

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3525 - L2 Version 3
Chandra X-Ray Center

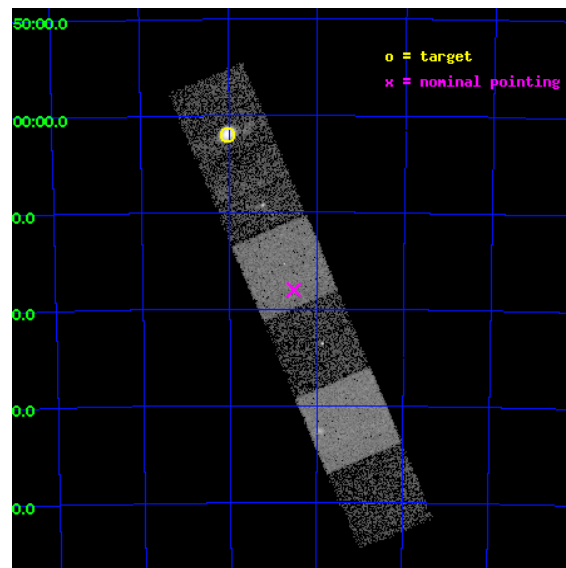
L2 Processing Date : Oct 22 2012

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1 Front

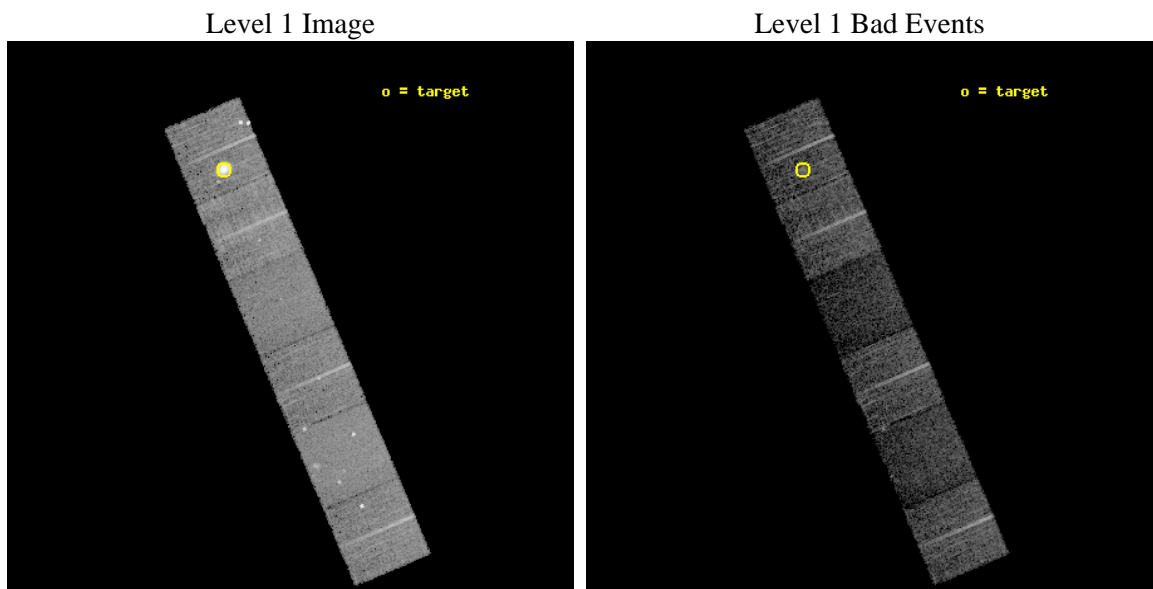
seq_num	590280	Sequence number
obs_id	3525	Observation id
title	AO4A ACIS-S CALIBRATION OBSERVATIONS OF E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[S5,-120,-17.29,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.632297261625	Nominal RA [deg]
dec_nom	-72.300325410766	Nominal Dec [deg]
roll_nom	246.98295028069	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7727.8735999763	Sum of GTIs [s]
livetime	7630.0186112866	Livetime [s]
ontime4	7727.999971211	Sum of GTIs [s]
ontime5	7727.9967199564	Sum of GTIs [s]
ontime6	7727.9556799531	Sum of GTIs [s]
ontime7	7727.999971211	Sum of GTIs [s]
ontime8	7724.6736696661	Sum of GTIs [s]
ontime9	7727.8735999763	Sum of GTIs [s]
l2events	77101	Number of level 2 events



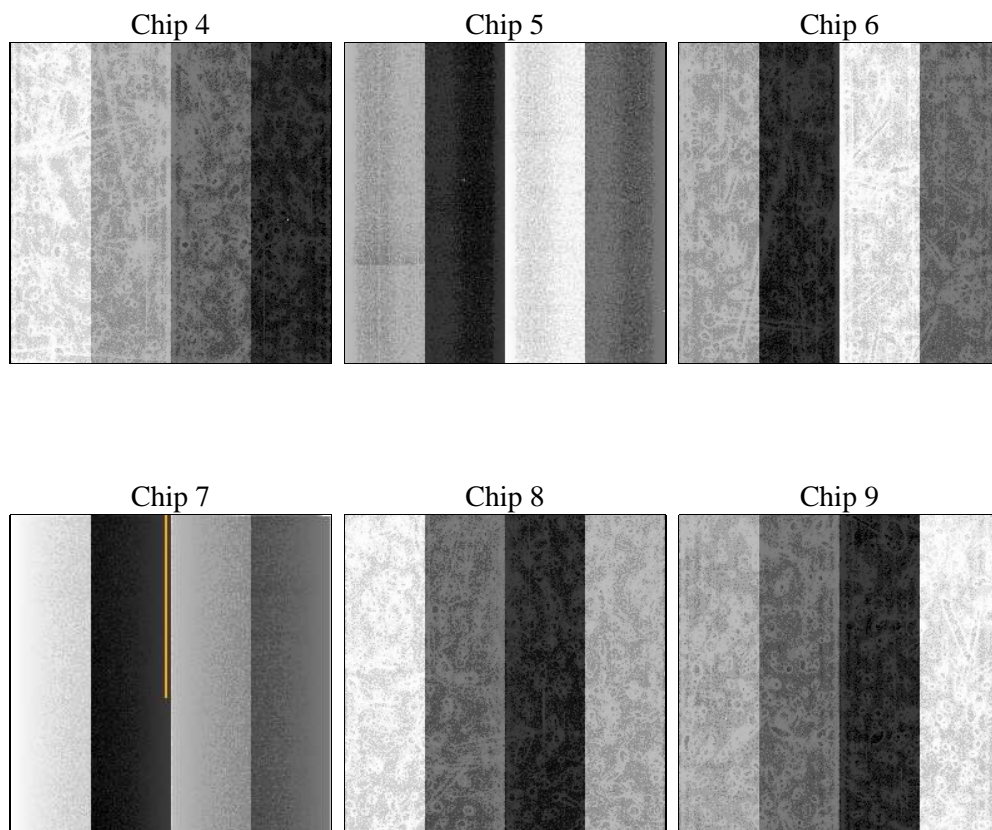
2 OBI

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	7727.8735999763	Sum of GTIs [s]
caldsver	4.5.2	 	ontime4	7727.999971211	Sum of GTIs [s]
date	2012-10-22T03:48:50	Date and time of file creation	ontime5	7727.9967199564	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	7727.9556799531	Sum of GTIs [s]
			ontime7	7727.999971211	Sum of GTIs [s]
			ontime8	7724.6736696661	Sum of GTIs [s]
			ontime9	7727.8735999763	Sum of GTIs [s]
			l1events	282720	Number of level 1 events

