

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10132 - L2 Version 2
Chandra X-Ray Center

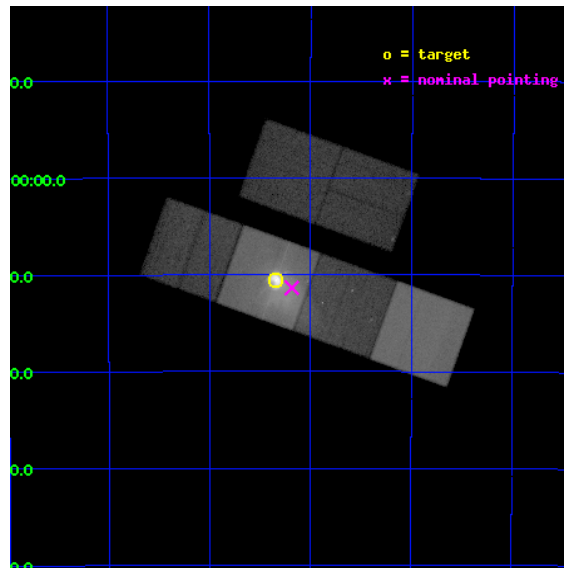
L2 Processing Date : Jun 10 2012

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1 Front

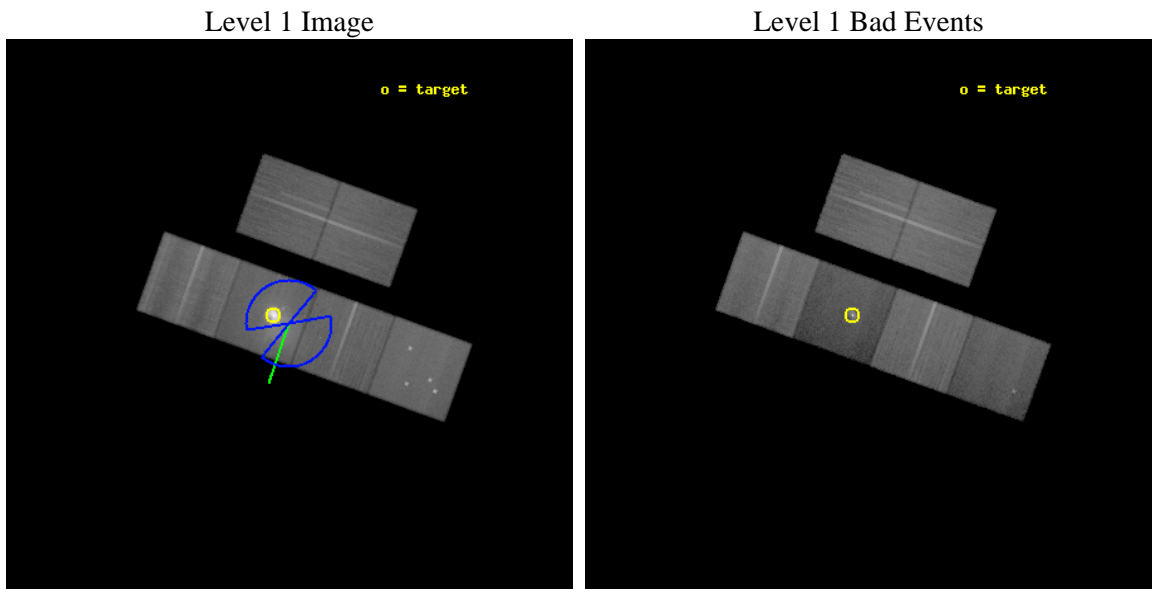
seq_num	501059	Sequence number
obs_id	10132	Observation id
title	The Unique Dynamical Vela Pulsar Wind Nebula	Proposal title
observer	Dr. George Pavlov	Principal investigator
object	Vela PWN	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	128.83625	Observer's specified target RA [deg]
dec_targ	-45.176583	Observer's specified target Dec [deg]
ra_nom	128.79634179009	Nominal RA [deg]
dec_nom	-45.189354768679	Nominal Dec [deg]
roll_nom	199.82640470464	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40041.599850893	Sum of GTIs [s]
livetime	39534.569003424	Livetime [s]
ontime2	40041.599850893	Sum of GTIs [s]
ontime3	40035.117910266	Sum of GTIs [s]
ontime5	40041.599850893	Sum of GTIs [s]
ontime6	40035.118029714	Sum of GTIs [s]
ontime7	40041.599850893	Sum of GTIs [s]
ontime8	40041.599850893	Sum of GTIs [s]
l2events	1075125	Number of level 2 events



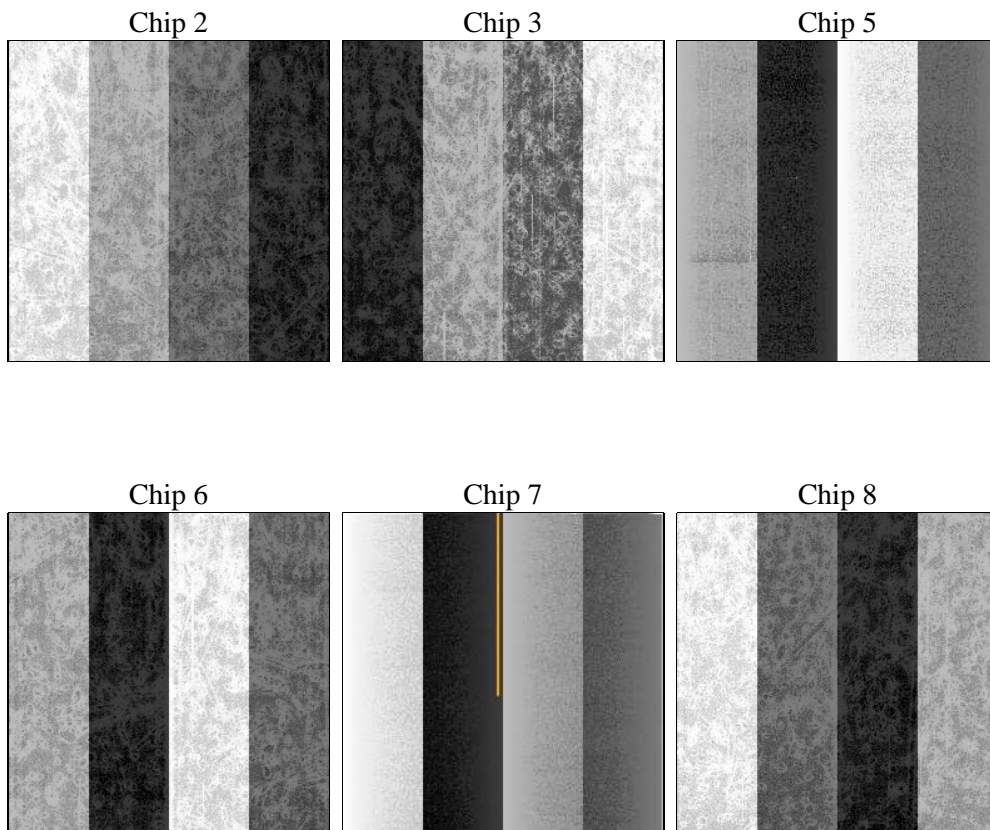
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	40041.599850893	Sum of GTIs [s]
caldbver	4.4.10	 	ontime2	40041.599850893	Sum of GTIs [s]
date	2012-06-10T01:15:04	Date and time of file creation	ontime3	40035.117910266	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	40041.599850893	Sum of GTIs [s]
			ontime6	40035.118029714	Sum of GTIs [s]
			ontime7	40041.599850893	Sum of GTIs [s]
			ontime8	40041.599850893	Sum of GTIs [s]
			l1events	2634283	Number of level 1 events

