

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13991 - L2 Version 2
Chandra X-Ray Center

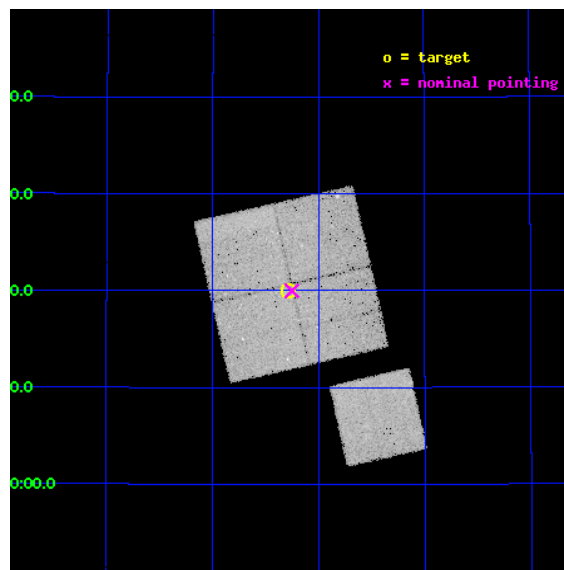
L2 Processing Date : Feb 26 2012

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1 Front

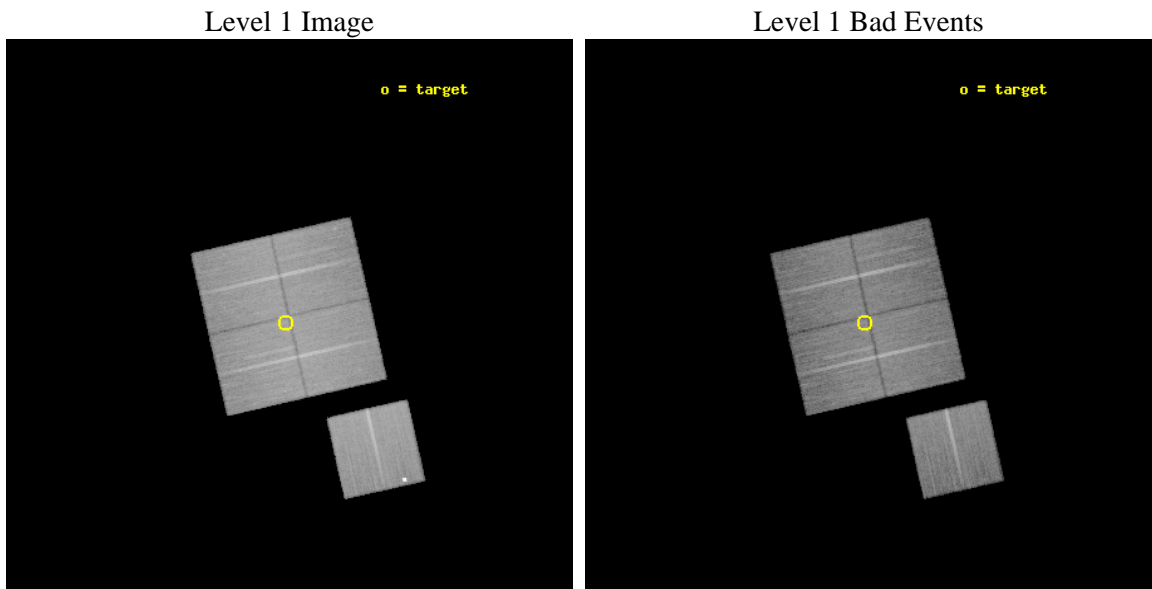
seq_num	801171	Sequence number
obs_id	13991	Observation id
title	Imaging gas clumping in the outskirts of nearby clusters of galaxies	
observer	Dr. Aurora Simionescu	Principal investigator
object	Perseus_NWclumping3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	49.320417	Observer's specified target RA [deg]
dec_targ	42.334389	Observer's specified target Dec [deg]
ra_nom	49.312796818986	Nominal RA [deg]
dec_nom	42.333193009646	Nominal Dec [deg]
roll_nom	167.21384381451	Nominal Roll [deg]
revision	2	Processing version of data
ontime	37543.936157465	Sum of GTIs [s]
livetime	37053.396992124	Livetime [s]
ontime0	37553.359238565	Sum of GTIs [s]
ontime1	37556.500288844	Sum of GTIs [s]
ontime2	37553.359248638	Sum of GTIs [s]
ontime3	37543.936157465	Sum of GTIs [s]
ontime6	37556.500288844	Sum of GTIs [s]
l2events	122600	Number of level 2 events



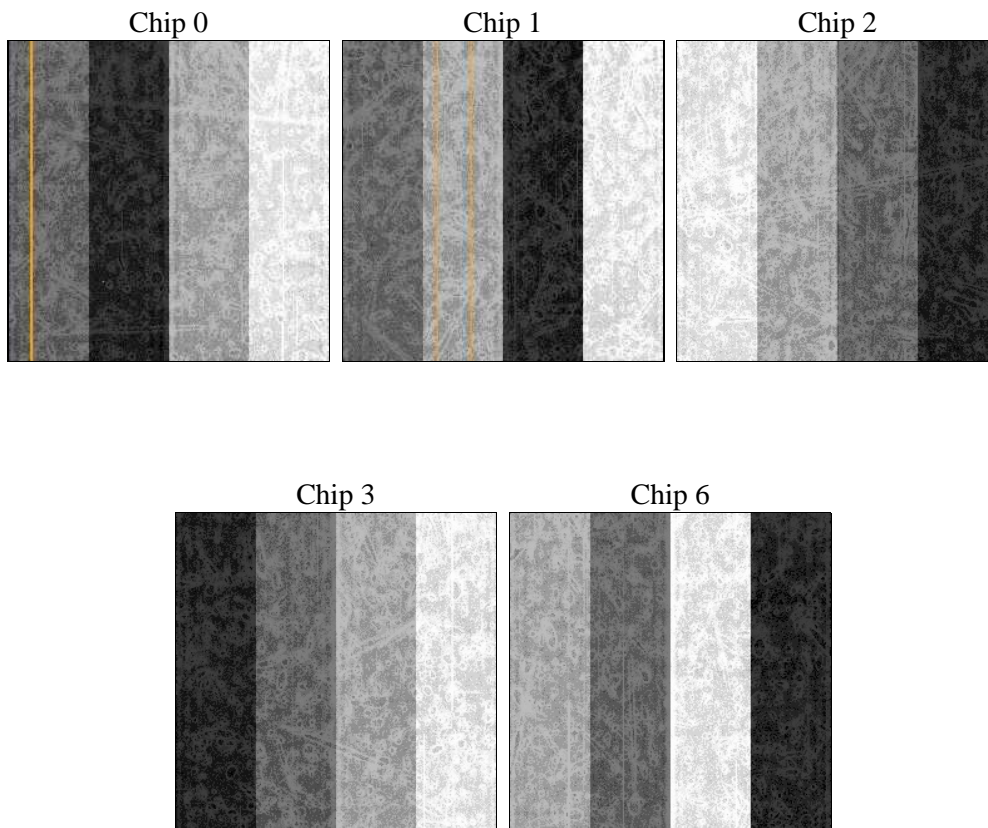
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	37500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	37543.936157465	Sum of GTIs [s]
caldbver	4.4.8	 	ontime0	37553.359238565	Sum of GTIs [s]
date	2012-02-26T03:56:29	Date and time of file creation	ontime1	37556.500288844	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	37553.359248638	Sum of GTIs [s]
			ontime3	37543.936157465	Sum of GTIs [s]
			ontime6	37556.500288844	Sum of GTIs [s]
			l1events	1146516	Number of level 1 events

