

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3546 - L2 Version 3
Chandra X-Ray Center

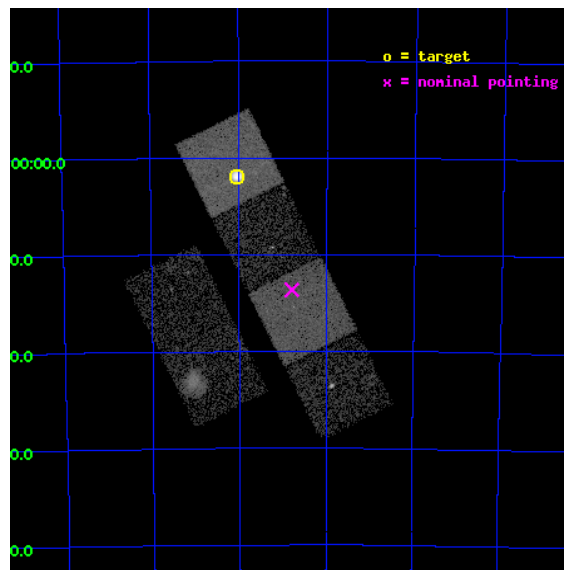
L2 Processing Date : Nov 3 2012

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1 Front

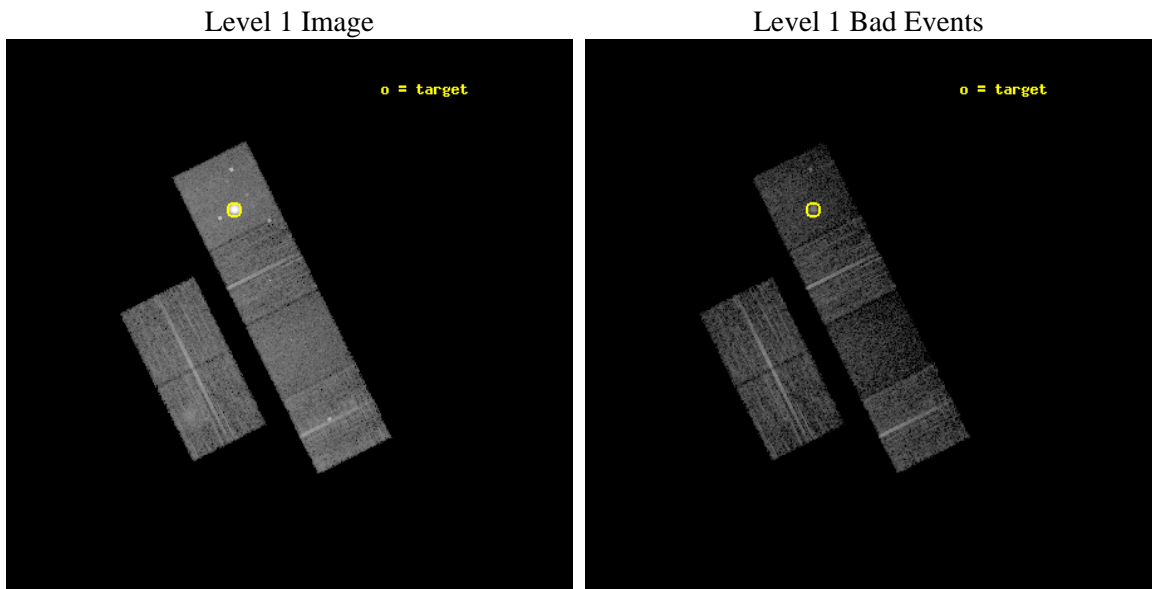
seq_num	590301	Sequence number
obs_id	3546	Observation id
title	AO4B ACIS-S CALIBRATION OBSERVATIONS OF E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[S1,-120,13.29,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.698657901544	Nominal RA [deg]
dec_nom	-72.227322021731	Nominal Dec [deg]
roll_nom	63.513069474546	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7961.5999703407	Sum of GTIs [s]
livetime	7860.7853976163	Livetime [s]
ontime2	7961.5999703407	Sum of GTIs [s]
ontime3	7961.5999703407	Sum of GTIs [s]
ontime5	7961.5999703407	Sum of GTIs [s]
ontime6	7961.5999703407	Sum of GTIs [s]
ontime7	7961.5999703407	Sum of GTIs [s]
ontime8	7961.5999703407	Sum of GTIs [s]
l2events	102940	Number of level 2 events



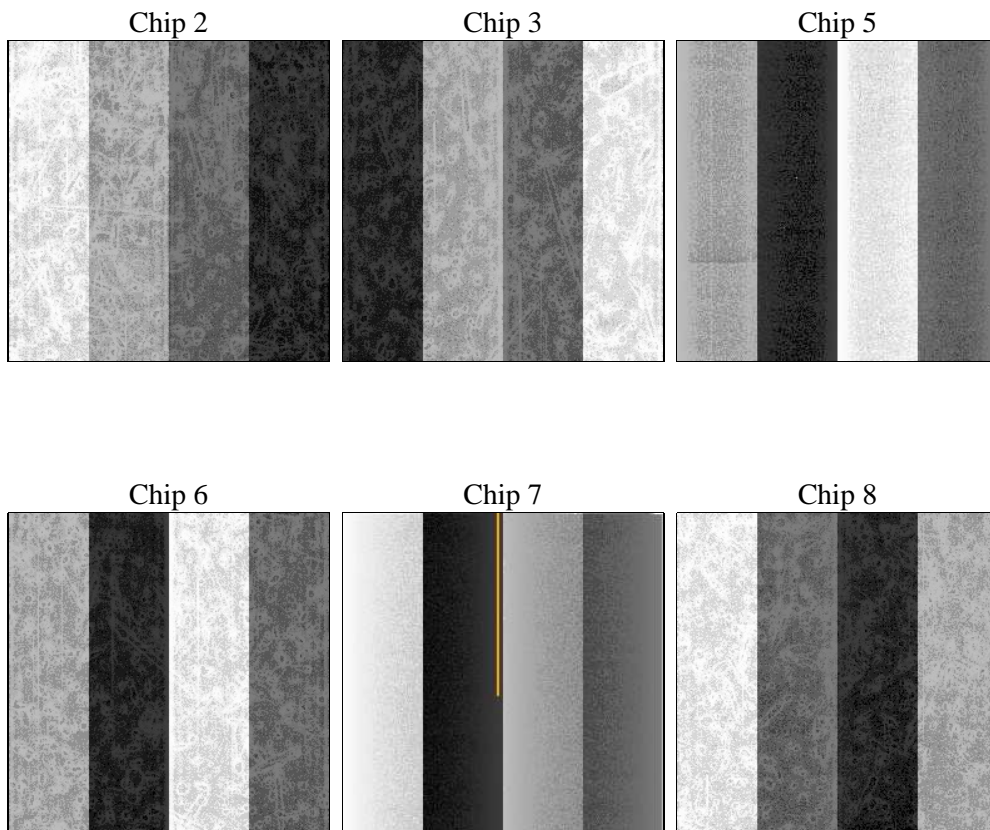
2 OBI

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	7961.5999703407	Sum of GTIs [s]
caldbver	4.5.2	 	ontime2	7961.5999703407	Sum of GTIs [s]
date	2012-11-03T14:26:42	Date and time of file creation	ontime3	7961.5999703407	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	7961.5999703407	Sum of GTIs [s]
			ontime6	7961.5999703407	Sum of GTIs [s]
			ontime7	7961.5999703407	Sum of GTIs [s]
			ontime8	7961.5999703407	Sum of GTIs [s]
			l1events	302075	Number of level 1 events

