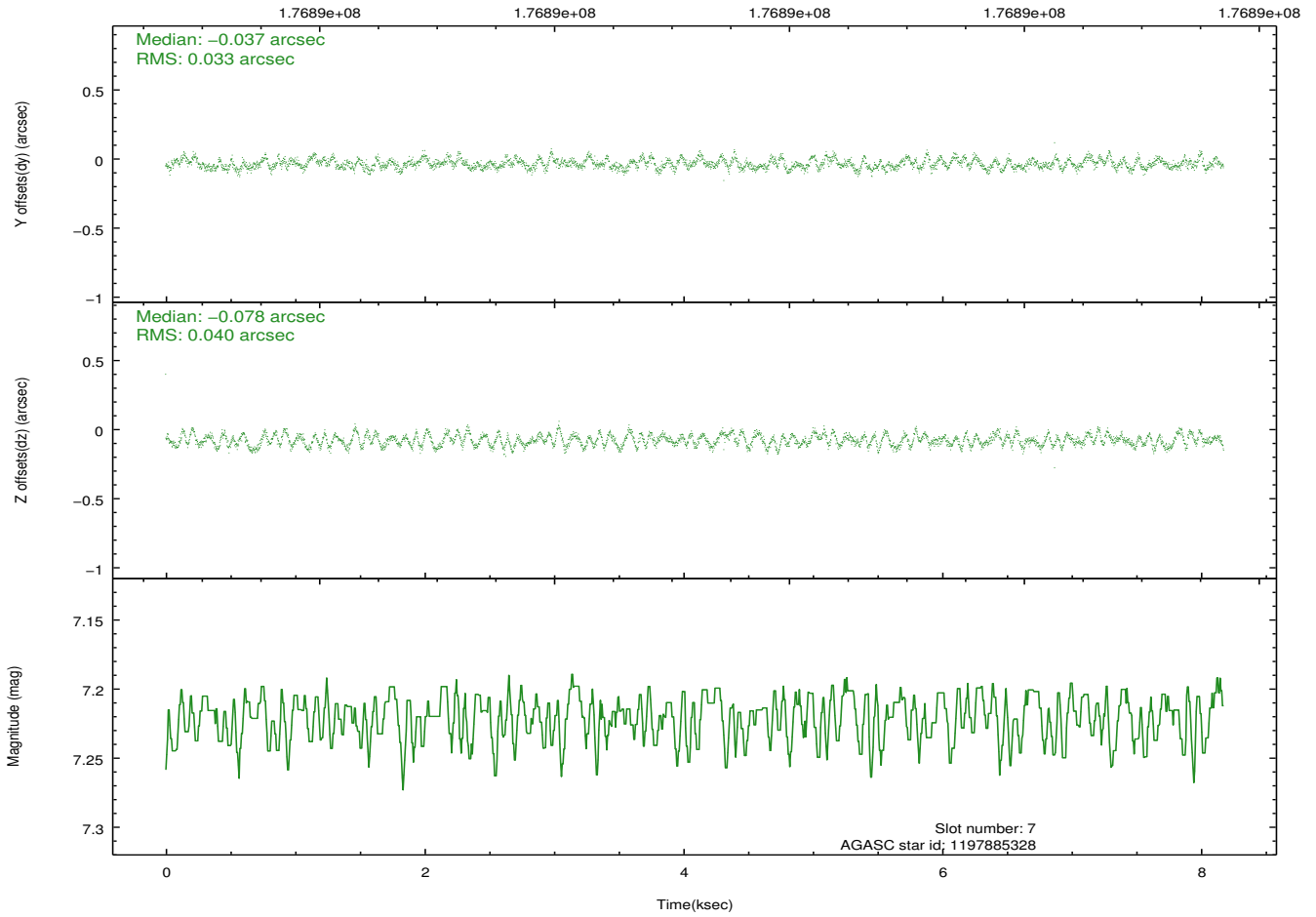
Time (s)