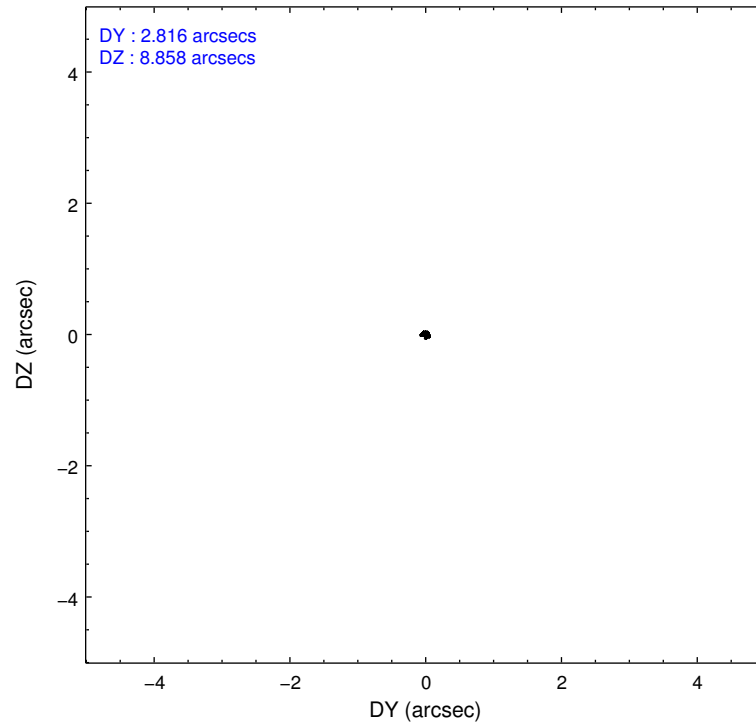
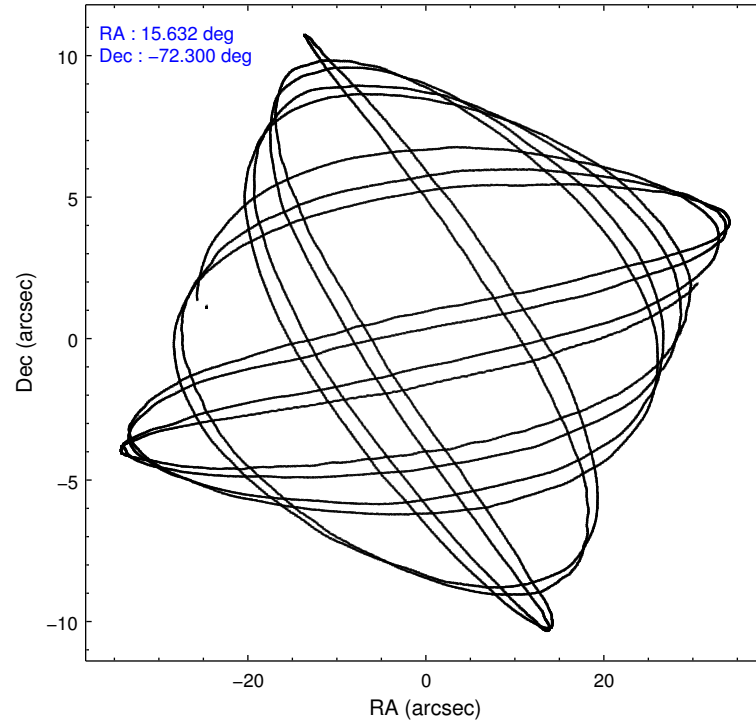
2.1.4 Events