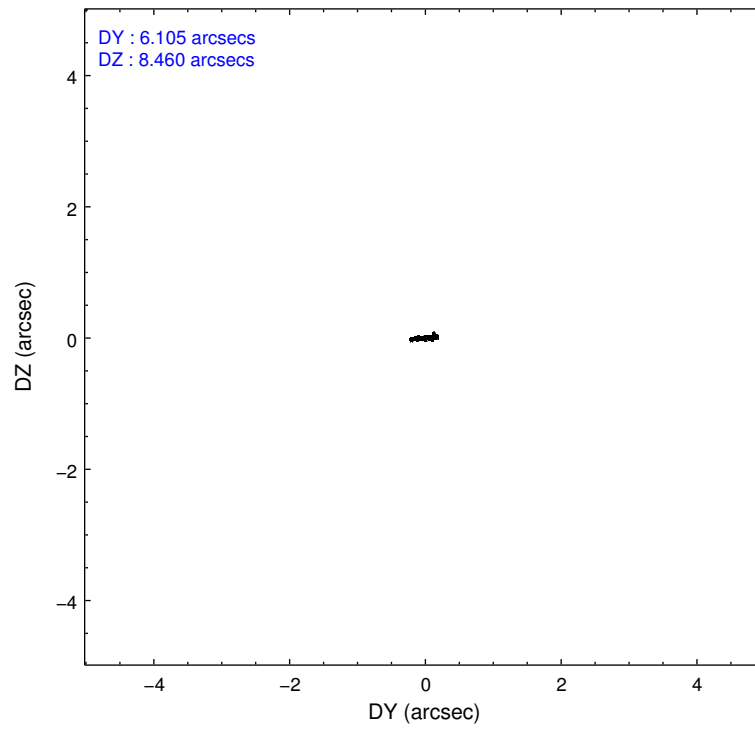
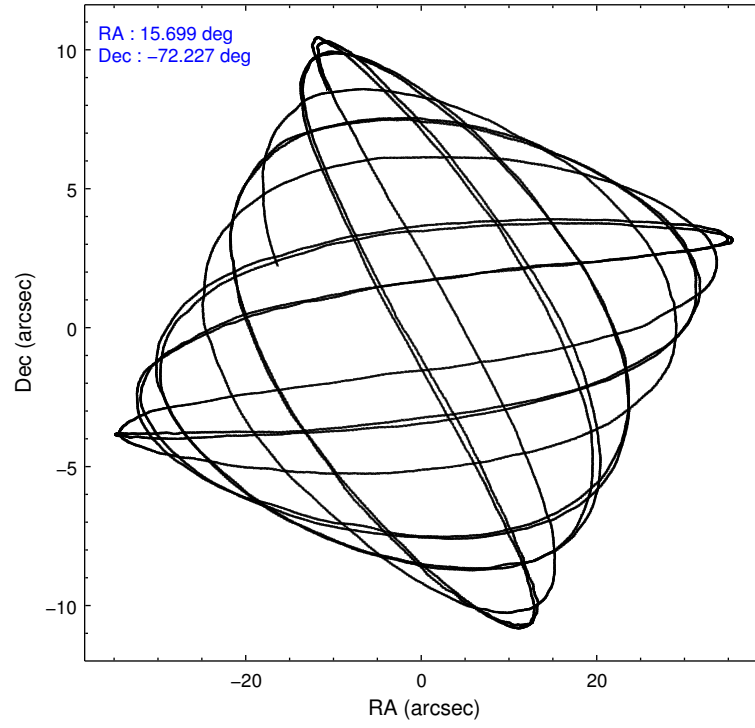
2.1.4 Events

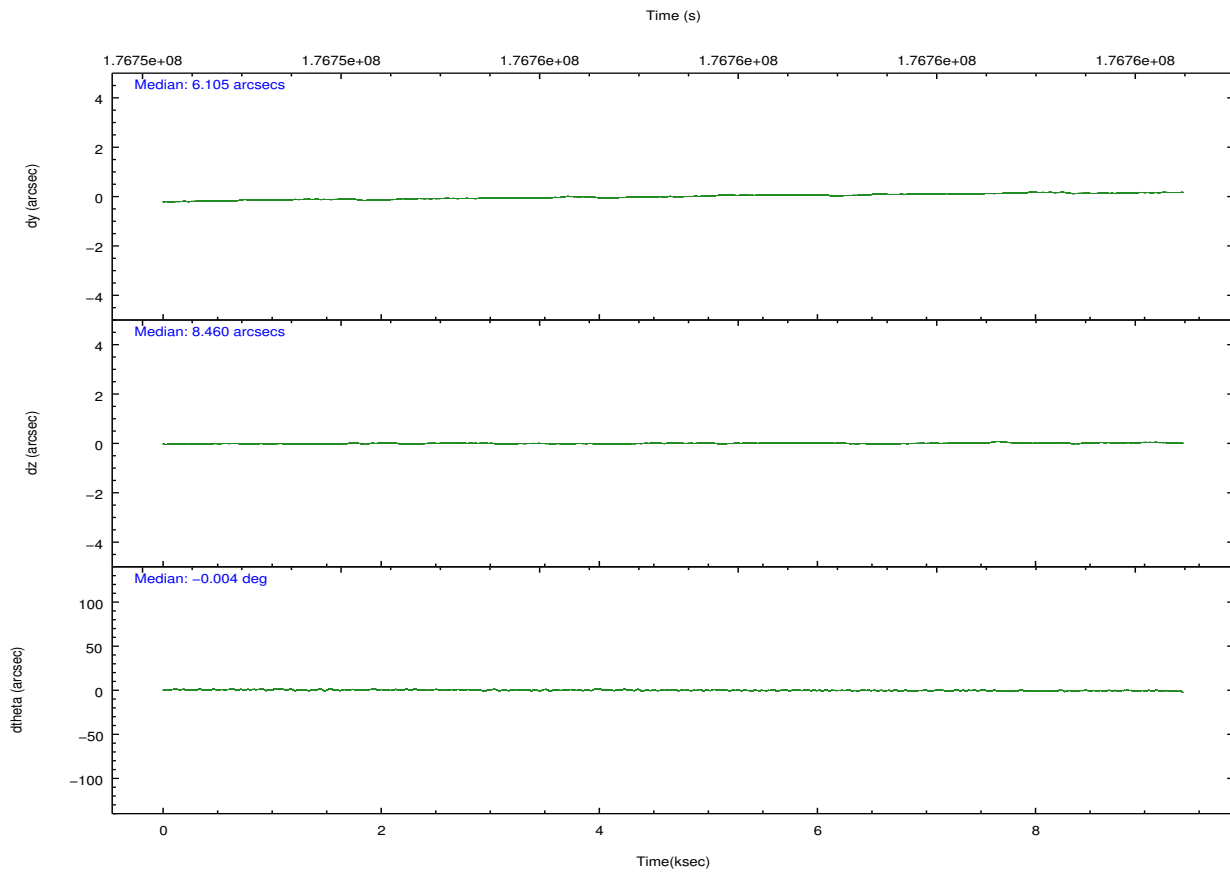
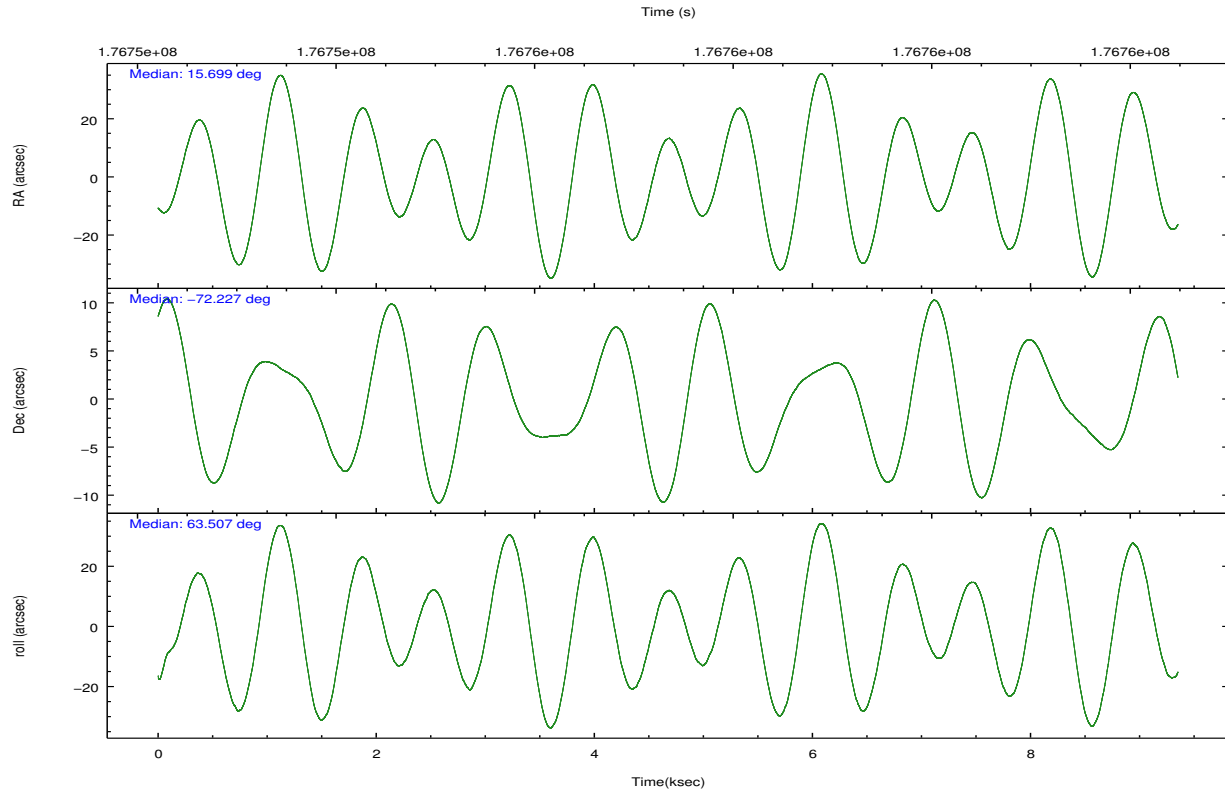
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	40992	42400	96399	38741	36319	47224	grade 0 events	1719	3225	26938	2143	1998	3712
rejected events	36895	36738	22889	33973	17989	35738		4%	7%	27%	5%	5%	7%
rejected %	90%	86%	23%	87%	49%	75%	grade 1 events	22	24	345	20	36	37
								0%	0%	0%	0%	0%	0%
							grade 2 events	871	885	20087	939	3891	2508
								2%	2%	20%	2%	10%	5%
							grade 3 events	427	447	5413	454	1824	1223
								1%	1%	5%	1%	5%	2%
							grade 4 events	424	457	5470	428	1860	1120
								1%	1%	5%	1%	5%	2%
							grade 5 events	1101	1266	4428	1308	3843	1858
								2%	2%	4%	3%	10%	3%
							grade 6 events	656	655	15640	806	8764	2924
								1%	1%	16%	2%	24%	6%
							grade 7 events	35772	35441	18078	32643	14103	33842
								87%	83%	18%	84%	38%	71%

