

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7858 - L2 Version 2
Chandra X-Ray Center

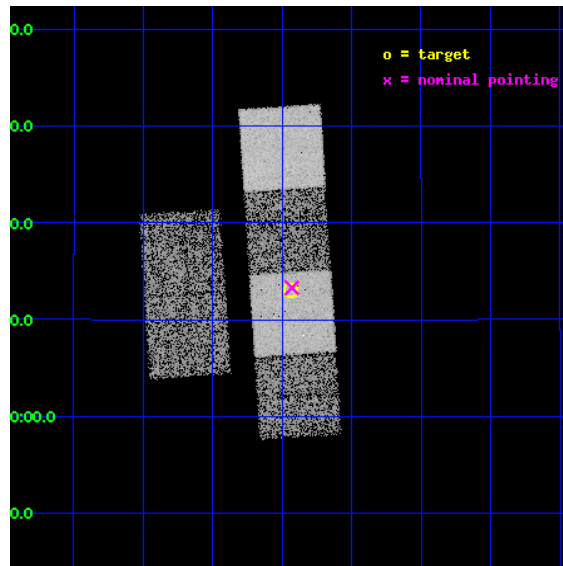
L2 Processing Date : May 9 2012

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1 Front

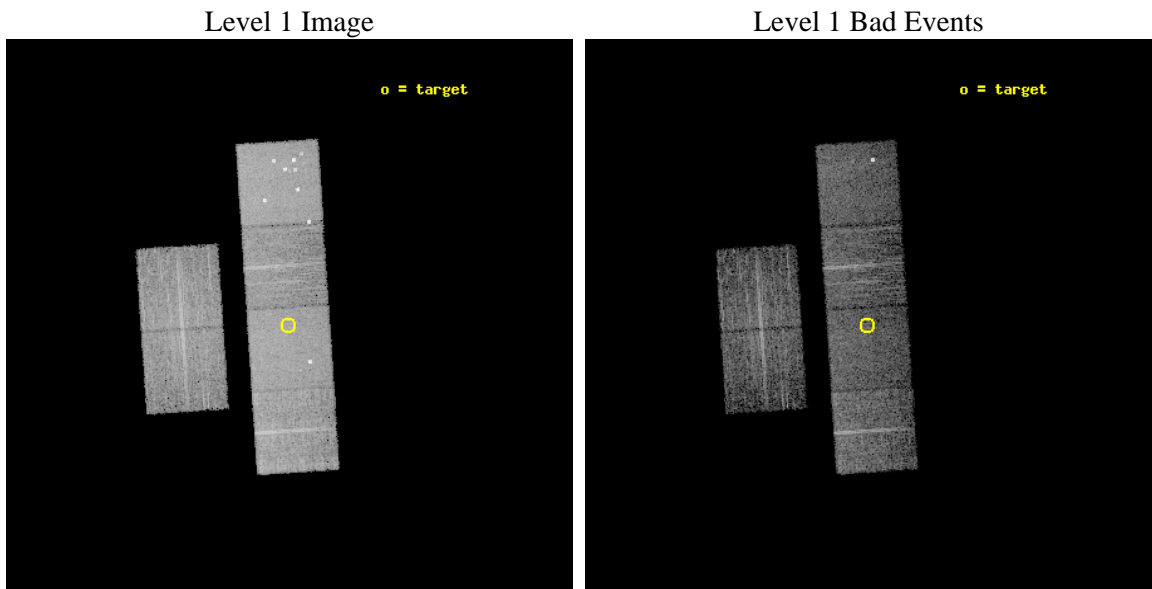
seq_num	701522	Sequence number
obs_id	7858	Observation id
title	Demographics of black holes in the local Universe.	Proposal title
observer	Prof. Smita Mathur	Principal investigator
object	NGC 4571	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	189.235	Observer's specified target RA [deg]
dec_targ	14.217361	Observer's specified target Dec [deg]
ra_nom	189.23254728999	Nominal RA [deg]
dec_nom	14.221584644029	Nominal Dec [deg]
roll_nom	86.213417837079	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4760.1538568735	Sum of GTIs [s]
livetime	4699.8779225172	Livetime [s]
ontime2	4760.1948968768	Sum of GTIs [s]
ontime3	4760.0307368636	Sum of GTIs [s]
ontime5	4760.1128168702	Sum of GTIs [s]
ontime6	4760.0717768669	Sum of GTIs [s]
ontime7	4760.1538568735	Sum of GTIs [s]
ontime8	4753.5076363087	Sum of GTIs [s]
l2events	74152	Number of level 2 events



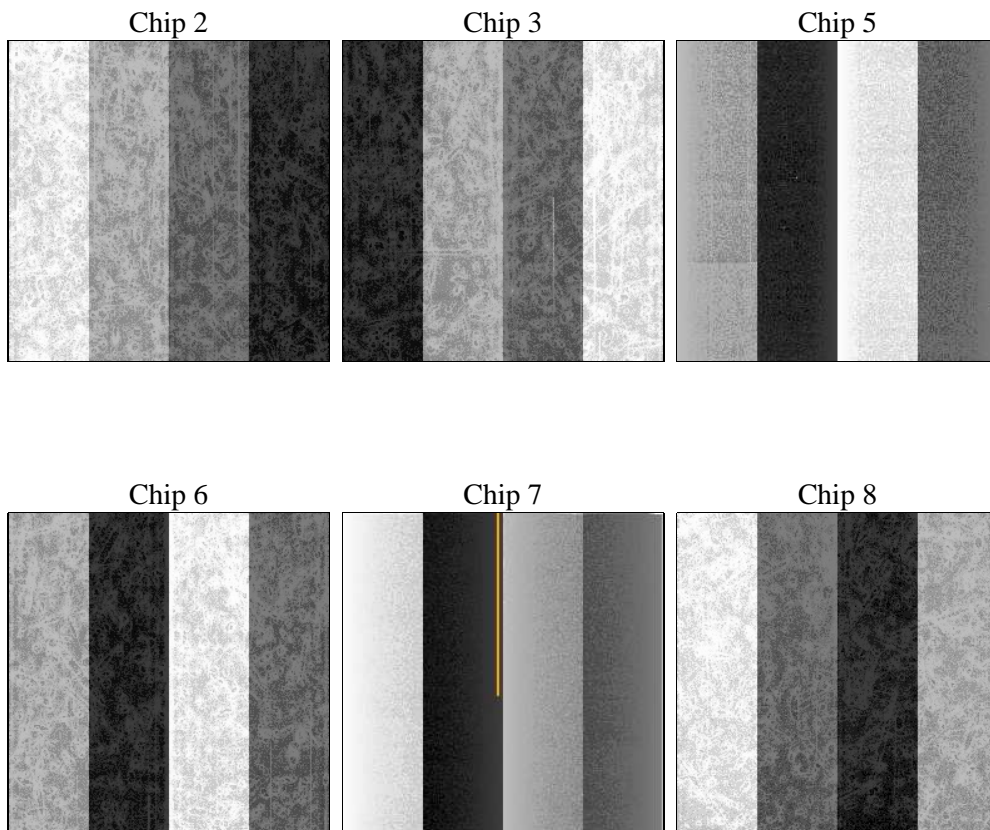
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4760.1538568735	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	4760.1948968768	Sum of GTIs [s]
date	2012-05-09T18:37:56	Date and time of file creation	ontime3	4760.0307368636	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4760.1128168702	Sum of GTIs [s]
			ontime6	4760.0717768669	Sum of GTIs [s]
			ontime7	4760.1538568735	Sum of GTIs [s]
			ontime8	4753.5076363087	Sum of GTIs [s]
			l1events	338140	Number of level 1 events