2.4.5 Slot 7

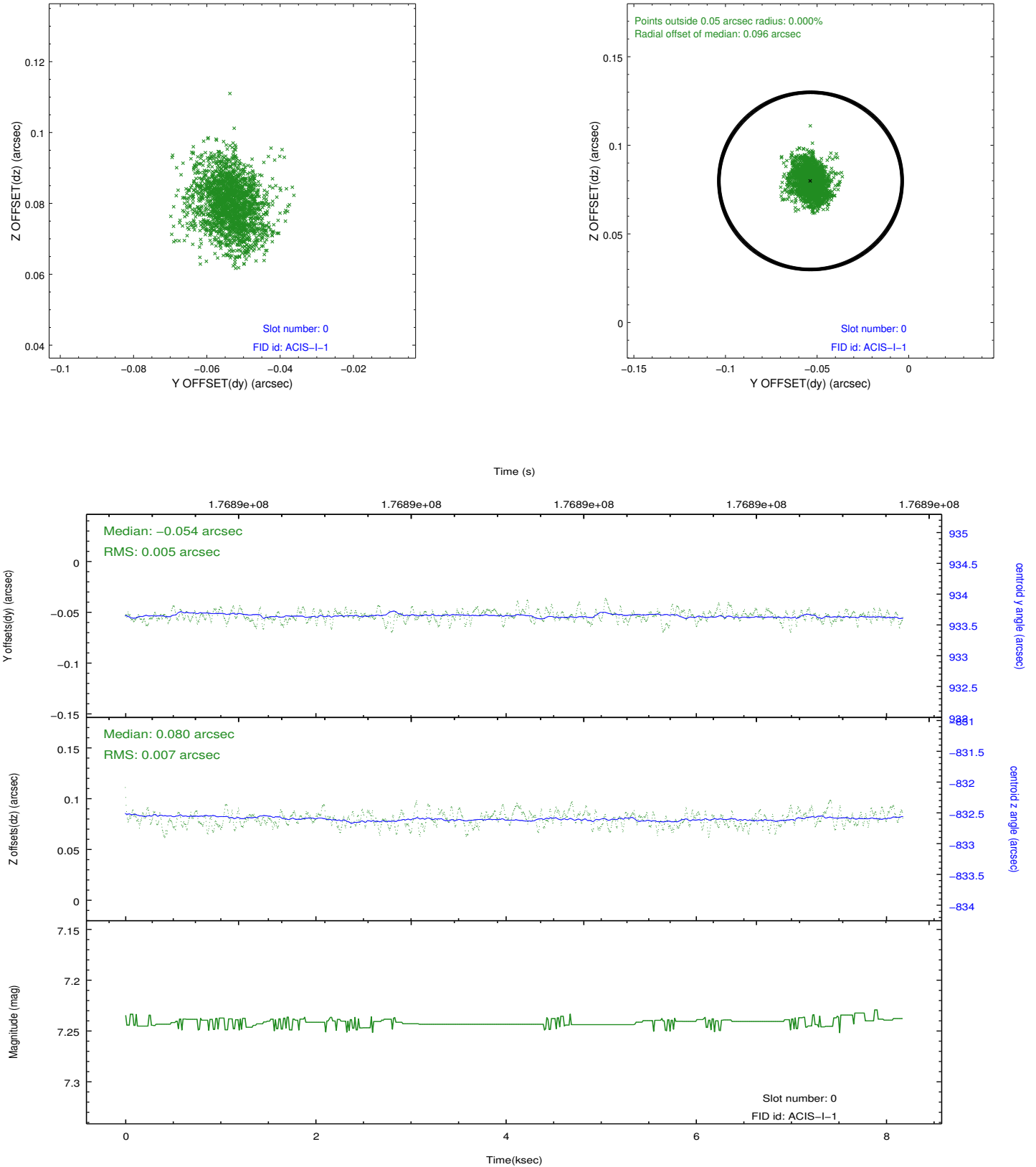


Time (s)