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	15.705373	15.6986579015443	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.254565	-72.22732202173121	Alternating exposures requested	N	N
[deg] Pointing Roll	63.362841	63.51306947454587	[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	-0.684267	-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)	176754023.184000	176752477.48206			
Observation start date	2003-08-08T18:19:19	2003-08-08T17:54:37			
[s] Observation end time (MET)	176762023.184000	176762157.58247			
Observation end date	2003-08-08T20:32:39	2003-08-08T20:35:57			
Read mode	TIMED	TIMED			

2.3 Aspect



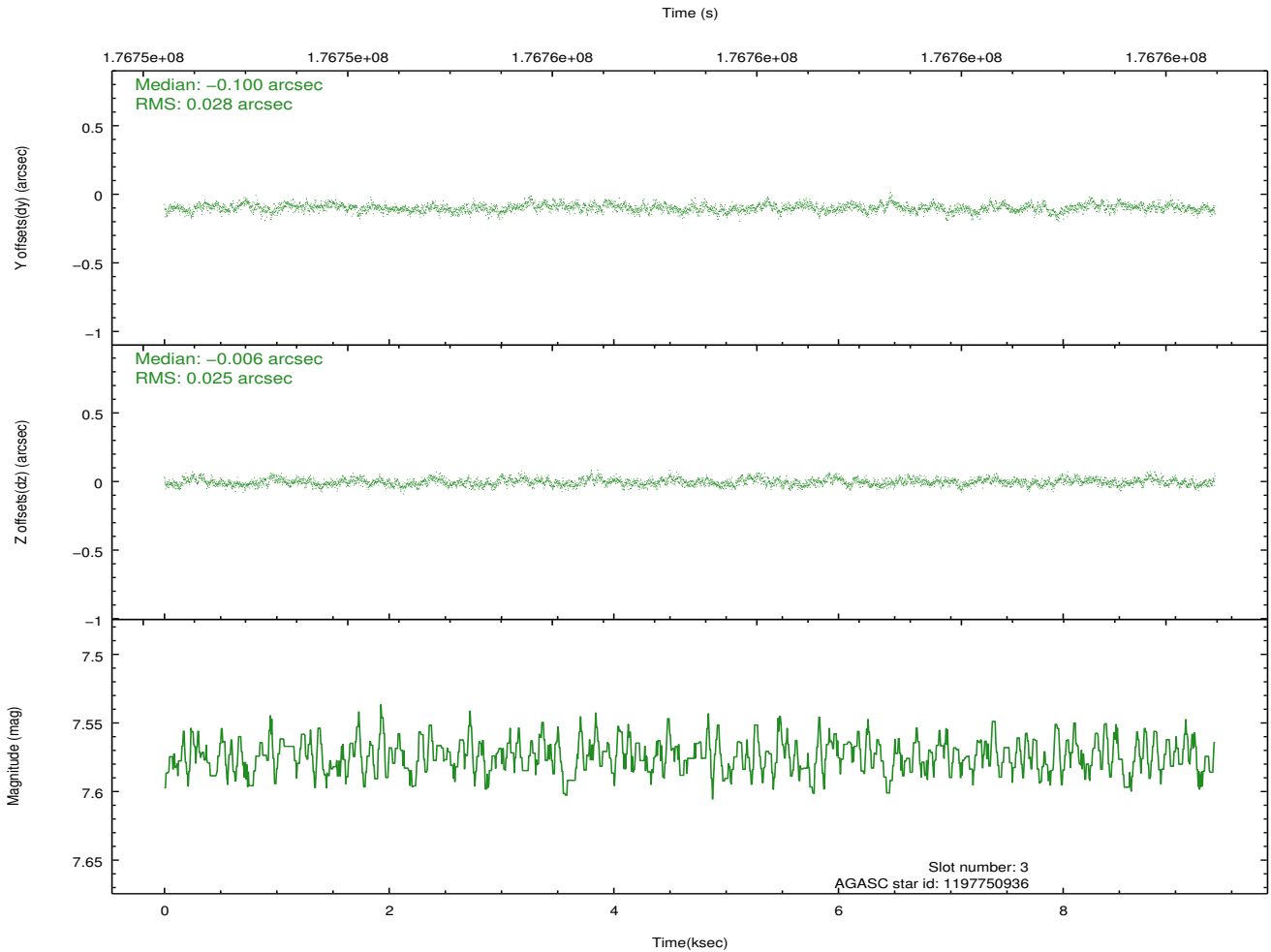
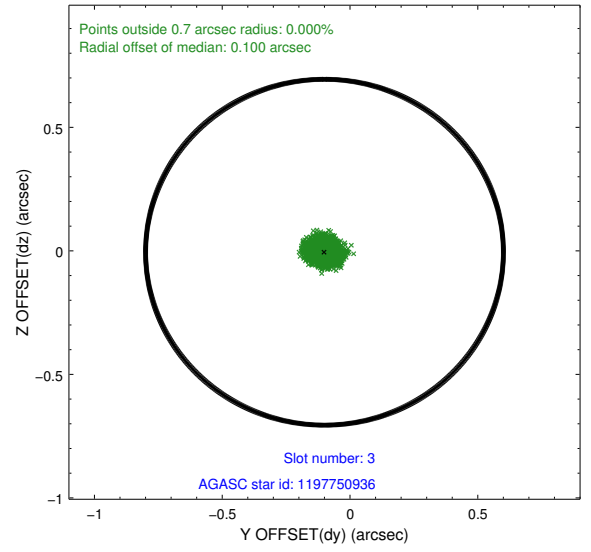
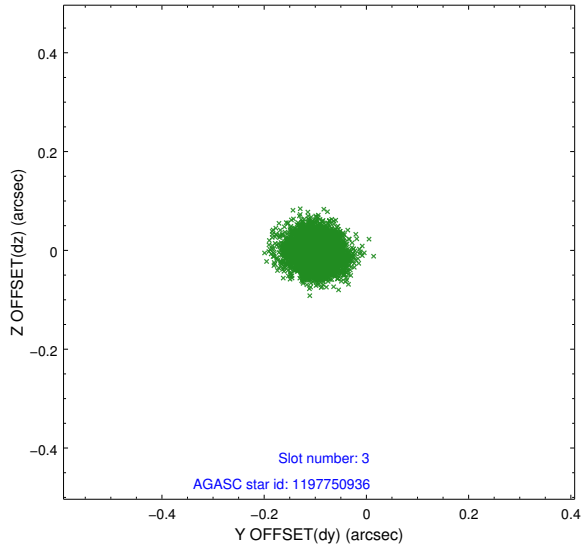