2.1.4 Events

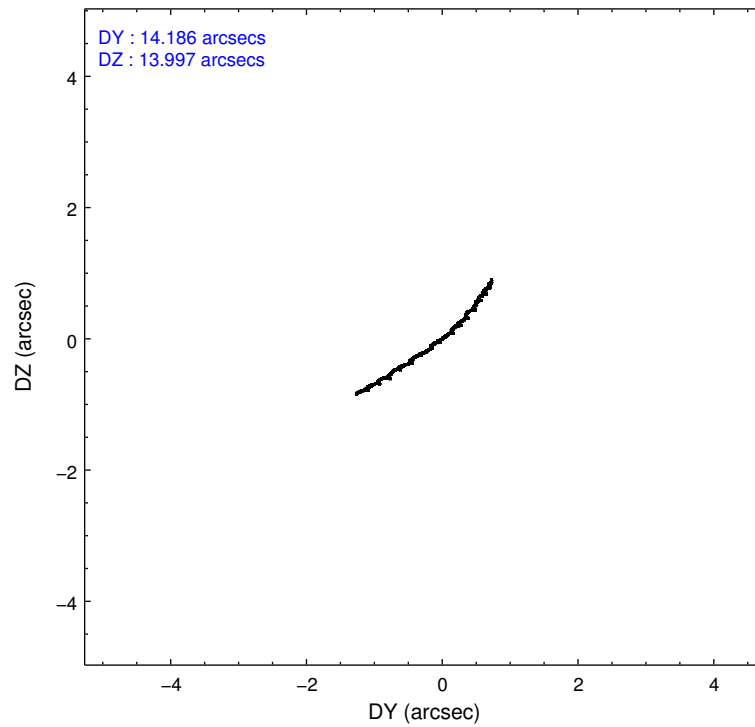
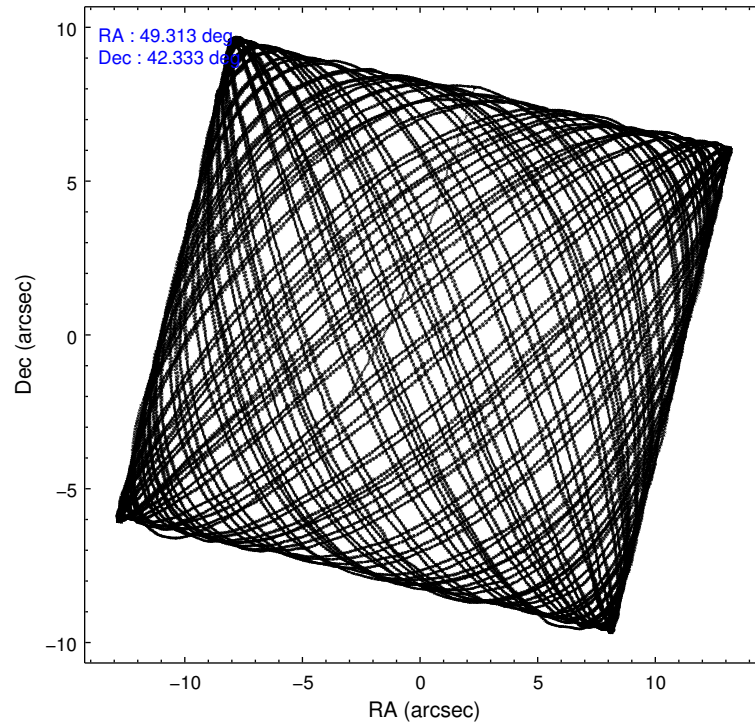
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	211123	219812	238052	229286	248243
rejected events	183170	188444	210090	201756	208347
rejected %	86%	85%	88%	87%	83%

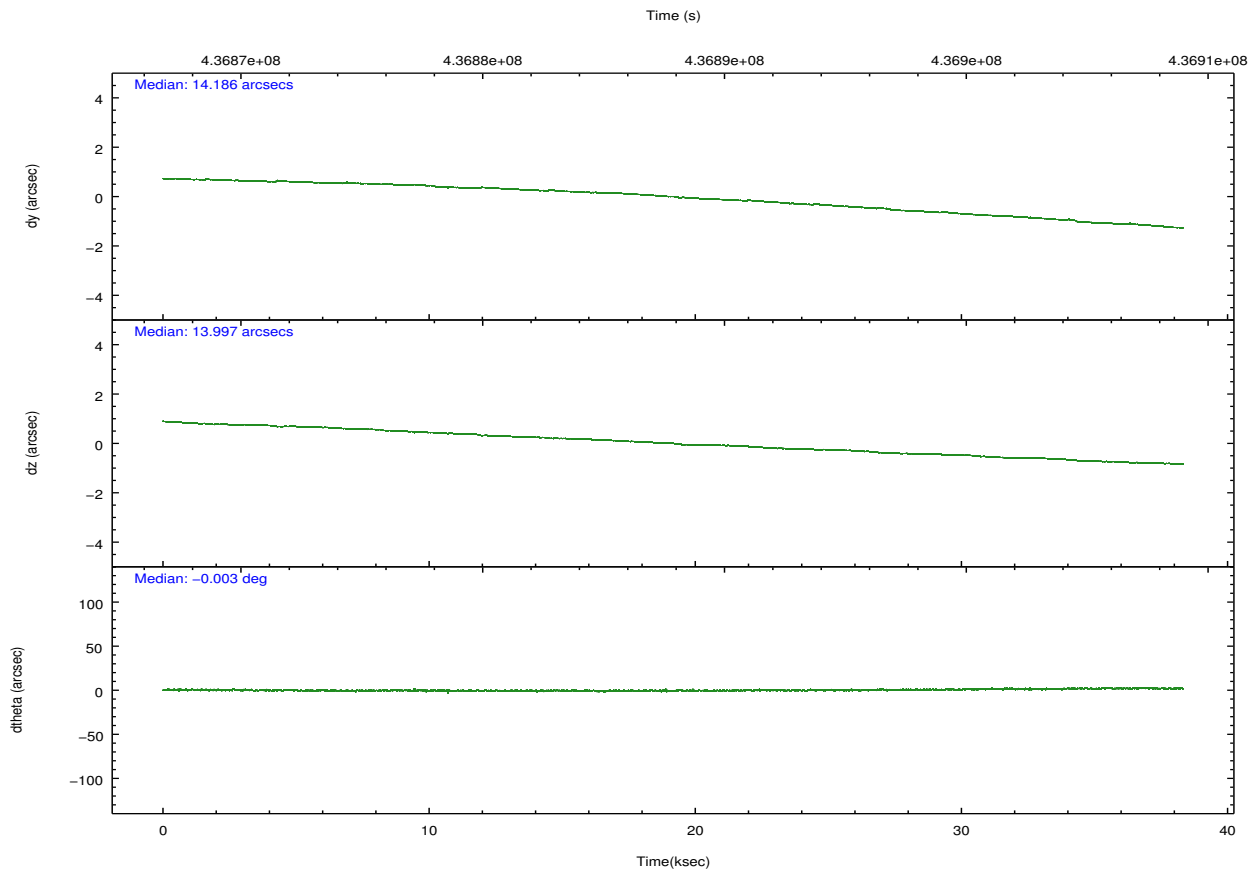
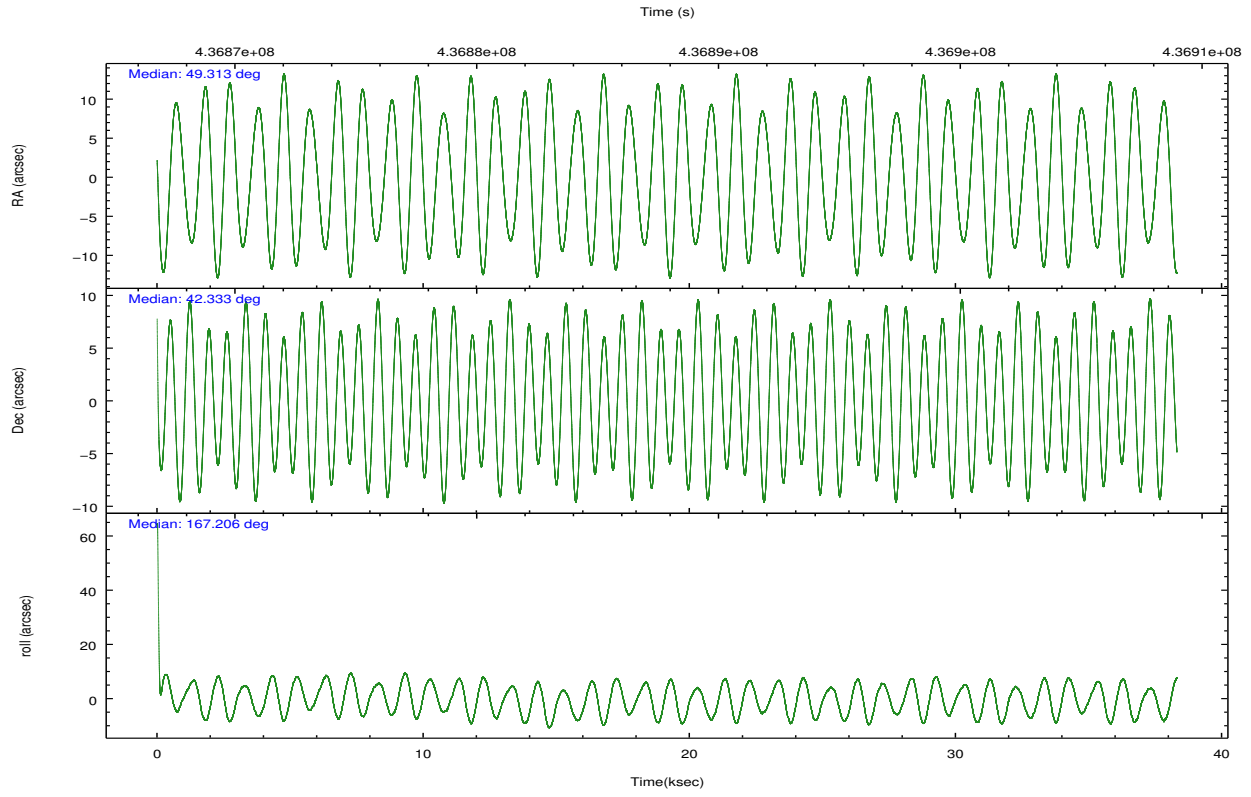
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	10345	11936	10778	10791	21812
	4%	5%	4%	4%	8%
grade 1 events	156	131	142	165	160
	0%	0%	0%	0%	0%
grade 2 events	6634	7166	6470	5959	6253
	3%	3%	2%	2%	2%
grade 3 events	2874	2989	2672	2780	2877
	1%	1%	1%	1%	1%
grade 4 events	2713	3048	2752	2762	2901
	1%	1%	1%	1%	1%
grade 5 events	10204	10967	9715	11248	10926
	4%	4%	4%	4%	4%
grade 6 events	5389	6239	5293	5245	6060
	2%	2%	2%	2%	2%
grade 7 events	172808	177336	200230	190336	197254
	81%	80%	84%	83%	79%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	49.348303	49.31279681898647	CCD I2 on	Y	Y
[deg] Pointing Dec	42.341429	42.33319300964638	CCD I3 on	Y	Y
[deg] Pointing Roll	166.981220	167.2138438145071	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	436869526.184000	436867143.52513	CCD S5 on	N	N
Observation start date	2011-11-05T08:37:40	2011-11-05T07:59:03	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	436907026.184000	436907287.13974	On-chip summing requested	N	N
Observation end date	2011-11-05T19:02:40	2011-11-05T19:08:07	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



