

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3538 - L2 Version 3
Chandra X-Ray Center

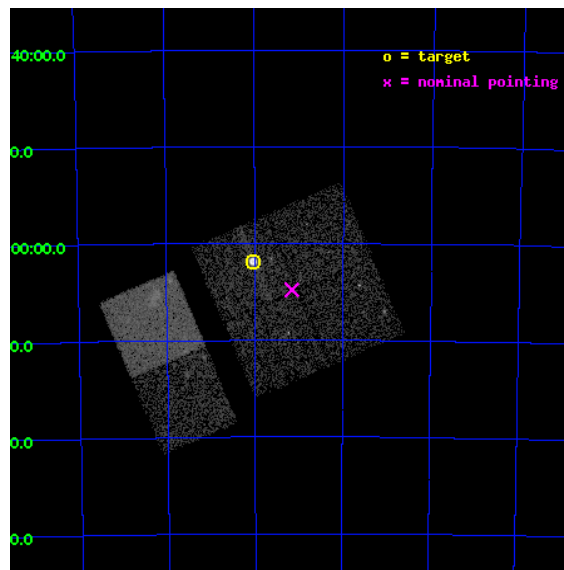
L2 Processing Date : Oct 22 2012

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1 Front

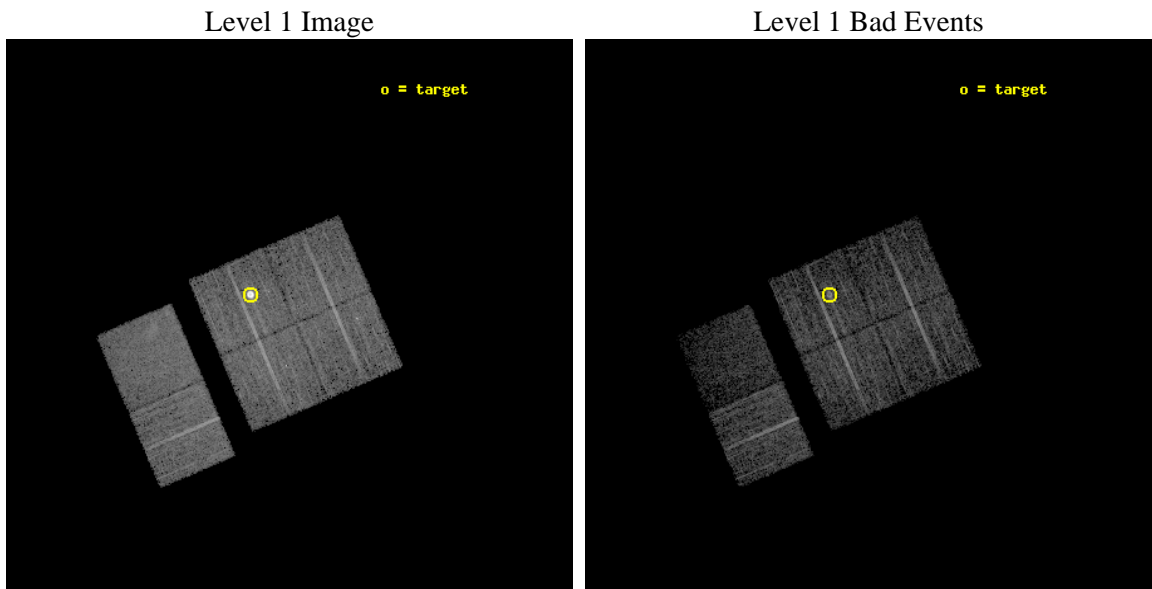
seq_num	590293	Sequence number
obs_id	3538	Observation id
title	AO4A ACIS-I CALIBRATION OBSERVATIONS OF E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[I3,-120,-4.0,2.5,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.789435136819	Nominal RA [deg]
dec_nom	-72.079987642734	Nominal Dec [deg]
roll_nom	246.83722546972	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7731.199971199	Sum of GTIs [s]
livetime	7633.302861994	Livetime [s]
ontime0	7731.199971199	Sum of GTIs [s]
ontime1	7731.199971199	Sum of GTIs [s]
ontime2	7727.9590109289	Sum of GTIs [s]
ontime3	7731.199971199	Sum of GTIs [s]
ontime6	7731.199971199	Sum of GTIs [s]
ontime7	7731.199971199	Sum of GTIs [s]
l2events	59180	Number of level 2 events



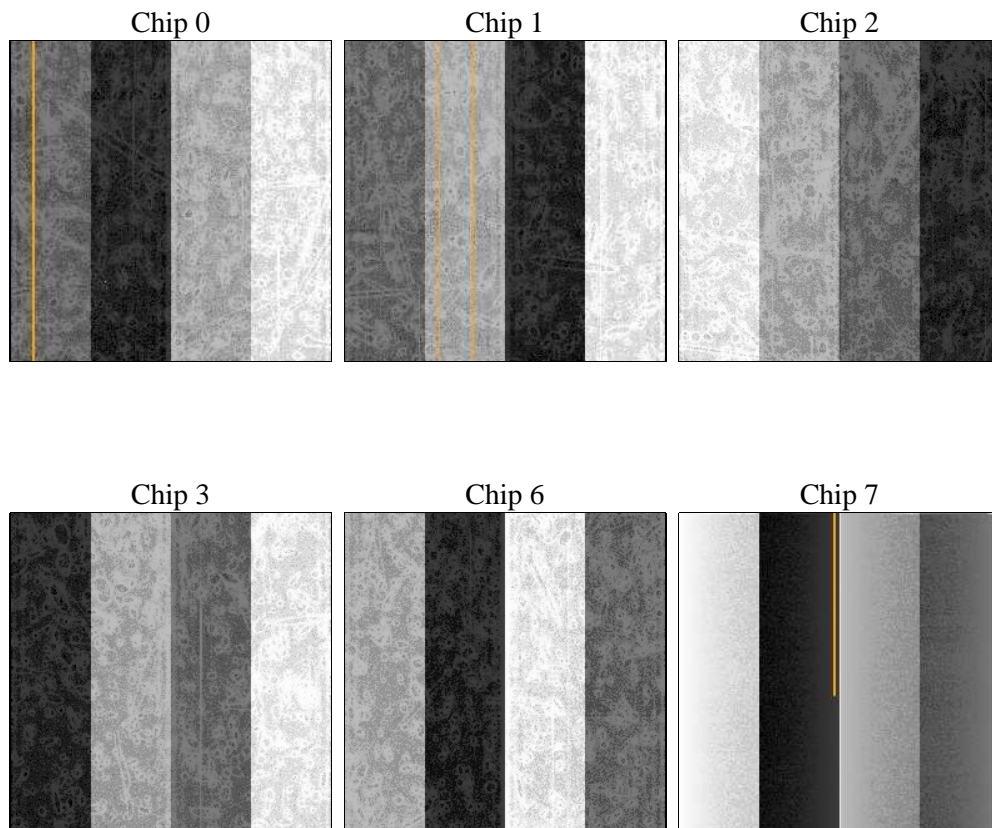
2 OBI

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	7731.199971199	Sum of GTIs [s]
caldsver	4.5.2	 	ontime0	7731.199971199	Sum of GTIs [s]
date	2012-10-22T04:02:04	Date and time of file creation	ontime1	7731.199971199	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	7727.9590109289	Sum of GTIs [s]
			ontime3	7731.199971199	Sum of GTIs [s]
			ontime6	7731.199971199	Sum of GTIs [s]
			ontime7	7731.199971199	Sum of GTIs [s]
			l1events	244226	Number of level 1 events