Slot Statistics

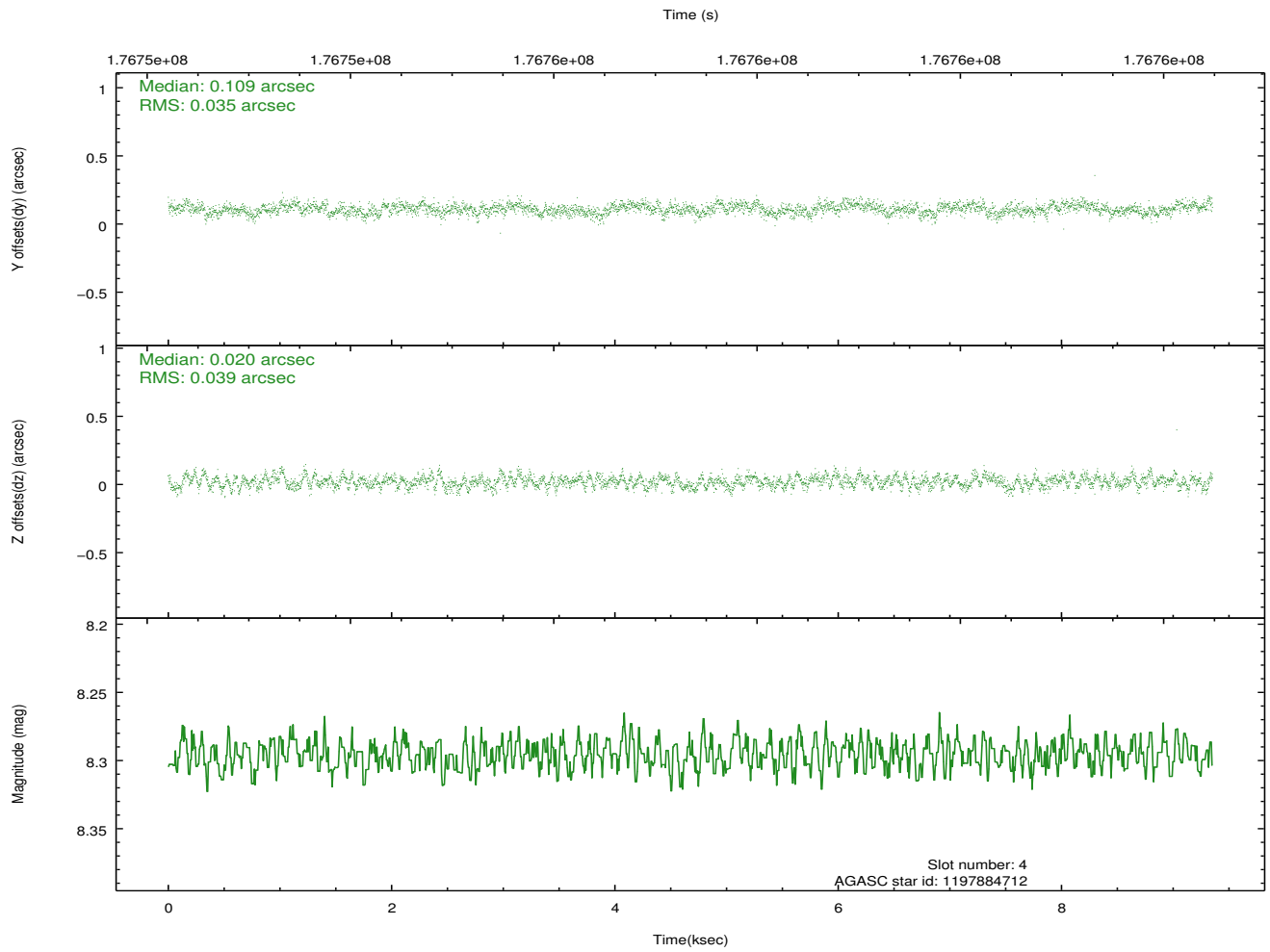
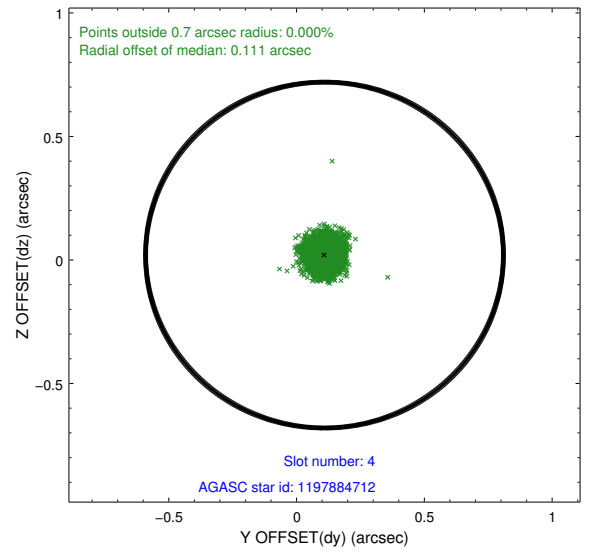
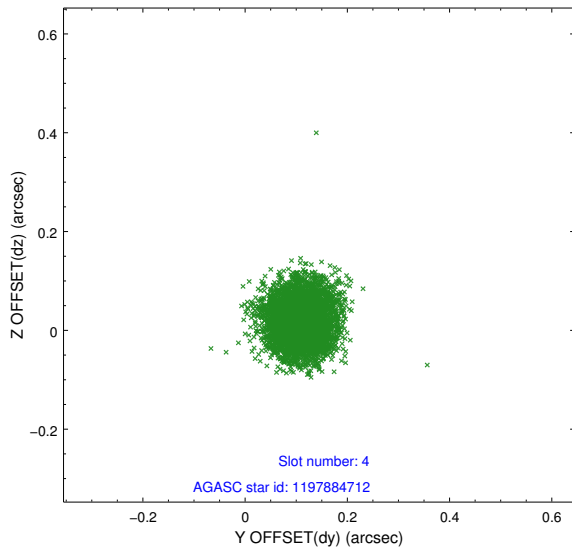
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	2281	0.043	-0.016	0.006	0.011	0.000000	0.000000	937.19	-1725.34
1	FID	ACIS-S-5	7.23	2282	-0.066	0.039	0.007	0.011	0.000000	0.000000	-1811.53	171.77
2	FID	ACIS-S-6	7.35	2281	0.002	-0.012	0.007	0.012	0.000000	0.000000	402.16	816.26
3	GUIDE	1197750936	7.57	4563	-0.100	-0.006	0.040	0.065	15.387940	-71.549550	2105.26	1460.82
4	GUIDE	1197884712	8.30	4561	0.109	0.020	0.055	0.089	16.087398	-72.252690	193.30	-372.05
5	GUIDE	1197885328	7.25	4563	-0.078	-0.126	0.044	0.072	16.283090	-71.733943	1964.95	255.85
6	GUIDE	1198189696	7.36	4563	0.009	0.074	0.048	0.074	15.223750	-72.697522	-1658.07	-255.14
7	GUIDE	1197885104	9.36	4561	0.060	0.038	0.081	0.131	17.845067	-72.189368	1228.04	-2019.14