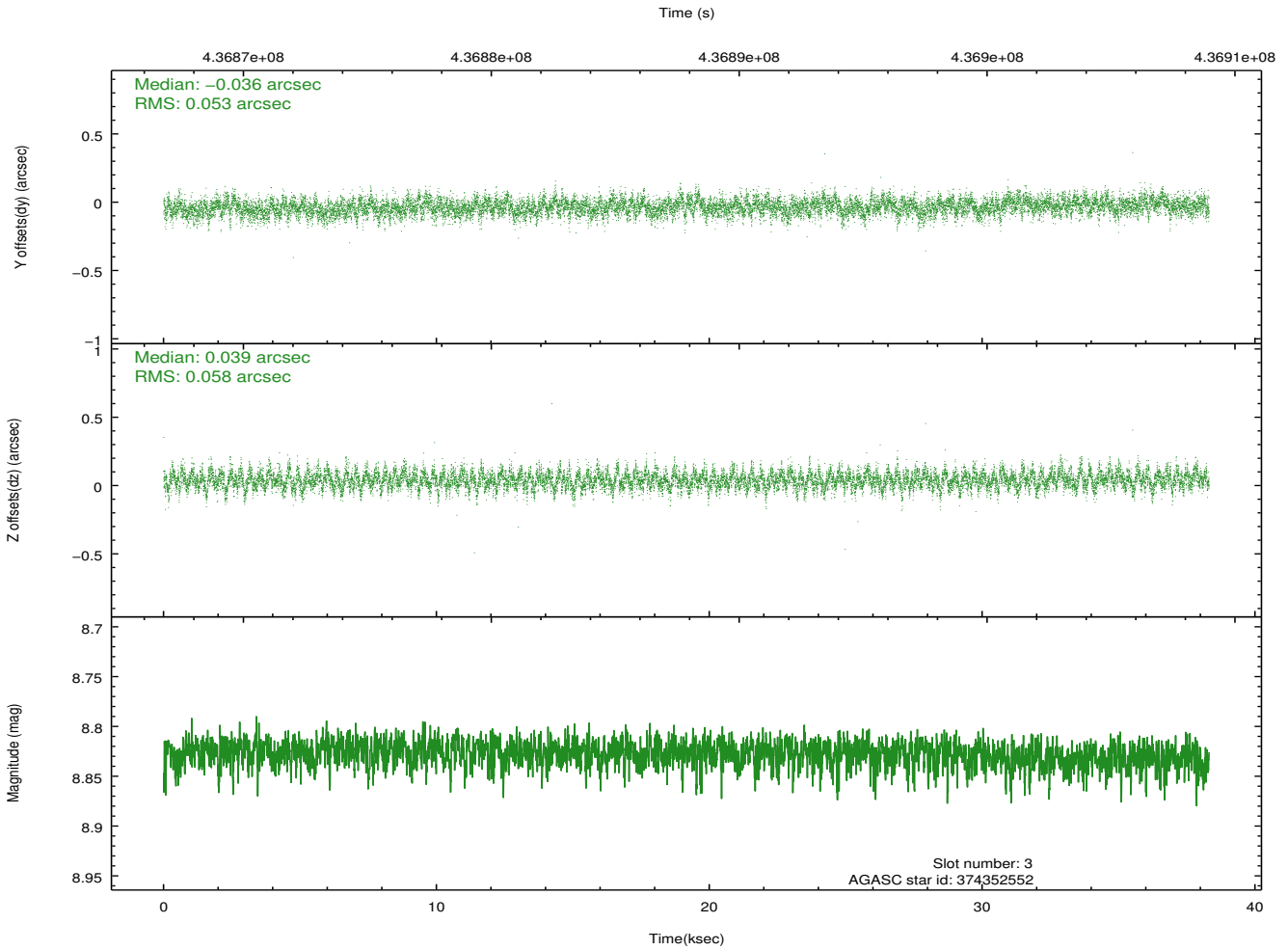
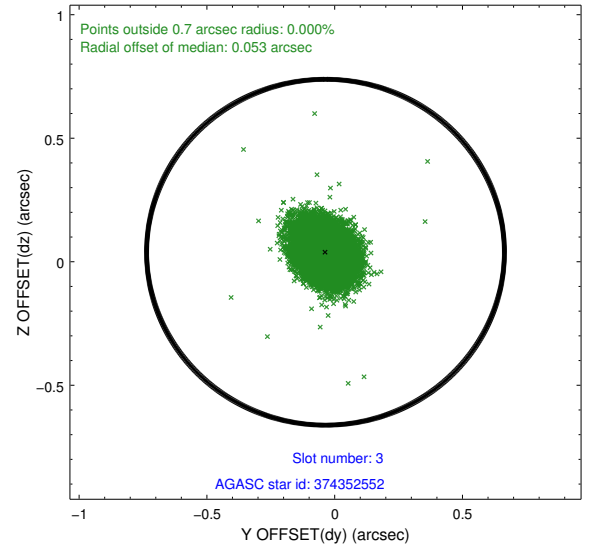
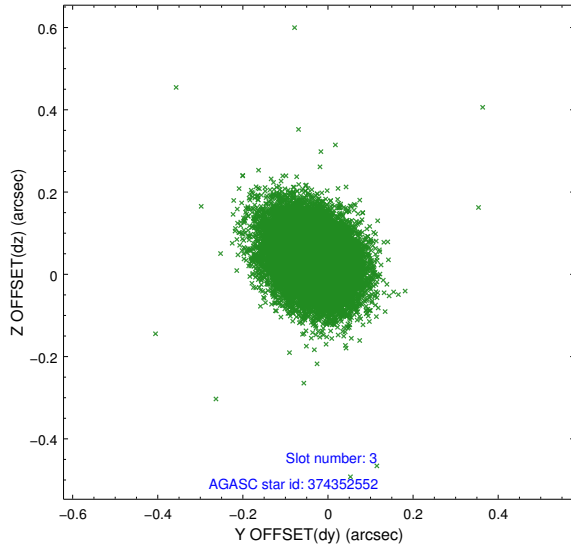