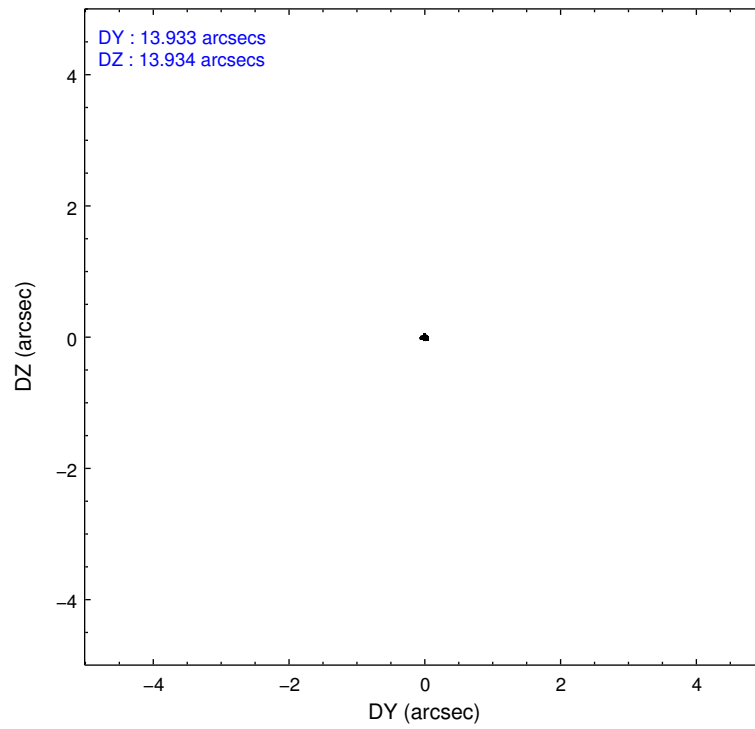
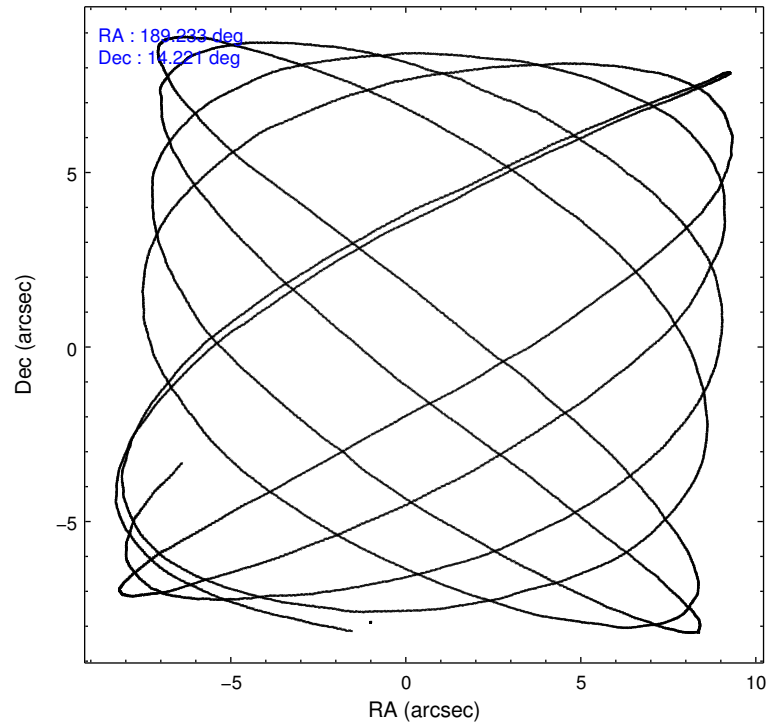
2.1.4 Events

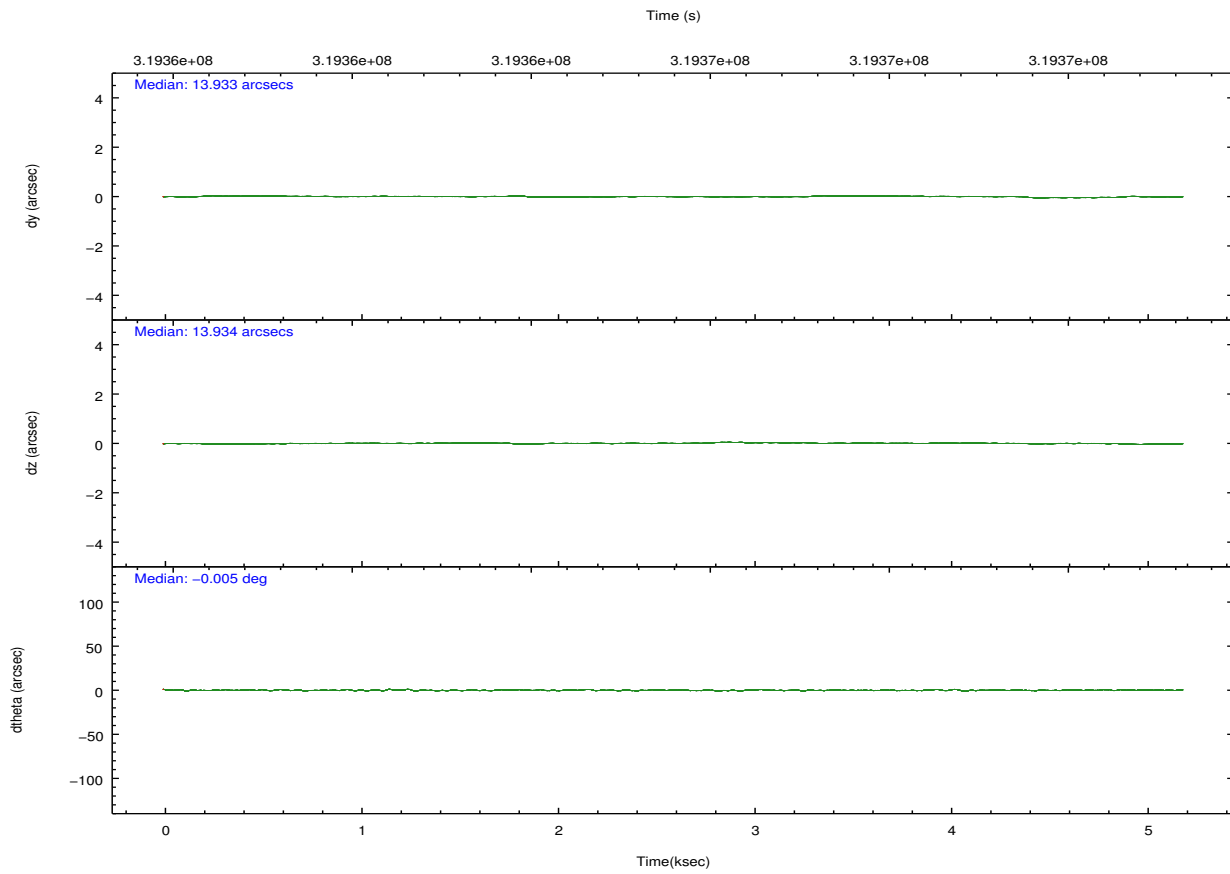
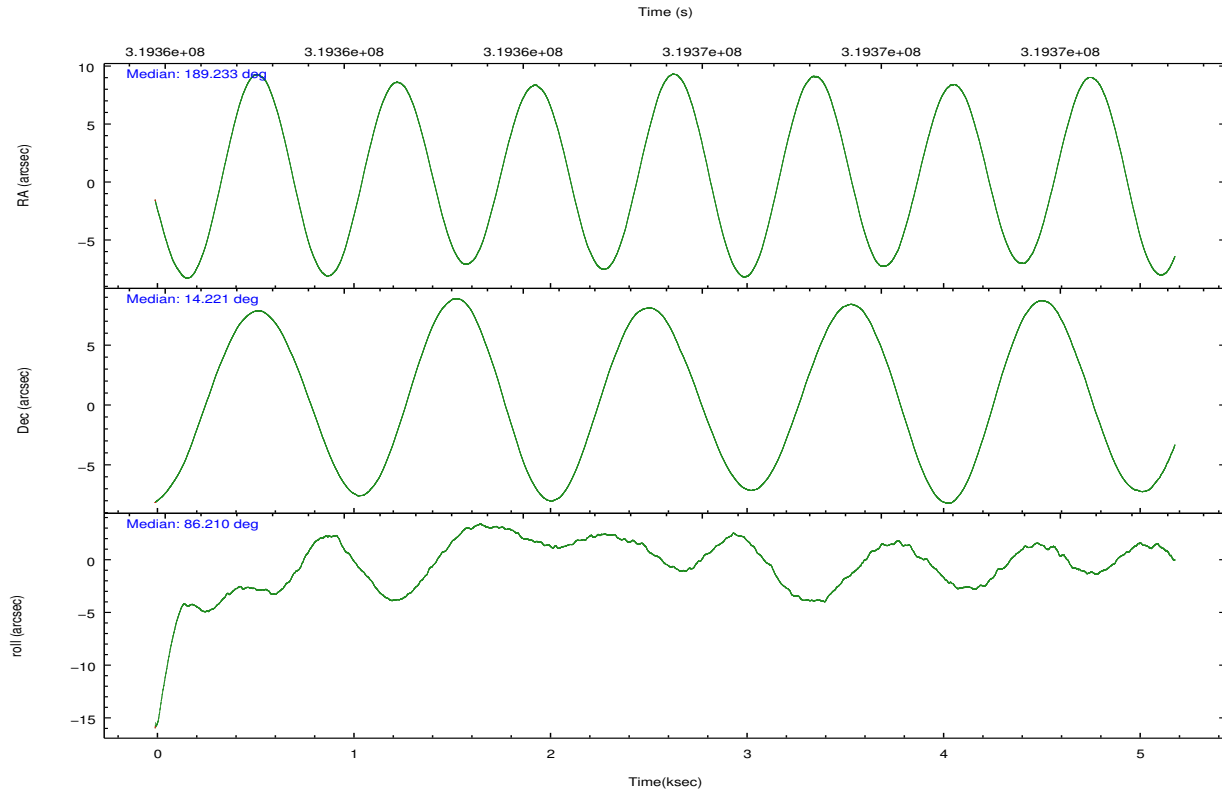
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	47052	42693	78275	45750	64274	60096	grade 0 events	2219	2362	7207	2084	3698	4008
rejected events	41798	37347	39737	40411	36719	47509		4%	5%	9%	4%	5%	6%
rejected %	88%	87%	50%	88%	57%	79%	grade 1 events	22	27	95	16	58	49
								0%	0%	0%	0%	0%	0%
							grade 2 events	1134	1062	10691	1208	5388	2915
								2%	2%	13%	2%	8%	4%
							grade 3 events	474	488	1081	498	2201	1218
								1%	1%	1%	1%	3%	2%
							grade 4 events	540	489	1017	474	2186	1116
								1%	1%	1%	1%	3%	1%
							grade 5 events	1719	2024	4575	2045	5508	2722
								3%	4%	5%	4%	8%	4%
							grade 6 events	892	947	18563	1078	14102	3336
								1%	2%	23%	2%	21%	5%
							grade 7 events	40052	35294	35046	38347	31133	44732
								85%	82%	44%	83%	48%	74%