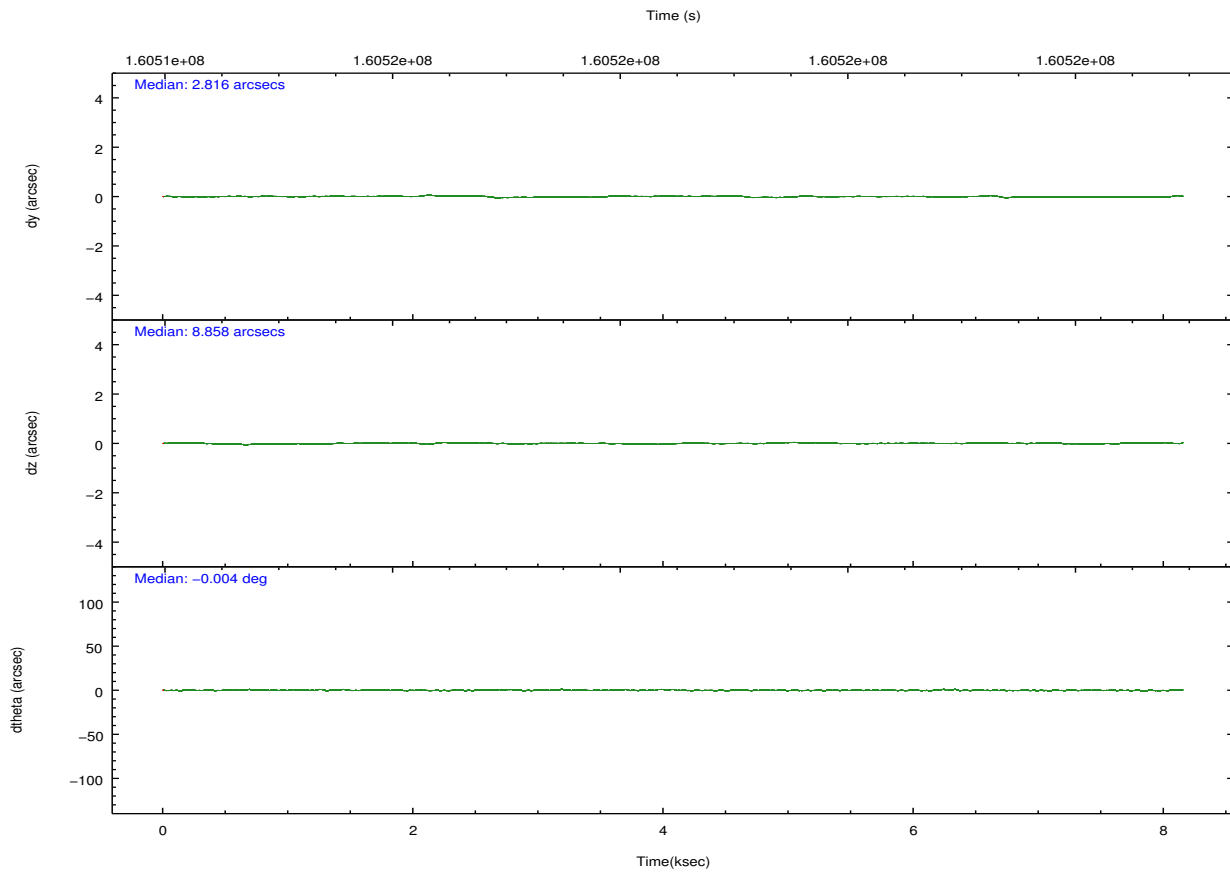
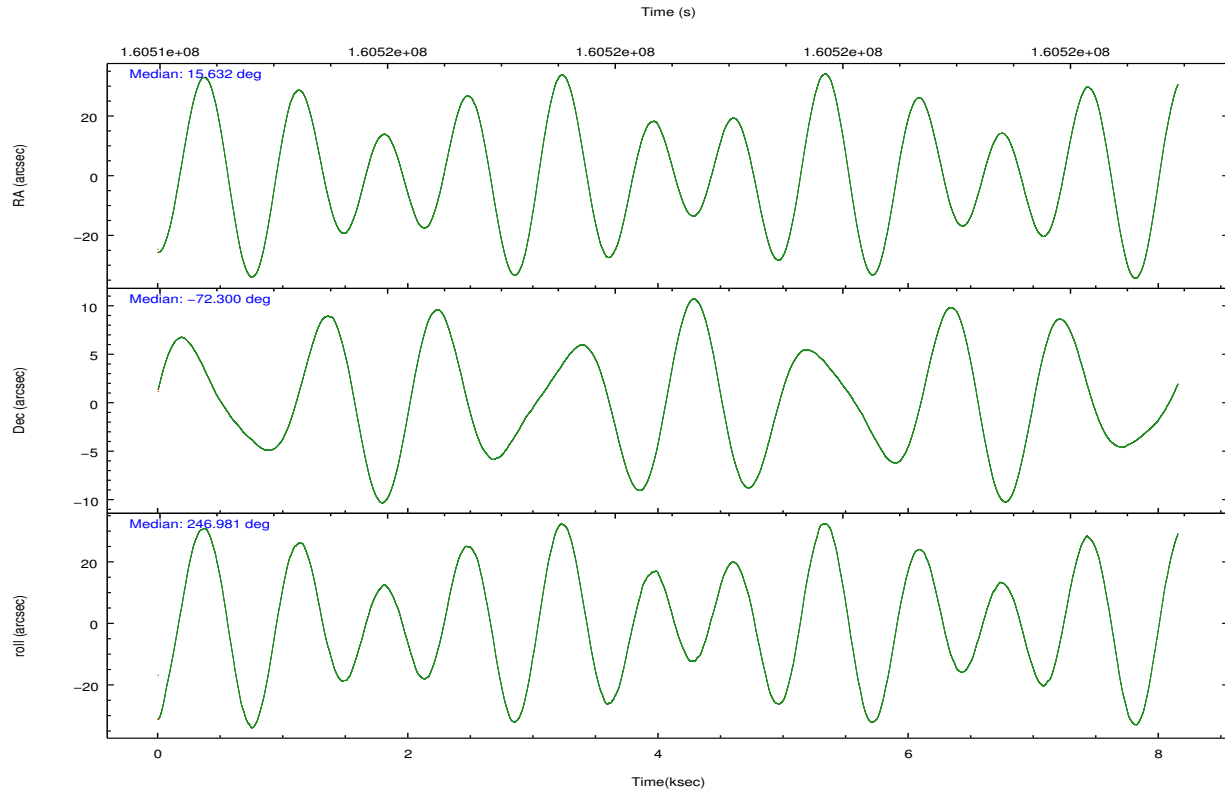
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	44501	47374	39510	36129	50599	64607	grade 0 events	3719	3930	1997	2067	3674	22973
rejected events	38281	21026	34909	17454	38943	34648		8%	8%	5%	5%	7%	35%
rejected %	86%	44%	88%	48%	76%	53%	grade 1 events	42	122	23	33	36	137
								0%	0%	0%	0%	0%	0%
							grade 2 events	975	7330	912	3928	2400	4435
								2%	15%	2%	10%	4%	6%
							grade 3 events	474	1397	504	1849	1302	805
								1%	2%	1%	5%	2%	1%
							grade 4 events	427	1363	454	1814	1316	766
								0%	2%	1%	5%	2%	1%
							grade 5 events	1233	3888	1256	3901	1836	1472
								2%	8%	3%	10%	3%	2%
							grade 6 events	631	12348	743	9026	2966	1013
								1%	26%	1%	24%	5%	1%
							grade 7 events	37000	16996	33621	13511	37069	33006
								83%	35%	85%	37%	73%	51%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	15.620206	15.63229726162522	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.273377	-72.30032541076608	Alternating exposures requested	N	N
[deg] Pointing Roll	246.814815	246.9829502806902	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	159019264.184000	159019264.184000			
[s] Window stop time (MET)	161697664.184000	161697664.184000			
[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)	160514569.184000	160514193.09481			
Observation start date	2003-02-01T19:21:45	2003-02-01T19:16:33			
[s] Observation end time (MET)	160522542.184000	160522675.99517			
Observation end date	2003-02-01T21:34:38	2003-02-01T21:37:55			
Read mode	TIMED	TIMED			