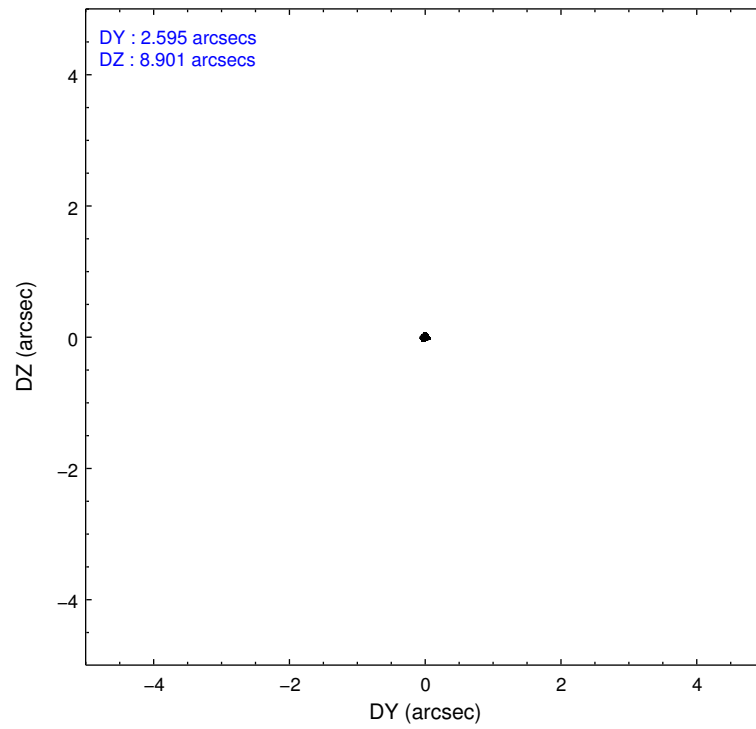
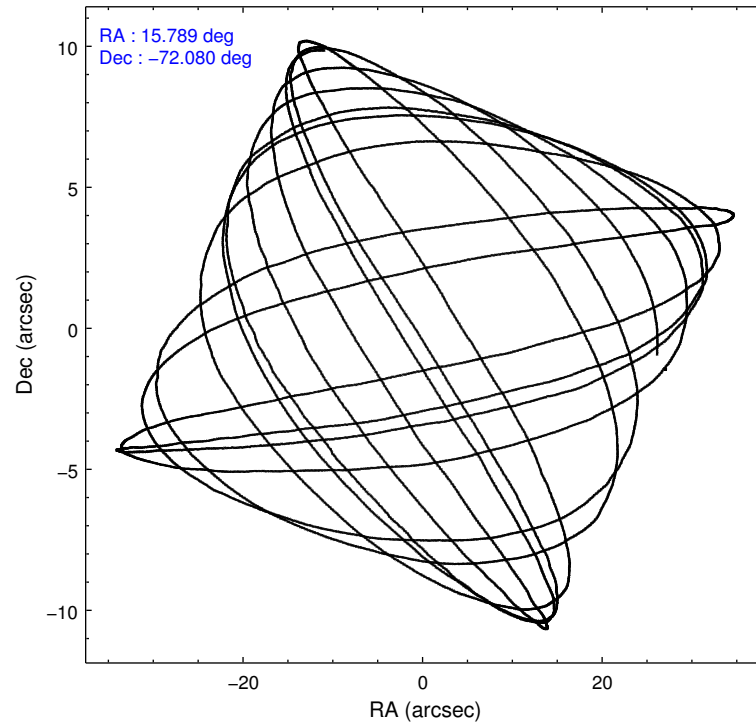
2.1.4 Events

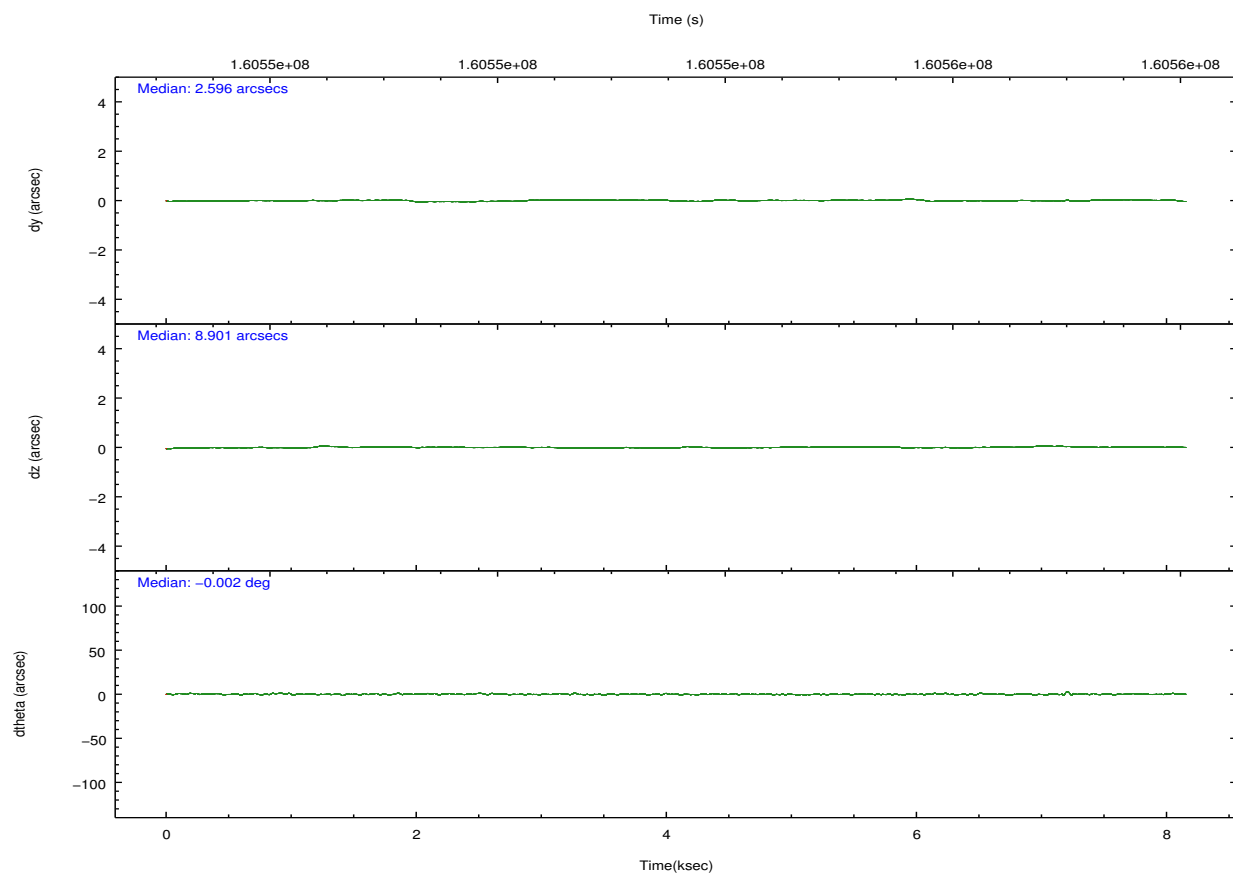
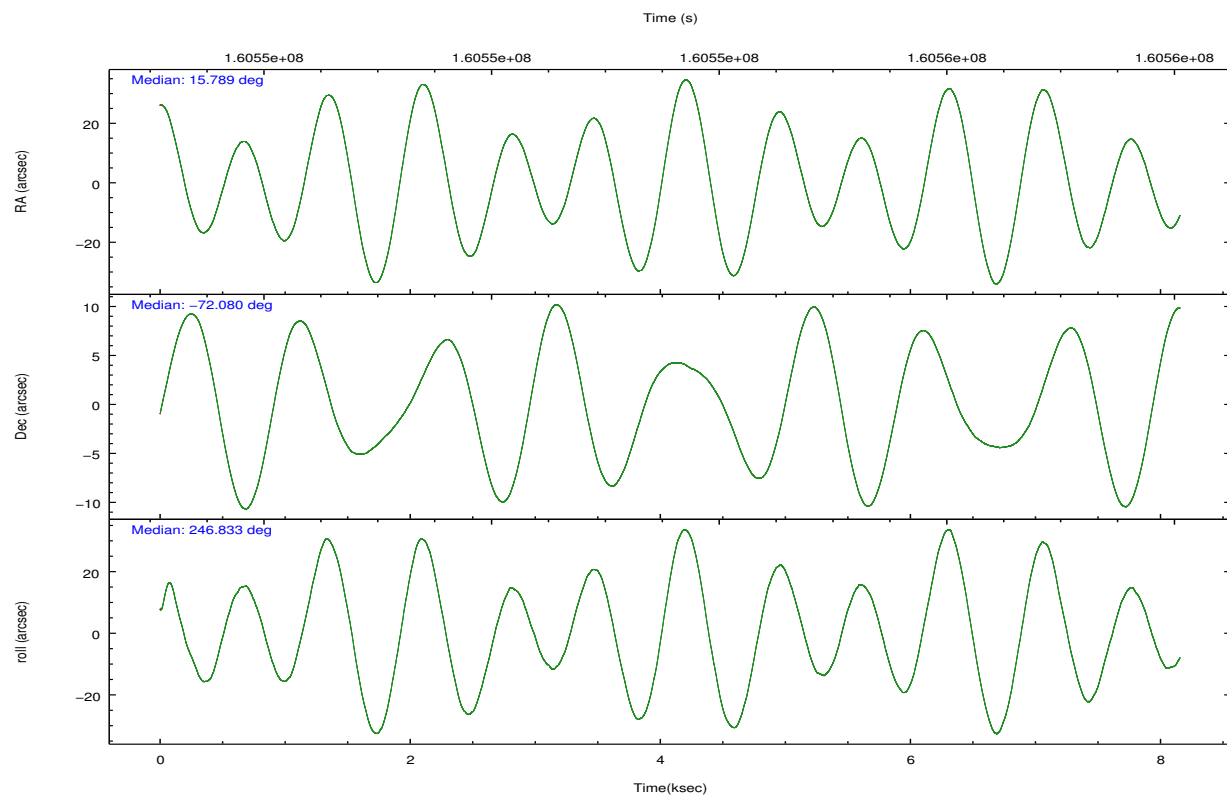
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	35358	33122	38877	62587	38414	35868	grade 0 events	1710	1684	2015	23966	1739	2240
rejected events	31261	28875	34539	33615	34127	17259		4%	5%	5%	38%	4%	6%
rejected %	88%	87%	88%	53%	88%	48%	grade 1 events	12	20	30	239	13	35
								0%	0%	0%	0%	0%	0%
							grade 2 events	838	863	855	2600	852	4073
								2%	2%	2%	4%	2%	11%
							grade 3 events	479	448	415	784	470	1795
								1%	1%	1%	1%	1%	5%
							grade 4 events	404	462	440	855	438	1814
								1%	1%	1%	1%	1%	5%
							grade 5 events	1082	1131	945	1236	1263	3790
								3%	3%	2%	1%	3%	10%
							grade 6 events	666	791	614	775	789	8696
								1%	2%	1%	1%	2%	24%
							grade 7 events	30167	27723	33563	32132	32850	13425
								85%	83%	86%	51%	85%	37%