Slot Statistics

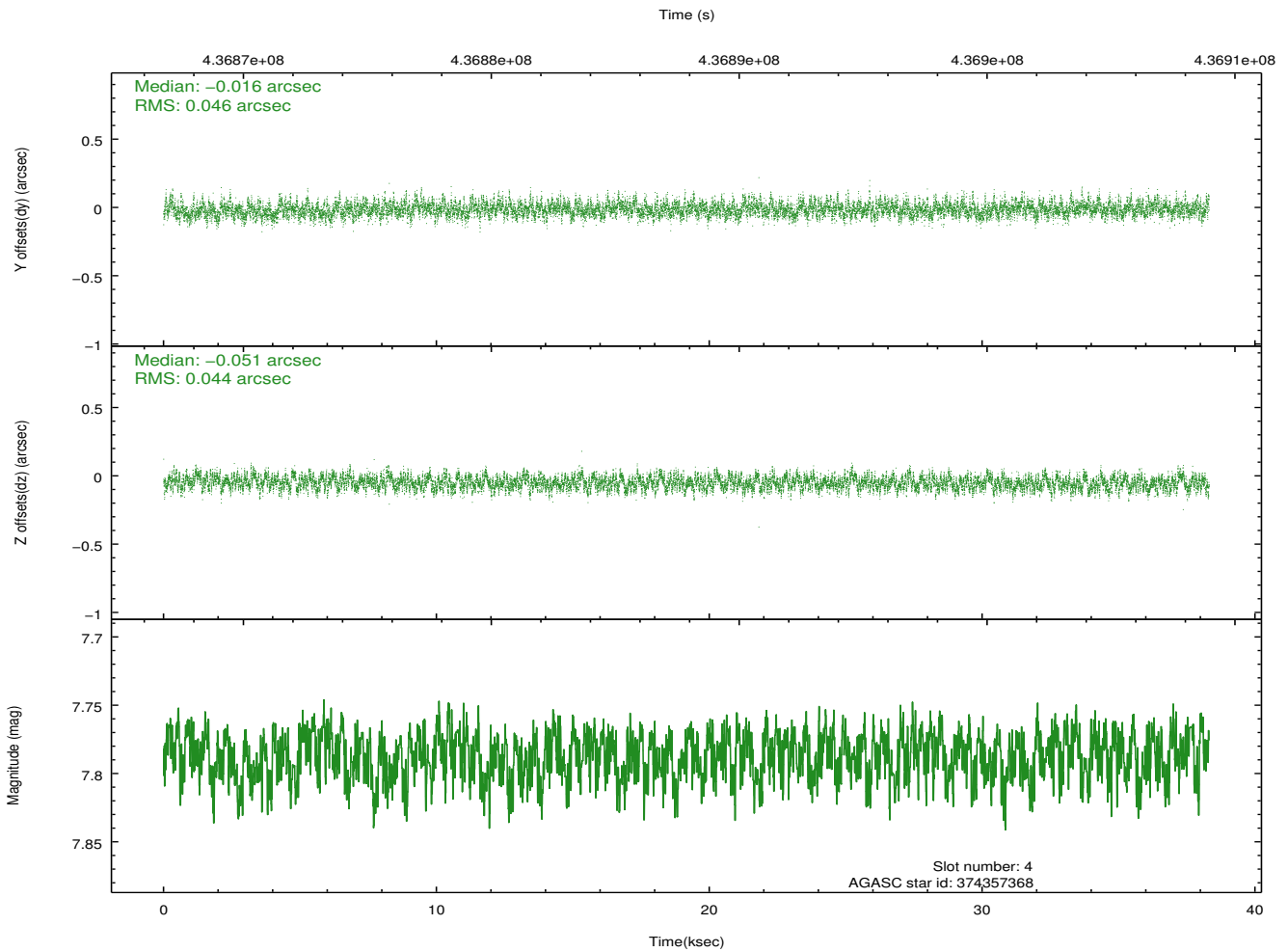
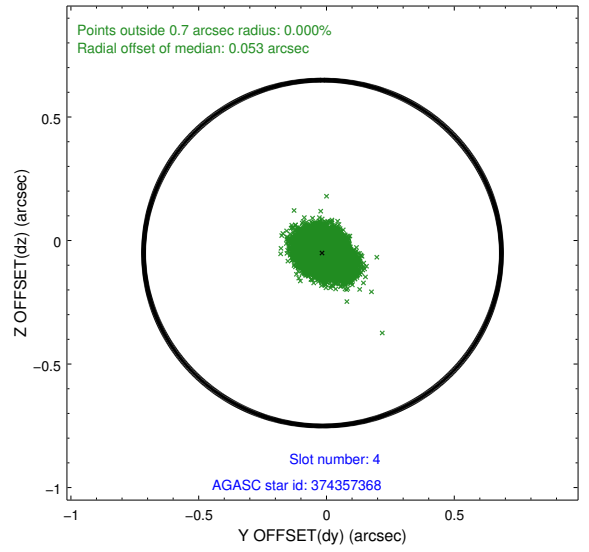
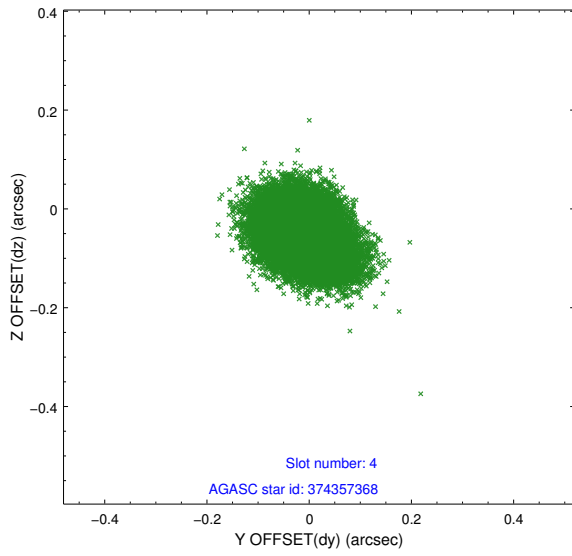
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.09	9346	0.057	-0.004	0.013	0.021	0.000000	0.000000	925.47	-837.57
1	FID	ACIS-I-5	7.08	9346	-0.250	0.054	0.014	0.021	0.000000	0.000000	-1822.96	1059.92
2	FID	ACIS-I-6	7.08	9346	0.106	0.020	0.020	0.030	0.000000	0.000000	390.99	1704.45
3	GUIDE	374352552	8.83	18676	-0.036	0.039	0.082	0.136	49.205176	42.496124	495.46	-456.16
4	GUIDE	374357368	7.79	18689	-0.016	-0.051	0.068	0.110	49.396079	42.675115	147.40	-1198.24
5	GUIDE	376064600	9.23	18677	0.064	0.157	0.092	0.148	50.213209	42.582691	-2034.98	-1373.62
6	GUIDE	376070040	8.40	18687	0.013	-0.038	0.083	0.137	50.072031	41.897206	-2248.07	1113.51
7	GUIDE	374357808	8.66	18674	-0.026	-0.109	0.082	0.129	49.921429	42.176083	-1622.82	230.79