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	189.245463	189.2325472899877	Subarray requested	NONE	NONE
[deg] Pointing Dec	14.197283	14.22158464402881	Alternating exposures requested	N	N
[deg] Pointing Roll	86.053611	86.21341783707868	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	319363378.184000	319362929.07608			
Observation start date	2008-02-14T08:01:53	2008-02-14T07:55:29			
[s] Observation end time (MET)	319368378.184000	319369315.85139			
Observation end date	2008-02-14T09:25:13	2008-02-14T09:41:55			
Read mode	TIMED	TIMED			

2.3 Aspect



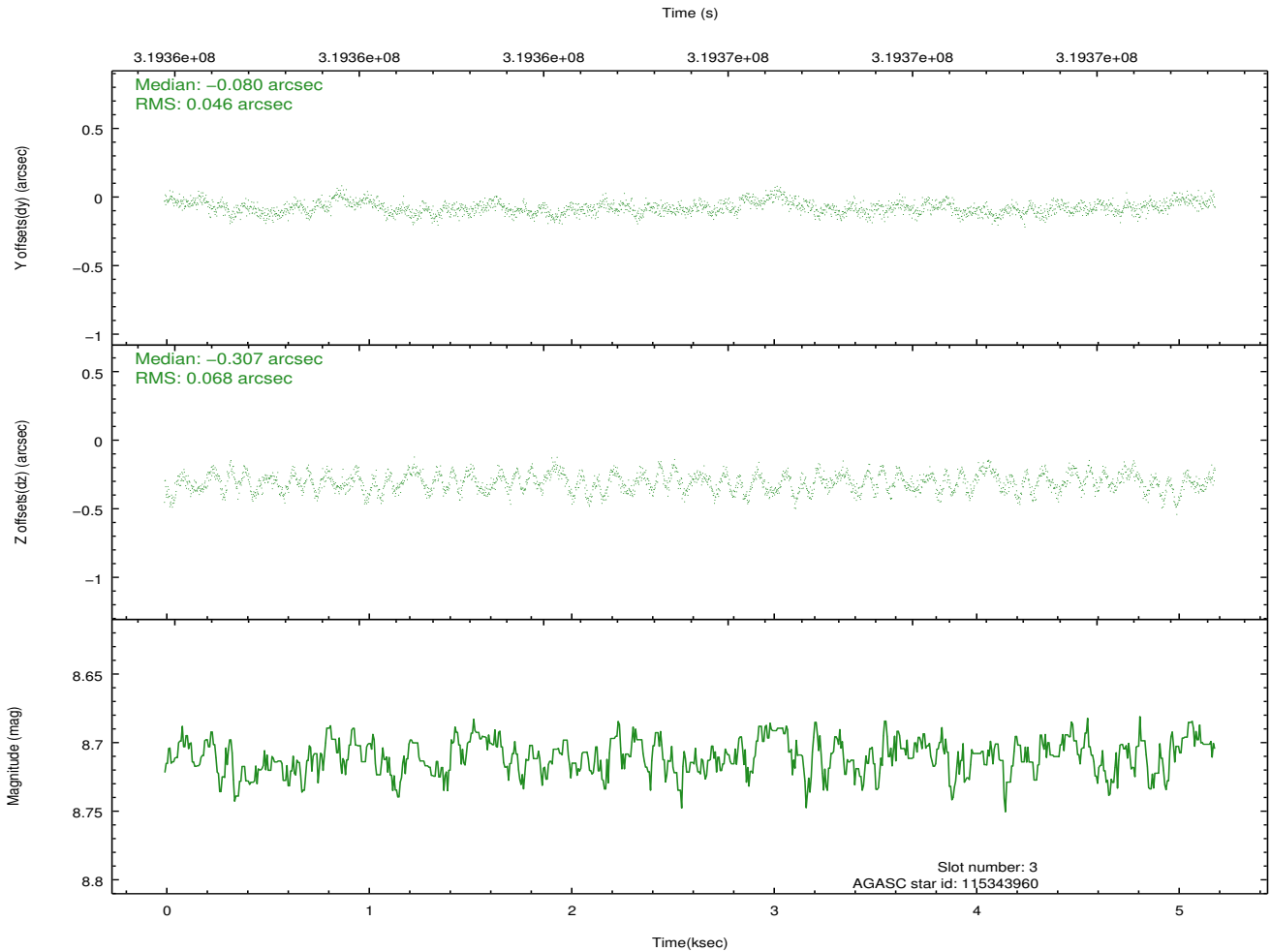
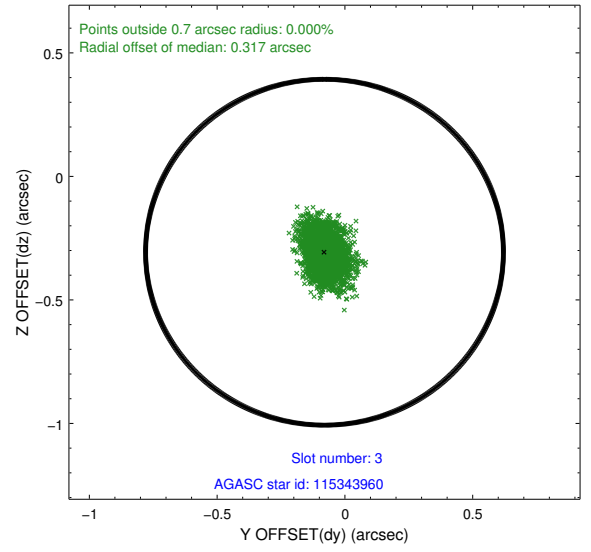
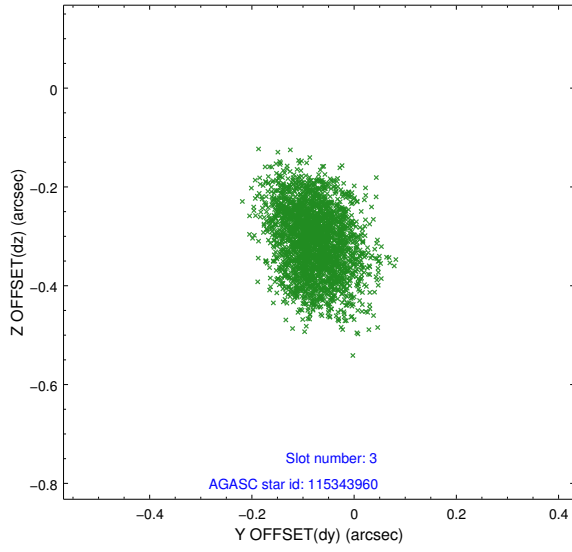