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	15.778522	15.78943513681854	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.052872	-72.07998764273373	Alternating exposures requested	N	N
[deg] Pointing Roll	246.618183	246.8372254697243	[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	-0.782348	-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)	160549671.184000	160549295.24629			
Observation start date	2003-02-02T05:06:47	2003-02-02T05:01:35			
[s] Observation end time (MET)	160557644.184000	160557778.14664			
Observation end date	2003-02-02T07:19:40	2003-02-02T07:22:58			
Read mode	TIMED	TIMED			

2.3 Aspect



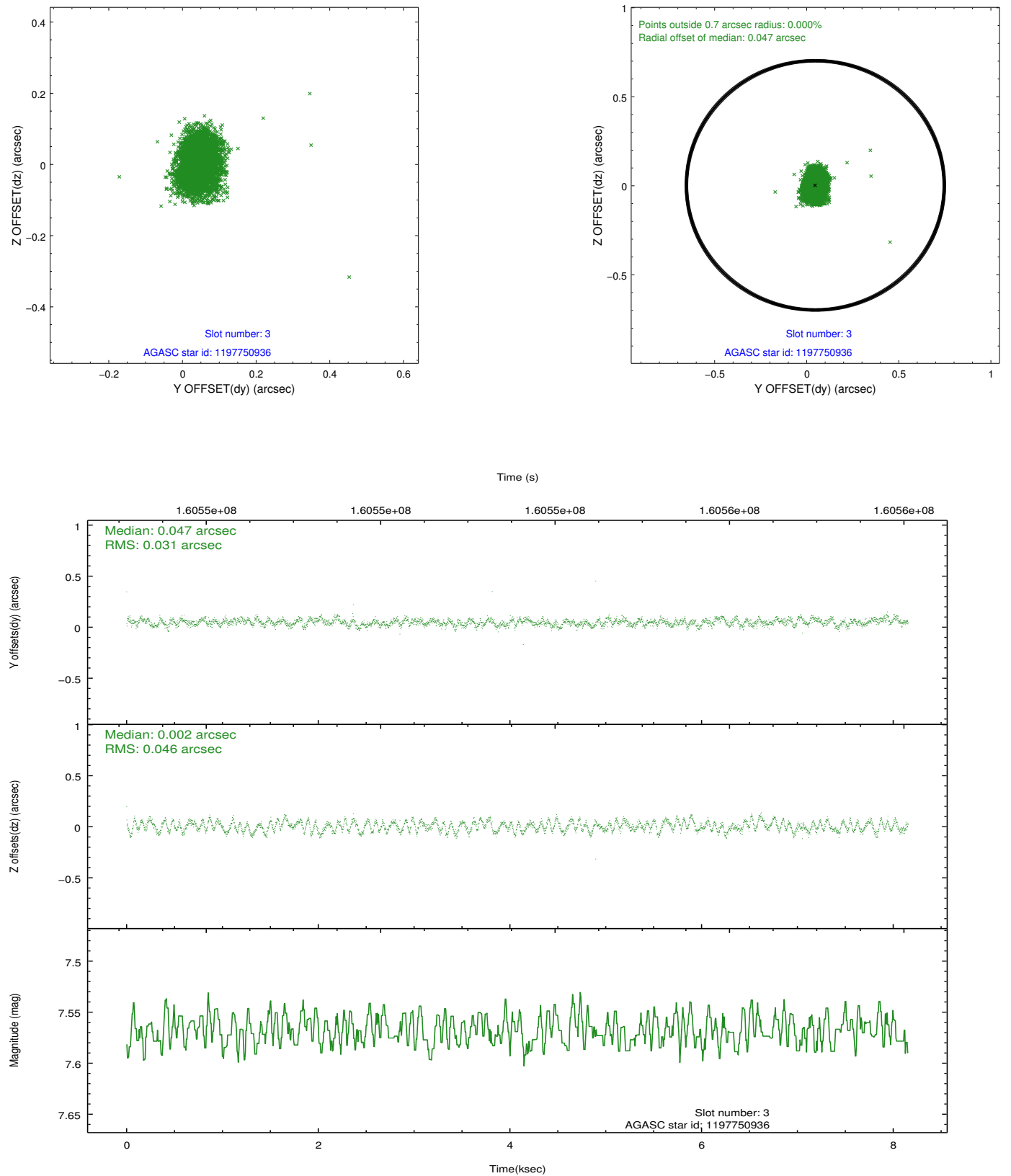


Slot Statistics

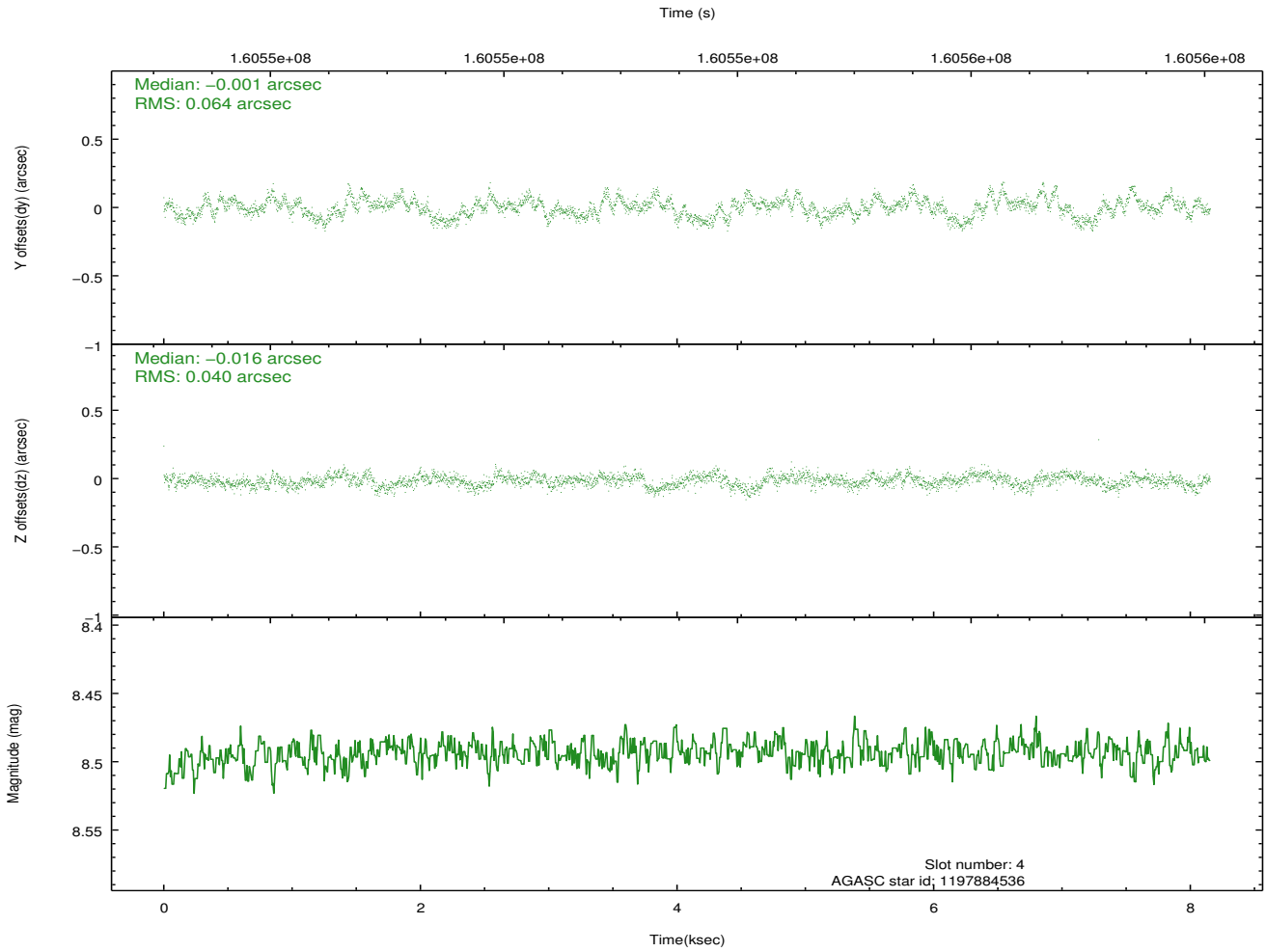
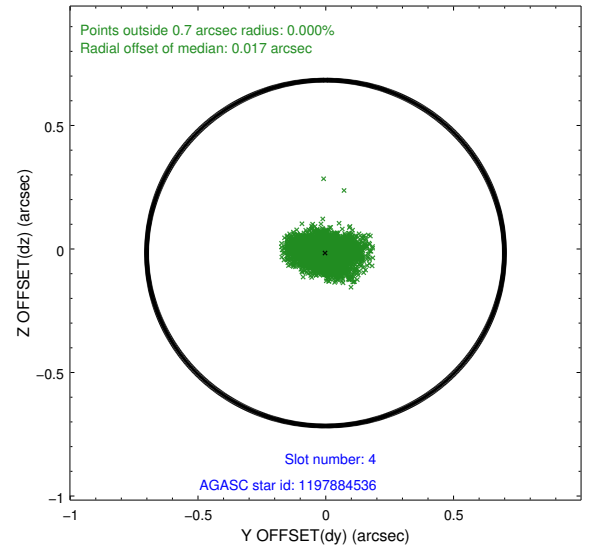
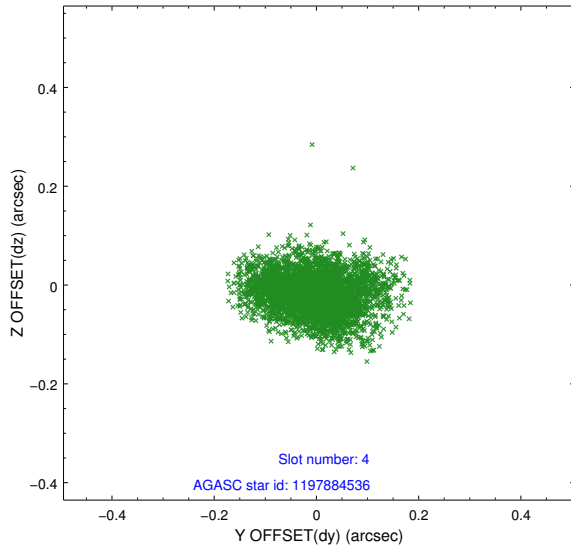
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1989	-0.033	0.066	0.006	0.011	0.000000	0.000000	937.18	-832.28
1	FID	ACIS-I-5	7.24	1988	-0.058	0.023	0.006	0.010	0.000000	0.000000	-1810.58	1064.81
2	FID	ACIS-I-6	7.26	1989	-0.001	-0.019	0.007	0.010	0.000000	0.000000	402.00	1710.07
3	GUIDE	1197750936	7.57	3976	0.047	0.002	0.059	0.091	15.387940	-71.549550	-1484.69	-1126.61
4	GUIDE	1197884536	8.49	3978	-0.001	-0.016	0.080	0.134	17.160729	-71.835289	-1318.35	1119.98
5	GUIDE	1197885104	9.38	3975	0.065	-0.142	0.103	0.163	17.845067	-72.189368	-415.90	2299.28
6	GUIDE	1197750824	10.09	3976	0.076	0.140	0.136	0.224	14.791487	-71.393477	-1720.06	-1978.04
7	GUIDE	1198189696	7.37	3978	-0.179	0.015	0.062	0.103	15.223750	-72.697522	2368.11	377.05