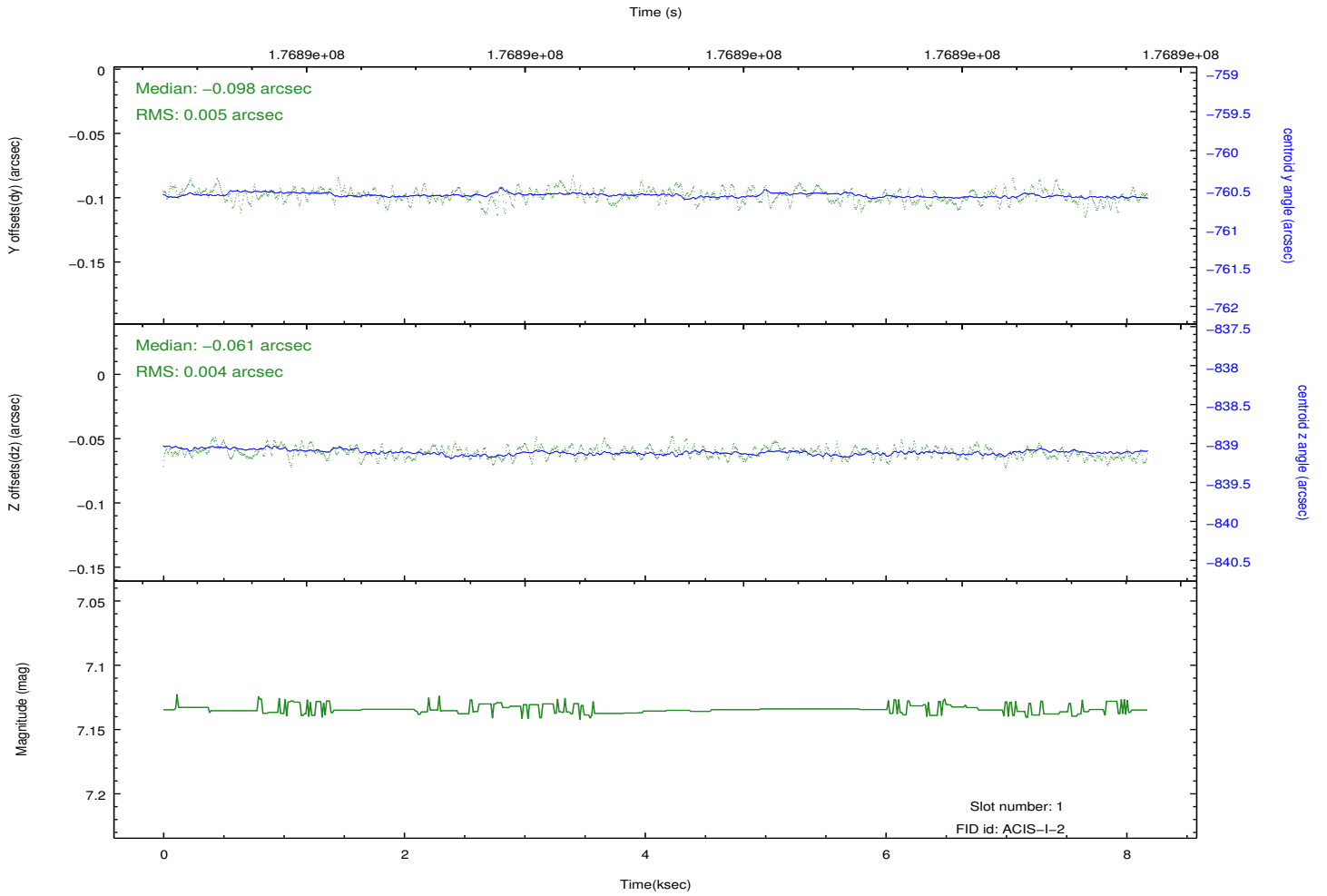
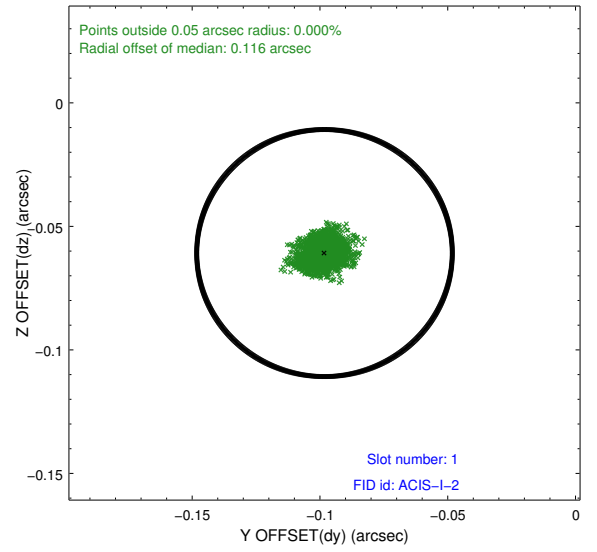
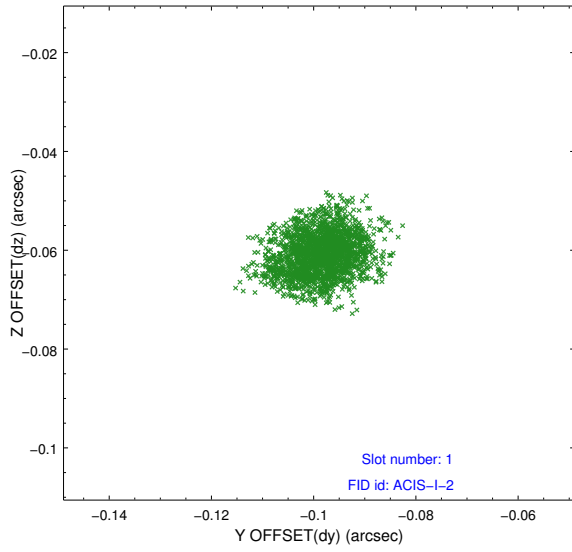