2.4 Star Slots

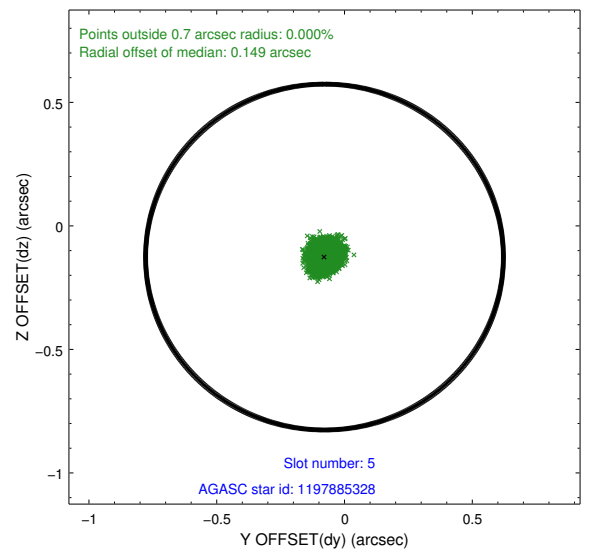
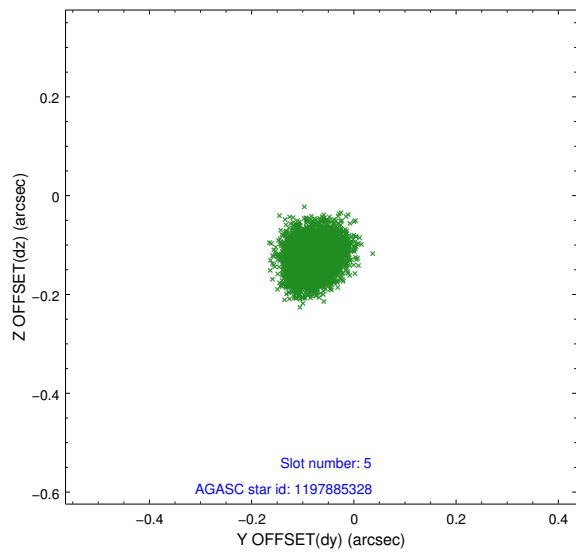
2.4.1 Slot 3