2.4 Star Slots

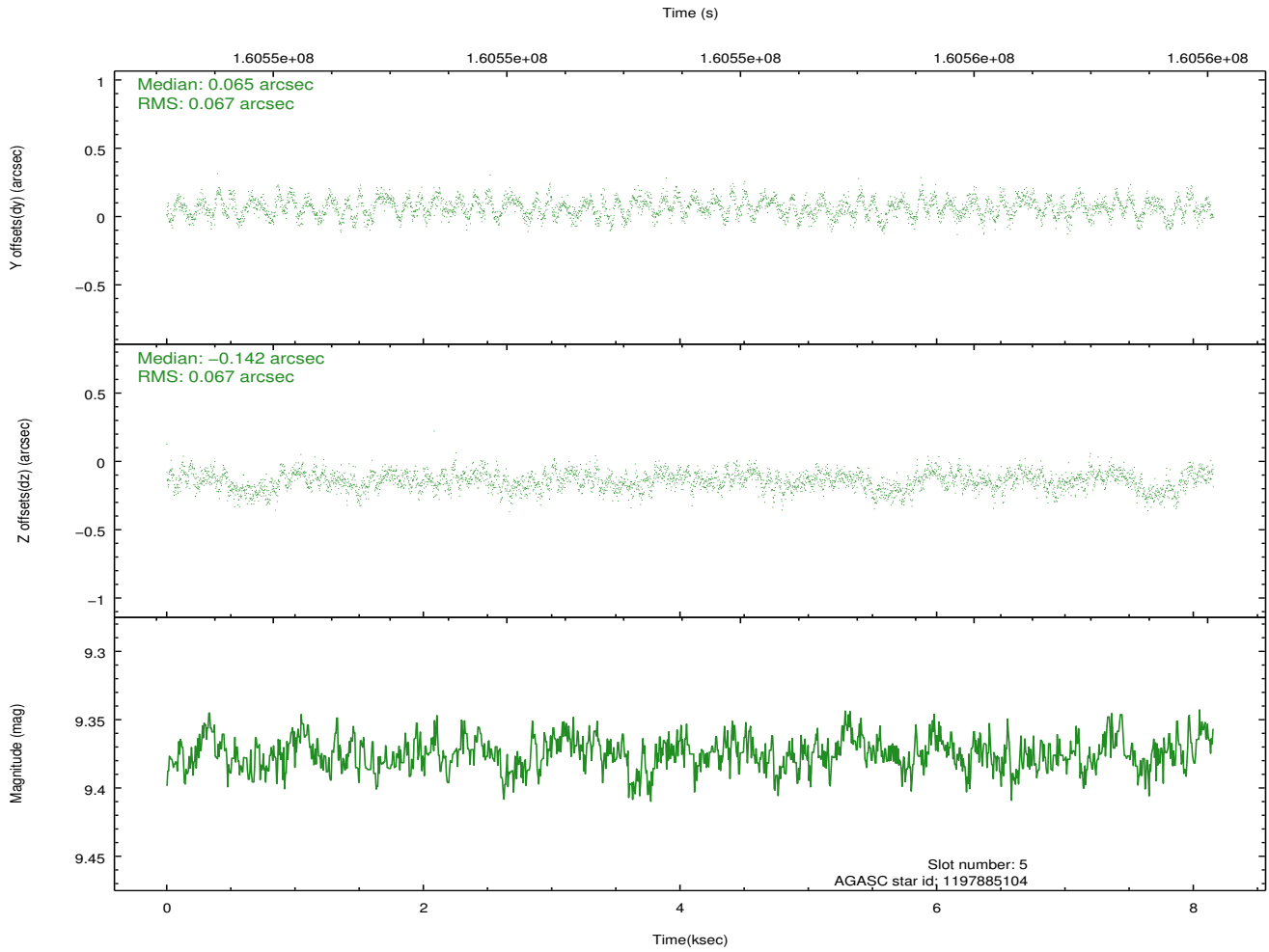
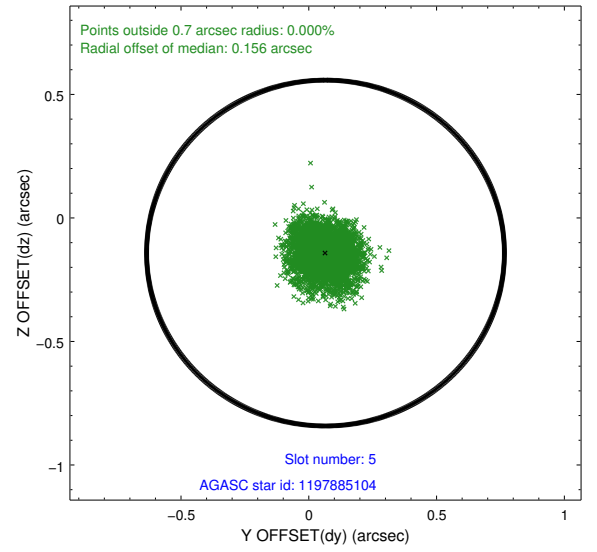
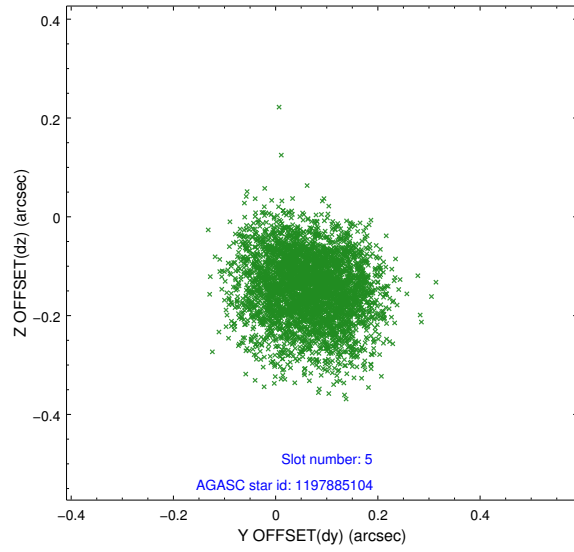
2.4.1 Slot 3



