

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3524 - L2 Version 3
Chandra X-Ray Center

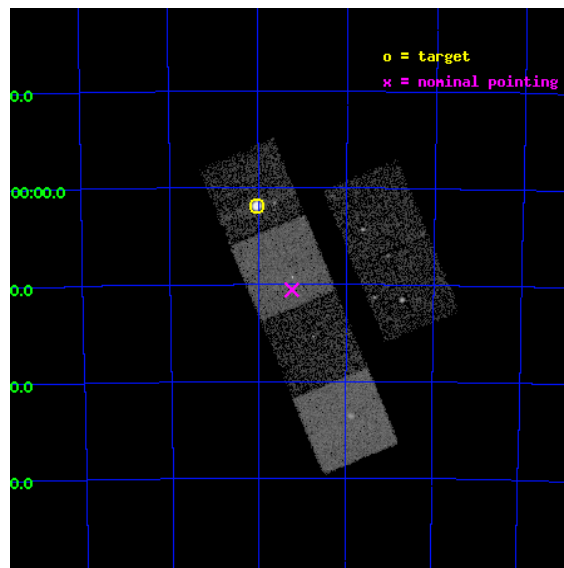
L2 Processing Date : Oct 22 2012

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1 Front

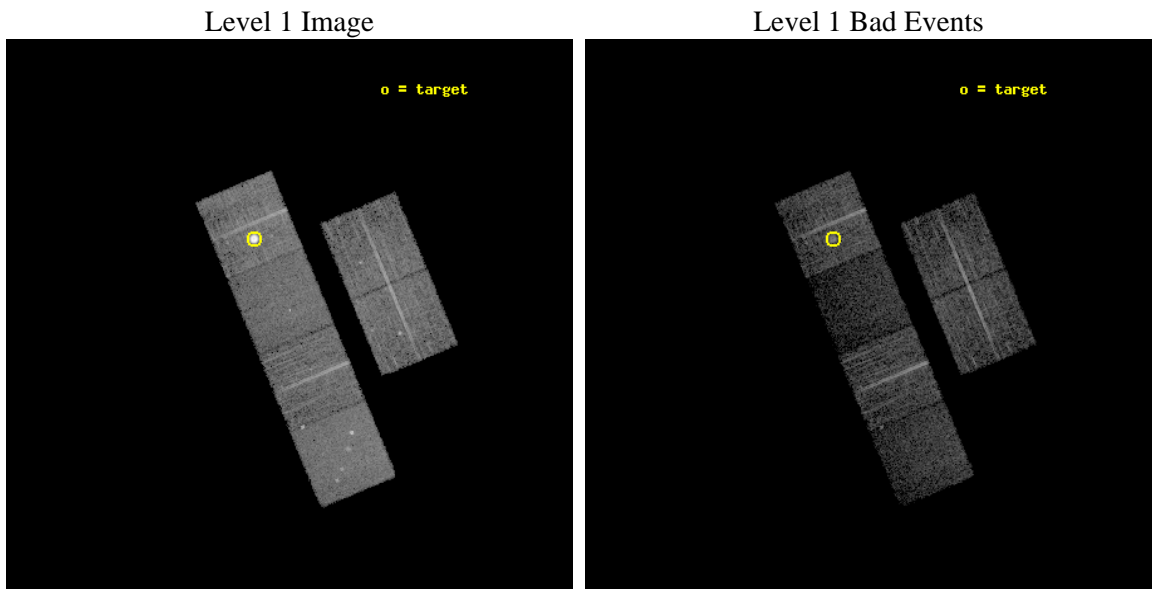
seq_num	590279	Sequence number
obs_id	3524	Observation id
title	AO4A ACIS-S CALIBRATION OBSERVATIONS OF E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[S4,-120,-9.15,0,0]	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.809302954132	Nominal RA [deg]
dec_nom	-72.175904486402	Nominal Dec [deg]
roll_nom	247.44948504235	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7727.9590109289	Sum of GTIs [s]
livetime	7630.1029407142	Livetime [s]
ontime2	7731.199971199	Sum of GTIs [s]
ontime3	7724.7180705965	Sum of GTIs [s]
ontime5	7731.199971199	Sum of GTIs [s]
ontime6	7731.199971199	Sum of GTIs [s]
ontime7	7731.199971199	Sum of GTIs [s]
ontime8	7727.9590109289	Sum of GTIs [s]
l2events	81148	Number of level 2 events



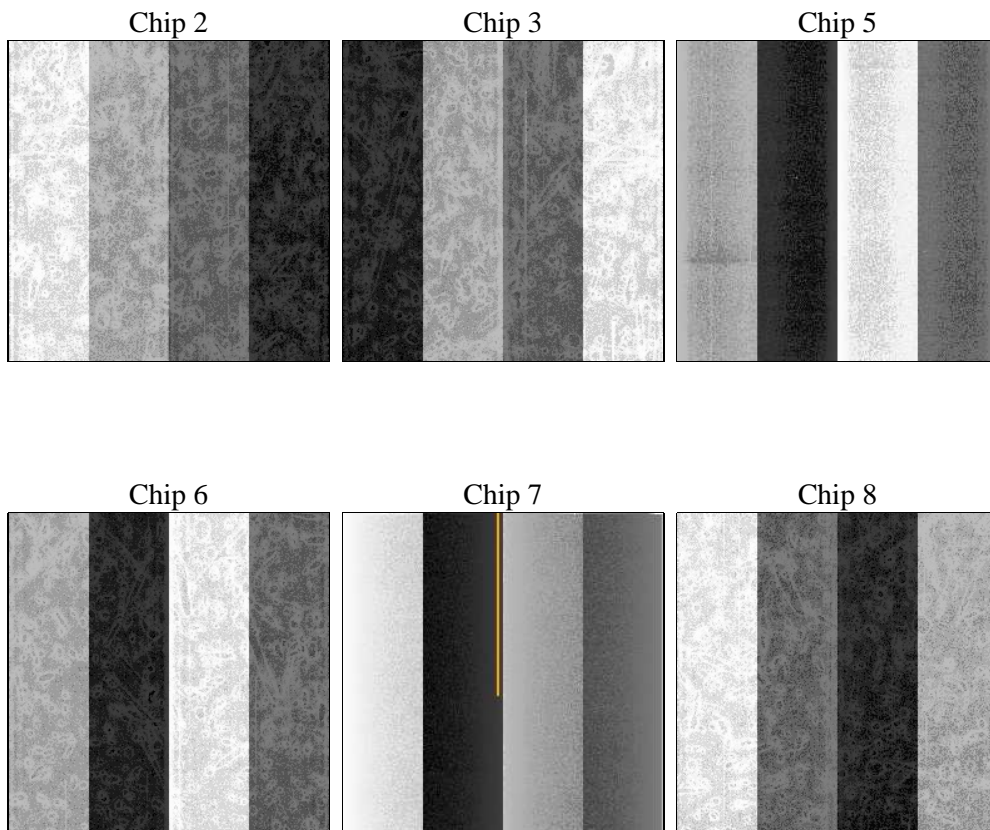
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7973.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7727.9590109289	Sum of GTIs [s]
caldbver	4.5.2	 	ontime2	7731.199971199	Sum of GTIs [s]
date	2012-10-22T03:59:46	Date and time of file creation	ontime3	7724.7180705965	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	7731.199971199	Sum of GTIs [s]
			ontime6	7731.199971199	Sum of GTIs [s]
			ontime7	7731.199971199	Sum of GTIs [s]
			ontime8	7727.9590109289	Sum of GTIs [s]
			l1events	282784	Number of level 1 events