2.5 FID Slots

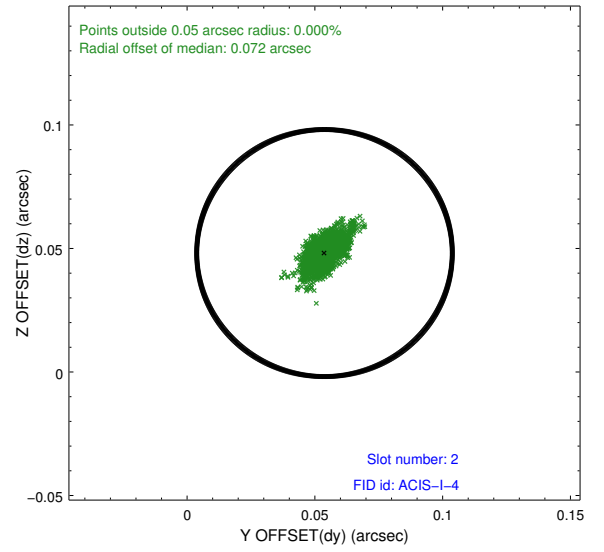
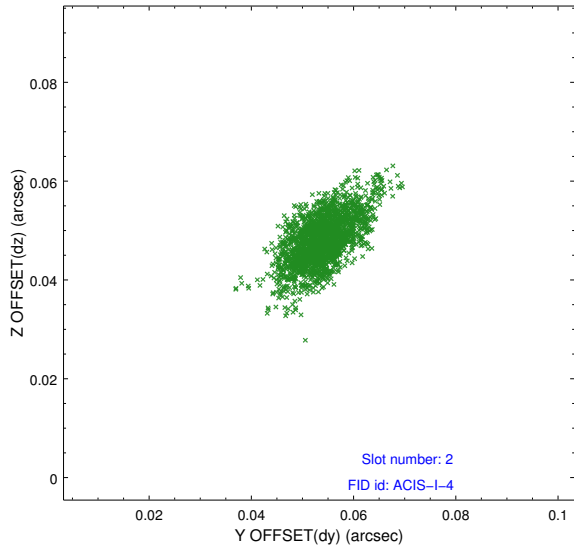
2.5.1 Slot 0