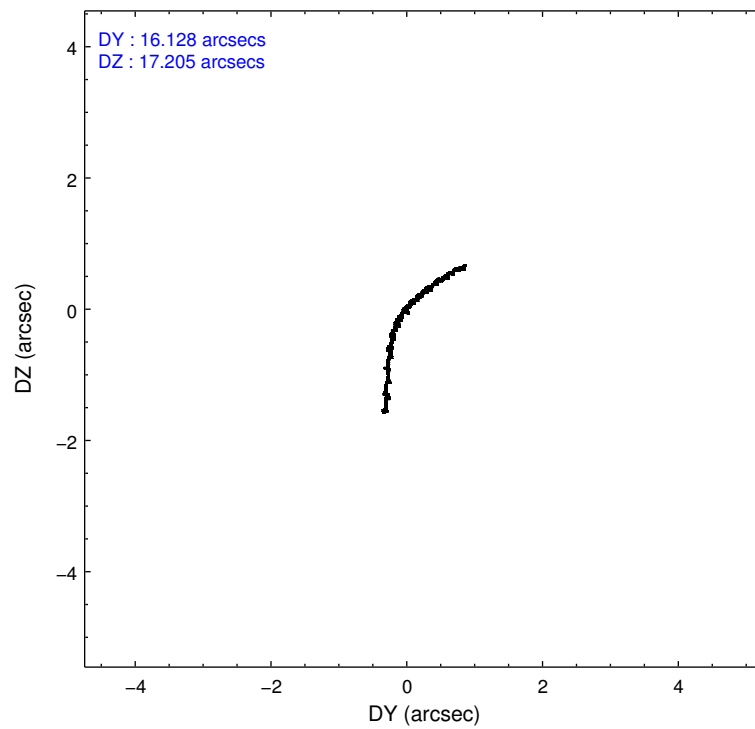
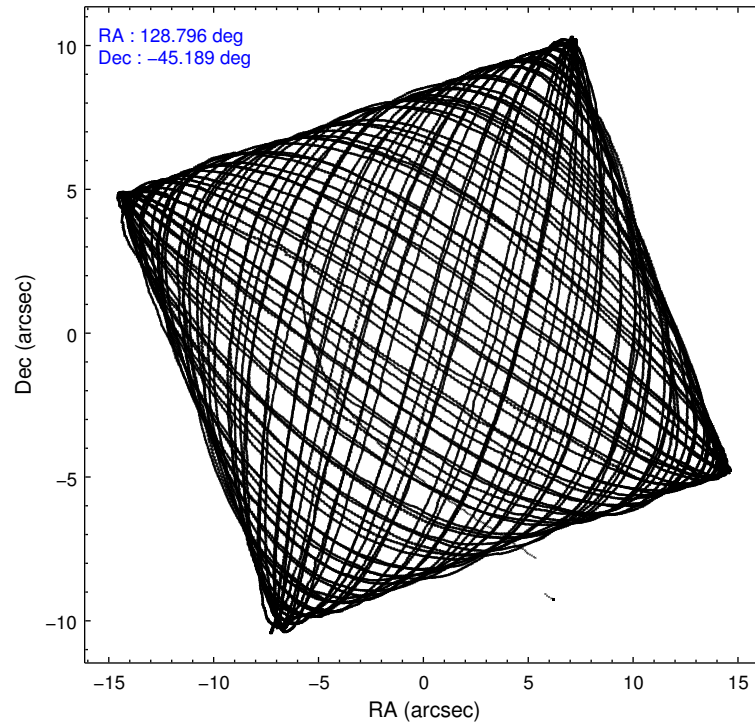
2.1.4 Events