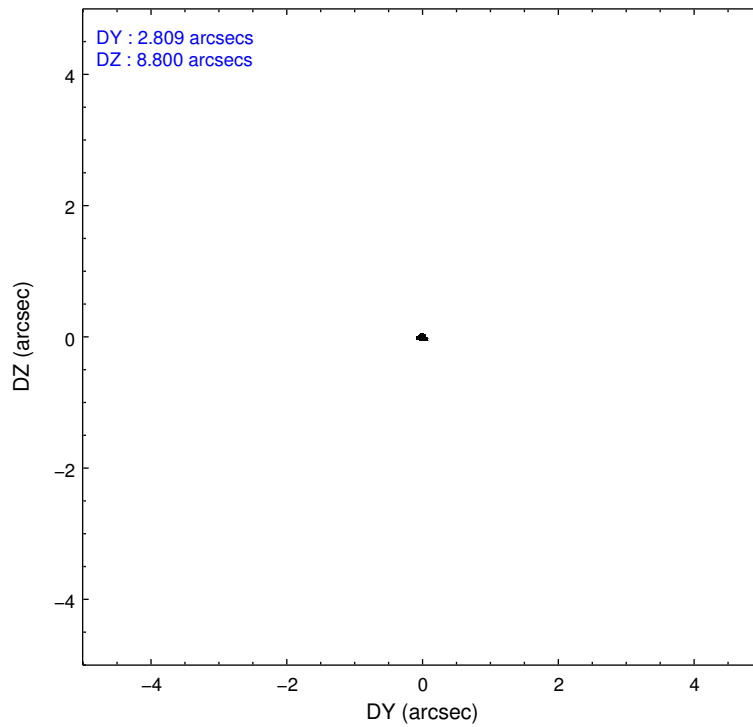
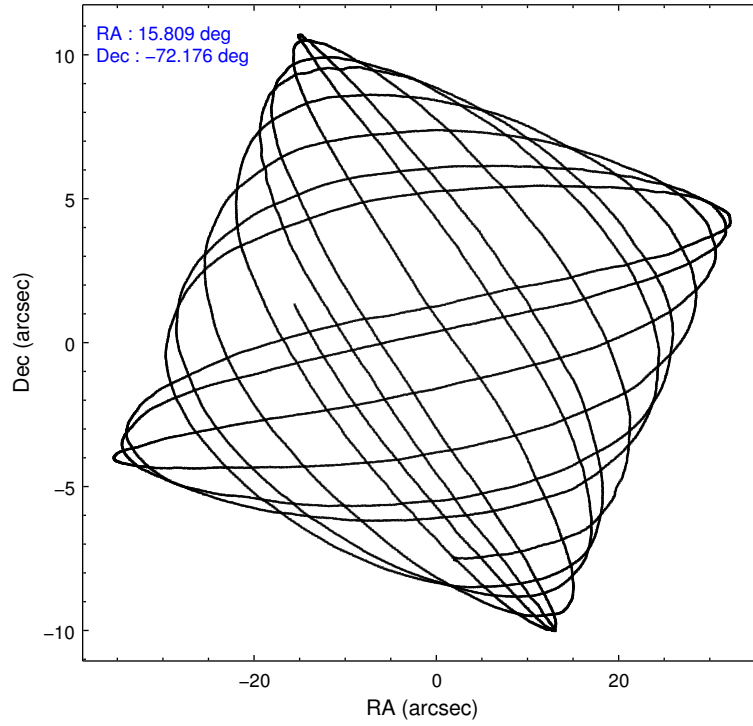
2.1.4 Events

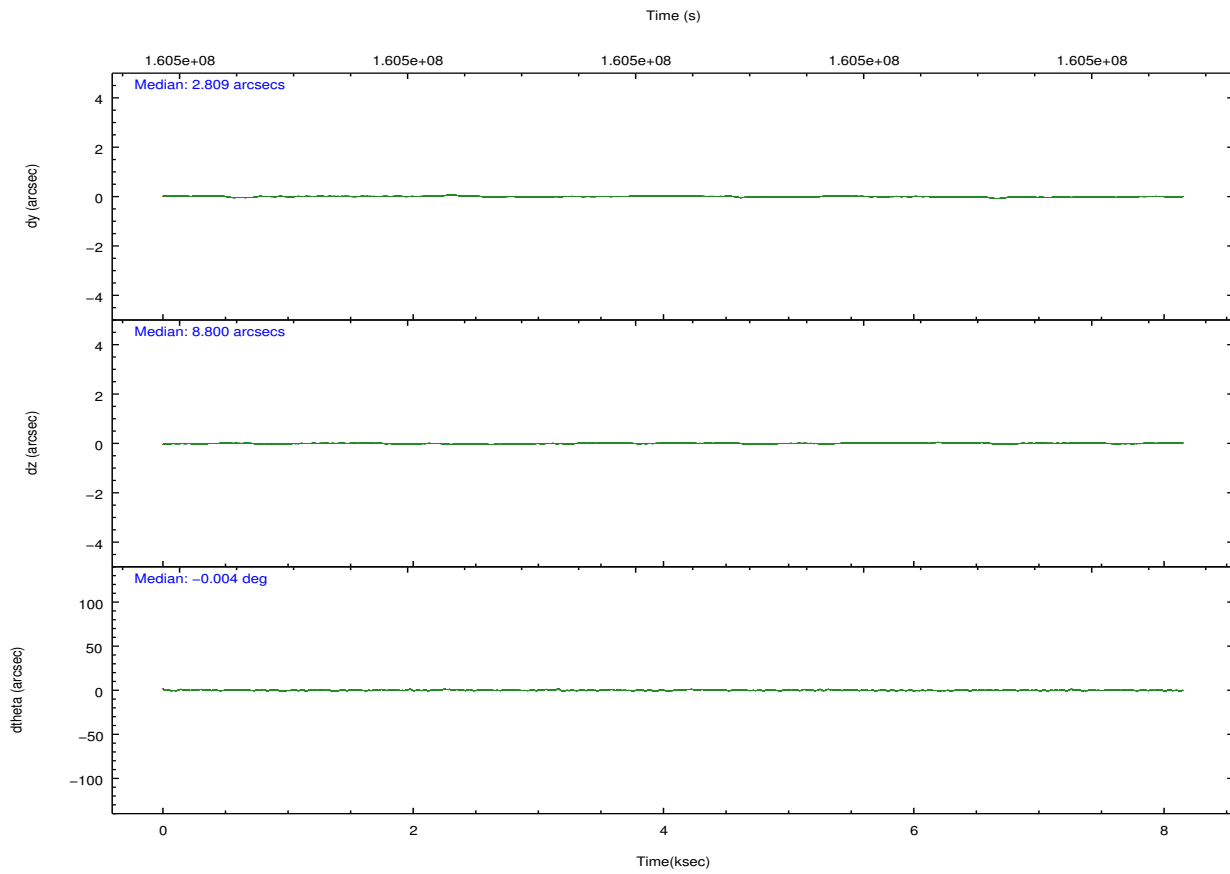
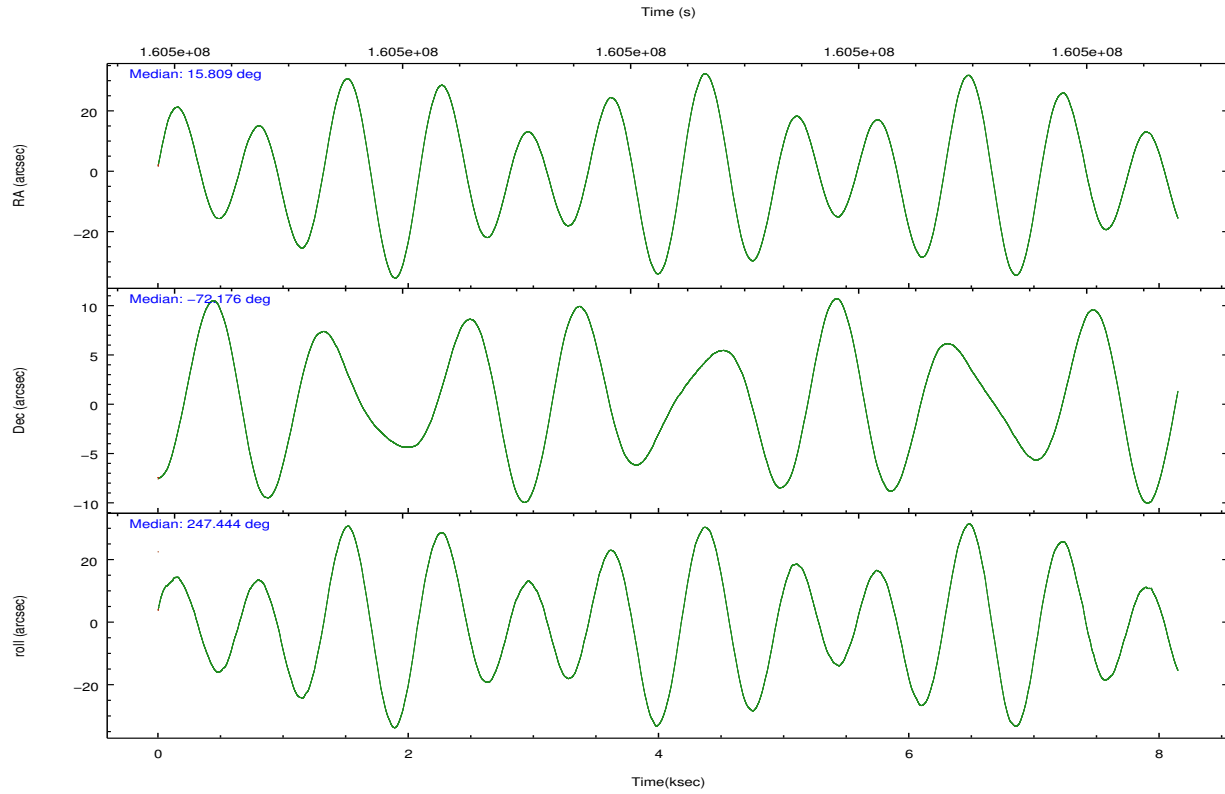
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	42634	39195	47542	39846	36945	76622	grade 0 events	2000	1692	3711	1706	2228	26008
rejected events	38199	35301	22095	35592	18069	40797		4%	4%	7%	4%	6%	33%
rejected %	89%	90%	46%	89%	48%	53%	grade 1 events	20	21	132	16	41	218
								0%	0%	0%	0%	0%	0%
							grade 2 events	896	735	7049	866	4104	3996
								2%	1%	14%	2%	11%	5%
							grade 3 events	462	426	1221	447	1843	1541
								1%	1%	2%	1%	4%	2%
							grade 4 events	402	413	1153	444	1879	1390
								0%	1%	2%	1%	5%	1%
							grade 5 events	1049	1317	3929	1233	3987	1913
								2%	3%	8%	3%	10%	2%
							grade 6 events	675	632	12325	792	8827	2899
								1%	1%	25%	1%	23%	3%
							grade 7 events	37130	33959	18022	34342	14036	38657
								87%	86%	37%	86%	37%	50%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	15.796431	15.80930295413215	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.148929	-72.17590448640171	Alternating exposures requested	N	N
[deg] Pointing Roll	247.280613	247.4494850423454	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	158976064.184000	158976064.184000			
[s] Window stop time (MET)	161654464.184000	161654464.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	160496433.184000	160496057.25655			
Observation start date	2003-02-01T14:19:29	2003-02-01T14:14:17			
[s] Observation end time (MET)	160504406.184000	160504540.66941			
Observation end date	2003-02-01T16:32:22	2003-02-01T16:35:40			
Read mode	TIMED	TIMED			