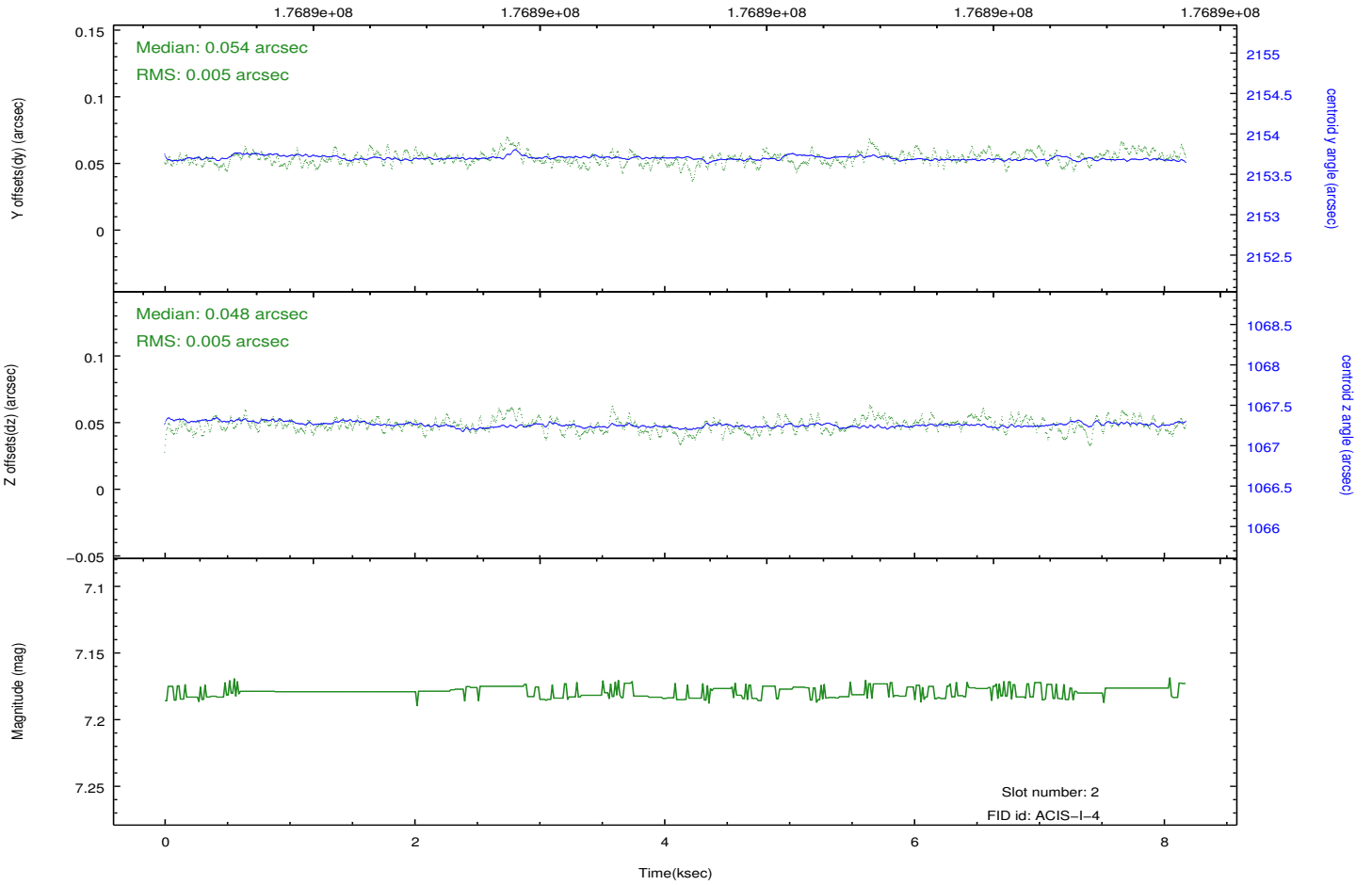
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.11.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.169

A.2 Comments

Window constraint met.