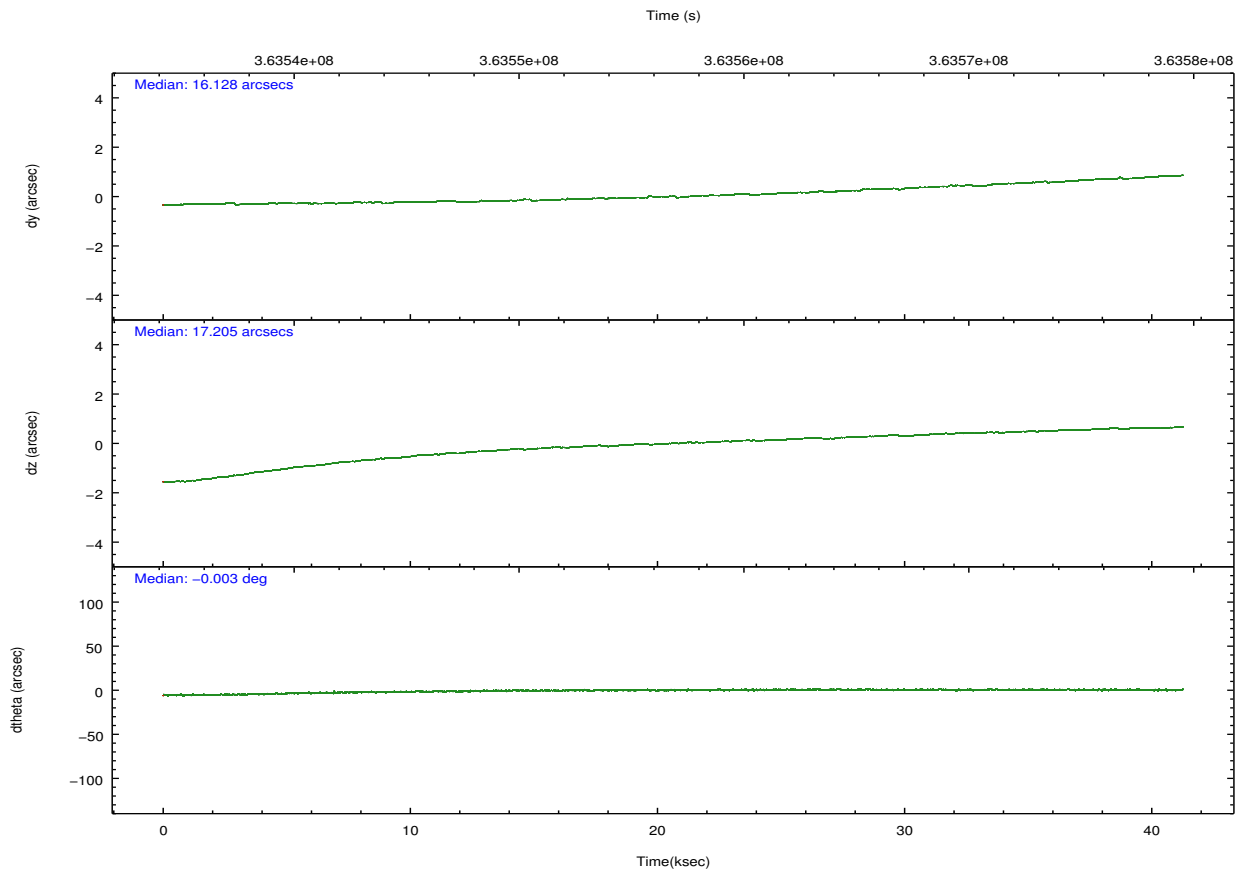
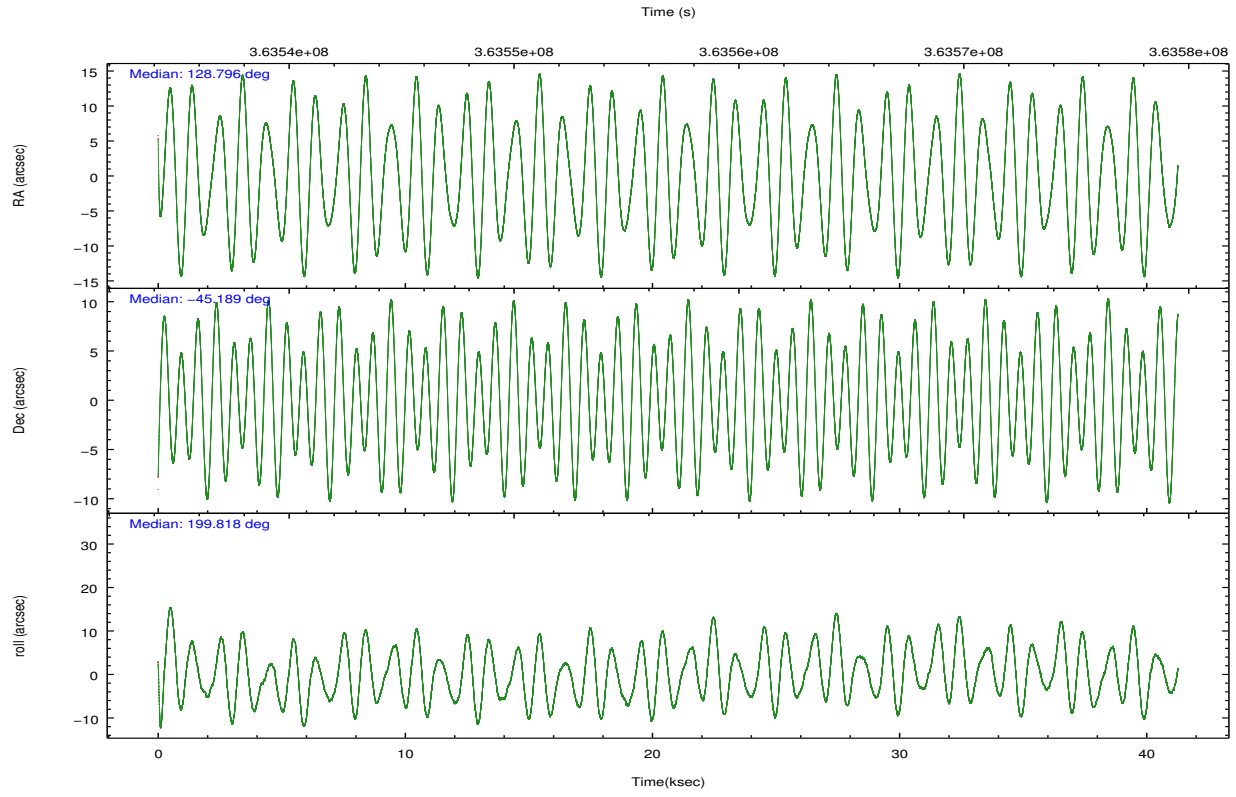
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	356843	325493	412100	361348	771265	407234	grade 0 events	28578	26381	61766	52813	183282	50810
rejected events	307839	280002	149912	282461	132984	279086		8%	8%	14%	14%	23%	12%
rejected %	86%	86%	36%	78%	17%	68%	grade 1 events	313	270	1686	415	1792	424
								0%	0%	0%	0%	0%	0%
							grade 2 events	8825	7300	75568	10973	160407	26321
								2%	2%	18%	3%	20%	6%
							grade 3 events	3399	3448	13872	4286	68664	11908
								0%	1%	3%	1%	8%	2%
							grade 4 events	3357	3360	13760	4366	68375	11085
								0%	1%	3%	1%	8%	2%
							grade 5 events	7347	8560	28633	8618	31698	13824
								2%	2%	6%	2%	4%	3%
							grade 6 events	4852	5004	97241	6454	157596	28032
								1%	1%	23%	1%	20%	6%
							grade 7 events	300172	271170	119574	273423	99451	264830
								84%	83%	29%	75%	12%	65%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	128.820954	128.7963417900851	CCD I2 on	O2	Y
[deg] Pointing Dec	-45.168223	-45.1893547686792	CCD I3 on	Y	Y
[deg] Pointing Roll	199.687236	199.8264047046361	CCD S0 on	N	N
[deg] Roll angle	150.000000	150.000000	CCD S1 on	O1	Y
[deg] Roll tolerance	70.000000	70.000000	CCD S2 on	Y	Y
Roll constraint allows 180D rotation	Y	Y	CCD S3 on	Y	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S4 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S5 on	N	N
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	Number of optional ACIS chips dropped	0	0
[mm] SIM translation stage offset	0	0.00754346686406393	On-chip summing requested	N	N
[s] Observation start time (MET)	363537486.184000	363535205.57476	Subarray requested	NONE	NONE
Observation start date	2009-07-09T14:37:00	2009-07-09T14:00:05	Alternating exposures requested	N	N
[s] Observation end time (MET)	363577486.184000	363578603.56443	[s] Primary exposure time	0.000000	3.2
Observation end date	2009-07-10T01:43:40	2009-07-10T02:03:23			
Read mode	TIMED	TIMED			