2.3 Aspect



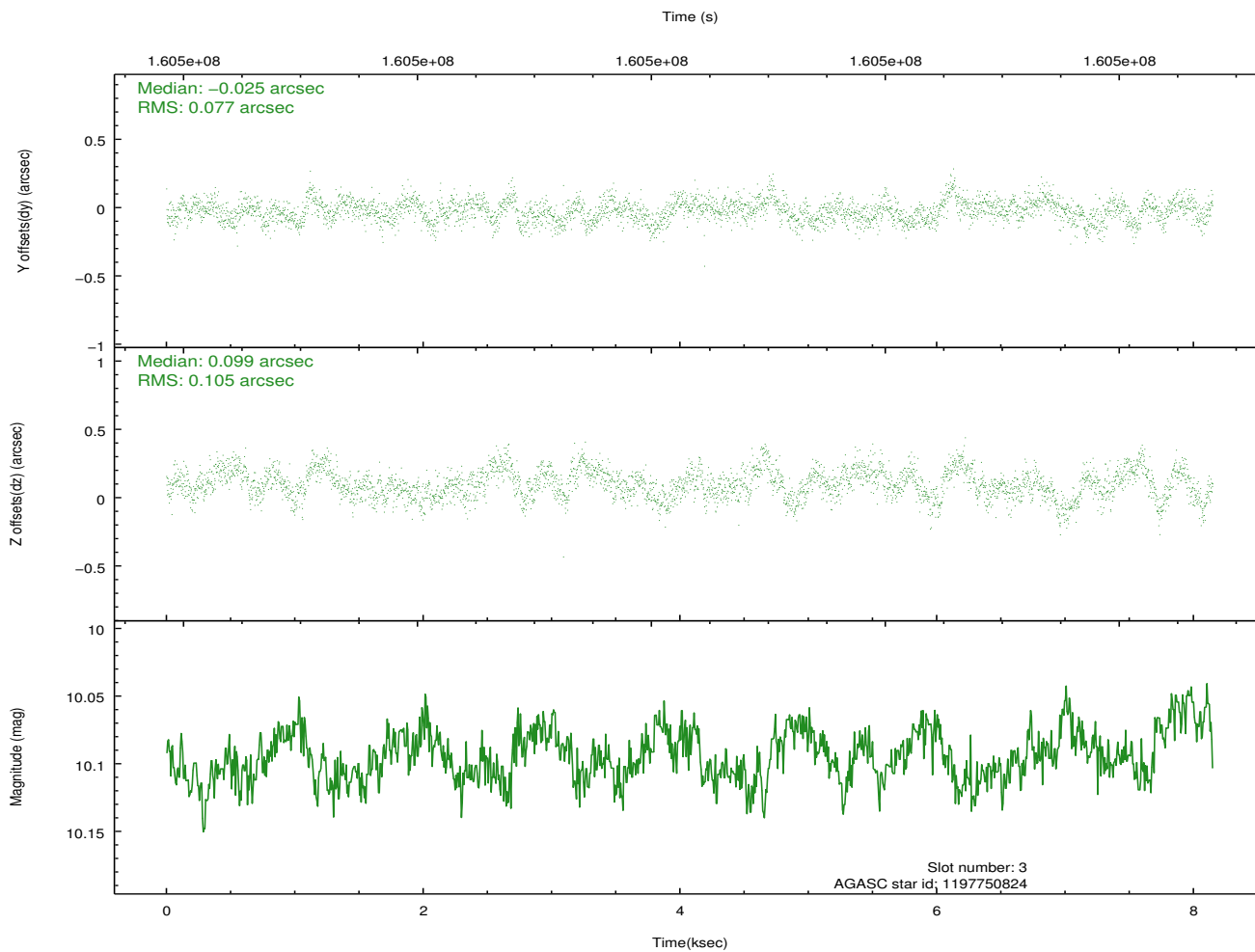
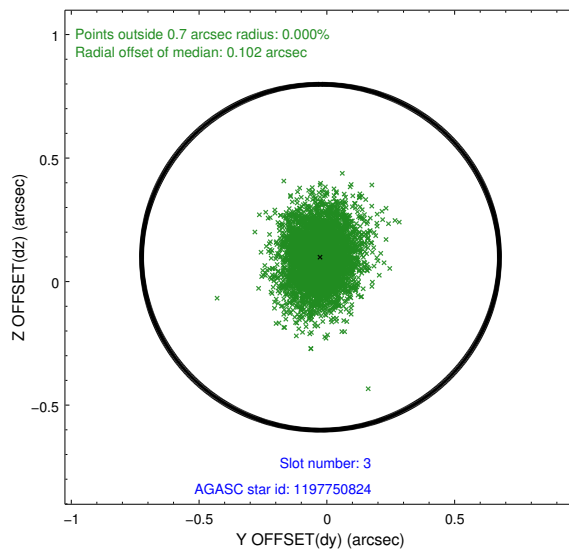
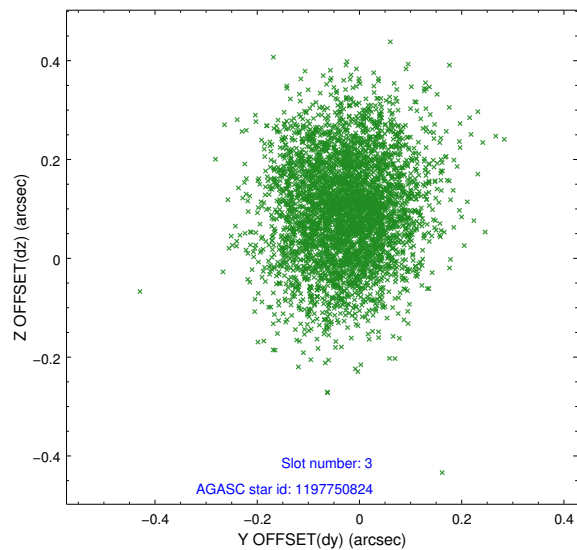