Slot Statistics

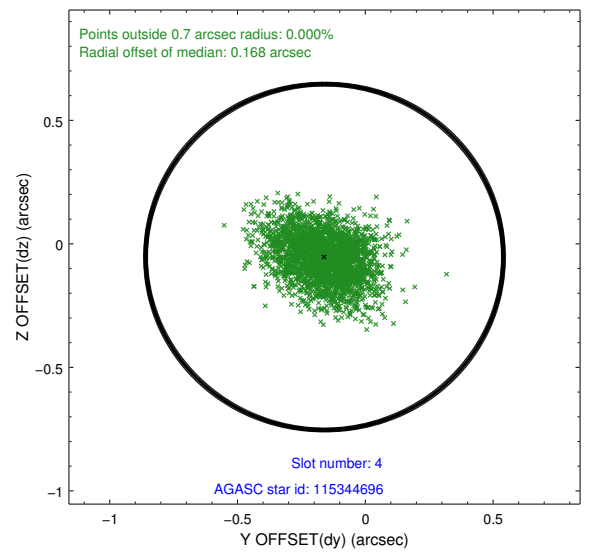
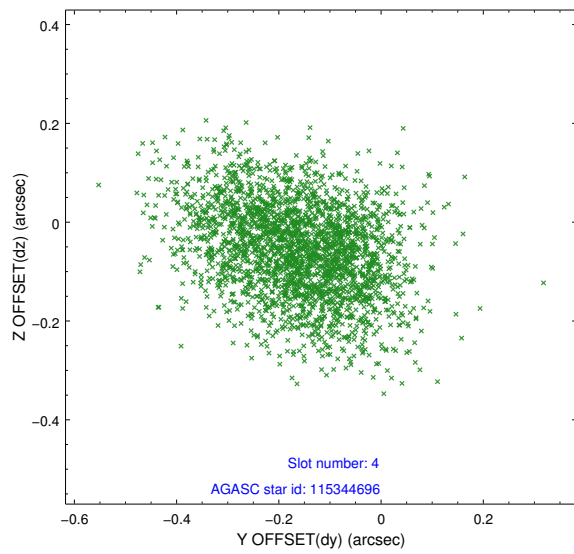
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	1266	0.054	-0.017	0.007	0.011	0.000000	0.000000	929.21	-1730.88
1	FID	ACIS-S-4	7.19	1266	0.138	-0.010	0.006	0.010	0.000000	0.000000	2147.35	172.07
2	FID	ACIS-S-5	7.23	1265	-0.219	0.039	0.006	0.010	0.000000	0.000000	-1818.44	167.05
3	GUIDE	115343960	8.71	2532	-0.080	-0.307	0.088	0.141	188.590007	14.643744	1449.87	2388.23
4	GUIDE	115344696	10.01	2524	-0.160	-0.053	0.155	0.253	188.739926	14.495064	950.69	1832.59
5	GUIDE	115480856	9.46	2531	0.146	0.130	0.133	0.211	189.753911	13.787708	-1345.67	-1874.28
6	GUIDE	115481312	9.28	2530	0.099	0.213	0.103	0.160	189.752983	13.866622	-1063.76	-1852.44
7	GUIDE	115482704	7.03	2531	-0.008	0.023	0.061	0.099	189.646201	13.805457	-1309.82	-1495.57