2.3 Aspect



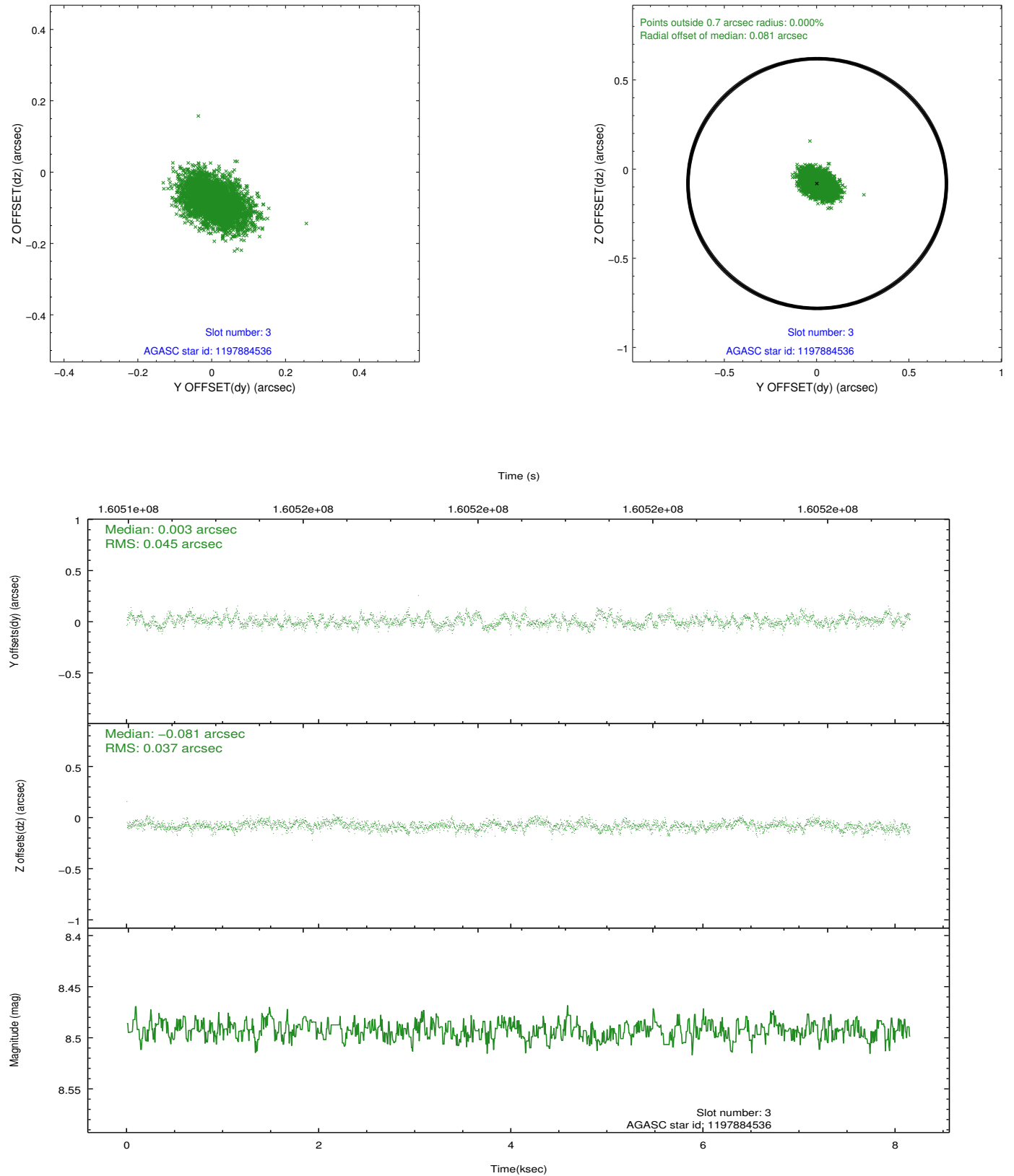


Slot Statistics

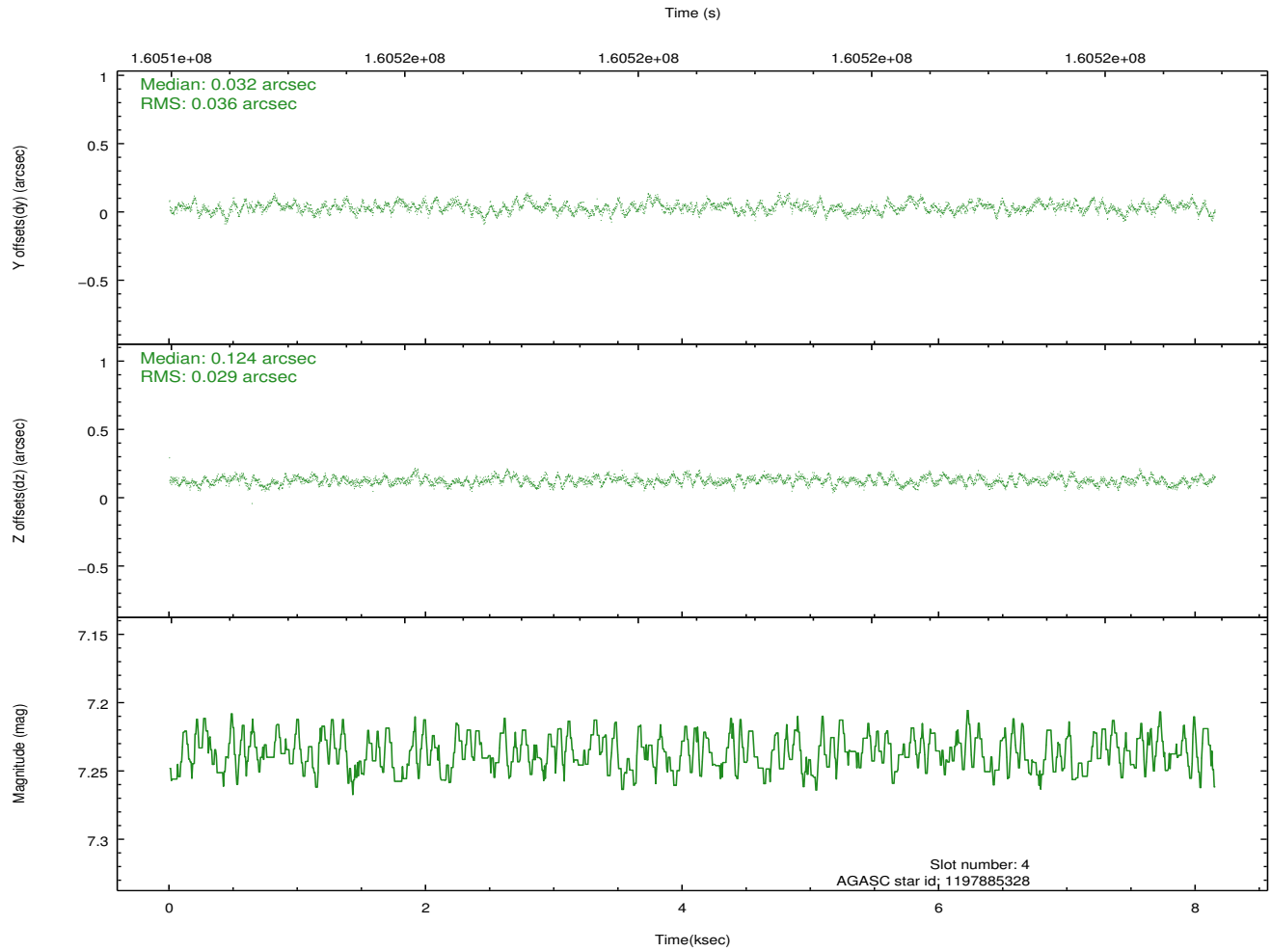
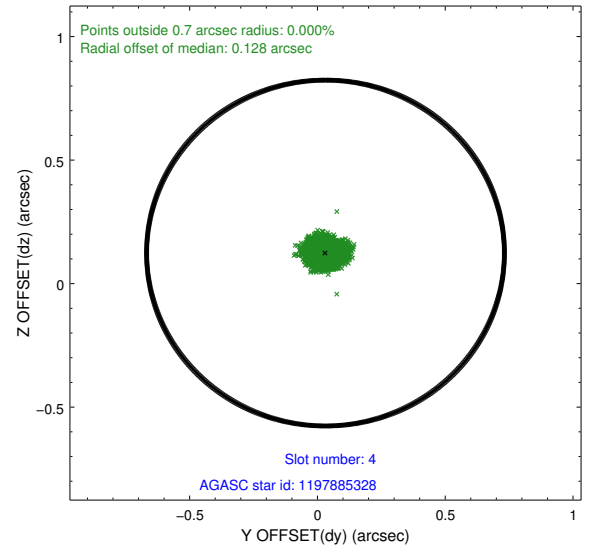
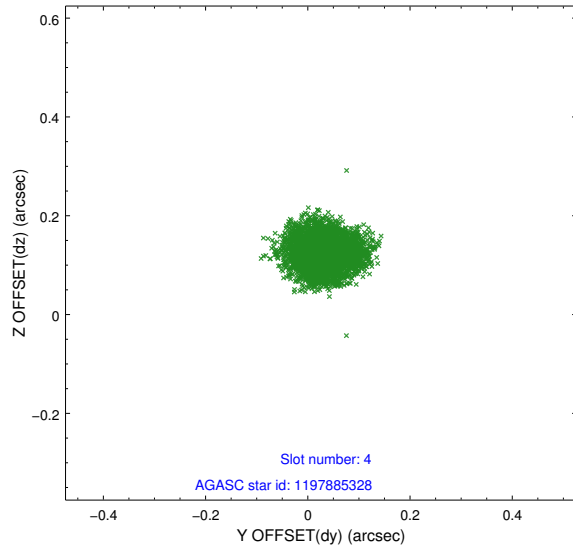
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1989	-0.024	-0.010	0.007	0.011	0.000000	0.000000	-755.47	-1730.03
1	FID	ACIS-S-4	7.20	1989	-0.003	0.014	0.006	0.011	0.000000	0.000000	2157.51	177.78
2	FID	ACIS-S-5	7.24	1989	-0.004	0.005	0.007	0.012	0.000000	0.000000	-1807.41	172.20
3	GUIDE	1197884536	8.49	3977	0.003	-0.081	0.061	0.103	17.160729	-71.835289	-2109.93	976.96
4	GUIDE	1197885328	7.24	3978	0.032	0.124	0.049	0.078	16.283090	-71.733943	-2076.42	-74.70
5	GUIDE	1198189696	7.36	3978	-0.058	-0.099	0.055	0.085	15.223750	-72.697522	1571.58	211.68
6	GUIDE	1197750936	7.55	3977	0.030	-0.019	0.062	0.095	15.387940	-71.549550	-2289.97	-1268.83
7	GUIDE	1198282744	9.01	3975	-0.006	0.077	0.073	0.117	17.028326	-73.013356	1881.29	2417.02