2.3 Aspect



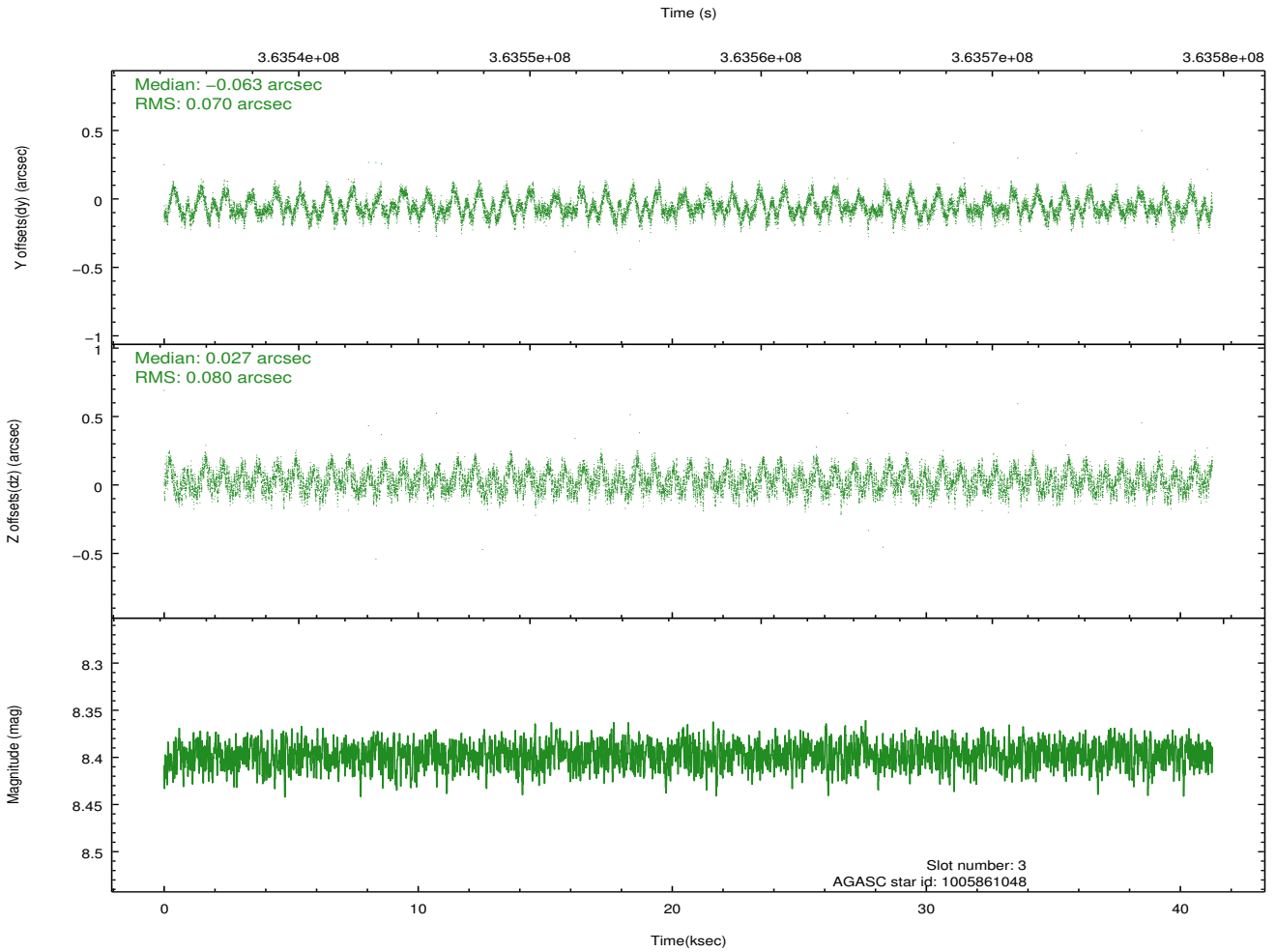
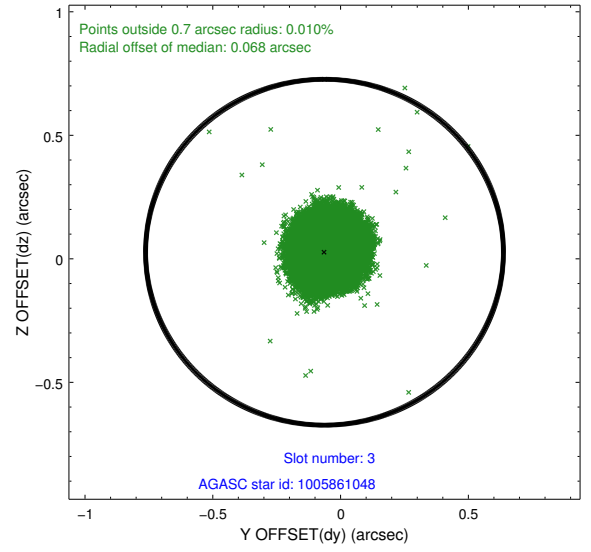
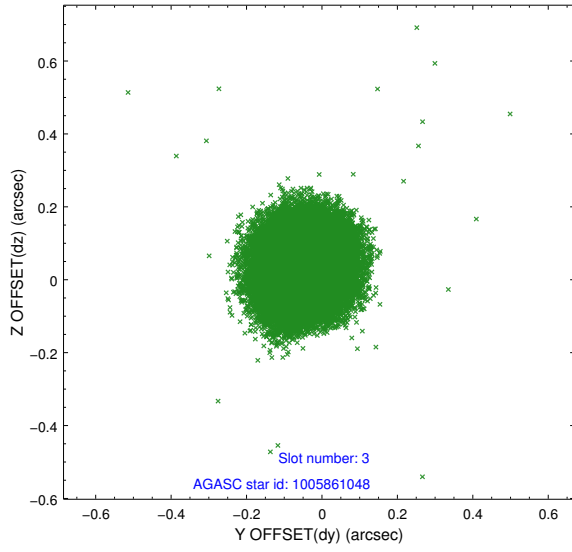