2.4 Star Slots

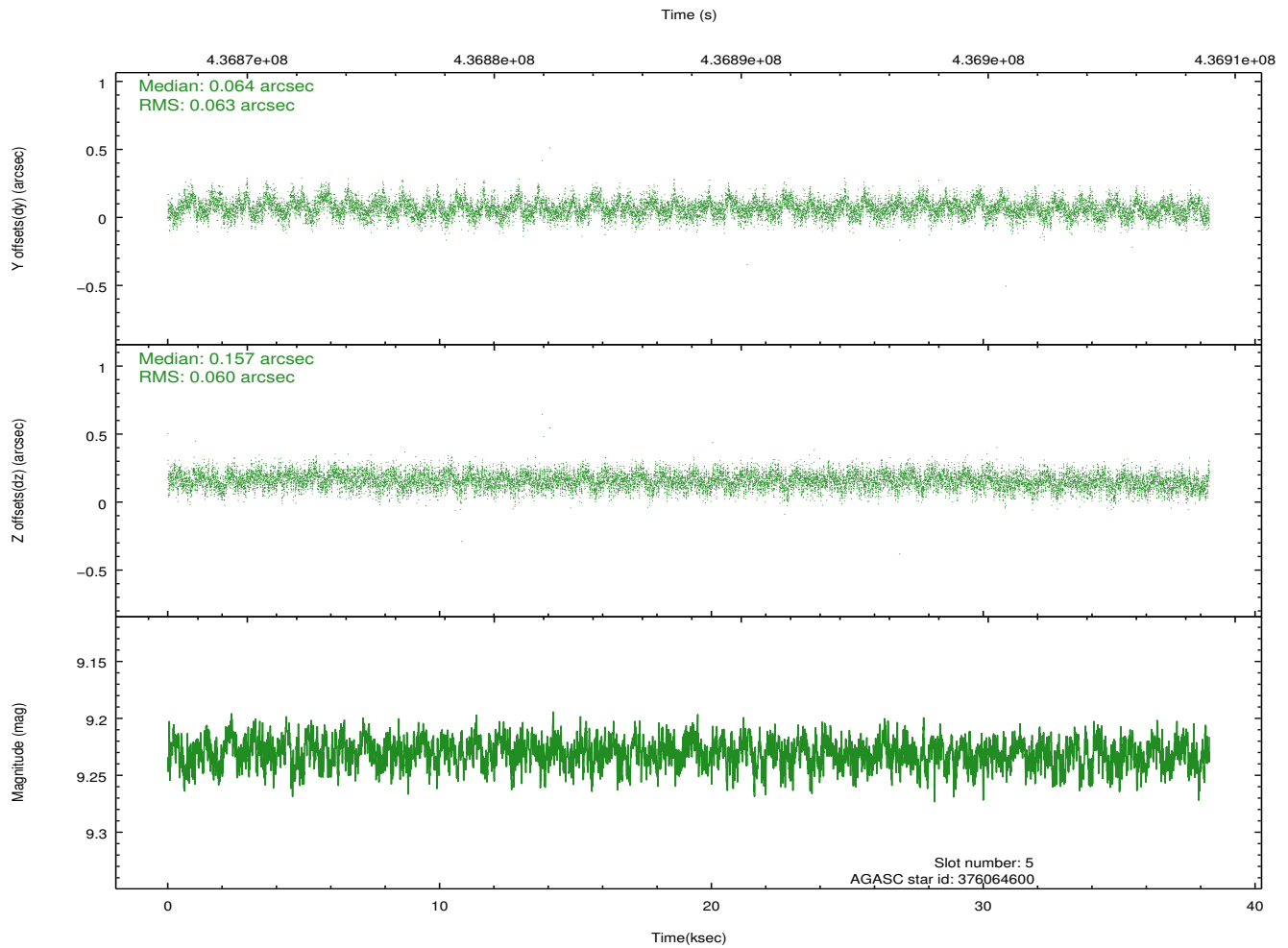
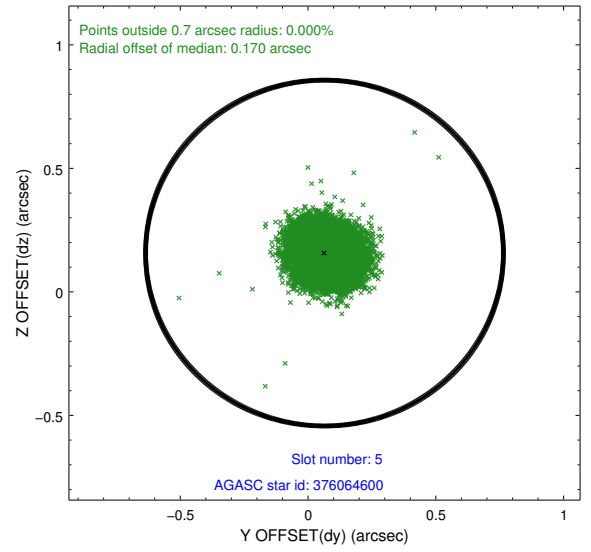
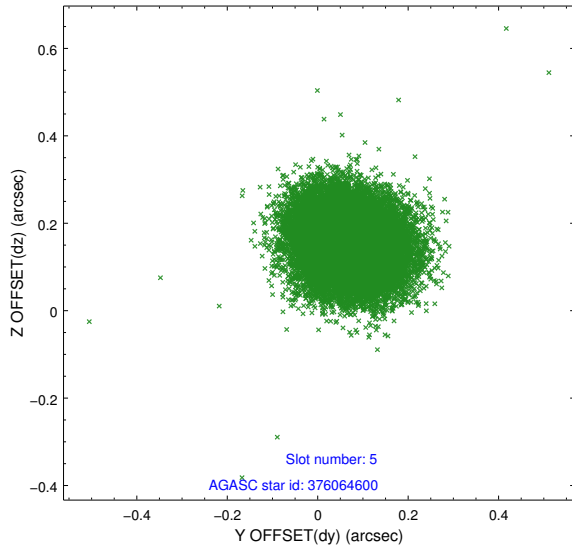
2.4.1 Slot 3