2.4 Star Slots

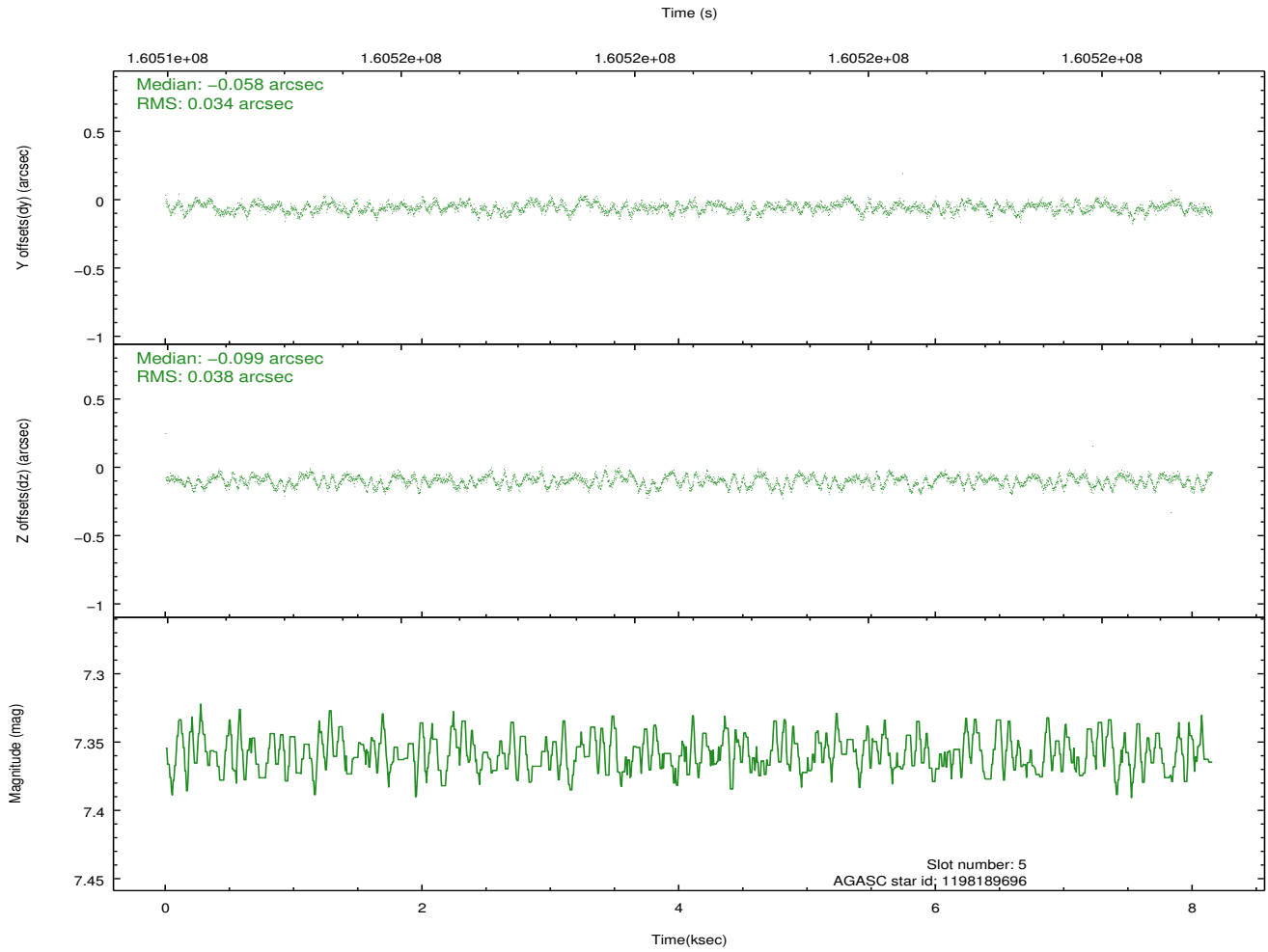
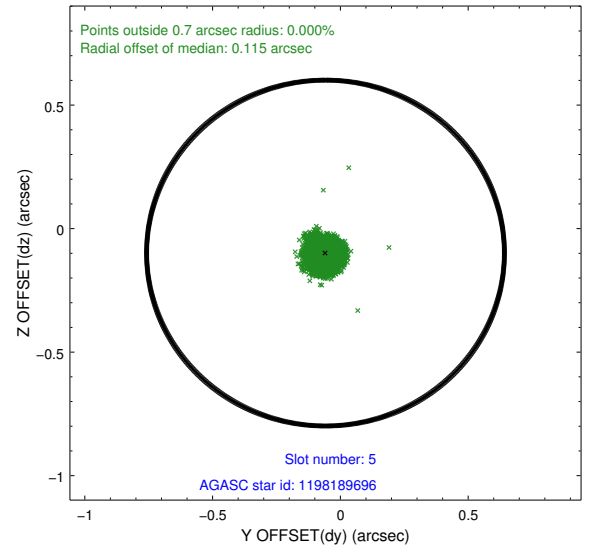
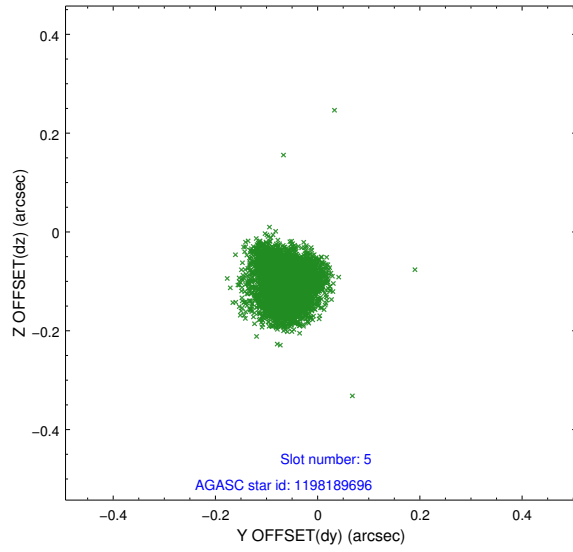
2.4.1 Slot 3