Slot Statistics

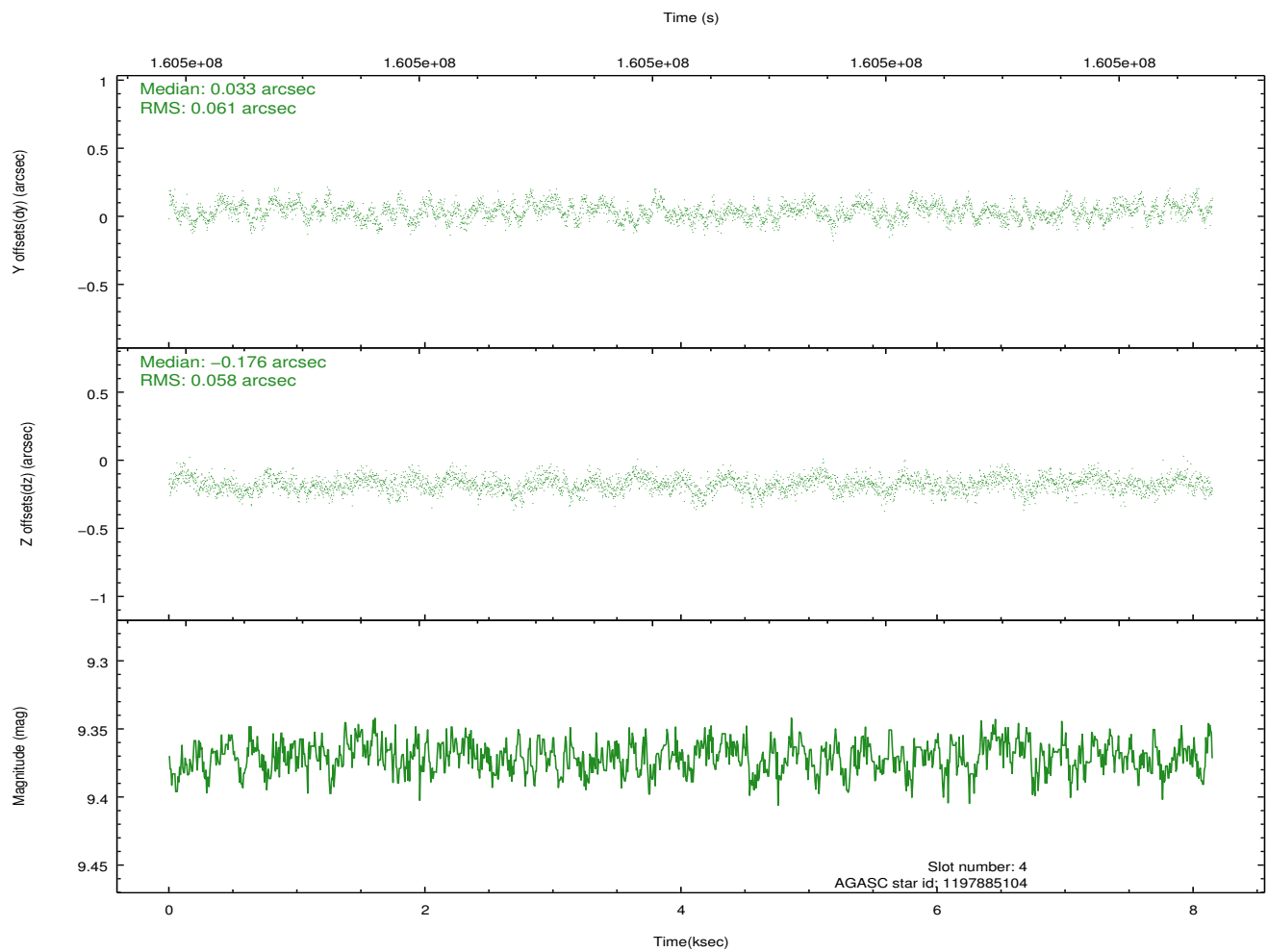
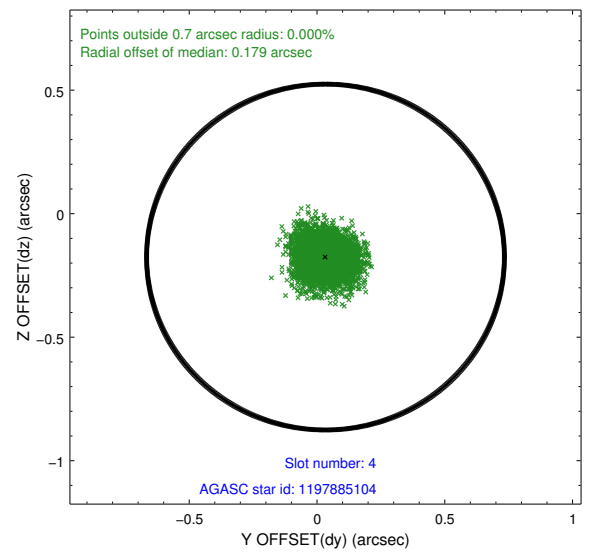
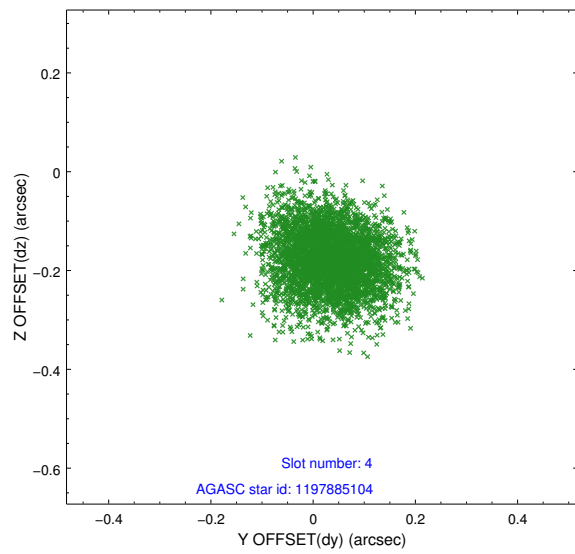
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1988	-0.022	-0.009	0.007	0.011	0.000000	0.000000	-755.46	-1729.97
1	FID	ACIS-S-4	7.20	1988	-0.005	0.013	0.006	0.010	0.000000	0.000000	2157.52	177.83
2	FID	ACIS-S-5	7.24	1988	-0.004	0.005	0.007	0.013	0.000000	0.000000	-1807.40	172.27
3	GUIDE	1197750824	10.10	3972	-0.025	0.099	0.138	0.226	14.791487	-71.393477	-2053.68	-2111.52
4	GUIDE	1197885104	9.37	3972	0.033	-0.176	0.090	0.146	17.845067	-72.189368	-701.76	2150.70
5	GUIDE	1197750936	7.56	3976	0.012	-0.050	0.069	0.105	15.387940	-71.549550	-1808.96	-1261.65
6	GUIDE	1198189696	7.36	3976	-0.127	-0.098	0.052	0.084	15.223750	-72.697522	2060.74	198.21
7	GUIDE	1198282744	9.00	3974	0.107	0.225	0.080	0.123	17.028326	-73.013356	2383.00	2402.79