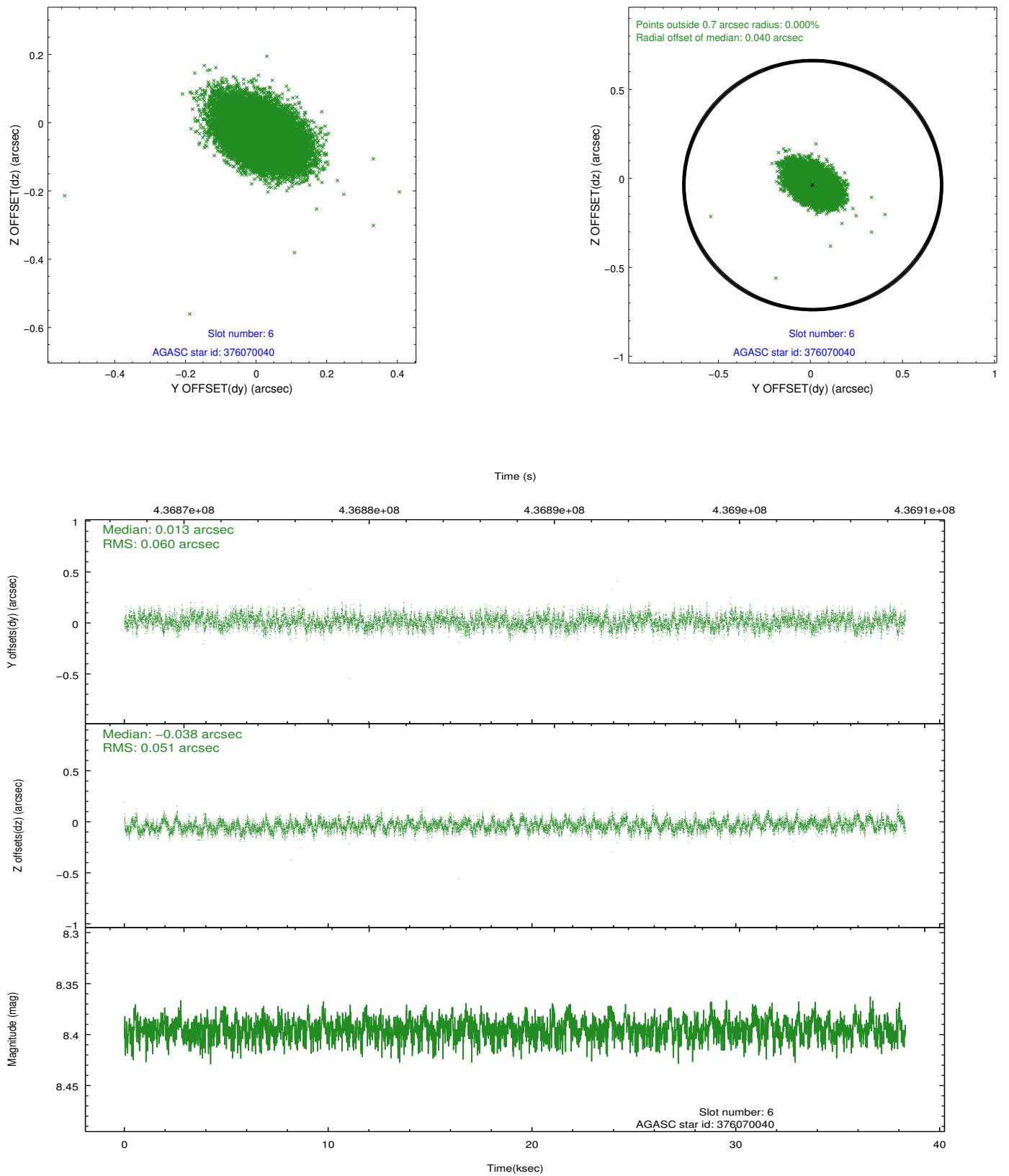
2.4.2 Slot 4



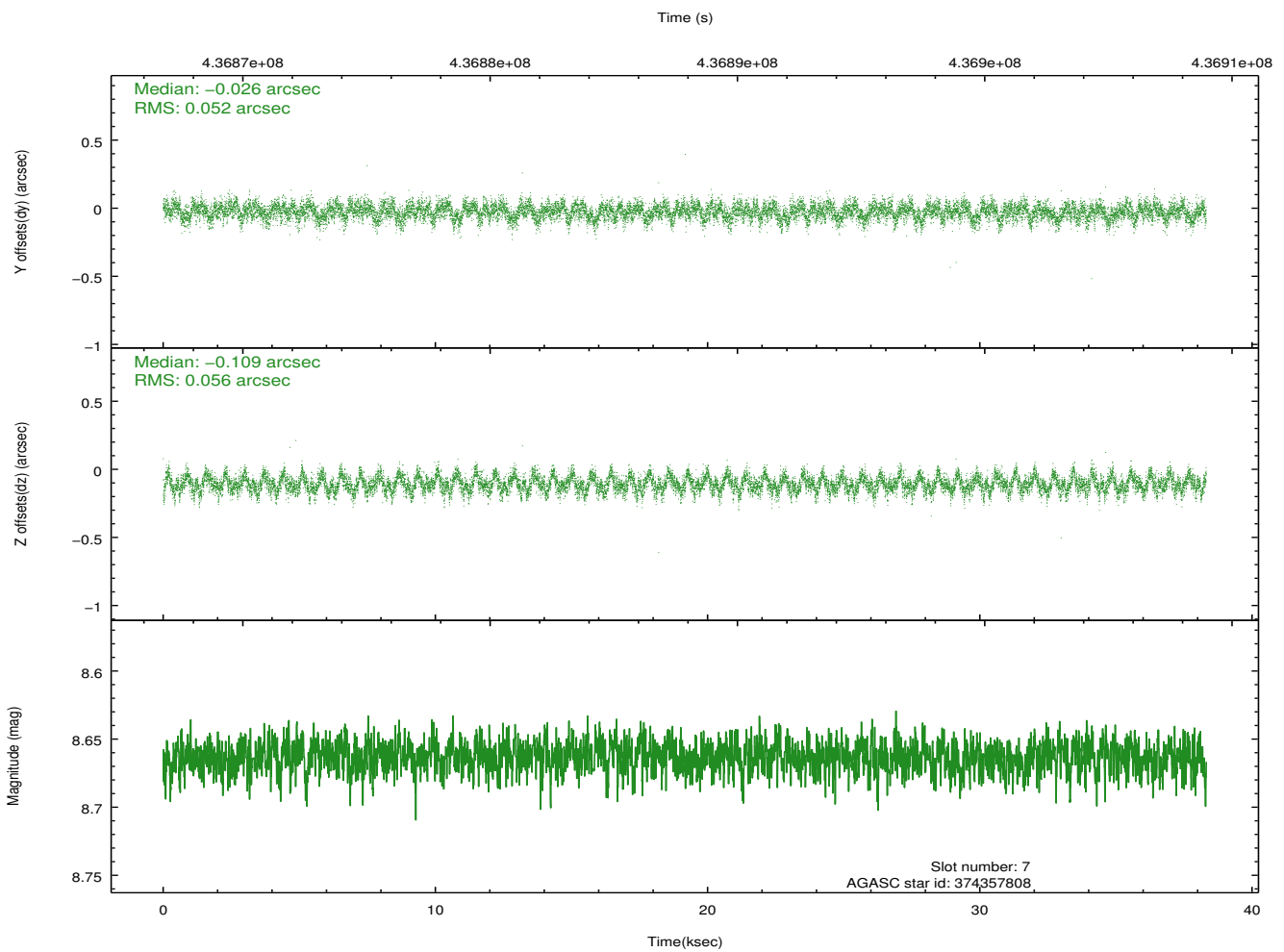
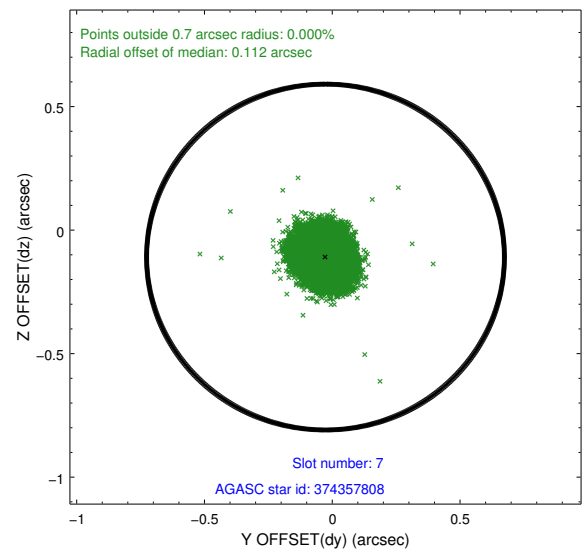
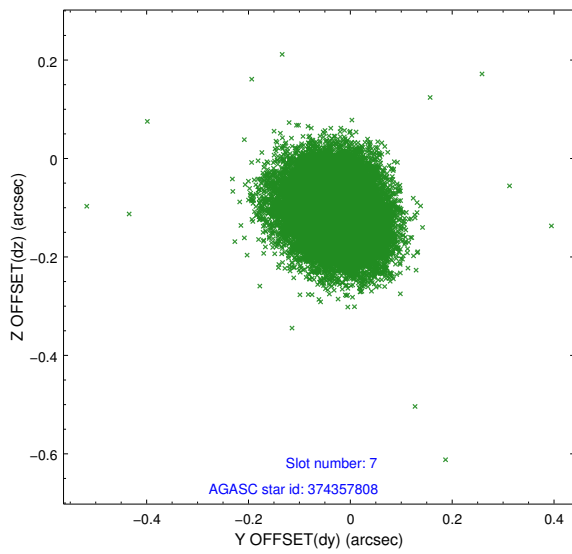
2.4.3 Slot 5