2.4 Star Slots

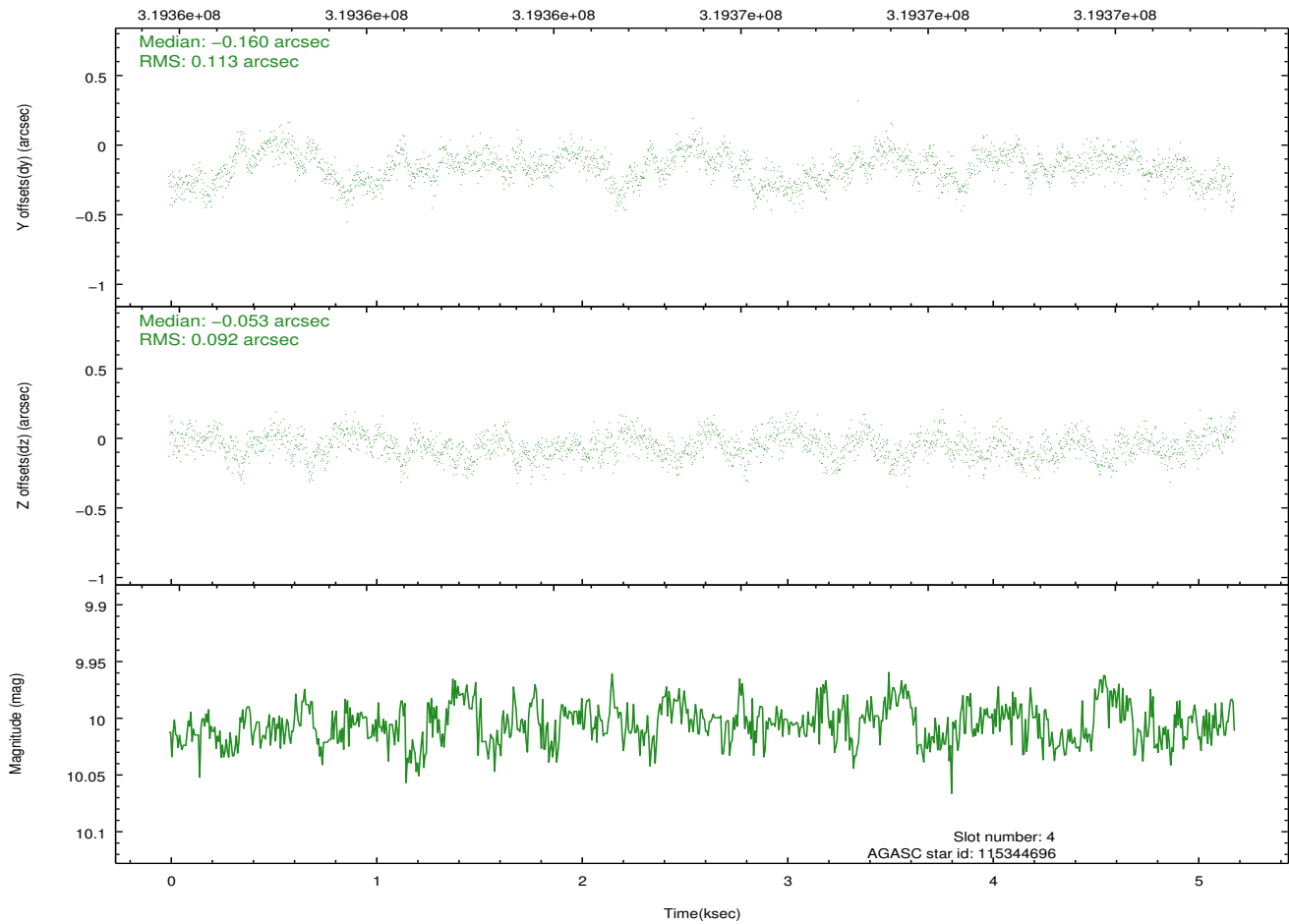
2.4.1 Slot 3



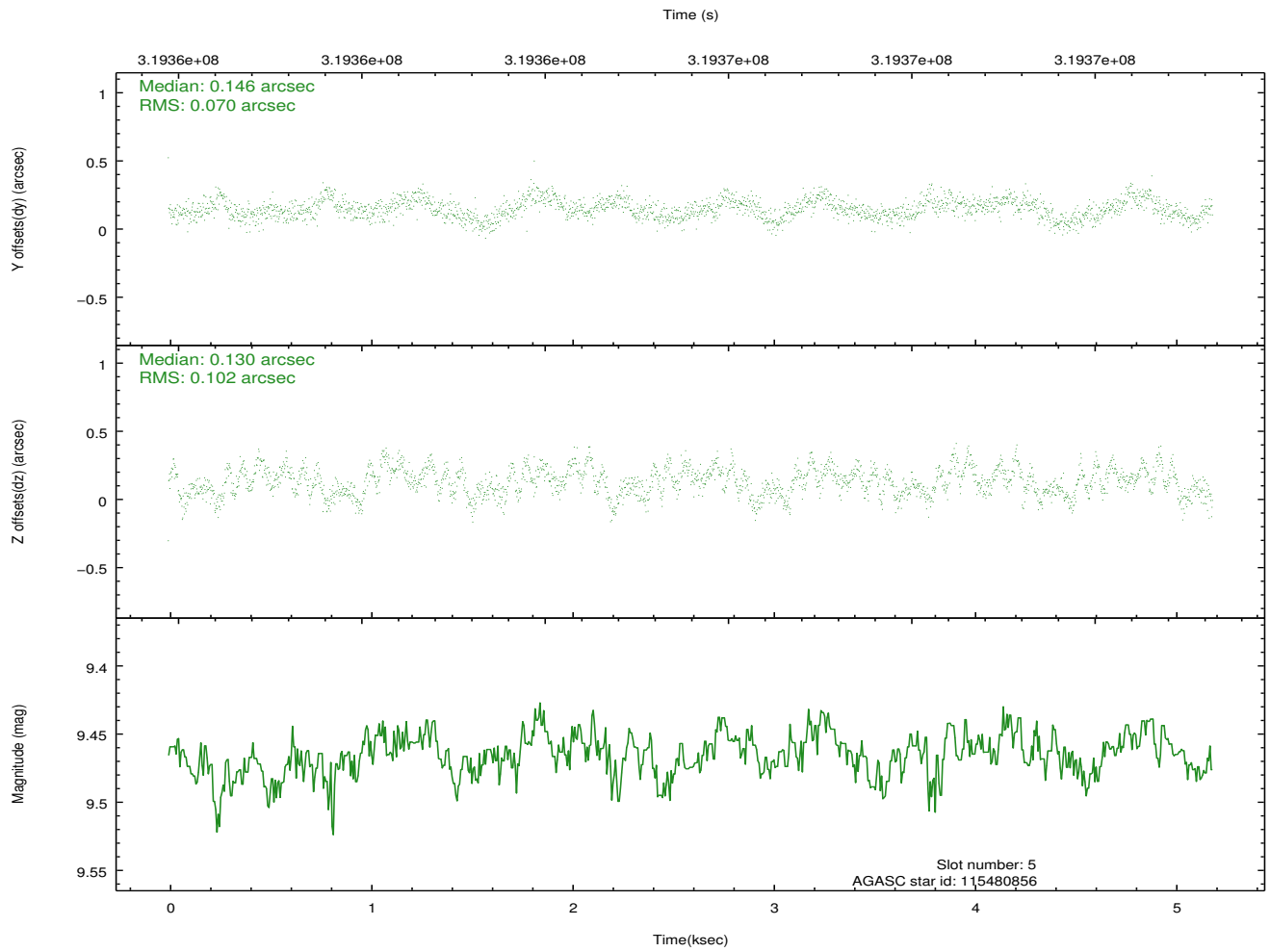
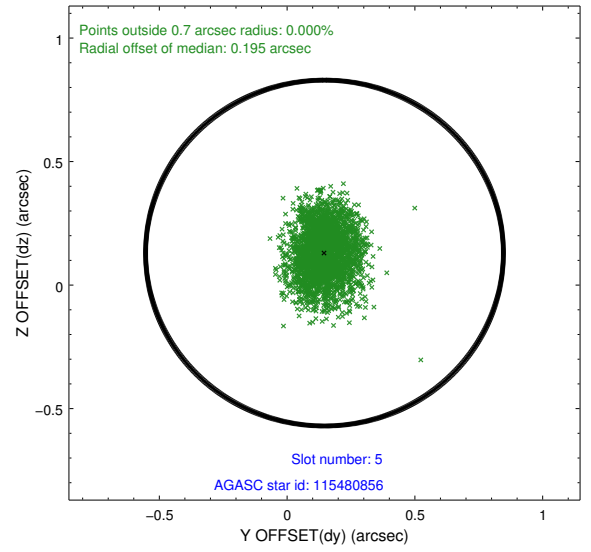
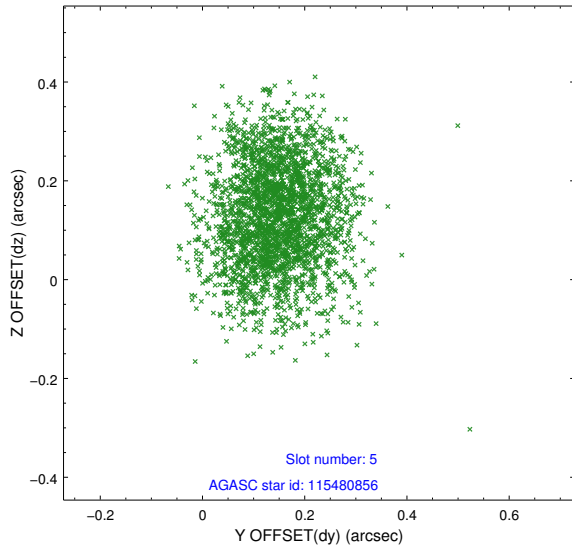
2.4.2 Slot 4



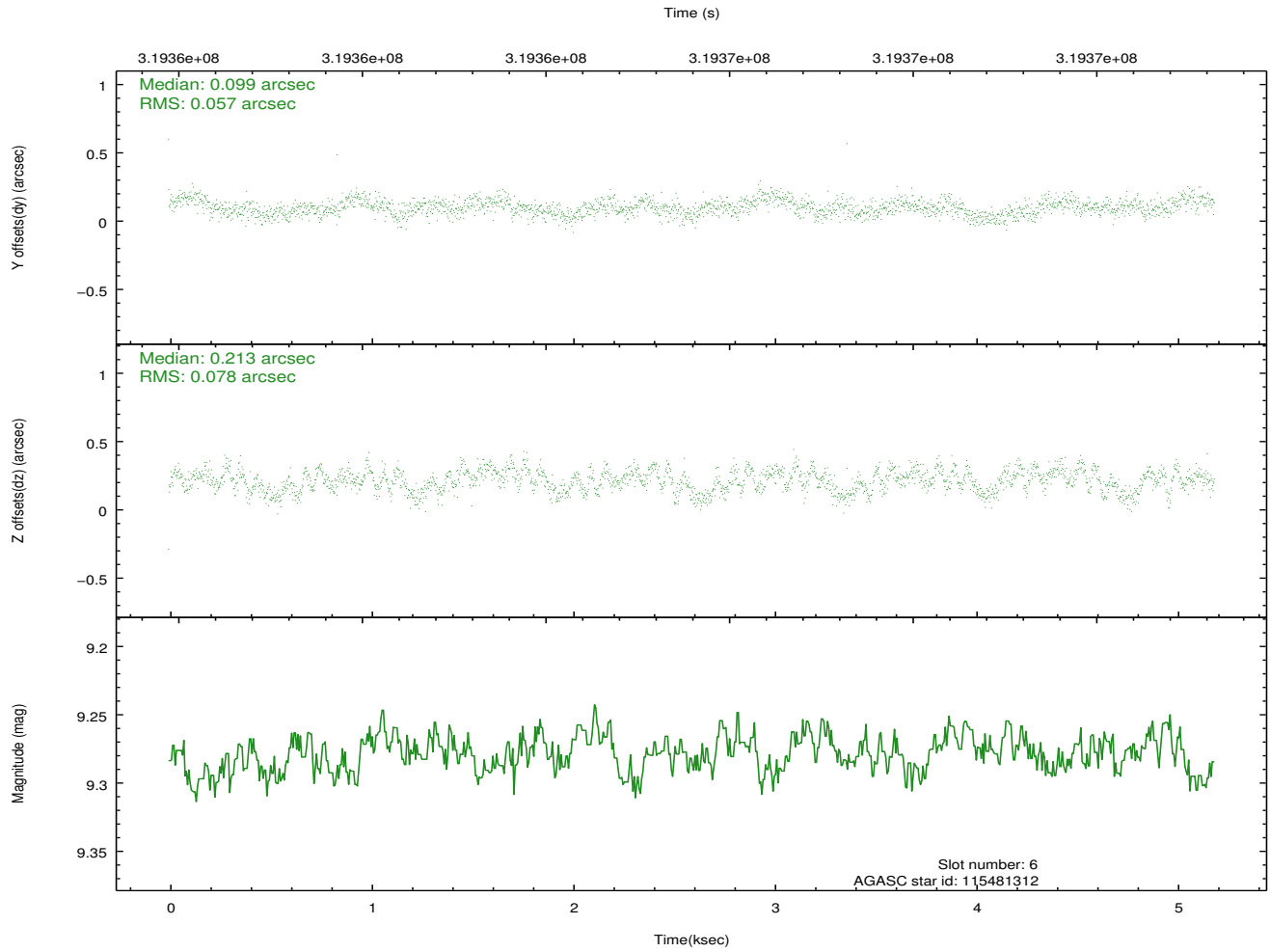
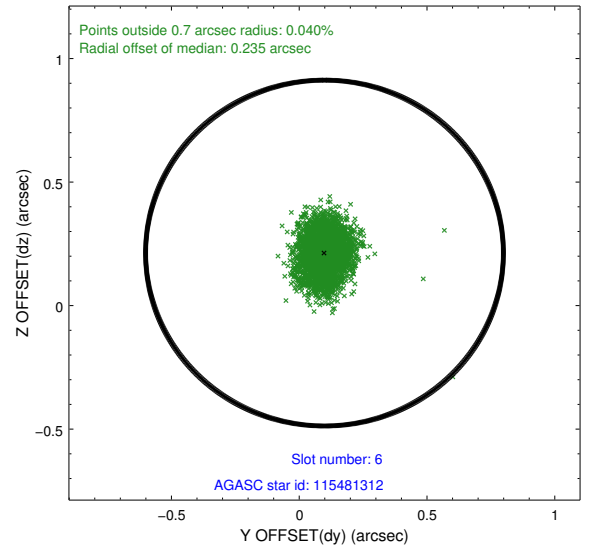
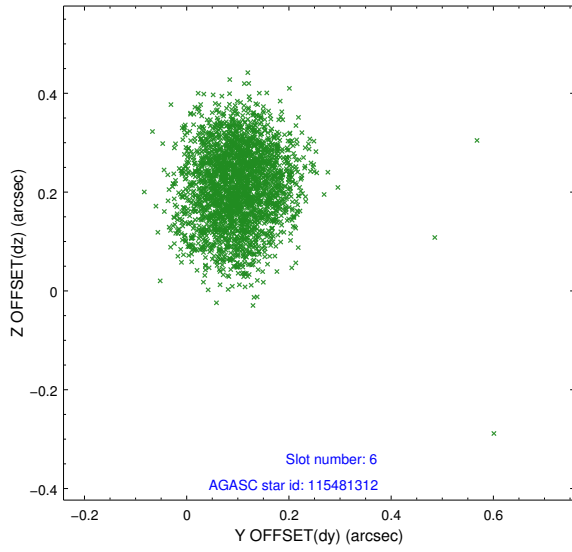
Time (s)