Slot Statistics

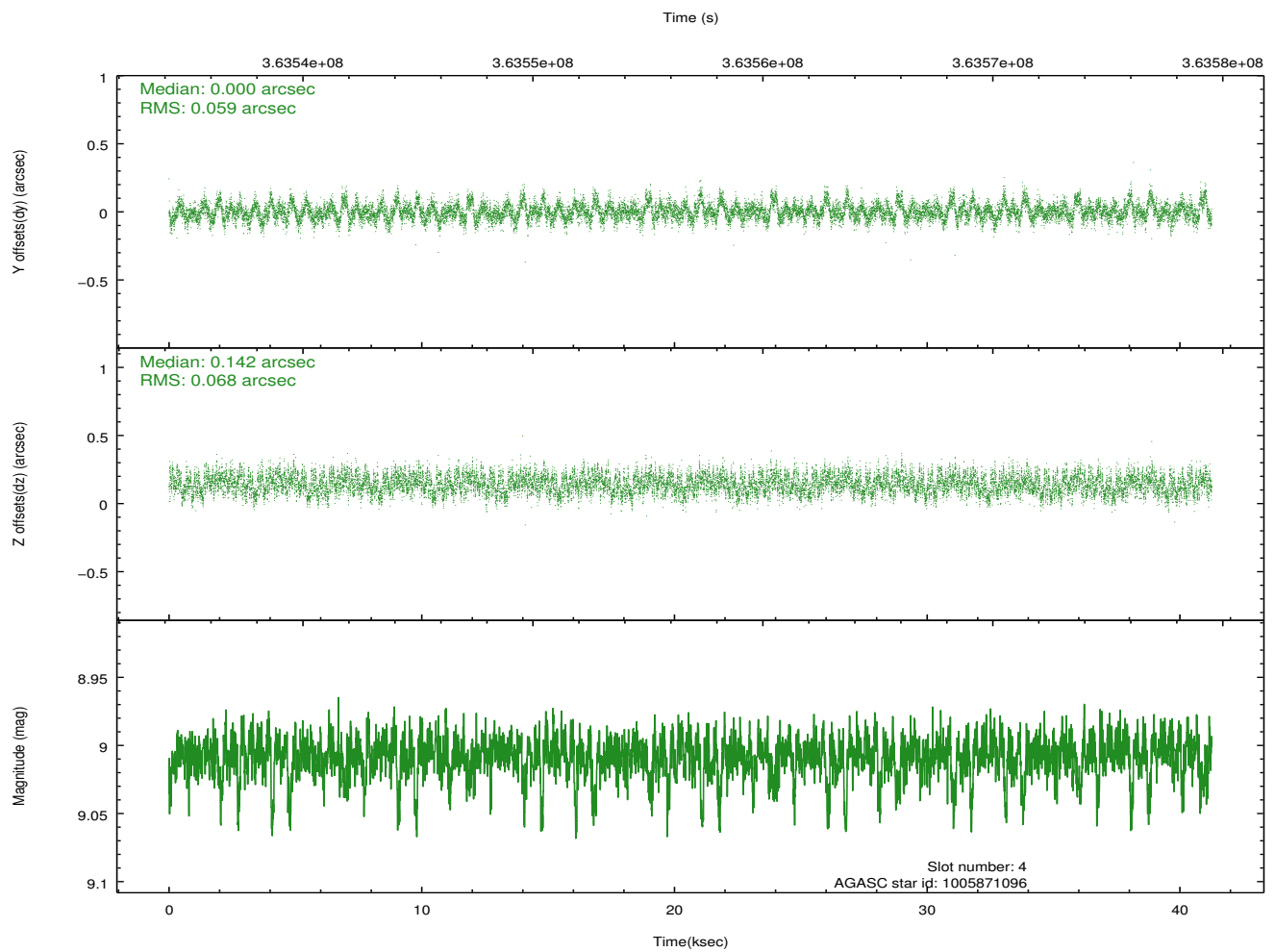
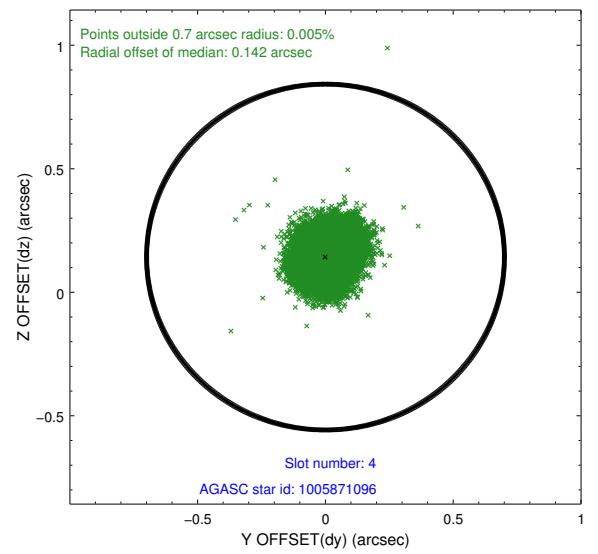
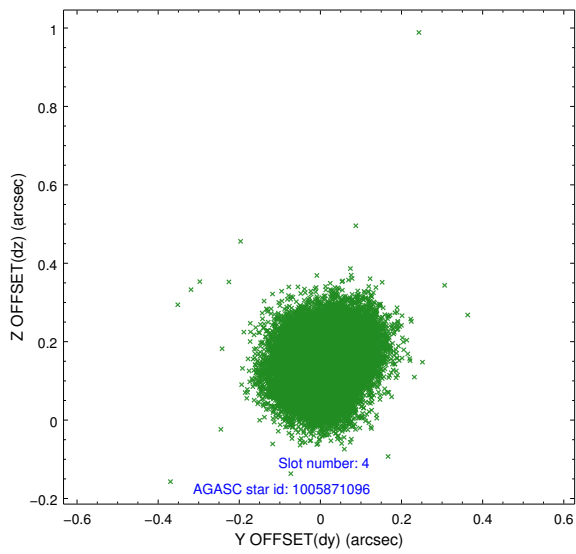
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	10064	-0.064	-0.023	0.019	0.037	0.000000	0.000000	-769.32	-1738.51
1	FID	ACIS-S-4	6.96	10064	0.142	0.038	0.012	0.027	0.000000	0.000000	2144.19	169.97
2	FID	ACIS-S-5	6.99	10063	-0.108	-0.005	0.018	0.031	0.000000	0.000000	-1822.16	163.68
3	GUIDE	1005861048	8.40	20120	-0.063	0.027	0.117	0.171	128.669106	-44.528323	-408.48	-2299.69
4	GUIDE	1005871096	9.01	20113	0.000	0.142	0.097	0.152	128.774147	-44.764566	-376.61	-1407.98
5	GUIDE	1068263200	9.12	20038	0.034	-0.087	0.121	0.188	128.222628	-45.344390	1641.18	92.70
6	GUIDE	1068370472	9.89	20095	-0.054	-0.047	0.297	0.432	129.739600	-45.319107	-2002.00	1307.32
7	GUIDE	1005871784	7.99	20125	0.076	-0.050	0.129	0.190	128.533947	-44.544833	-61.71	-2359.52