2.4.4 Slot 6

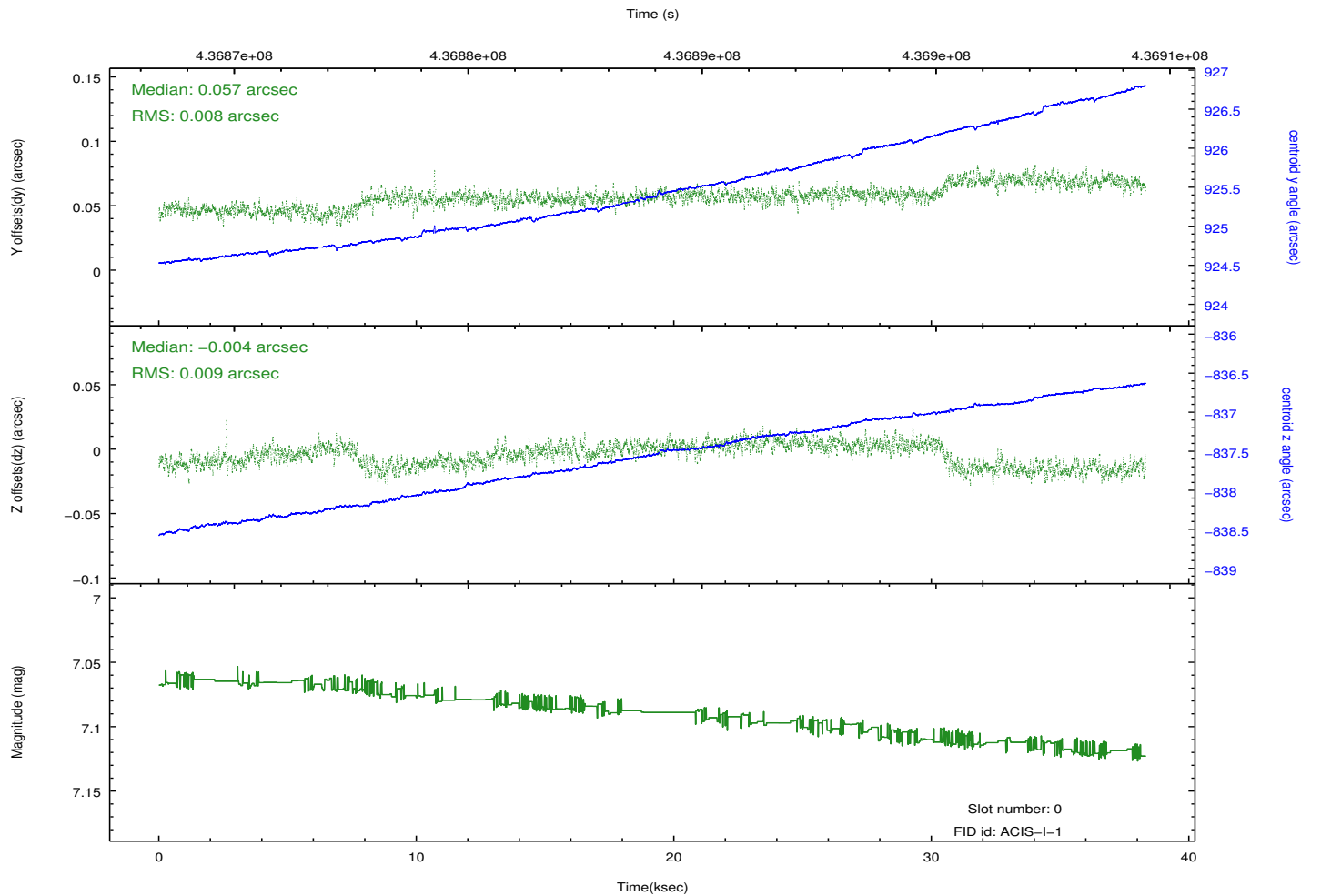
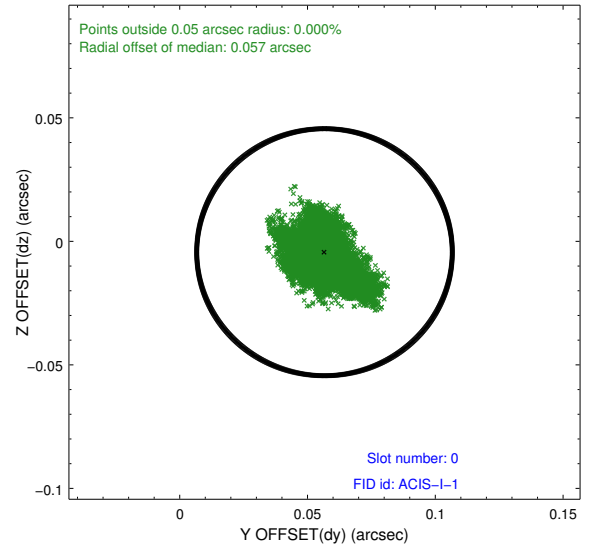
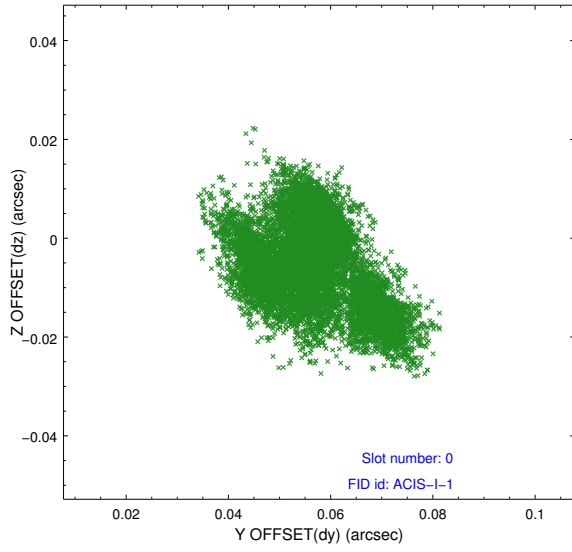