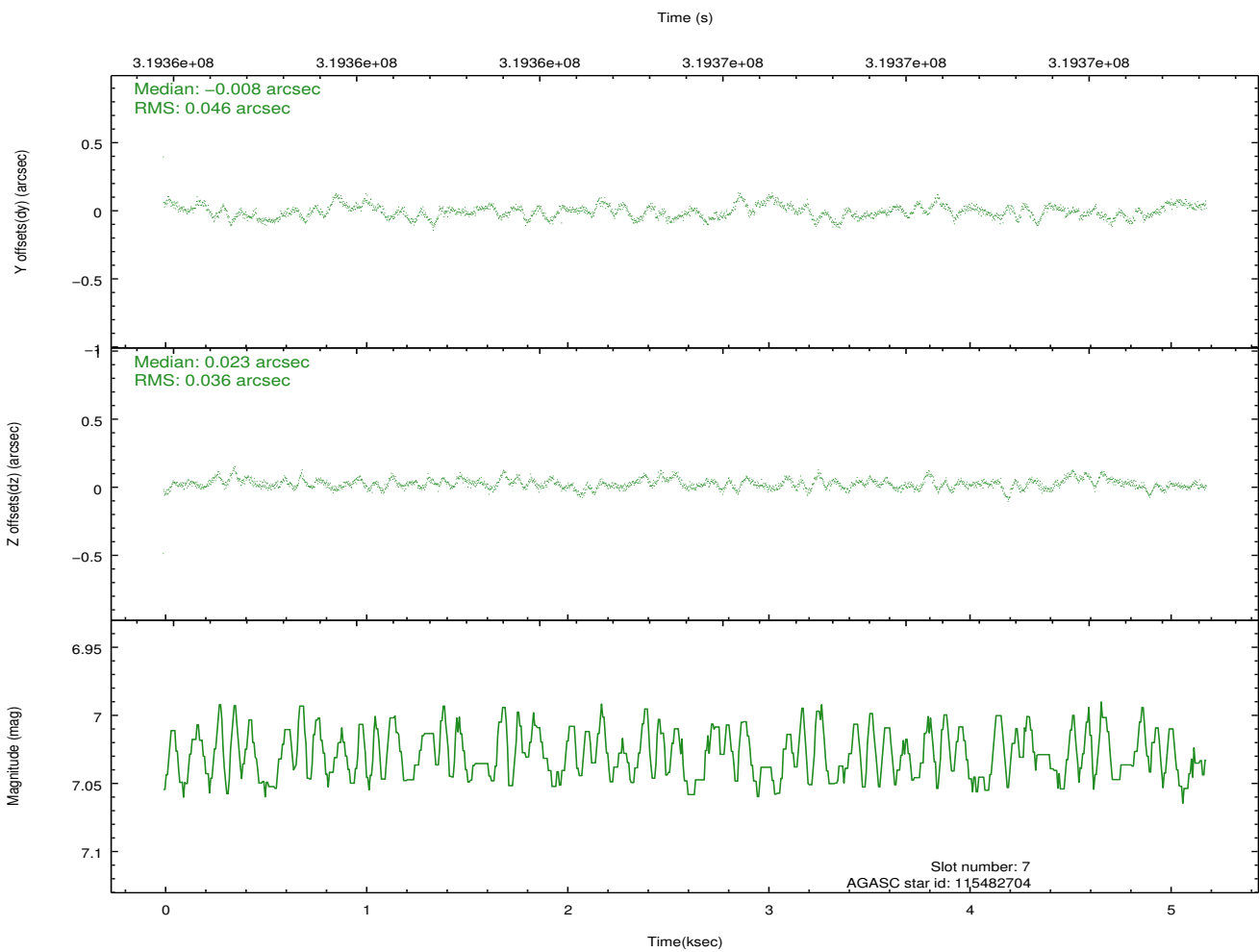
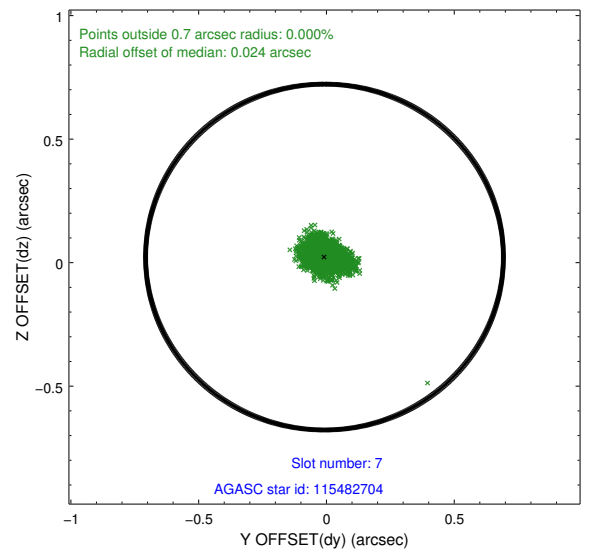
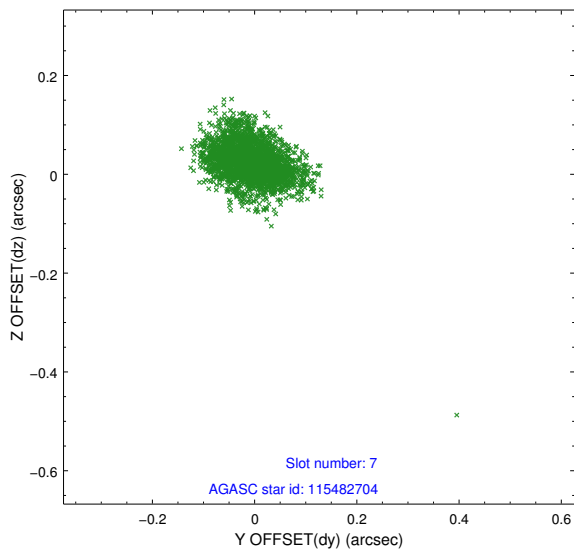
2.4.3 Slot 5