2.4 Star Slots

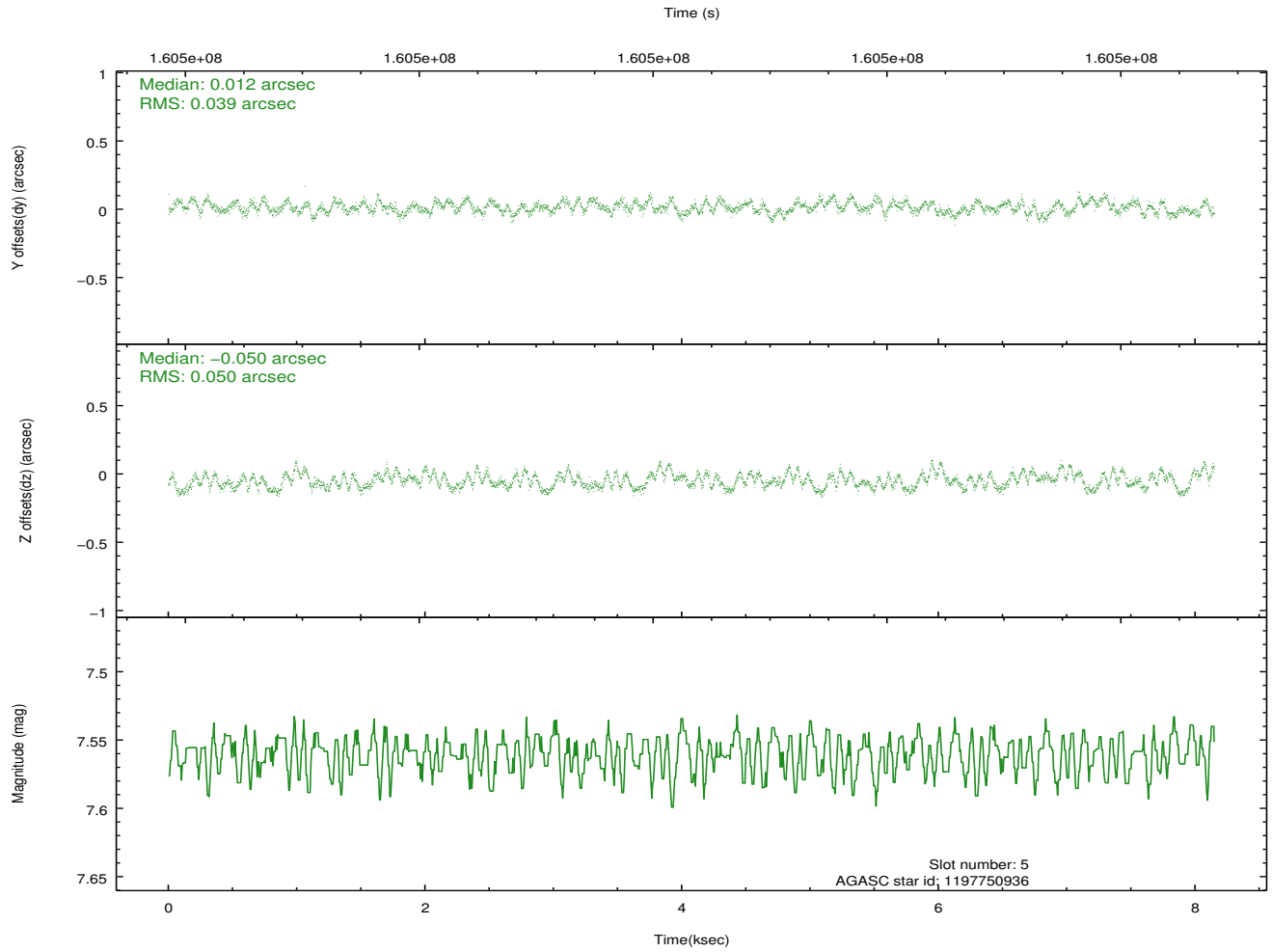
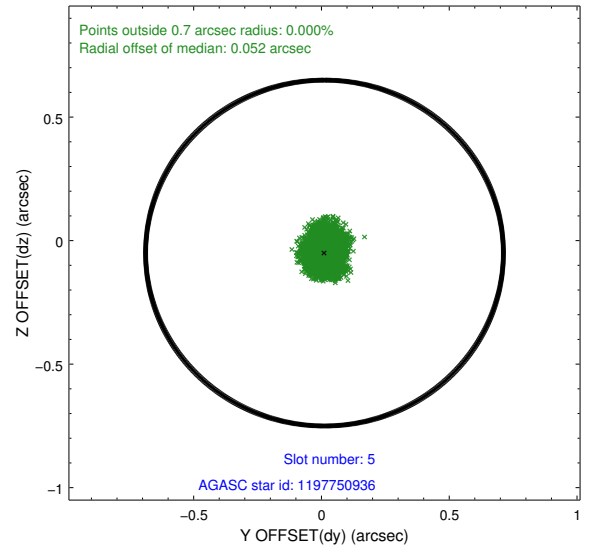
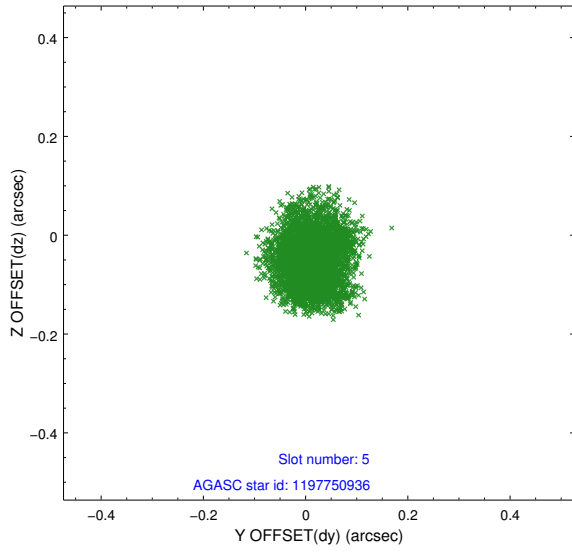
2.4.1 Slot 3



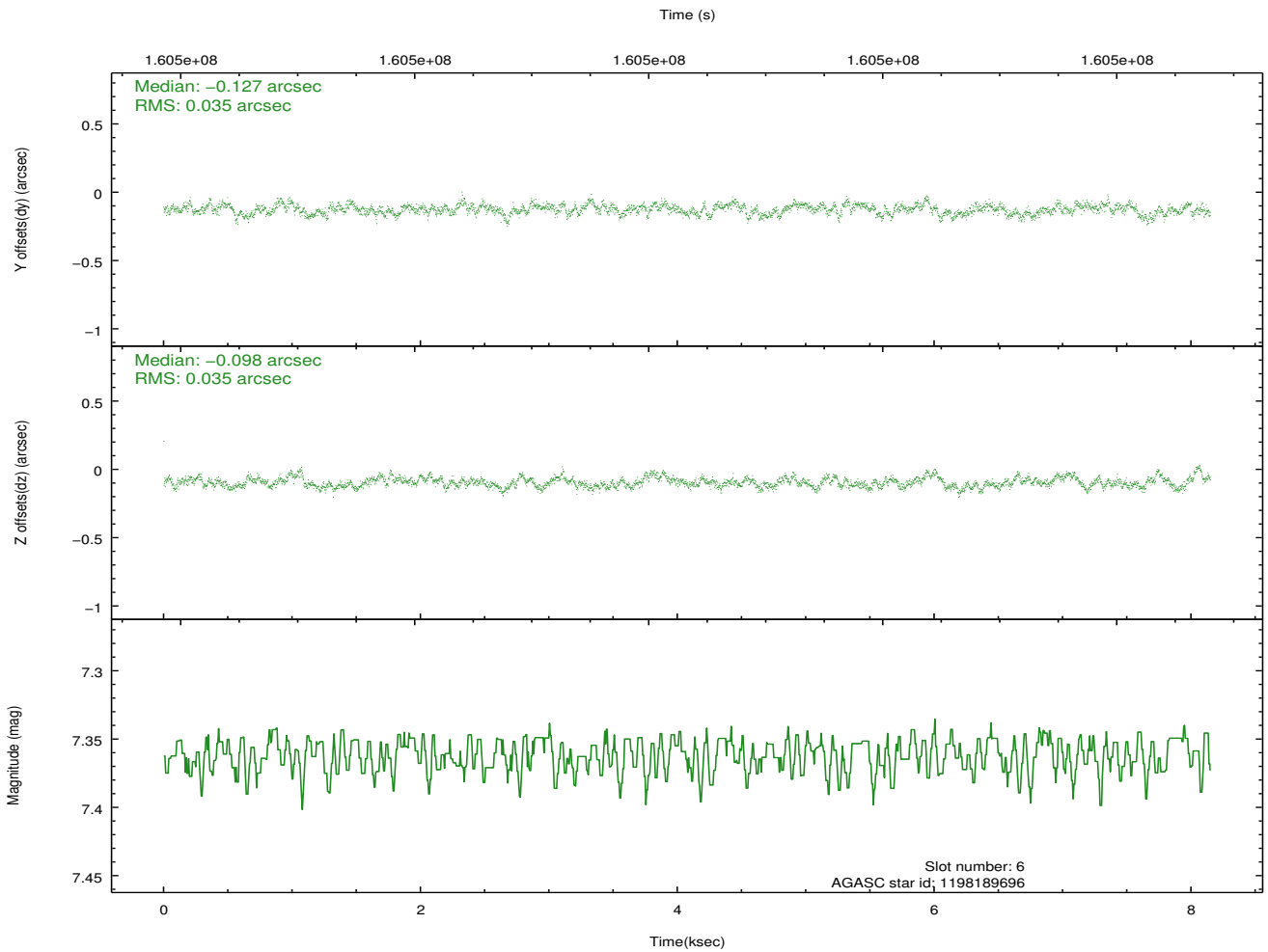
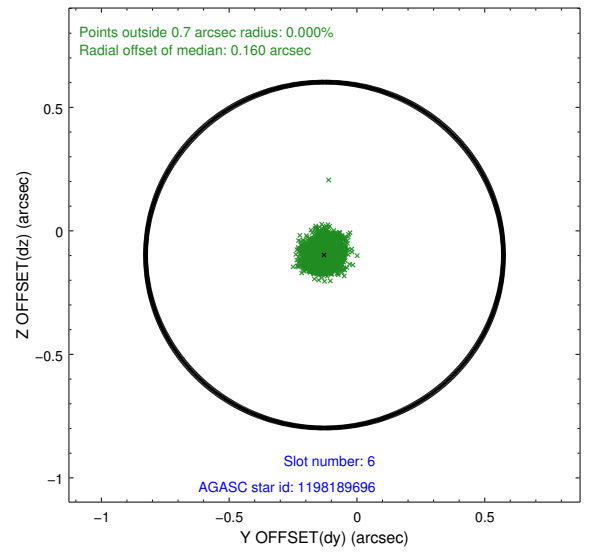
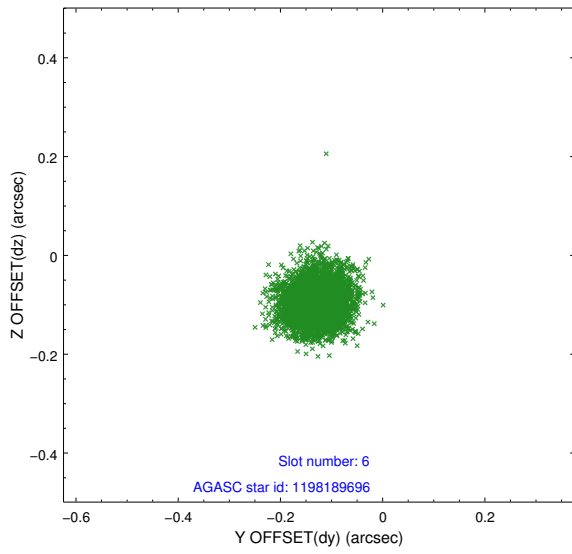
2.4.2 Slot 4