2.4.5 Slot 7

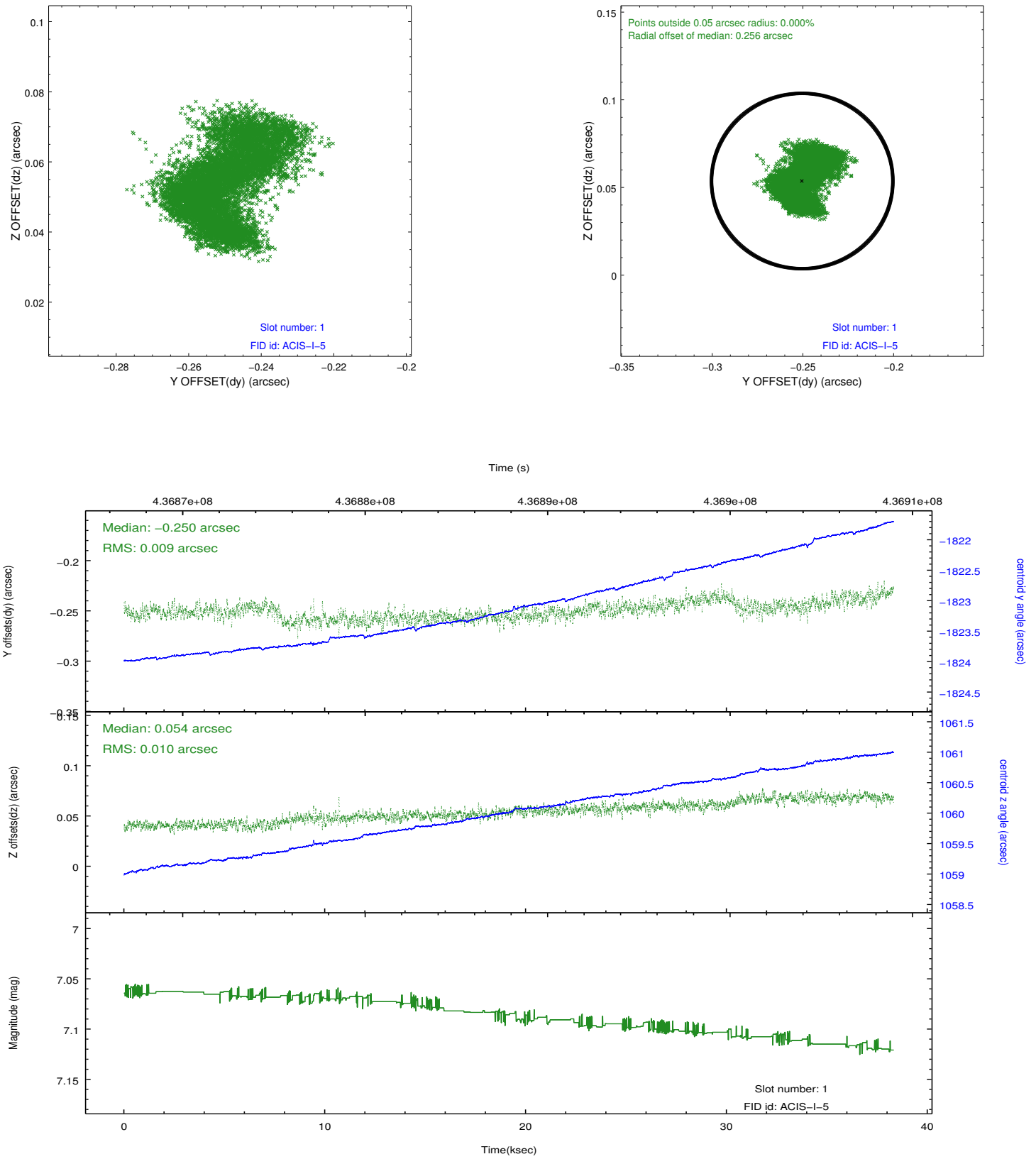


2.5 FID Slots

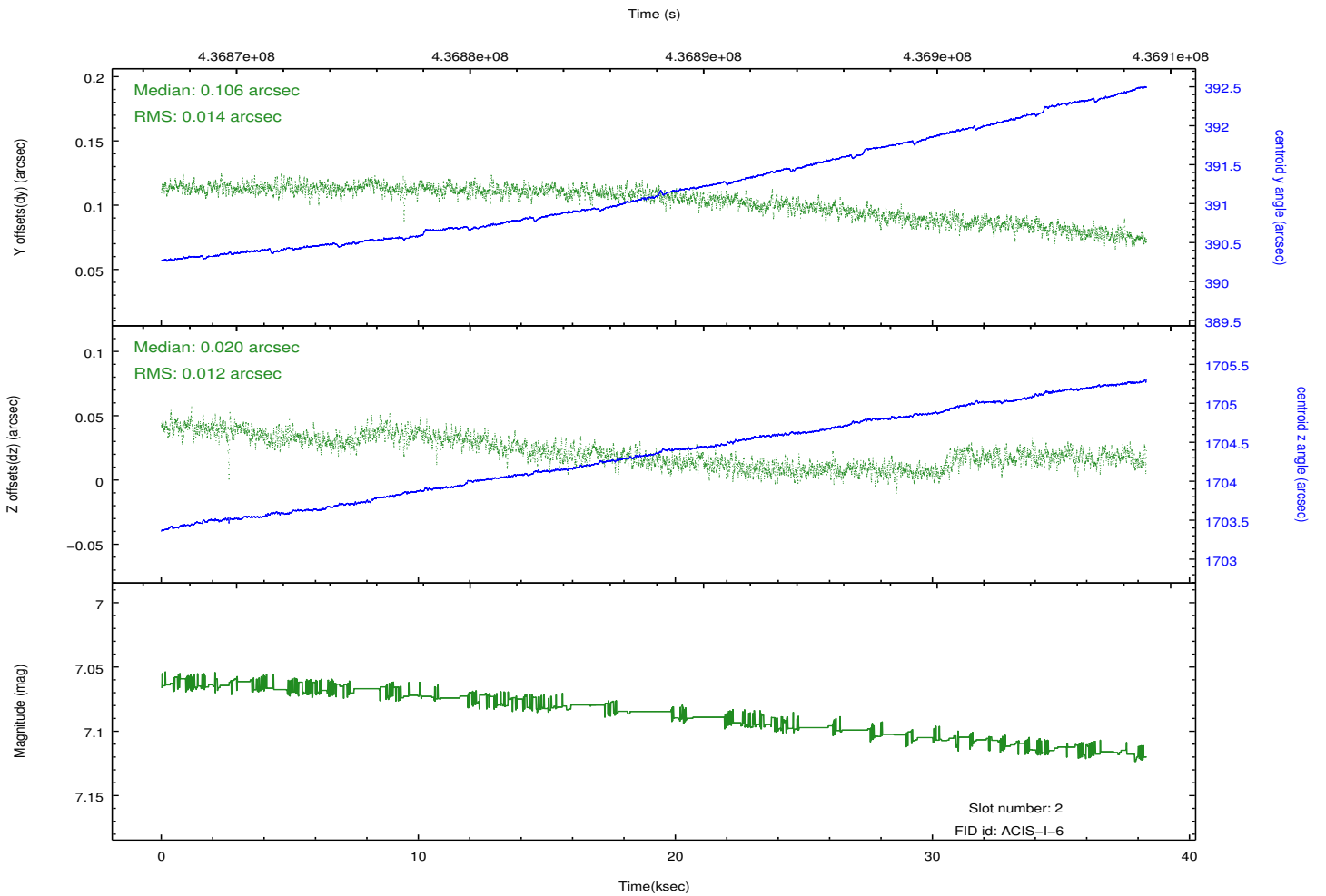
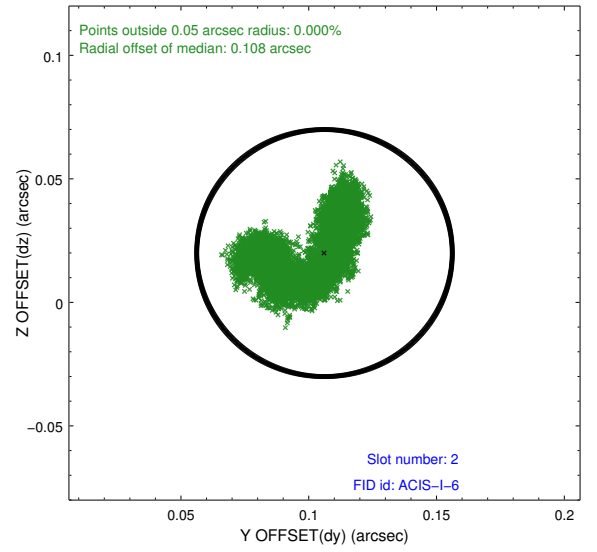
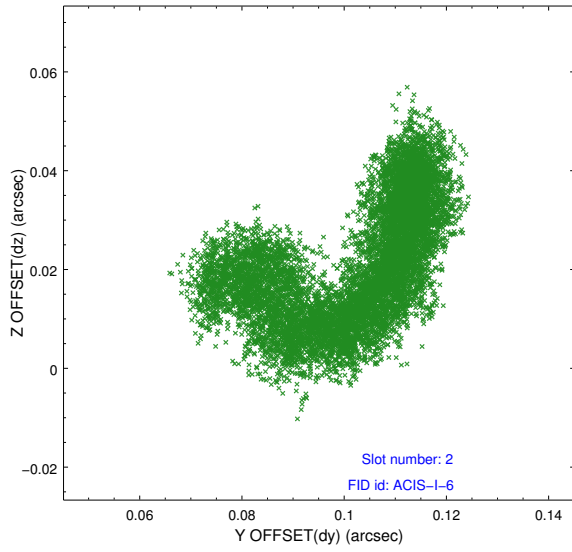
2.5.1 Slot 0



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)	2012.02.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.543936157525

A.2 Comments

Optional chip ACIS-S3 not used.