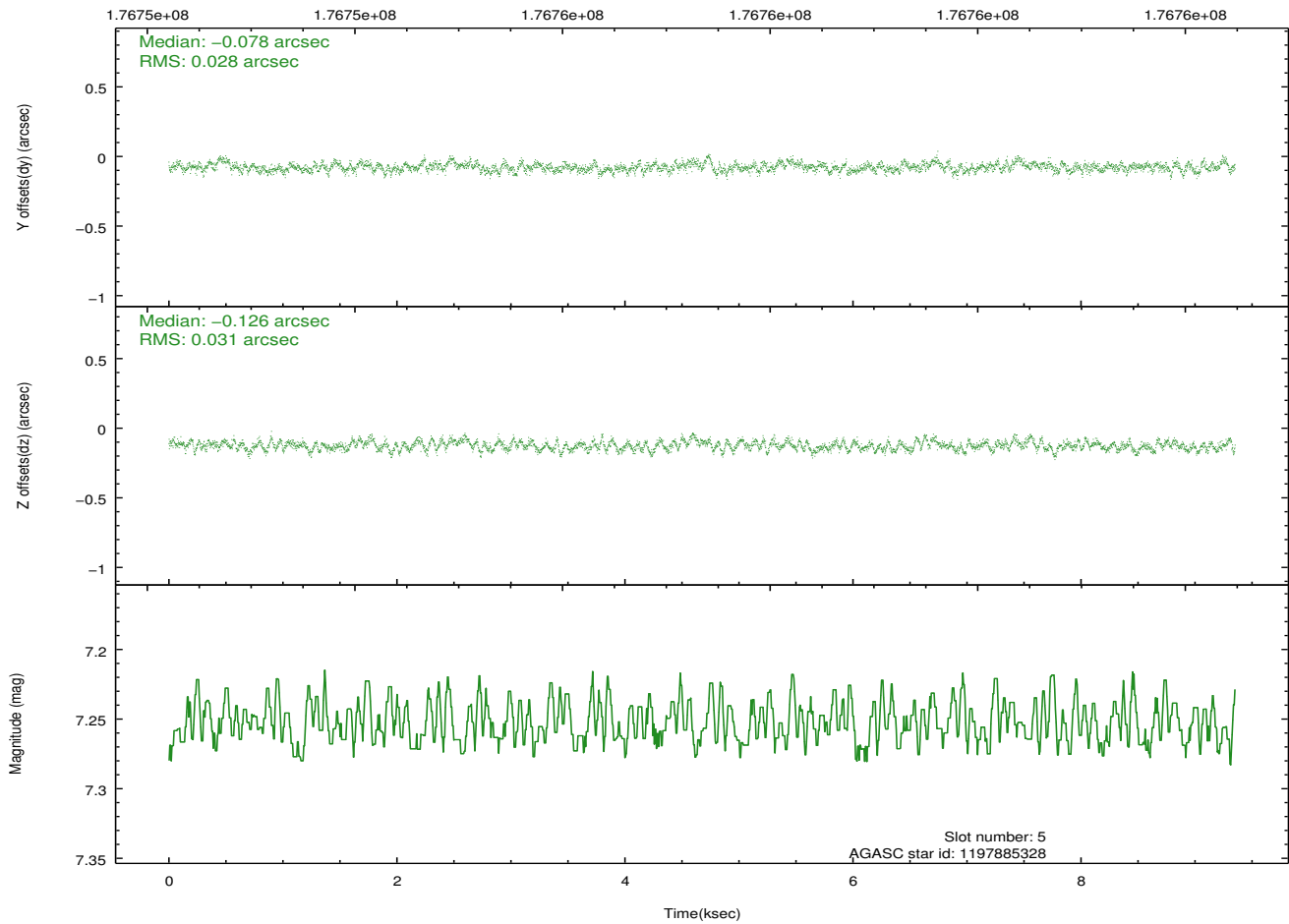
2.4.2 Slot 4



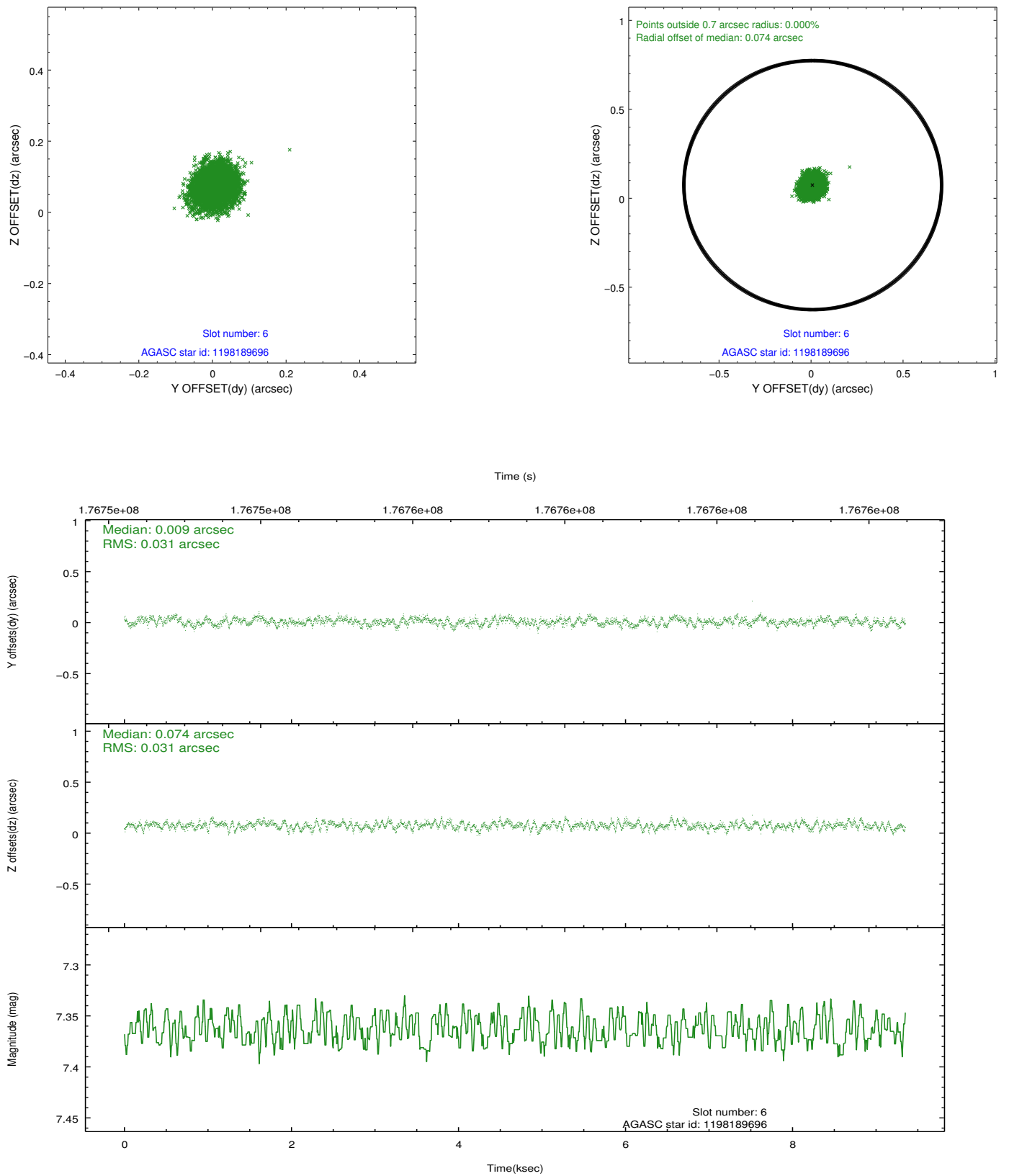
2.4.3 Slot 5



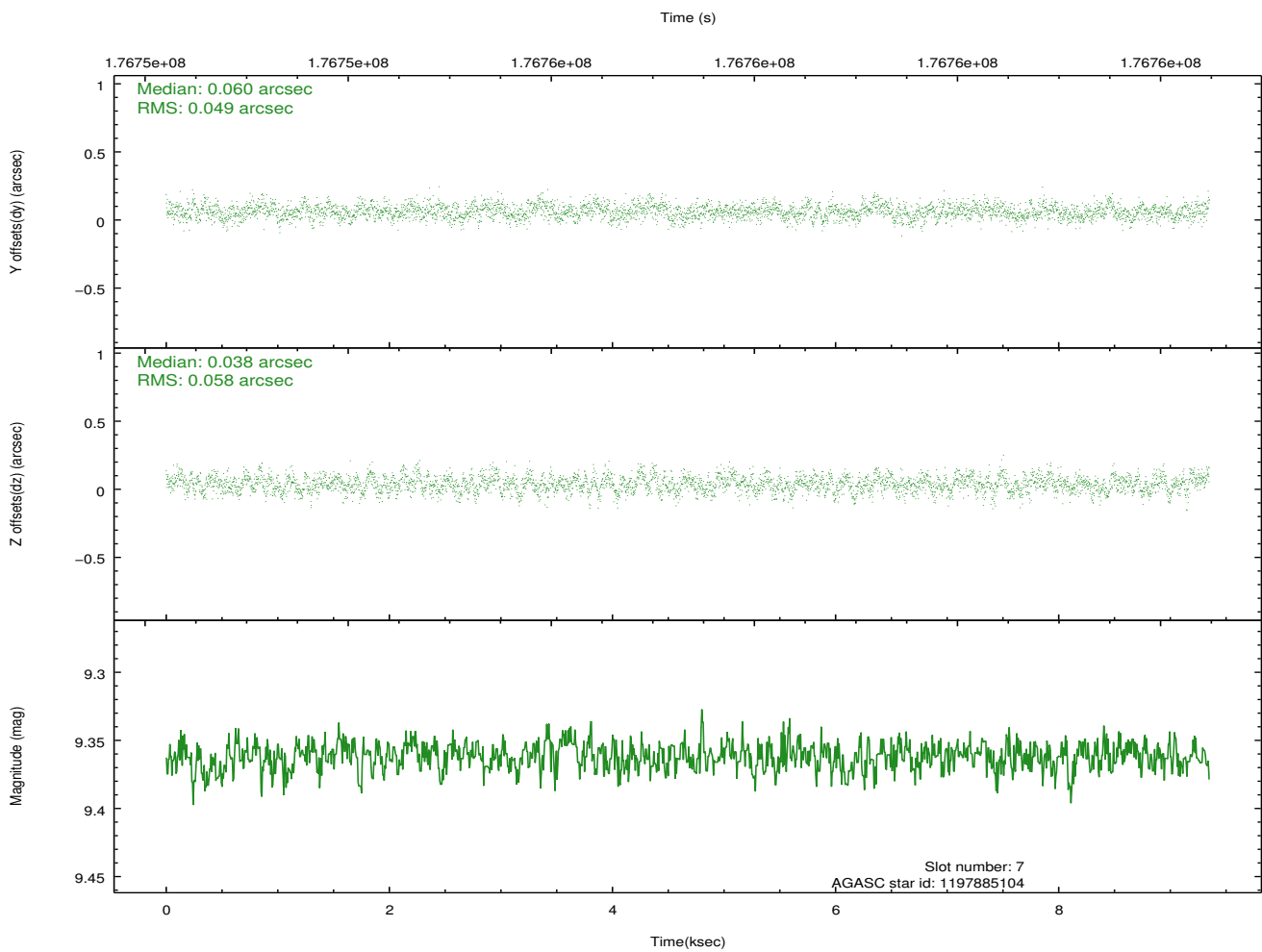
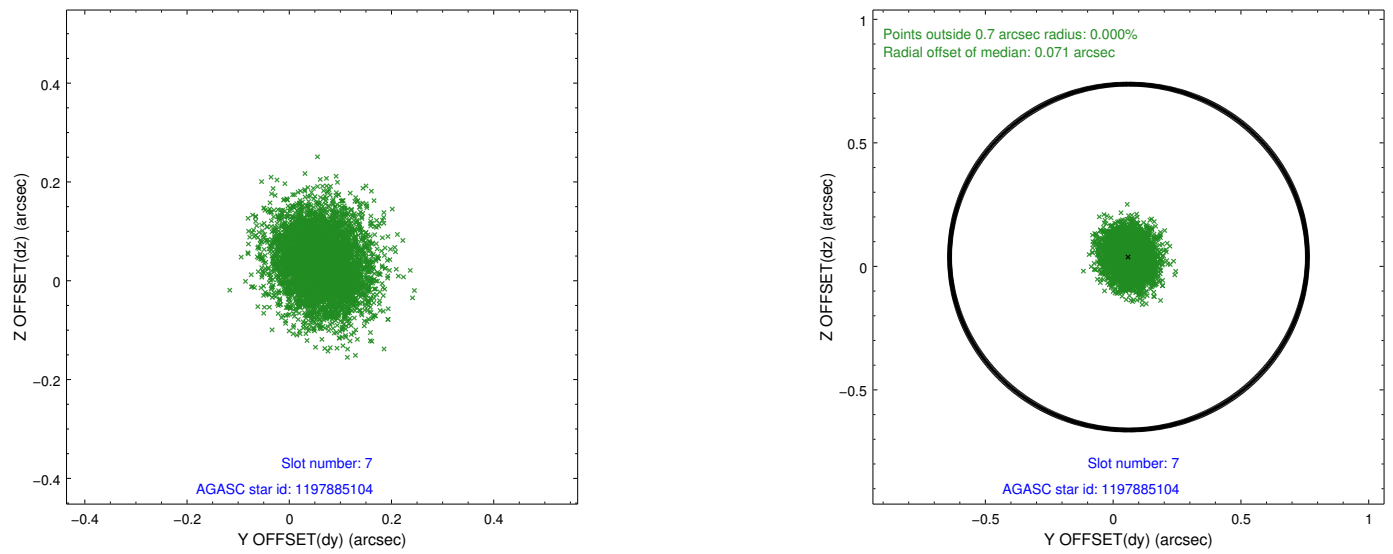
Time (s)