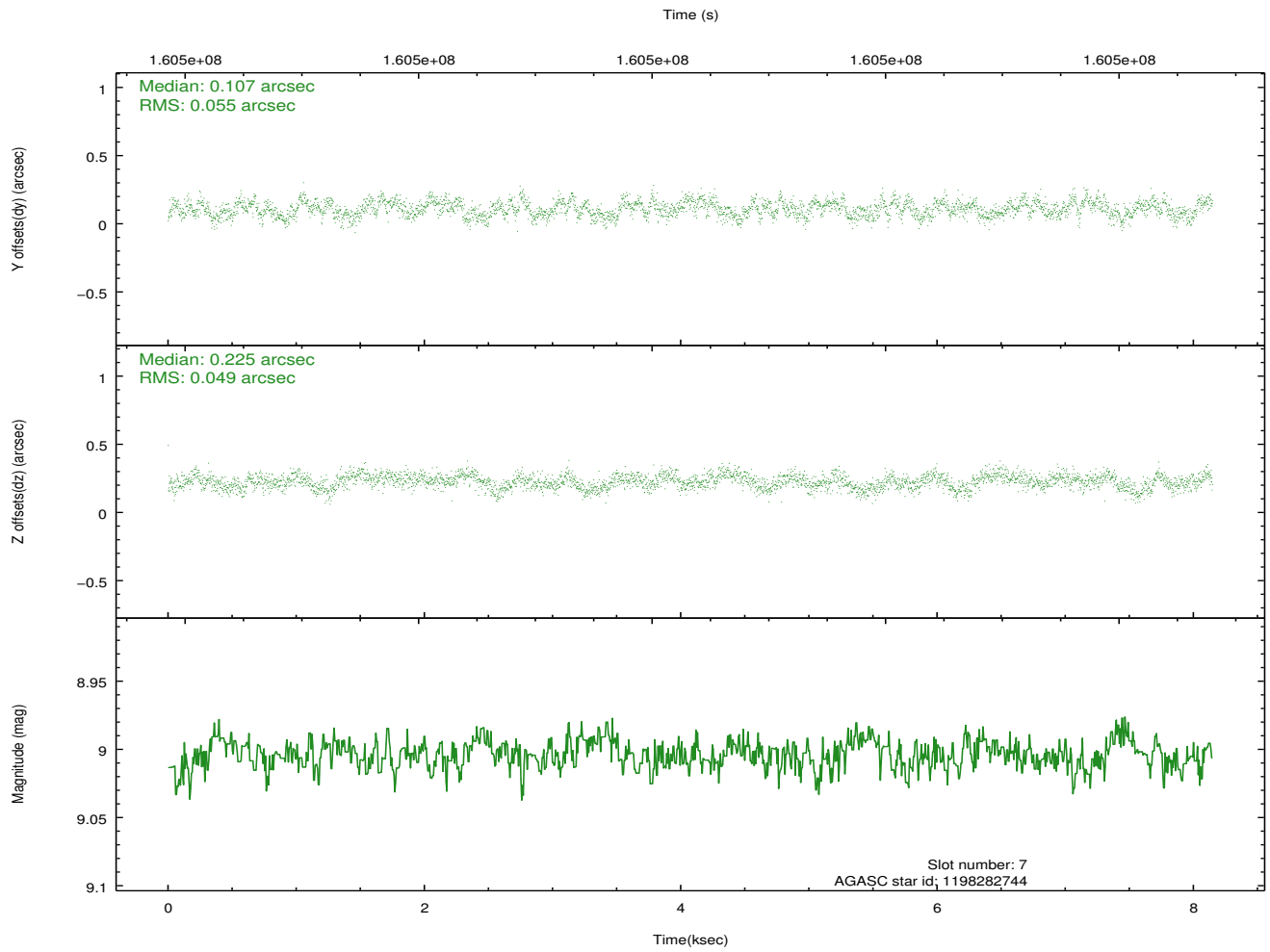
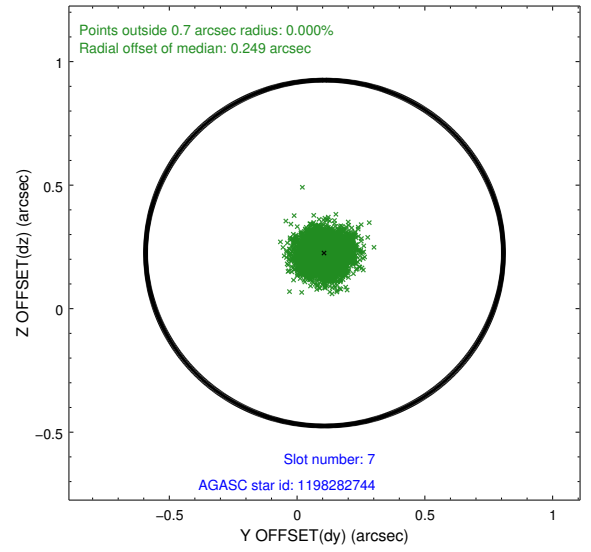
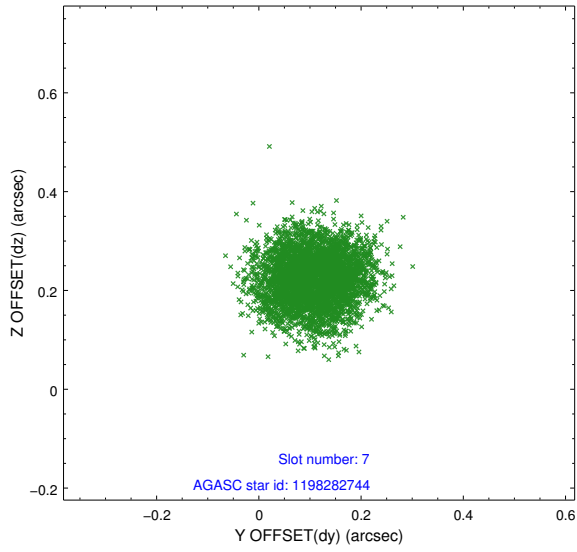
2.4.3 Slot 5