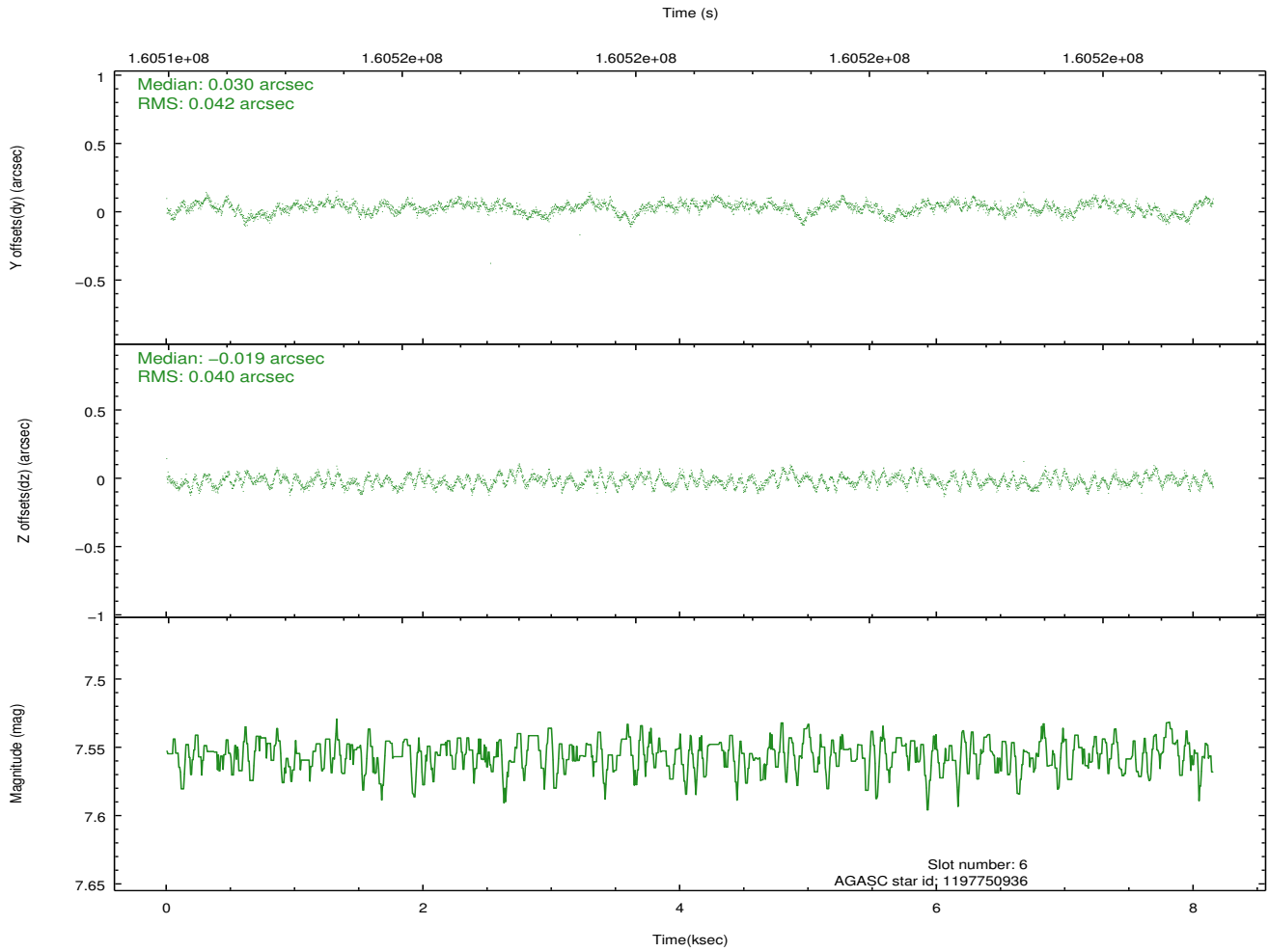
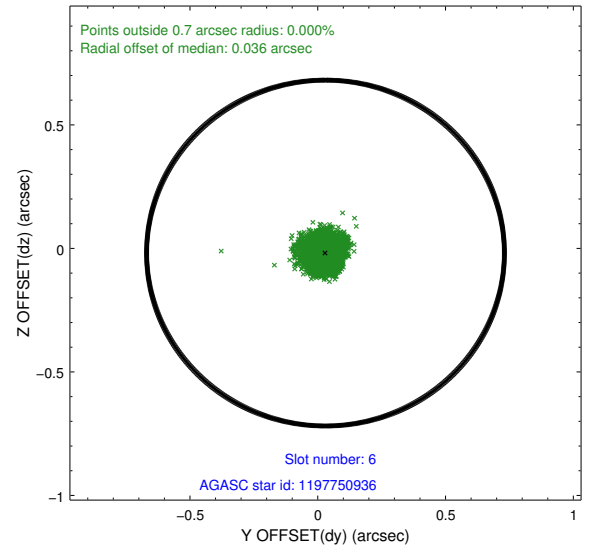
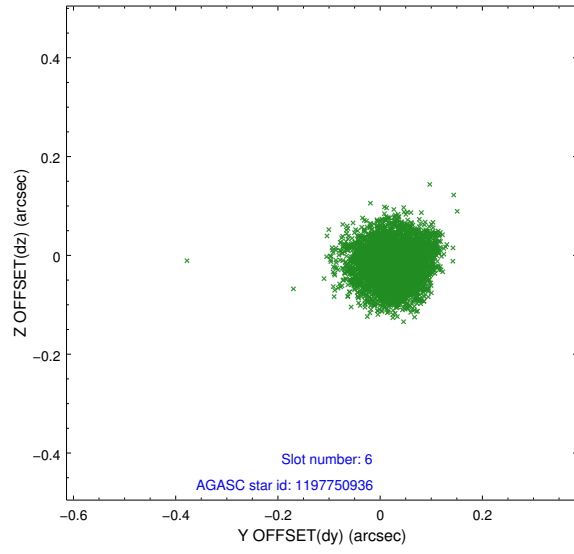
2.4.2 Slot 4