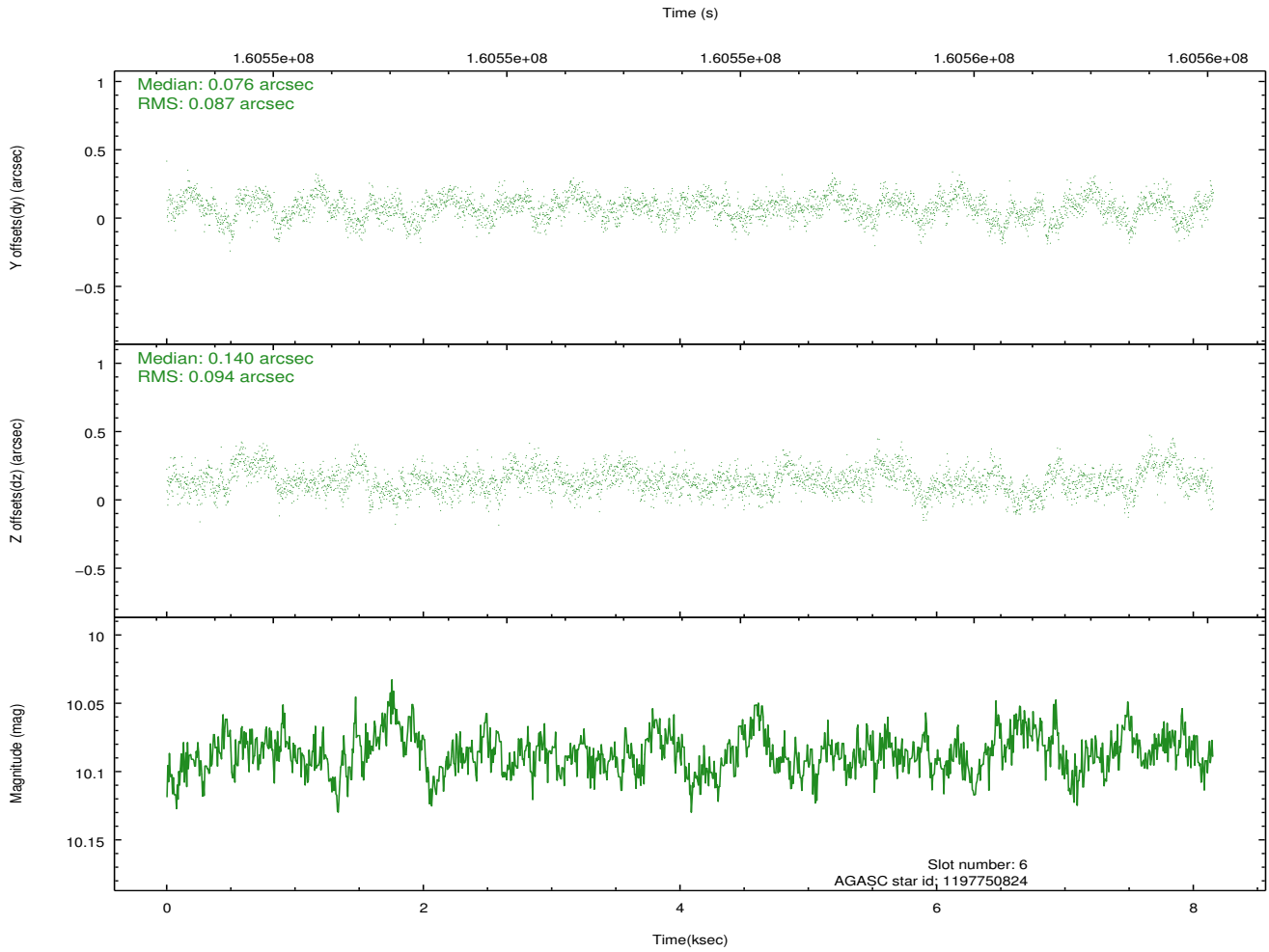
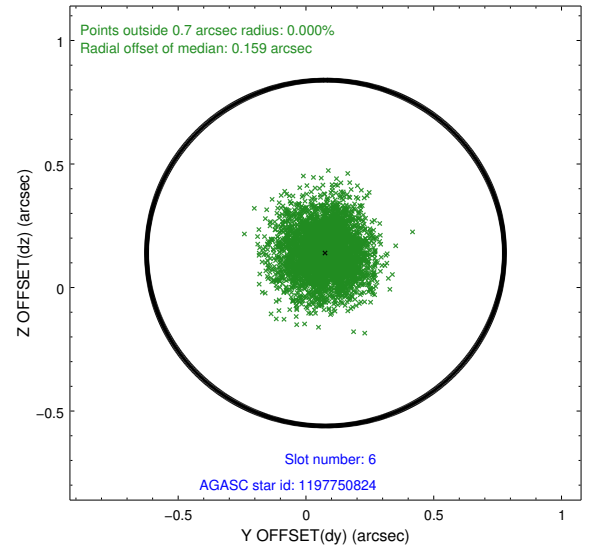
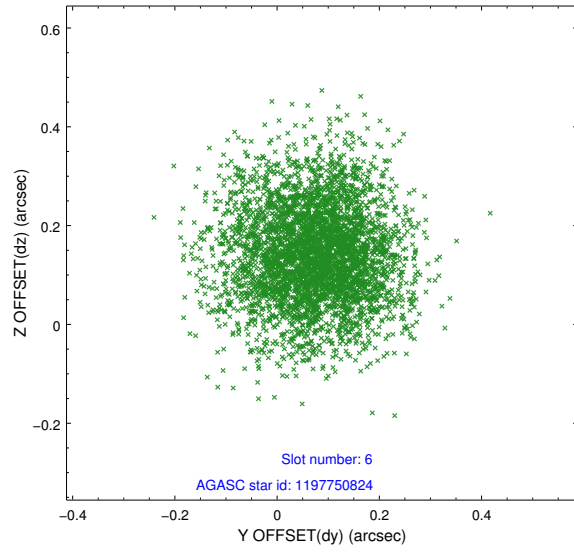
2.4.2 Slot 4