2.4.4 Slot 6

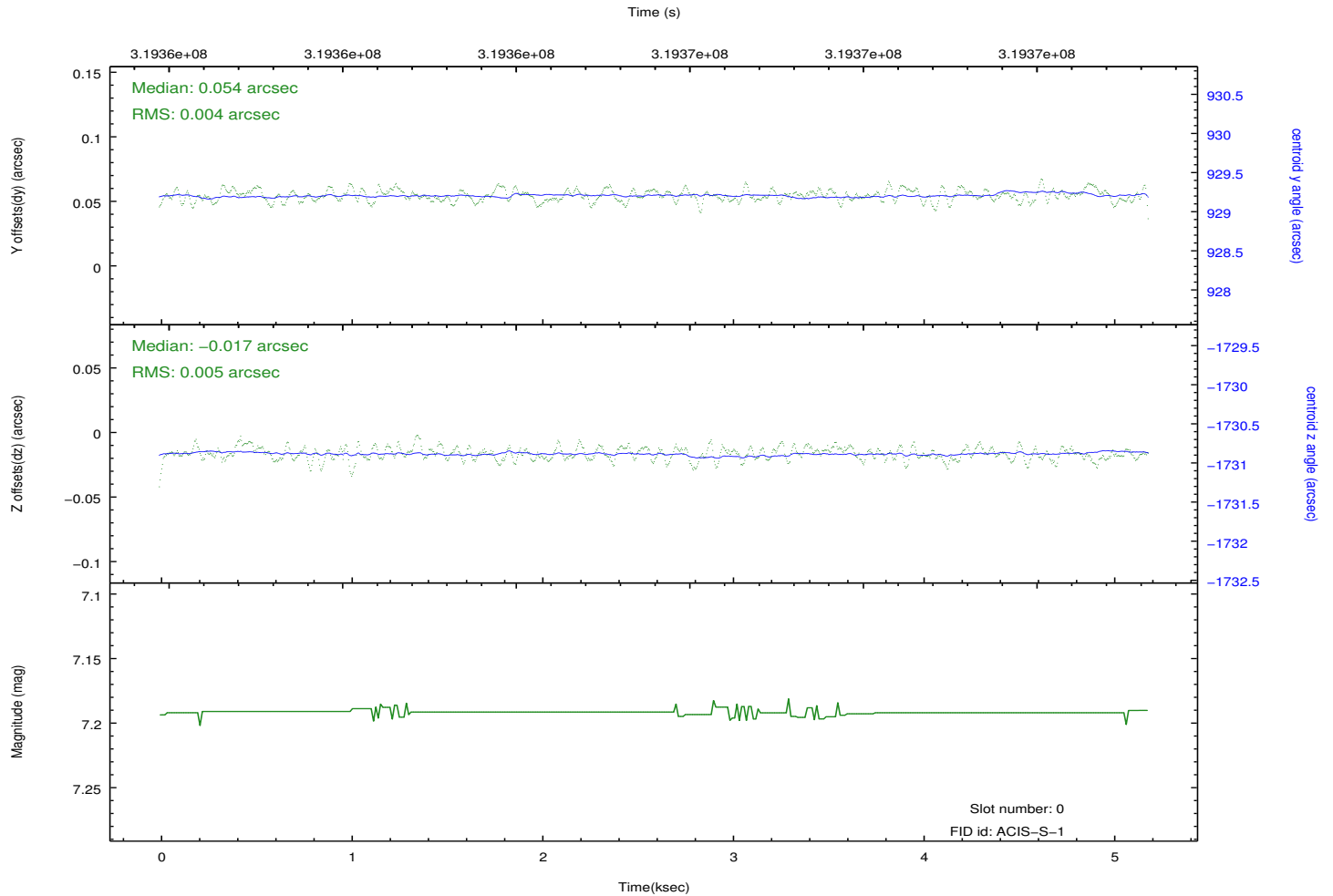
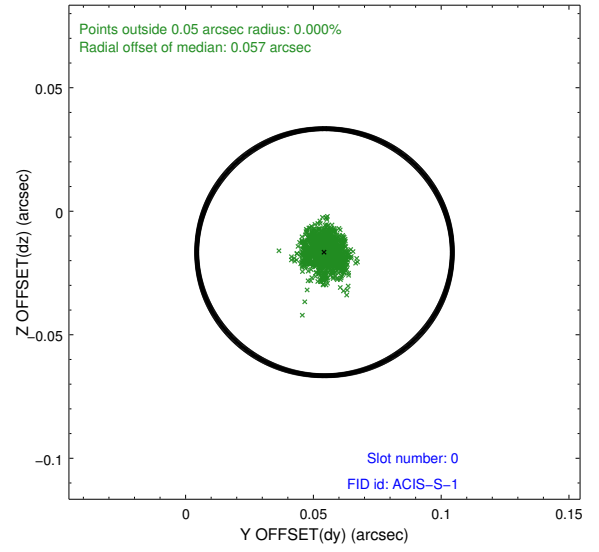
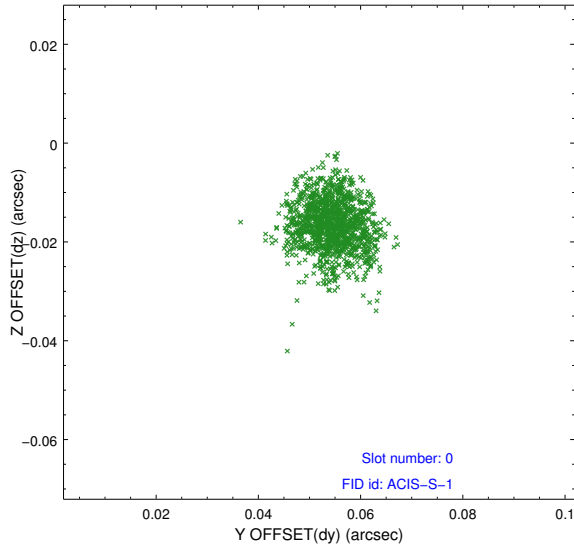


2.4.5 Slot 7

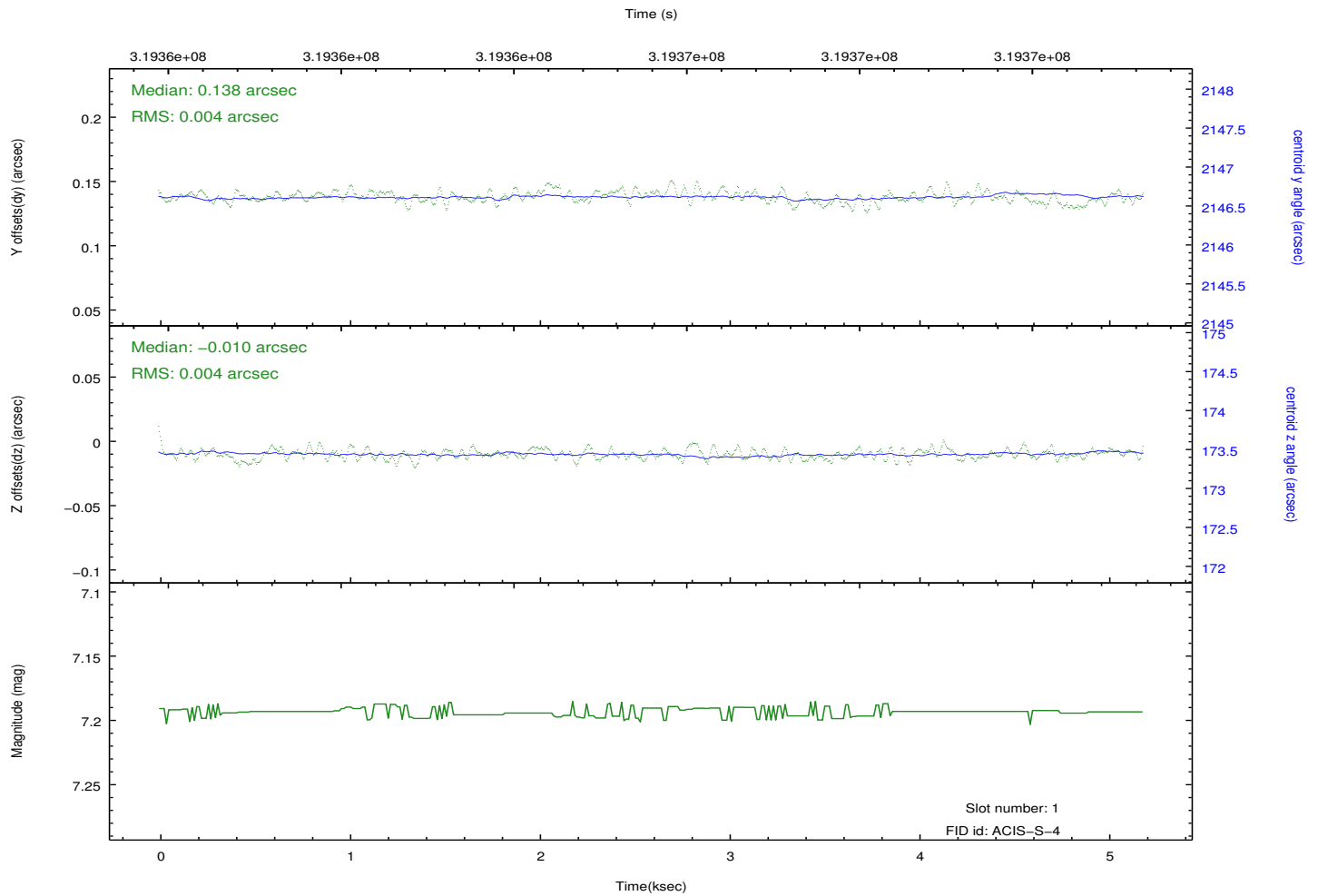
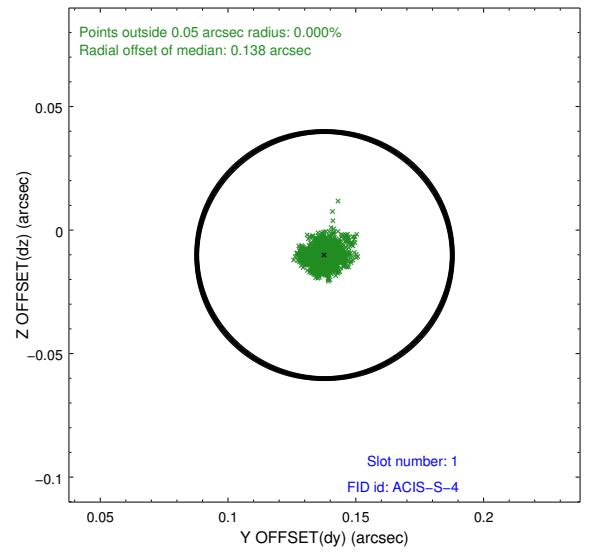
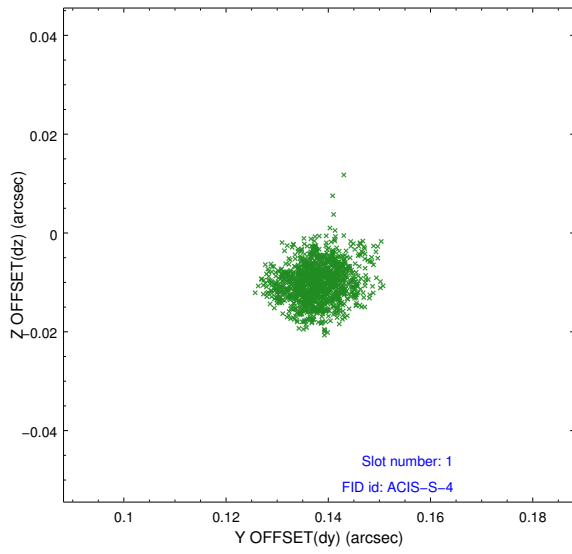