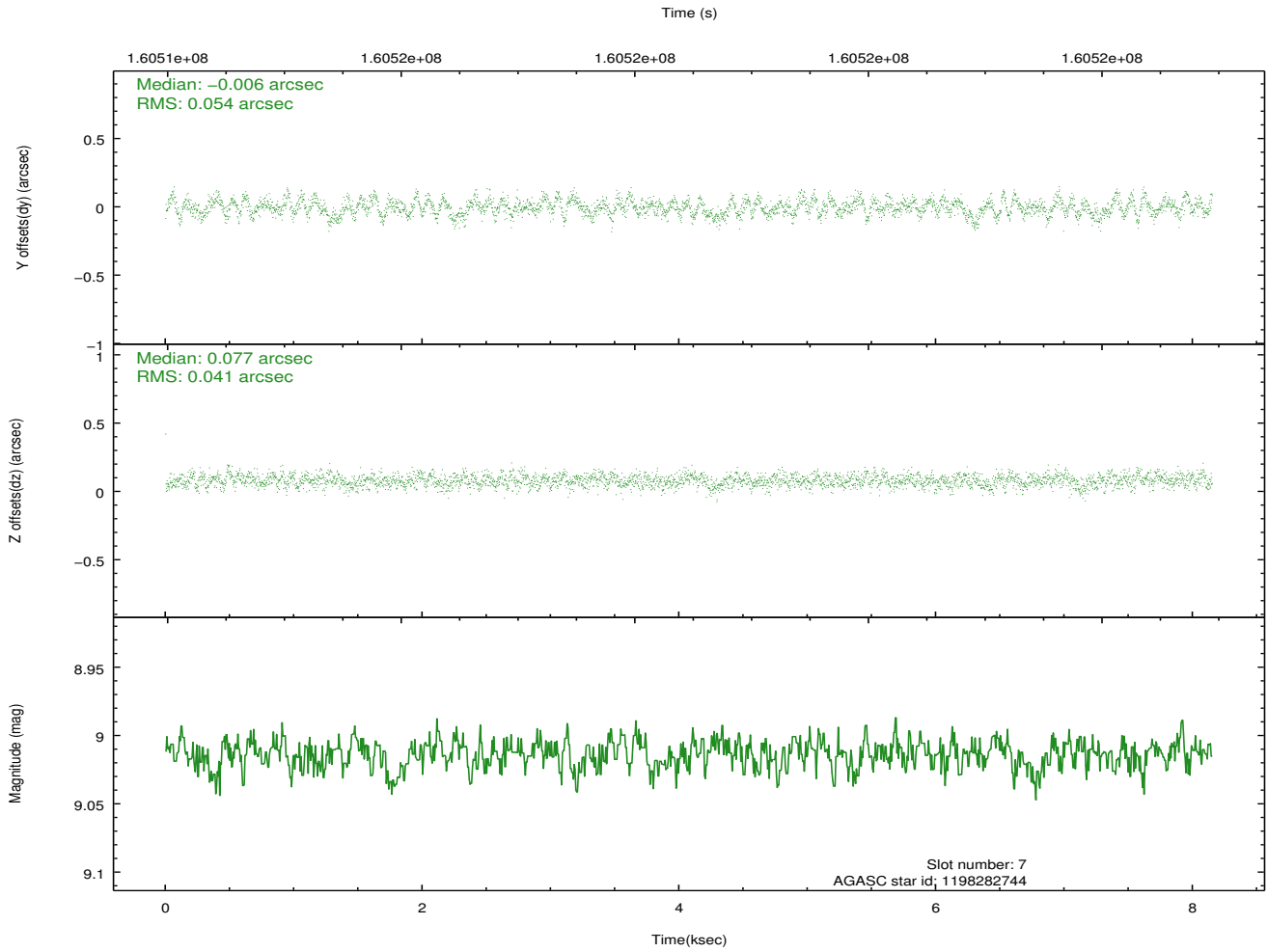
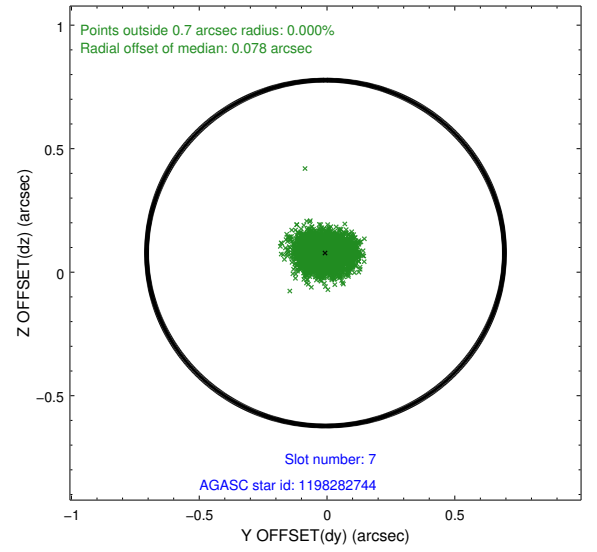
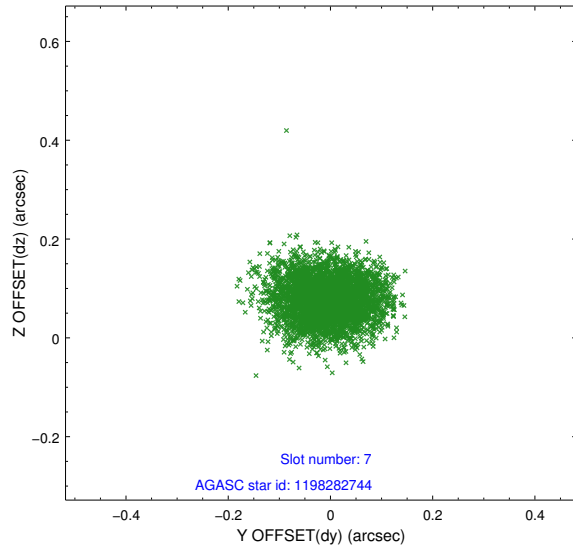
2.4.3 Slot 5