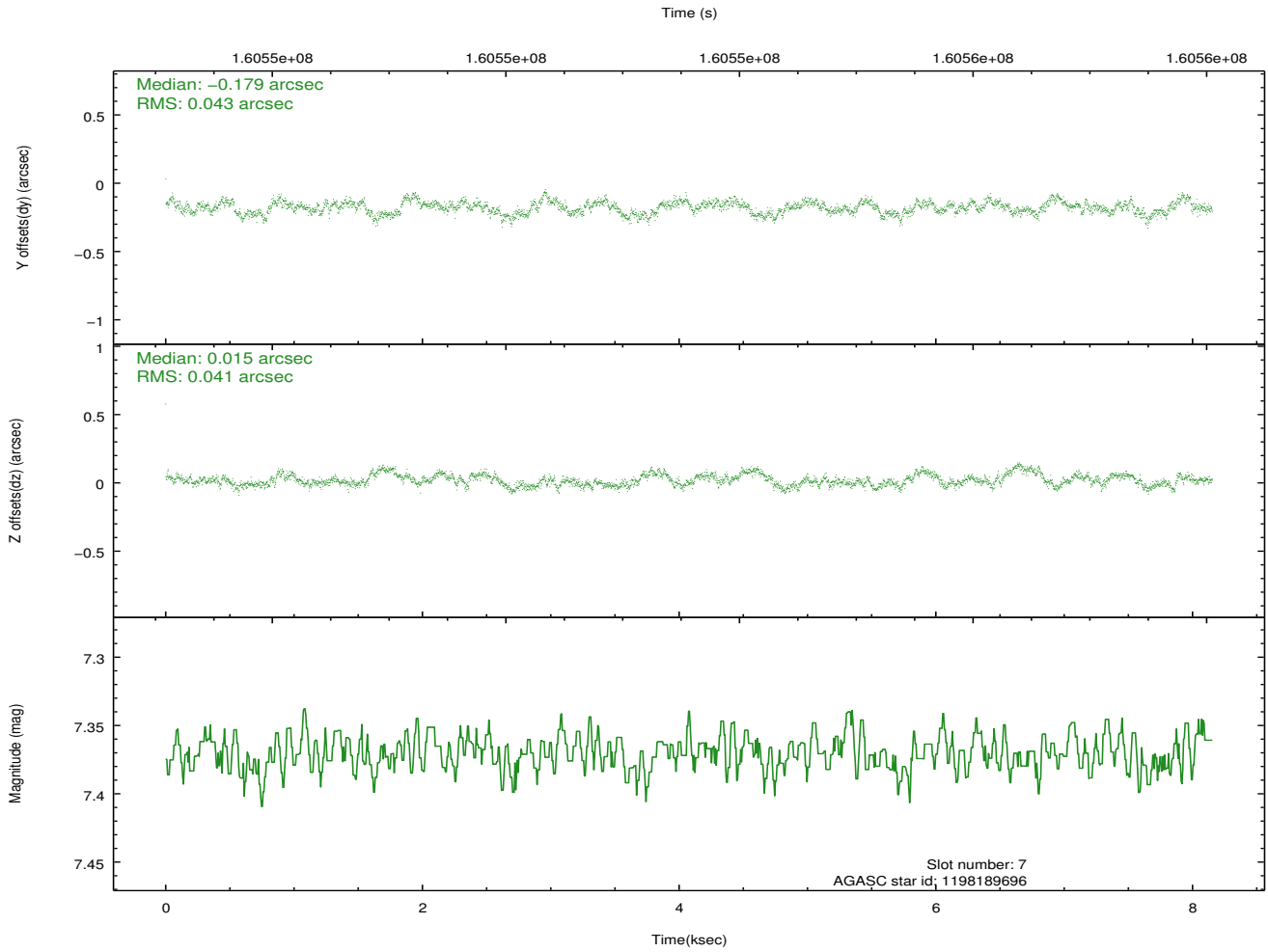
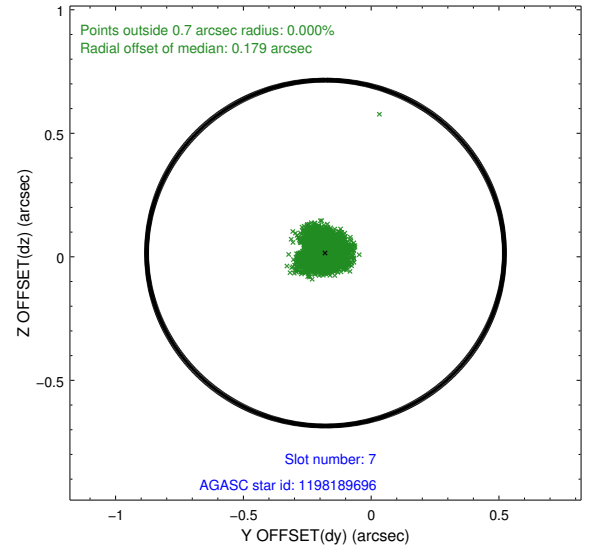
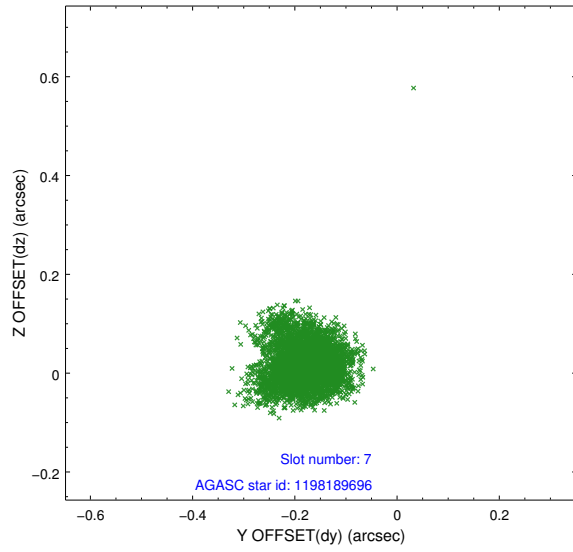
2.4.3 Slot 5