2.5 FID Slots

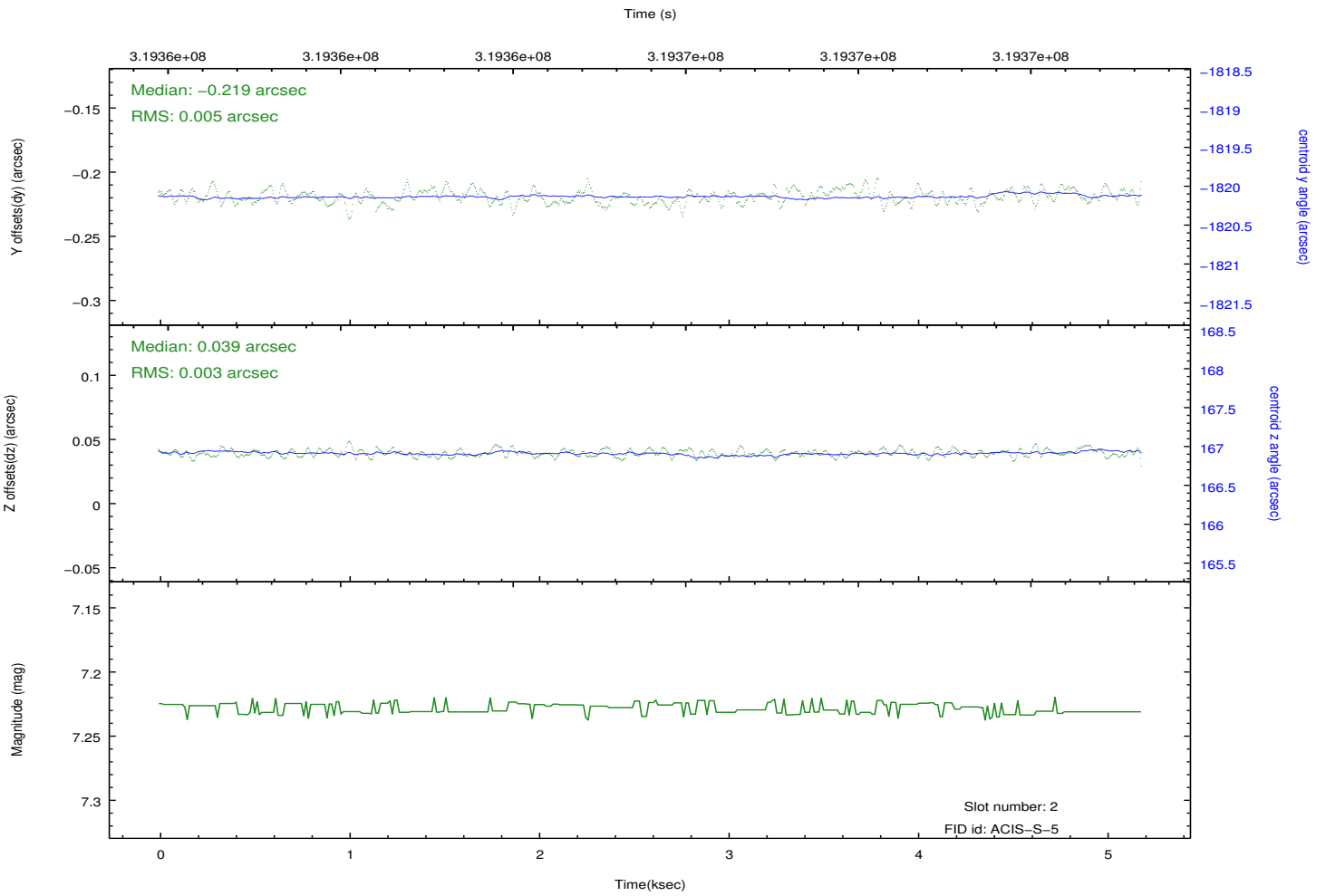
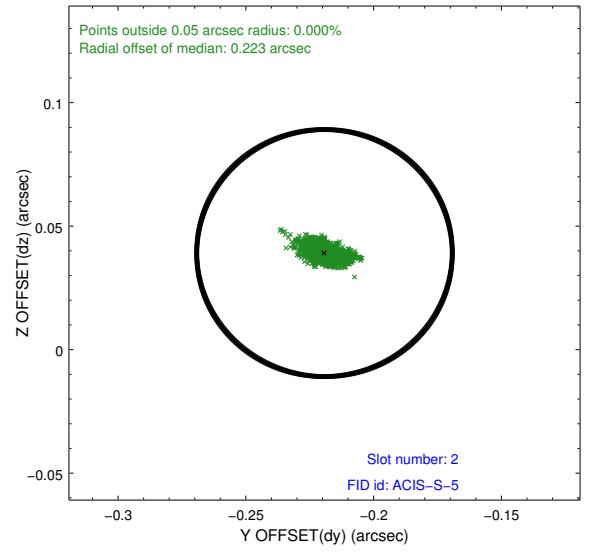
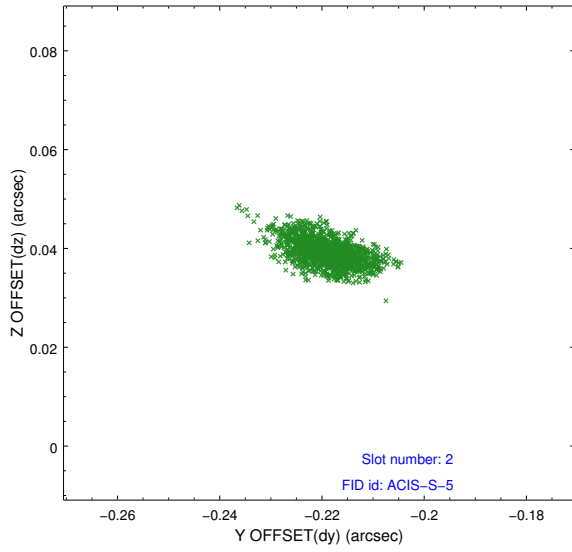
2.5.1 Slot 0



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)	2012.05.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.76159998

A.2 Comments