2.4.4 Slot 6

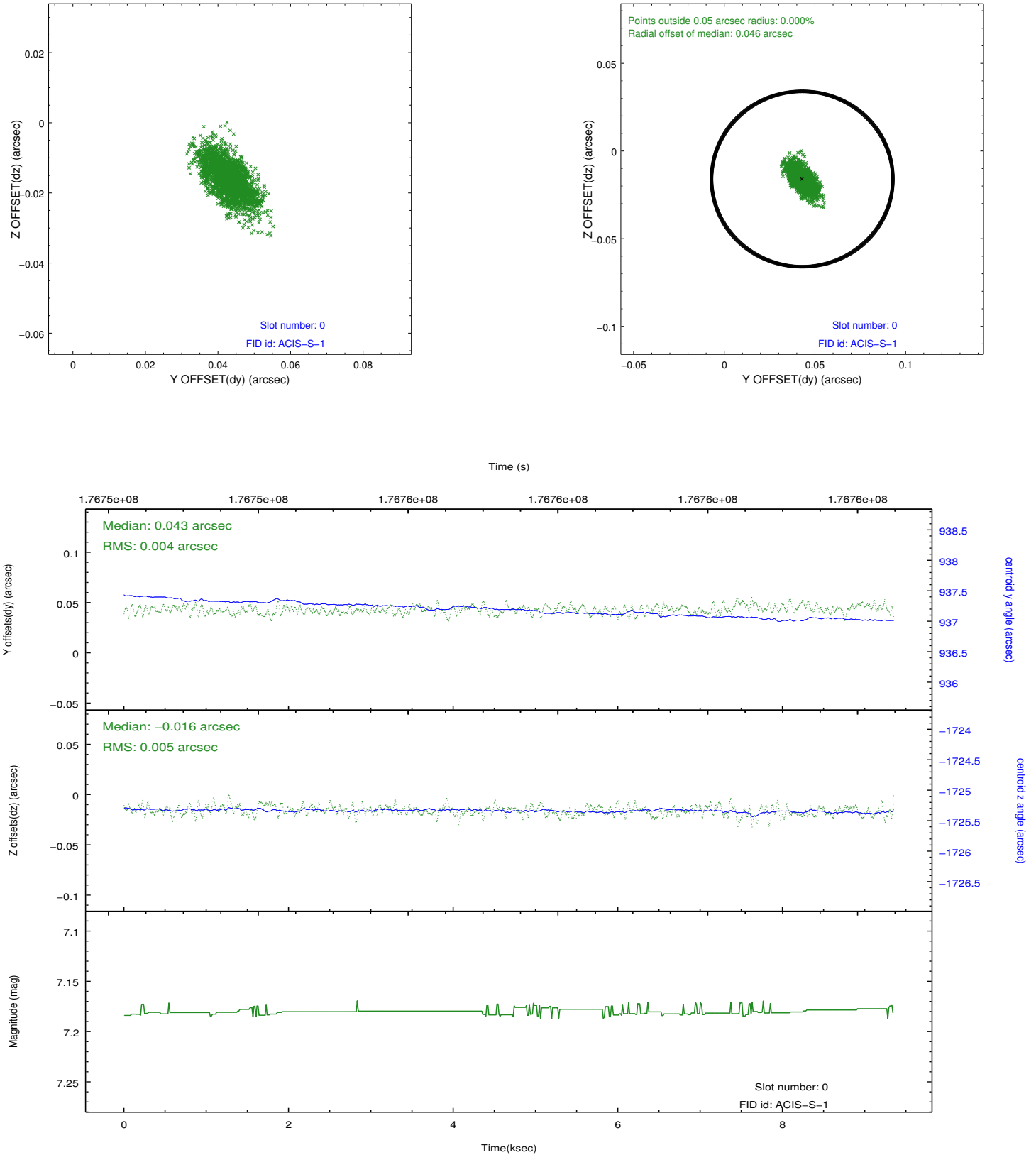


2.4.5 Slot 7

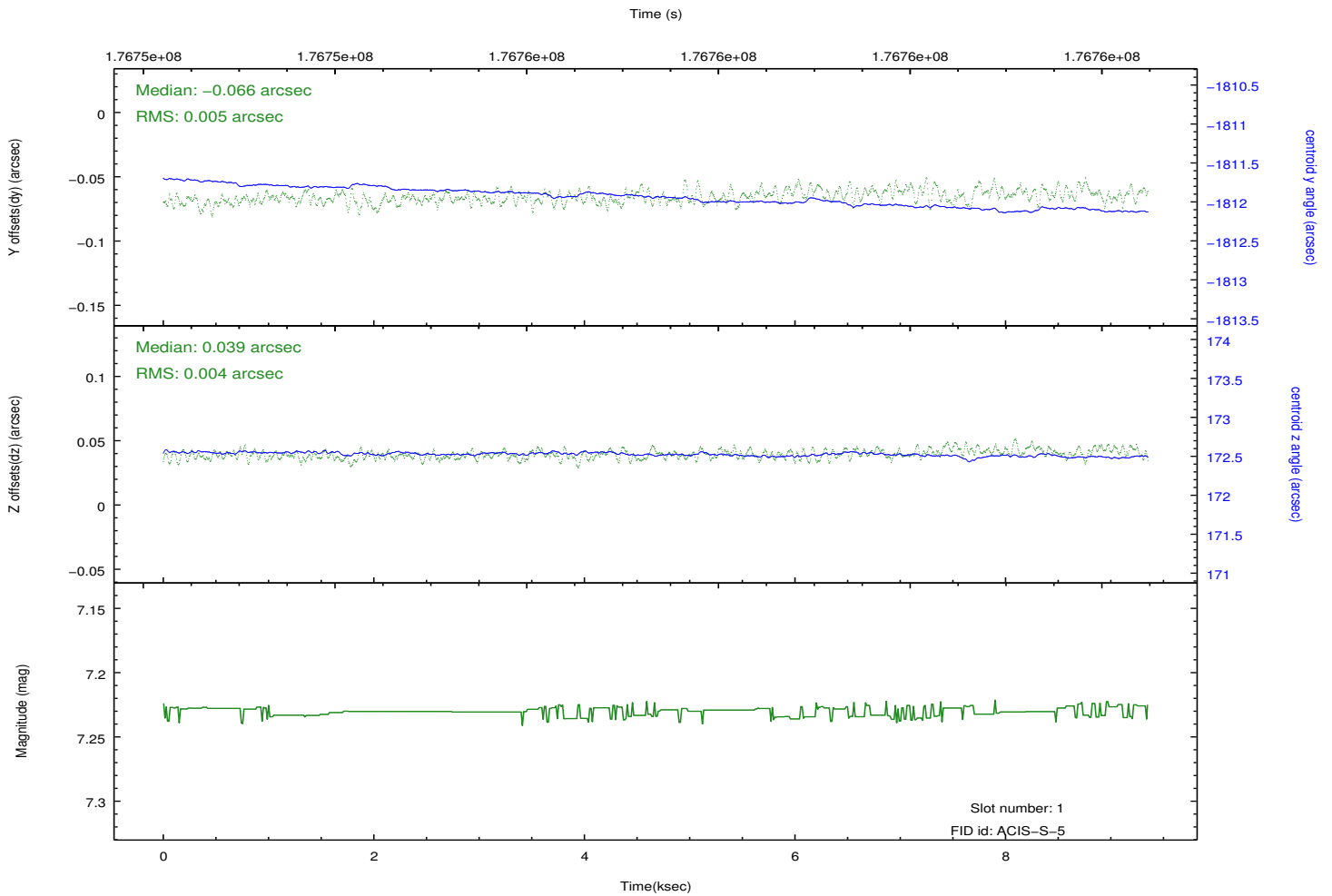
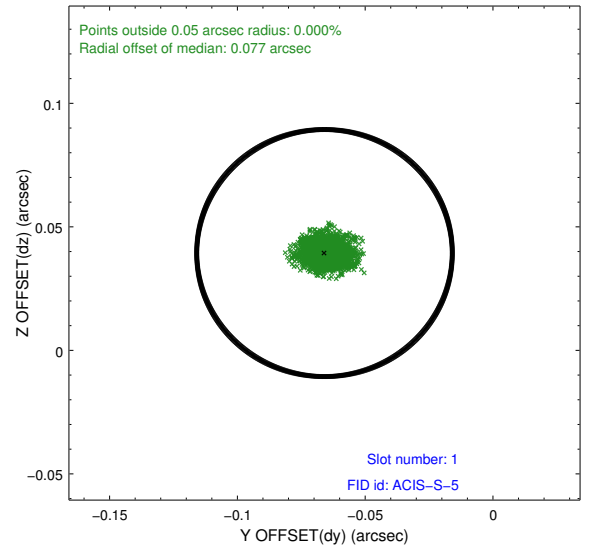
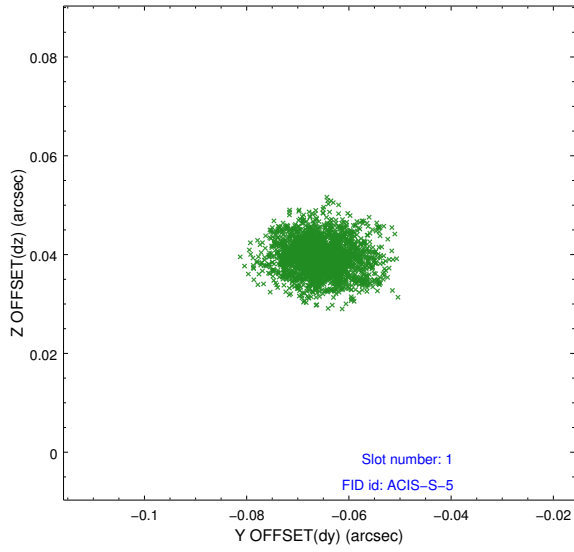