2.4.4 Slot 6

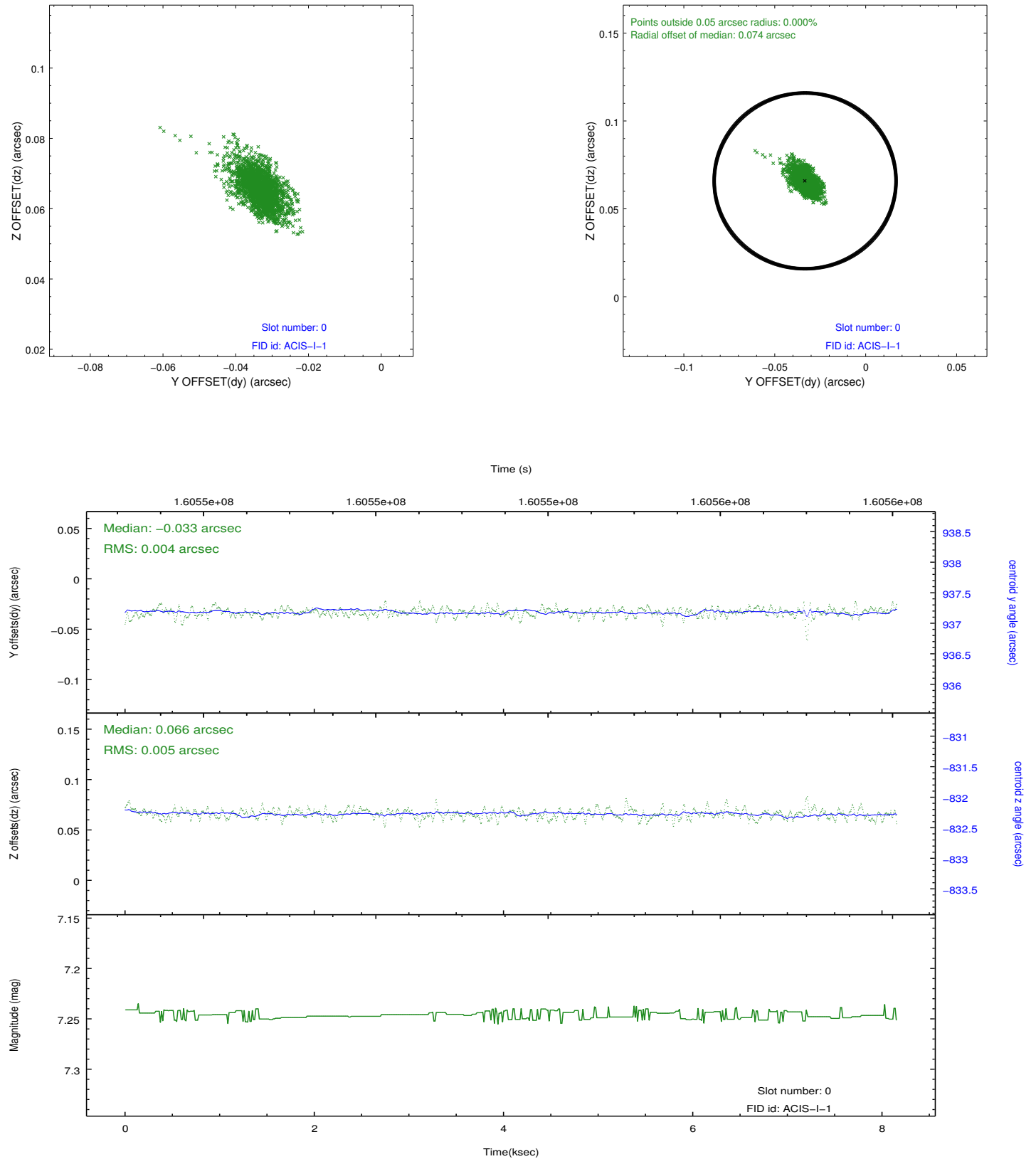


2.4.5 Slot 7

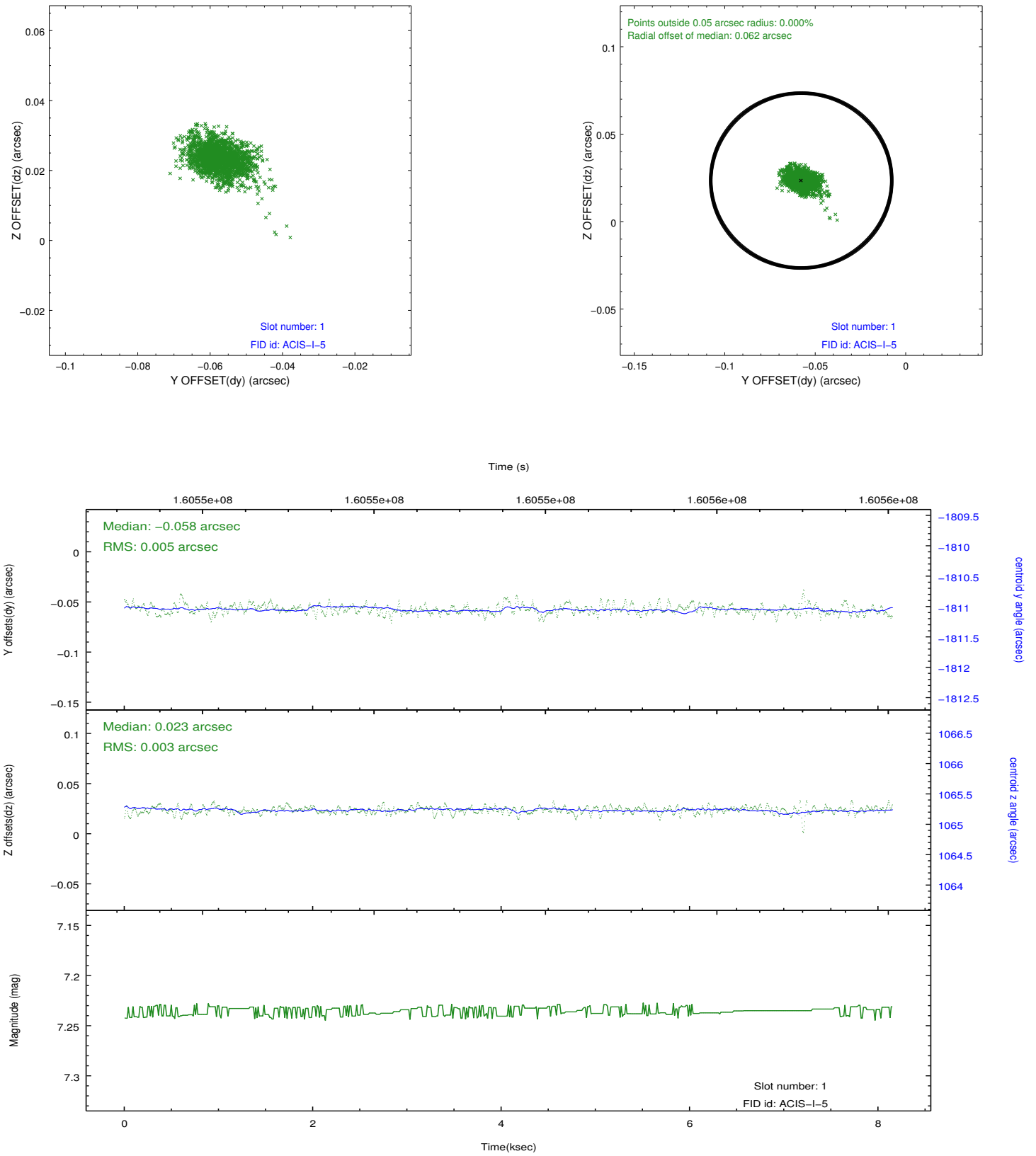


2.5 FID Slots