2.4.4 Slot 6

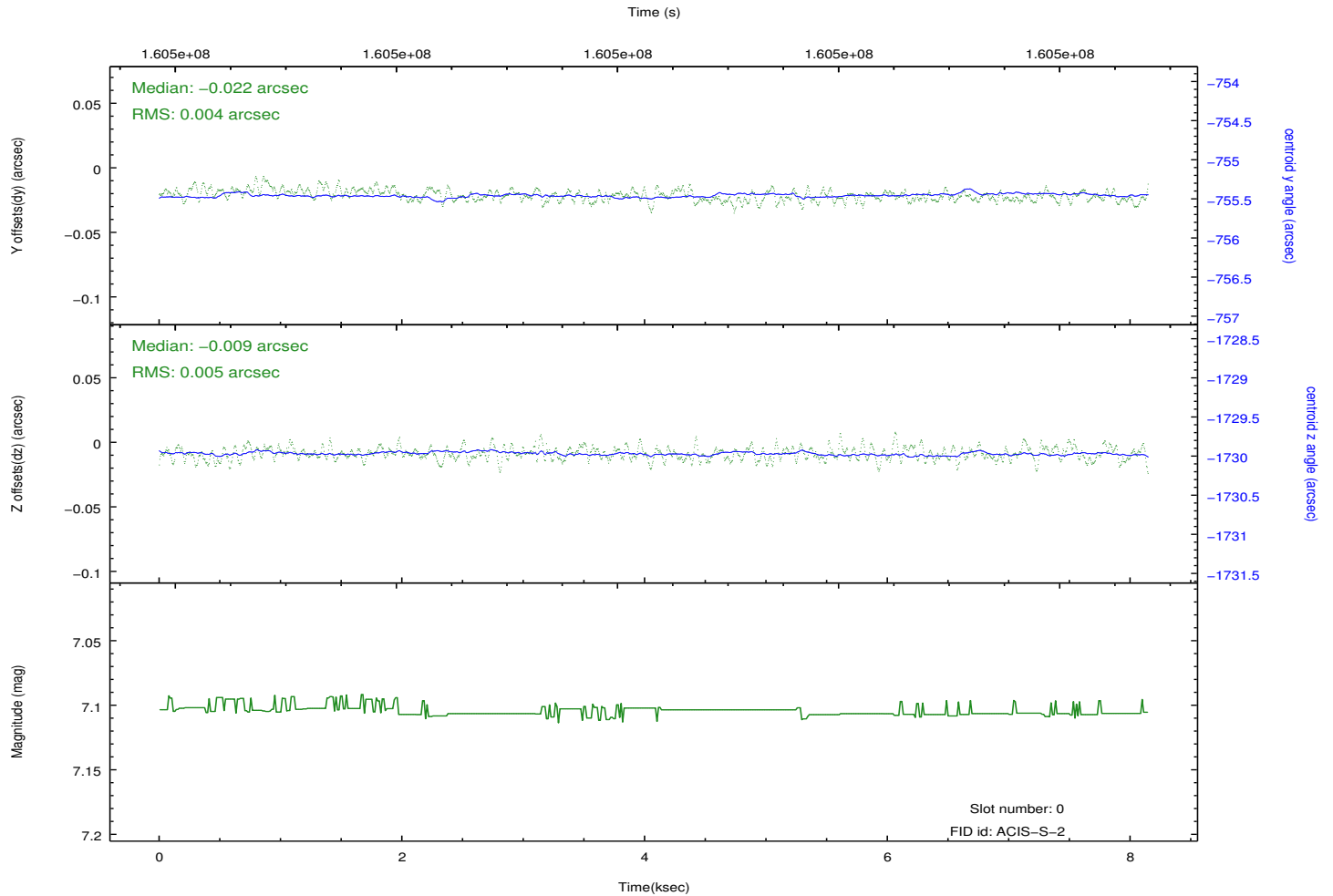
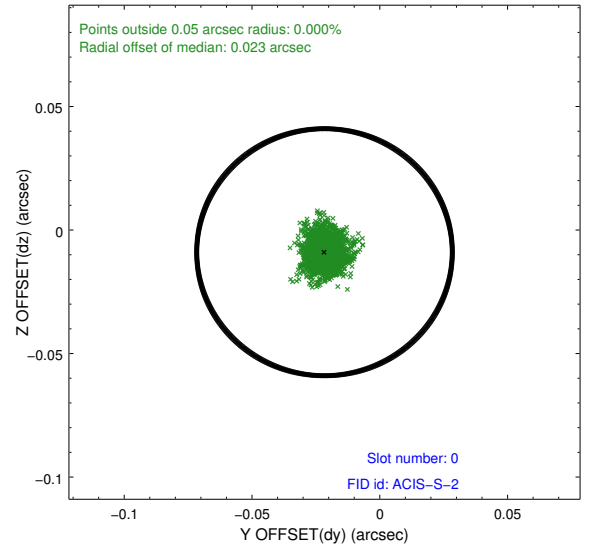
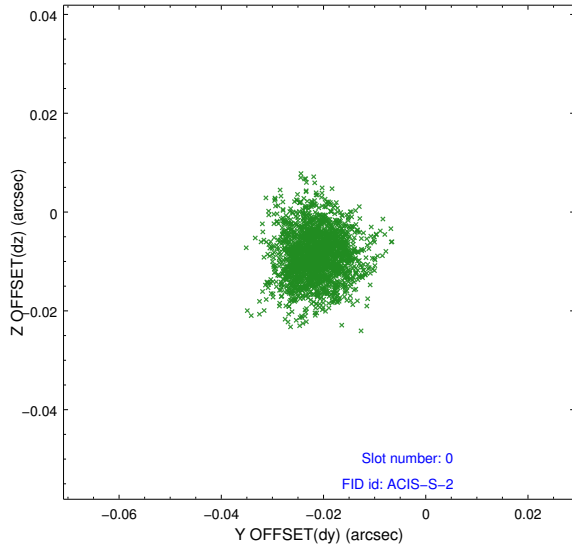


2.4.5 Slot 7

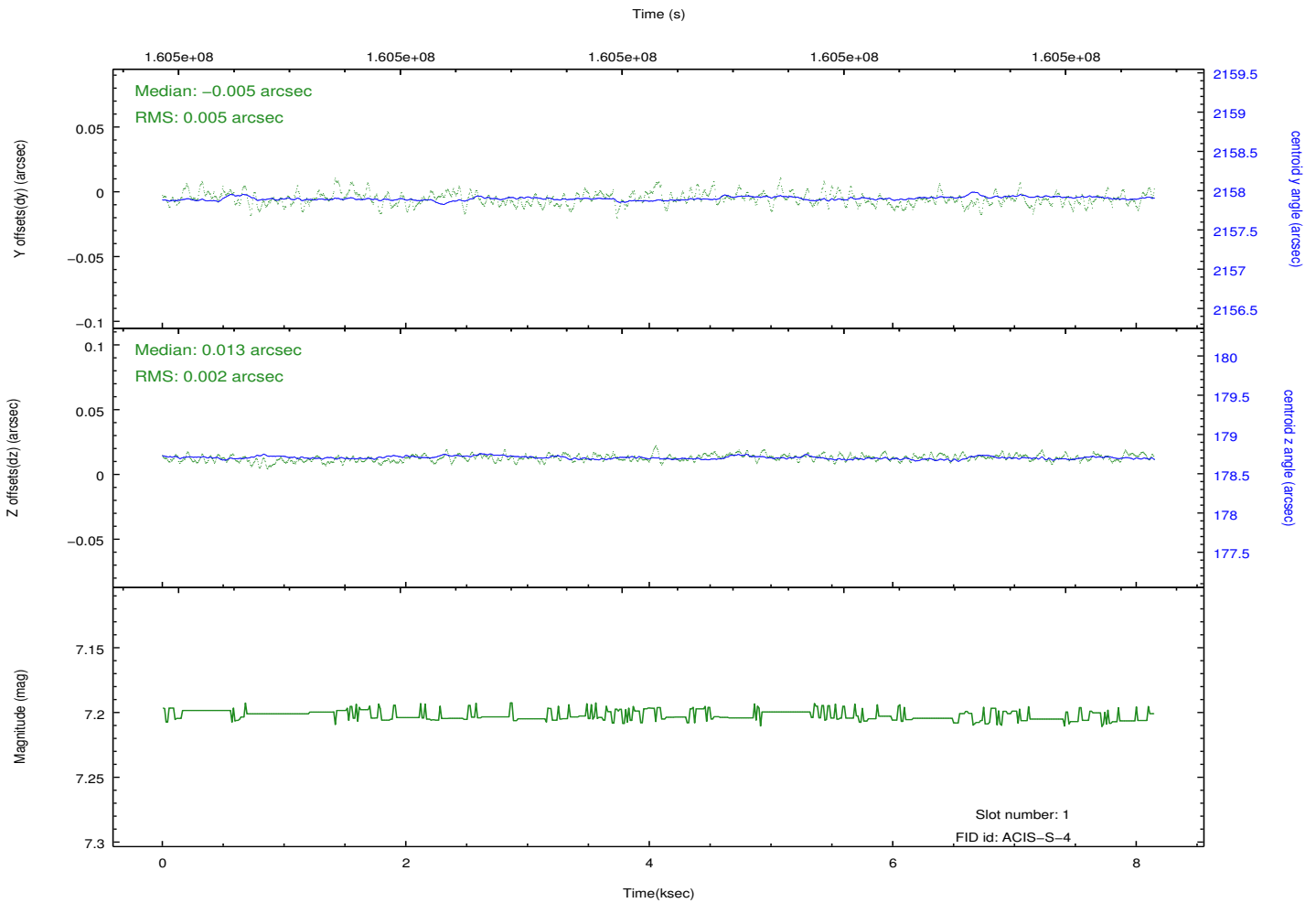
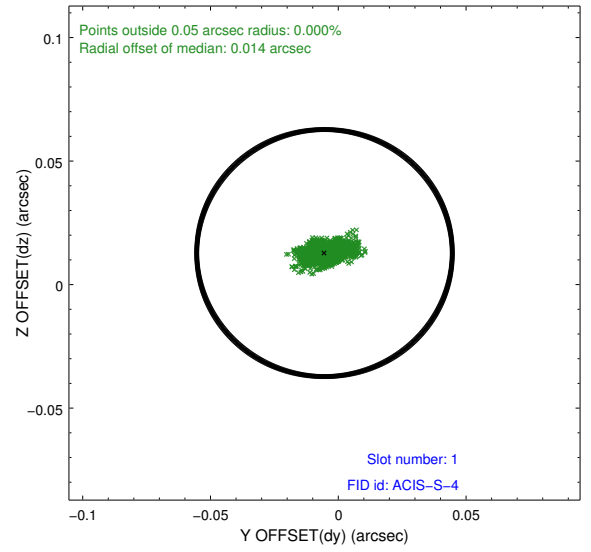
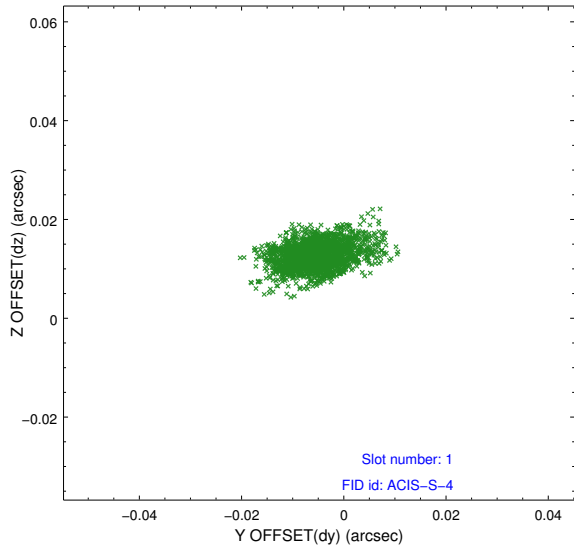