2.4.4 Slot 6

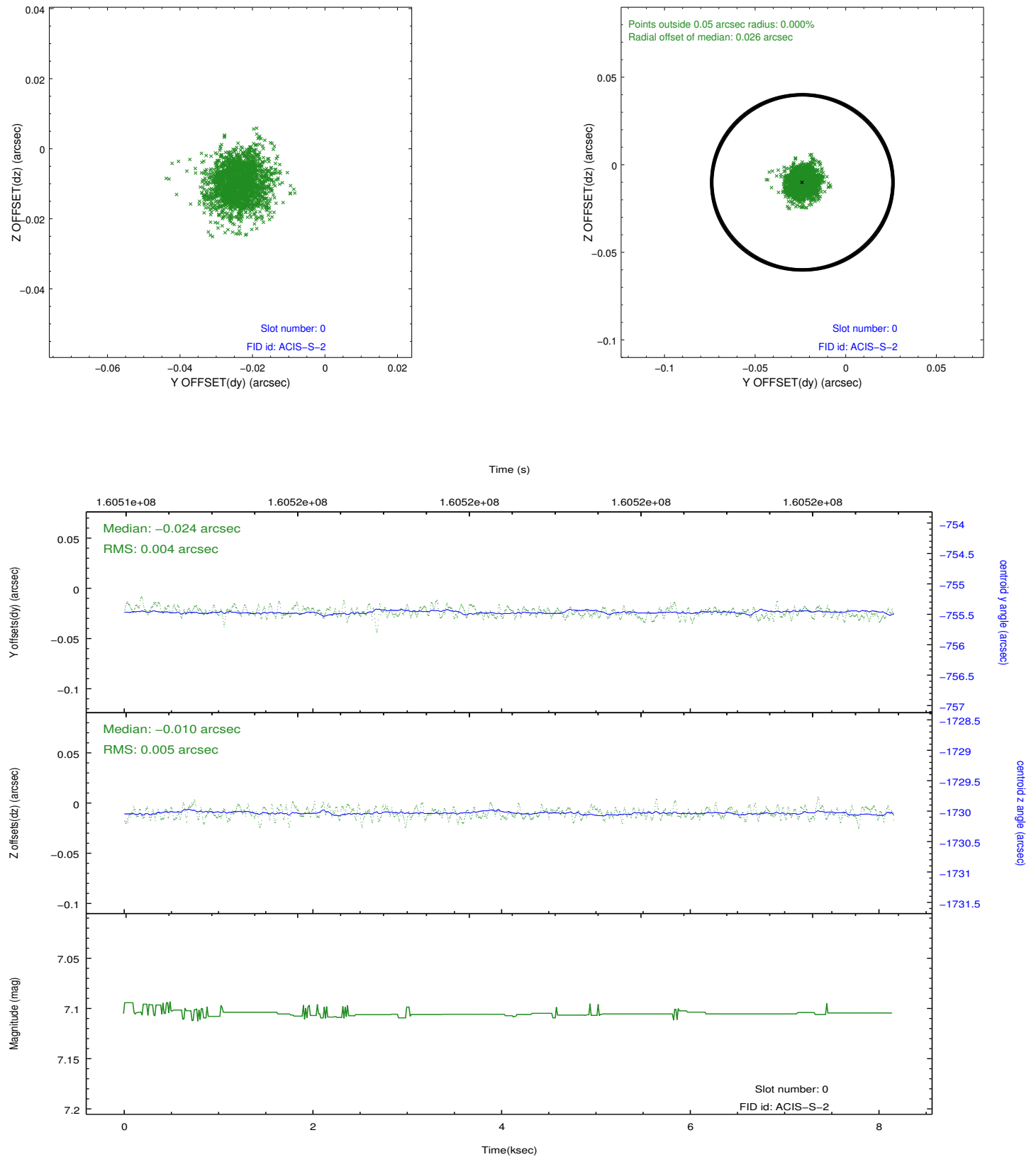


2.4.5 Slot 7

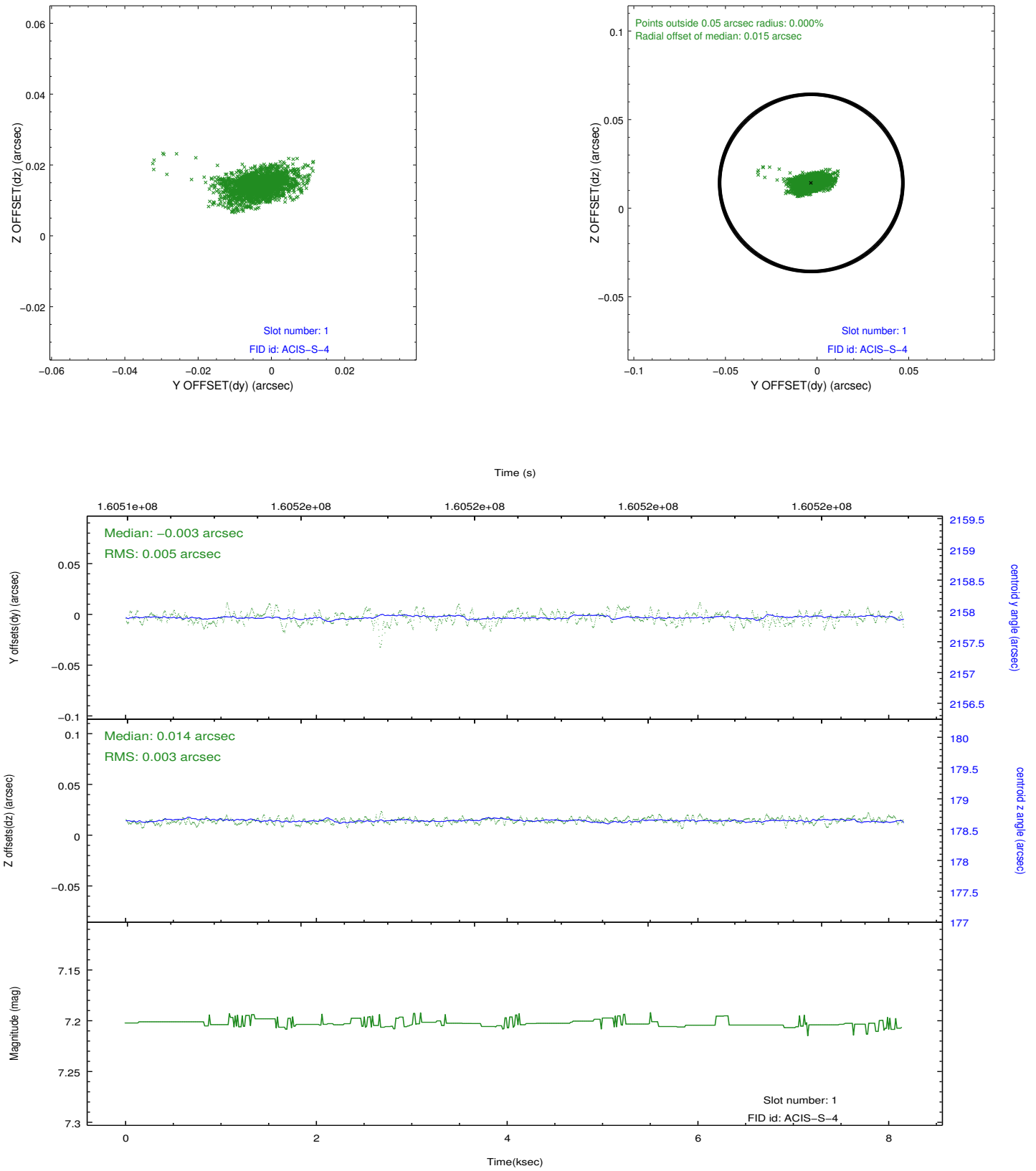


2.5 FID Slots

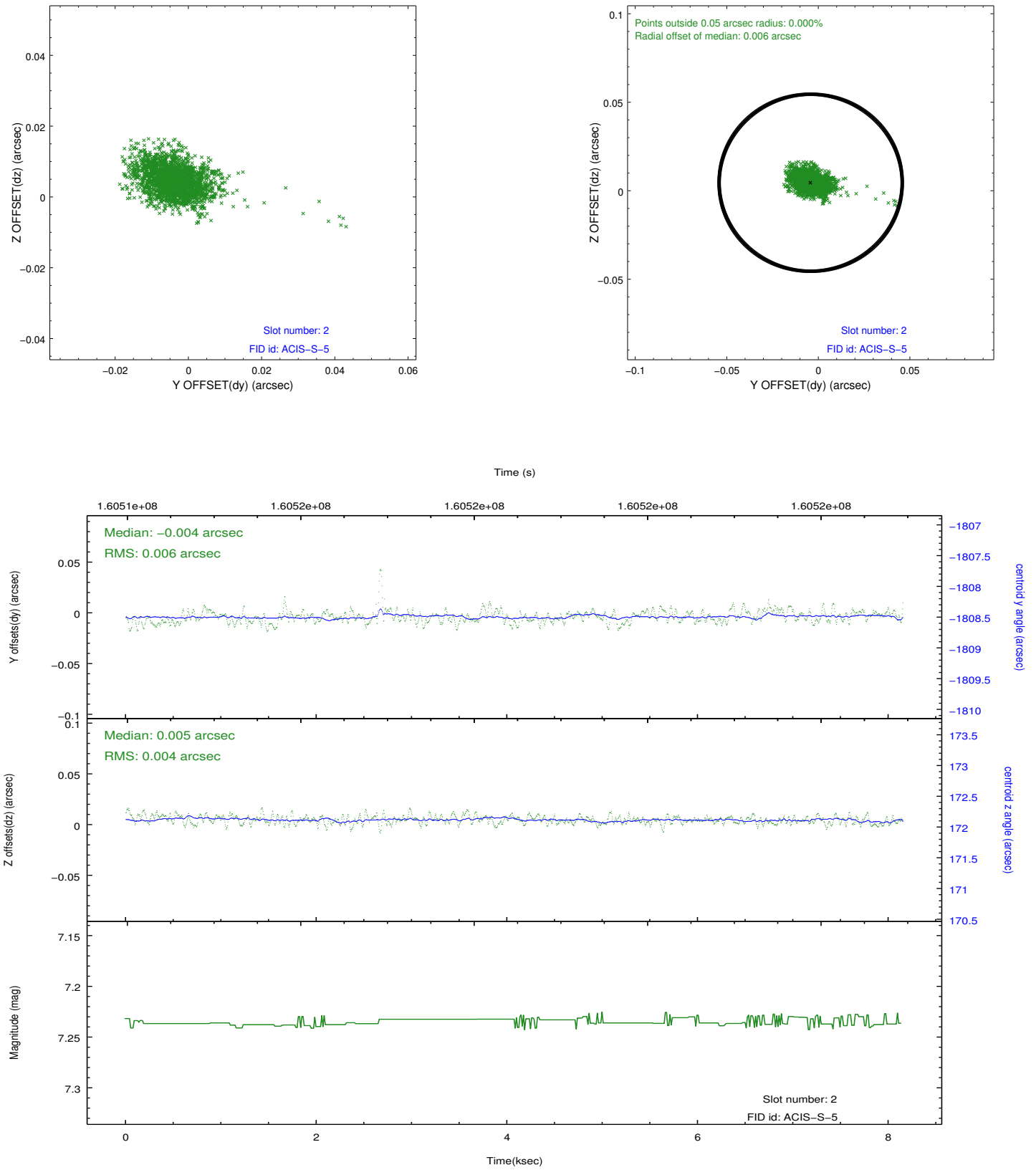
2.5.1 Slot 0



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.