2.4 Star Slots

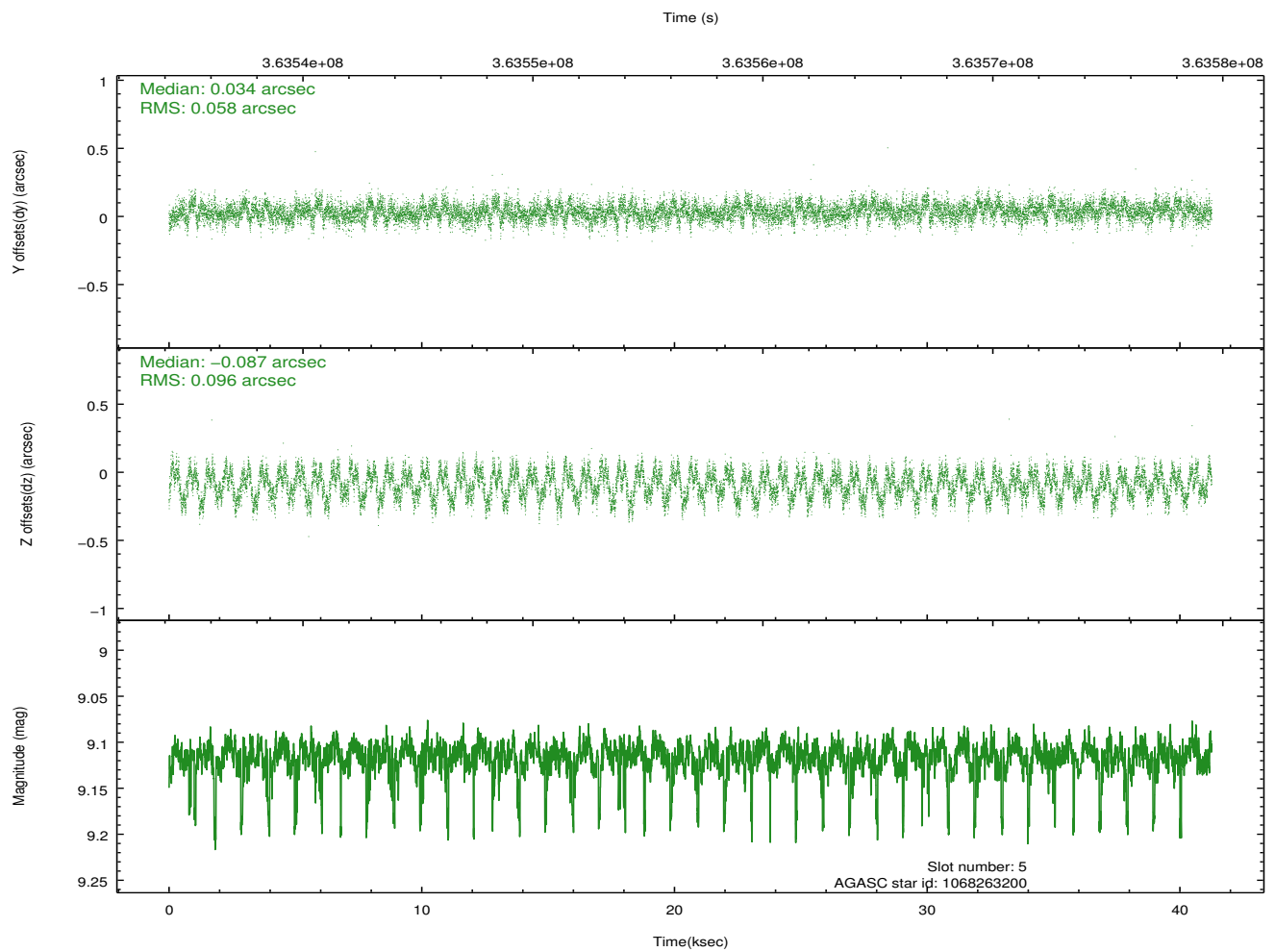
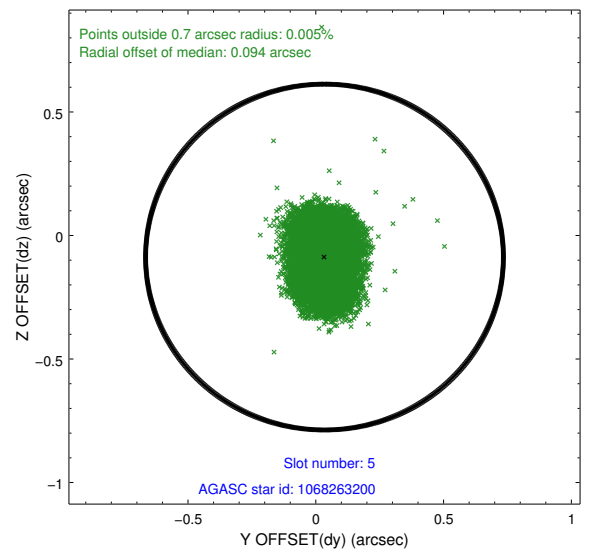
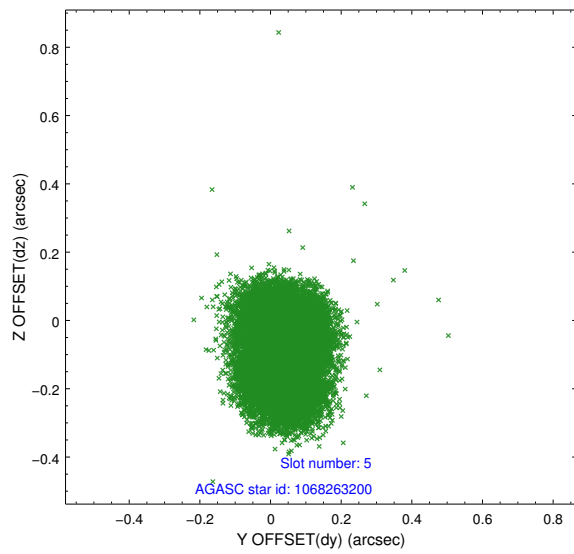
2.4.1 Slot 3