2.5 FID Slots

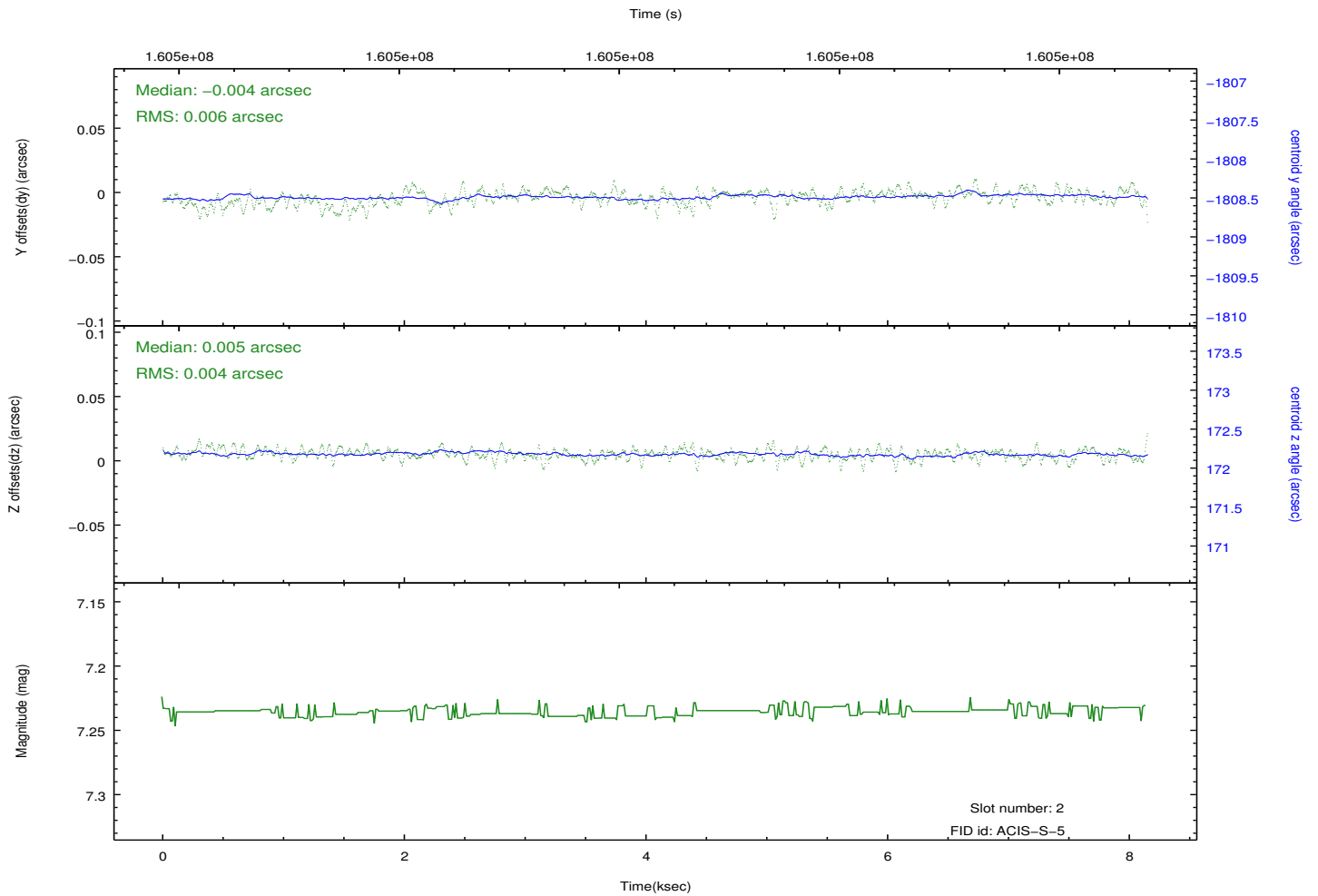
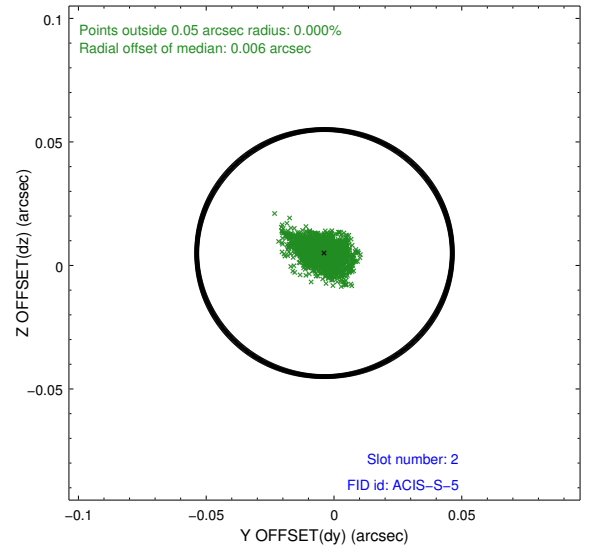
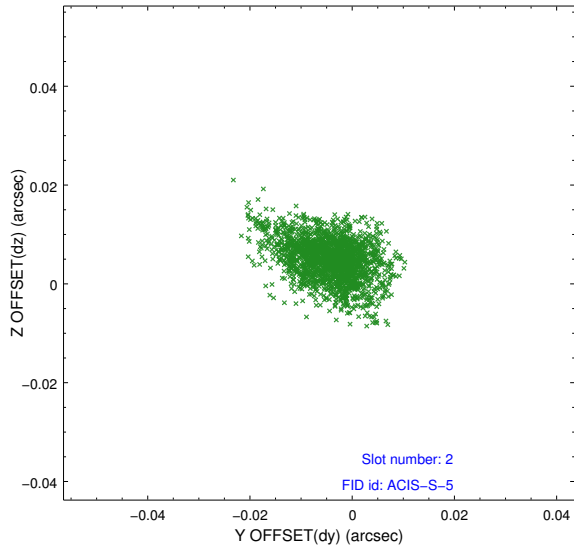
2.5.1 Slot 0



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)	2012.11.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.731

A.2 Comments

Window constraint satisfied.