2.5 FID Slots

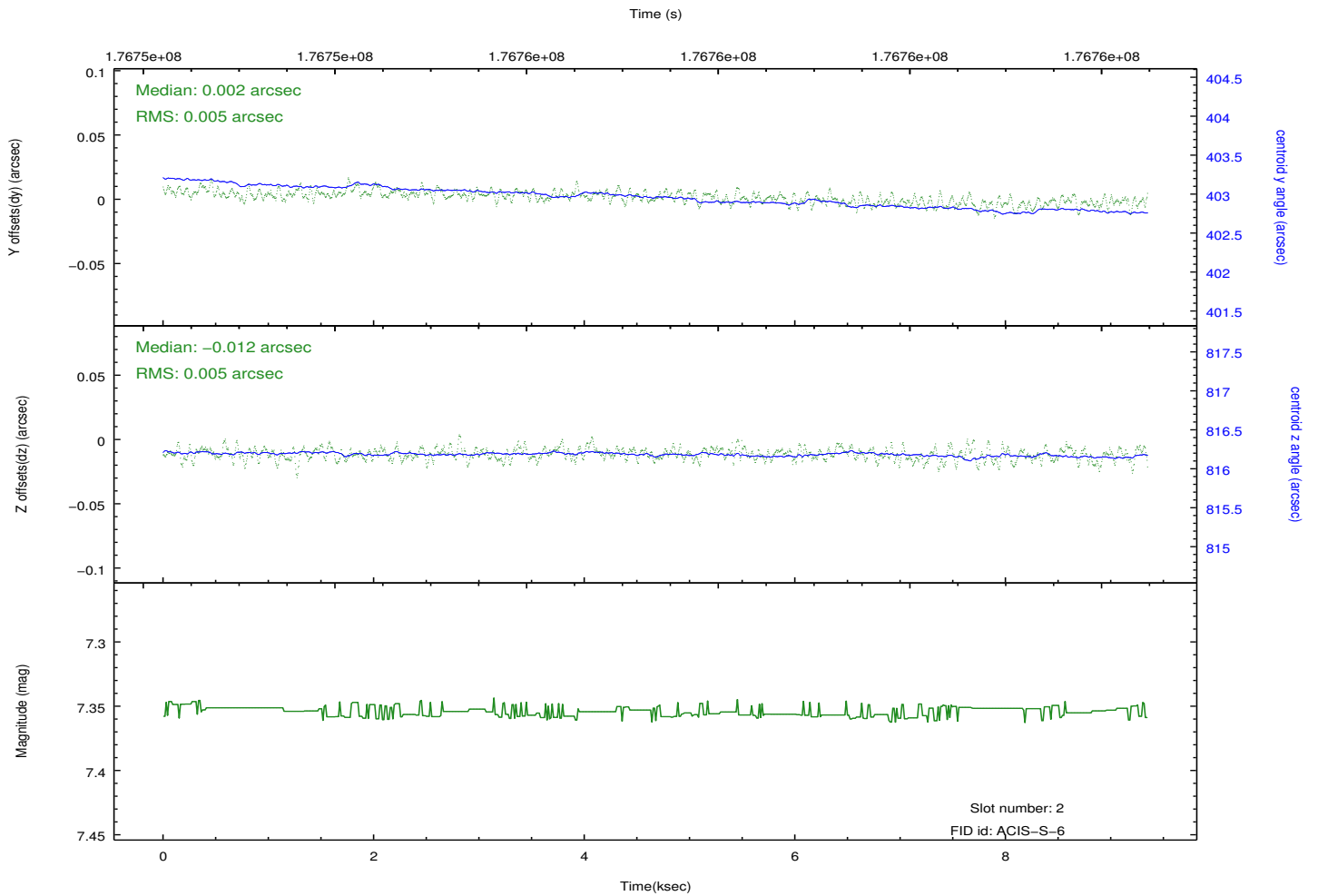
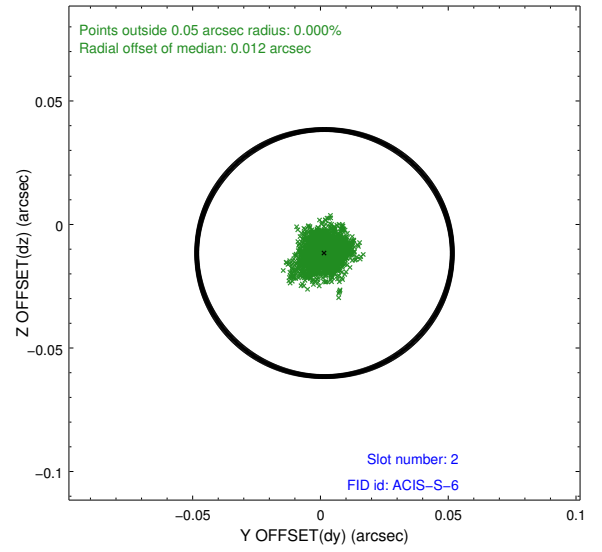
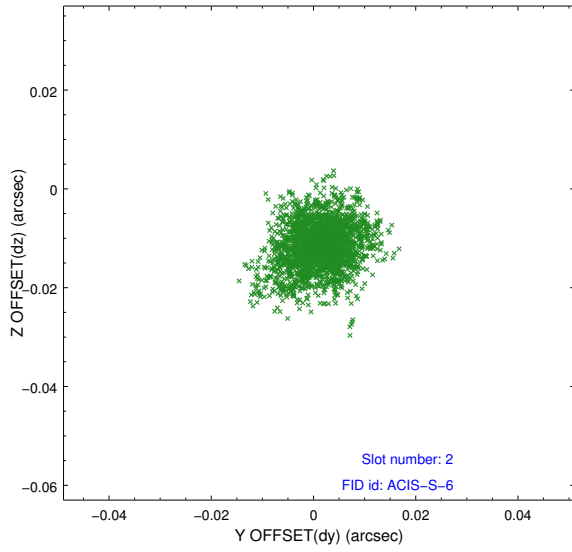
2.5.1 Slot 0



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)	2012.11.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.964

A.2 Comments

Window constraint met.