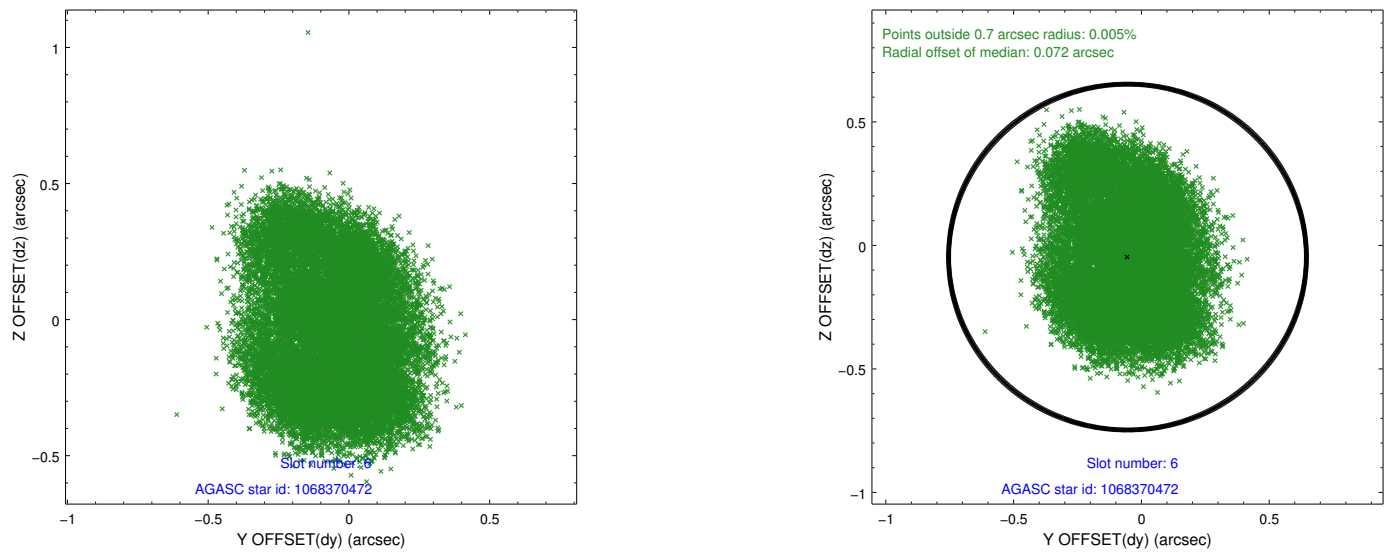
2.4.2 Slot 4



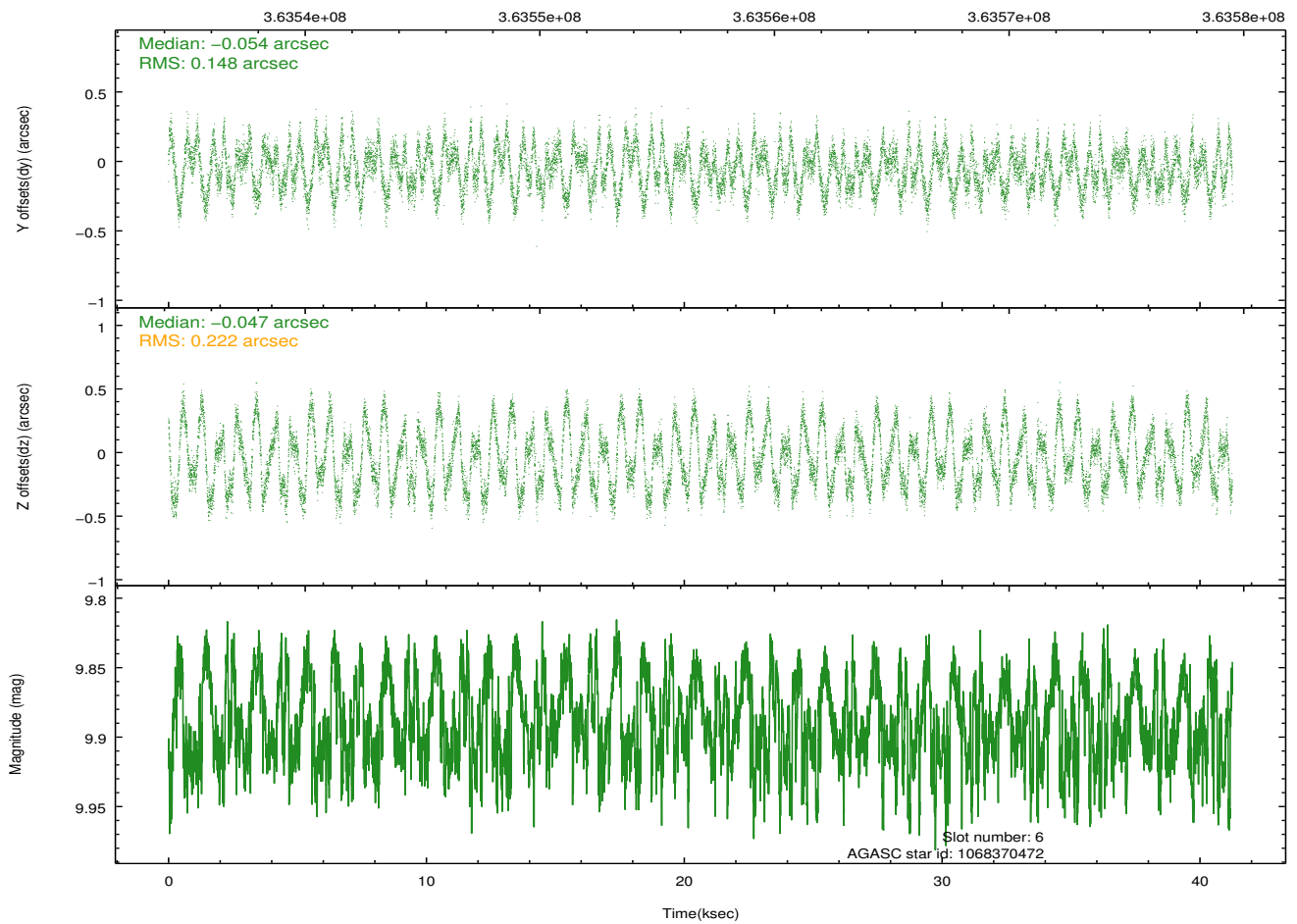
2.4.3 Slot 5



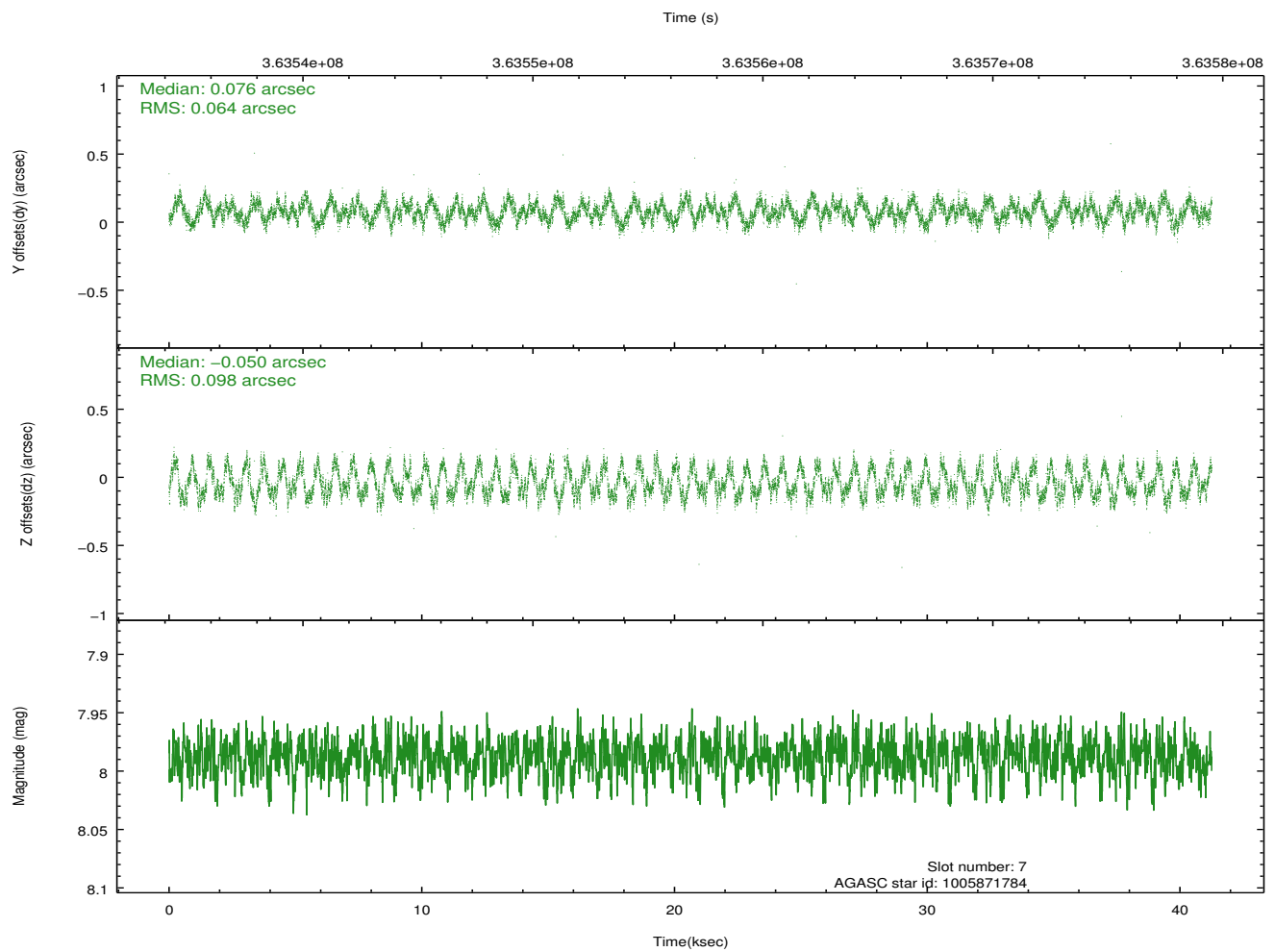