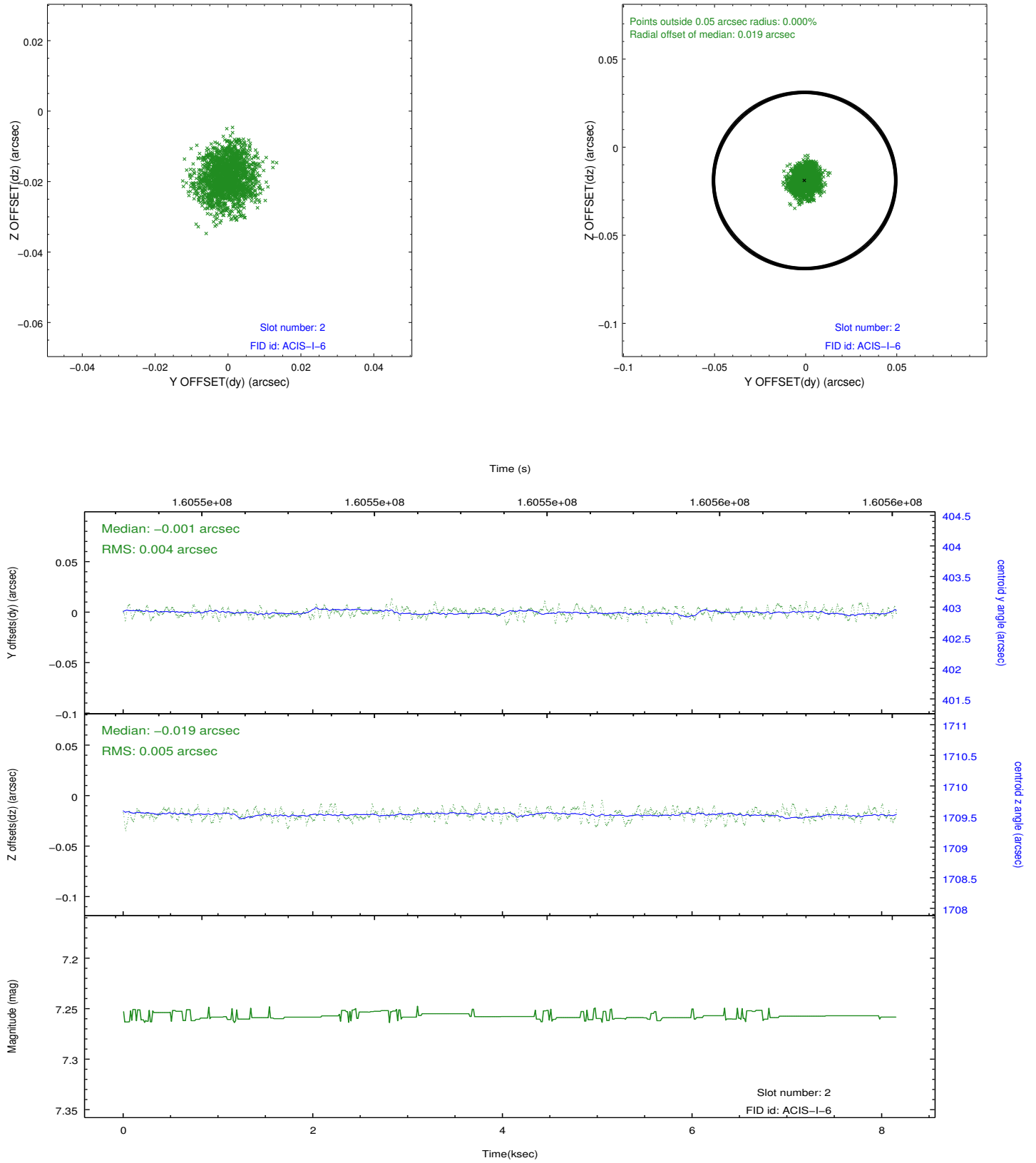
2.5.1 Slot 0



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	7.734

A.2 Comments

Window constraint met.