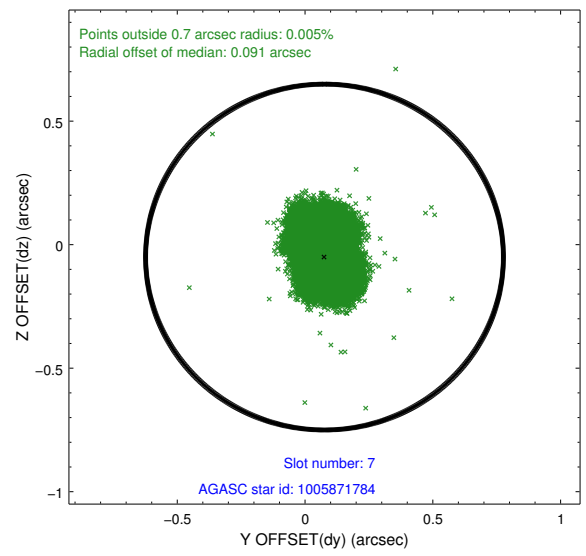
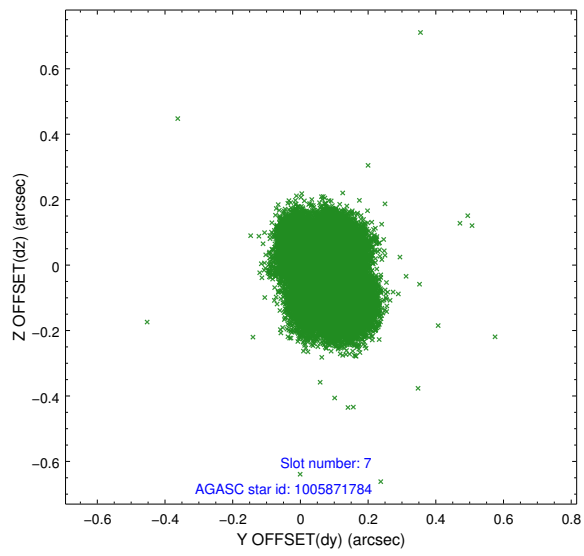
2.4.4 Slot 6



Time (s)

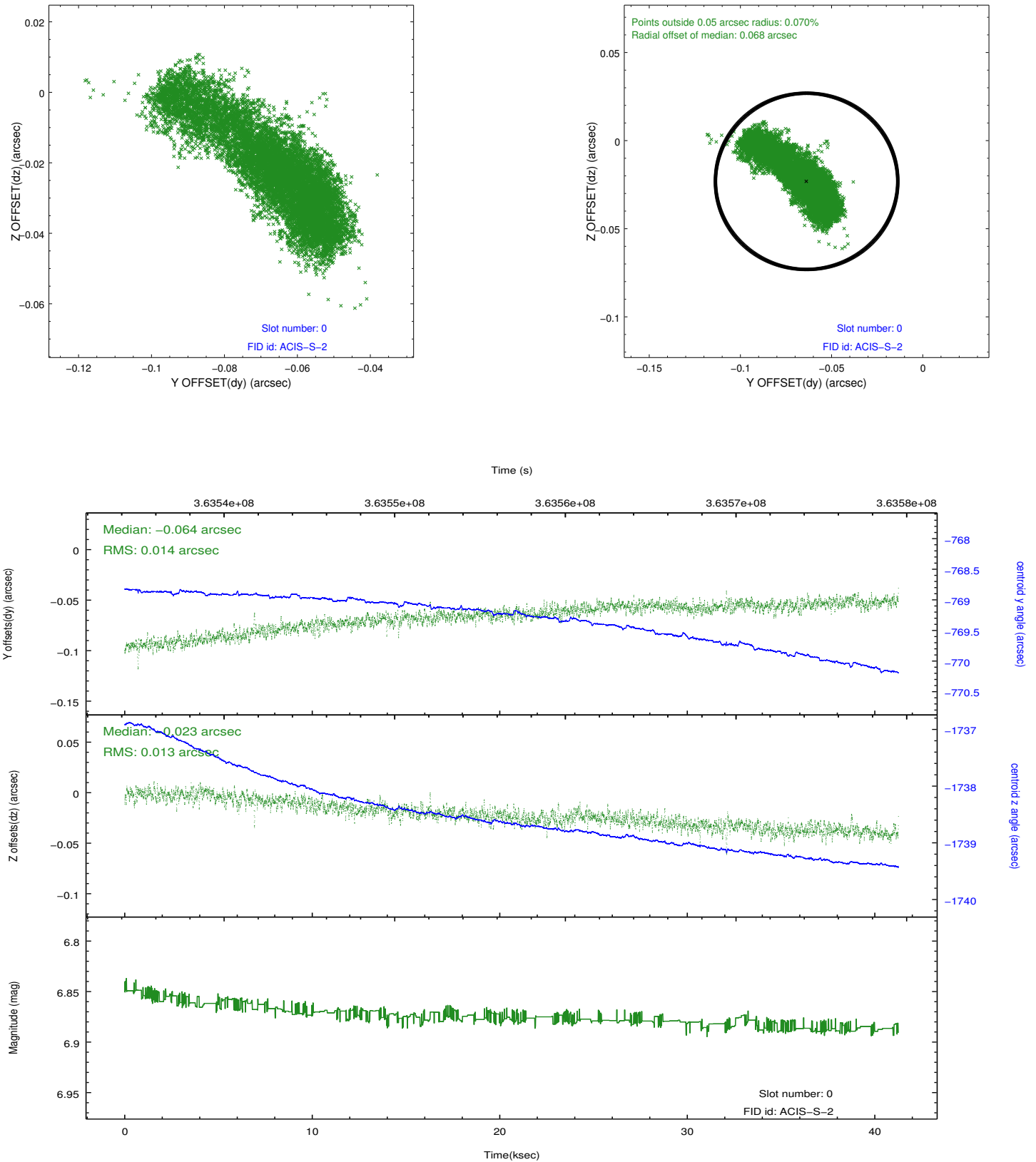


2.4.5 Slot 7

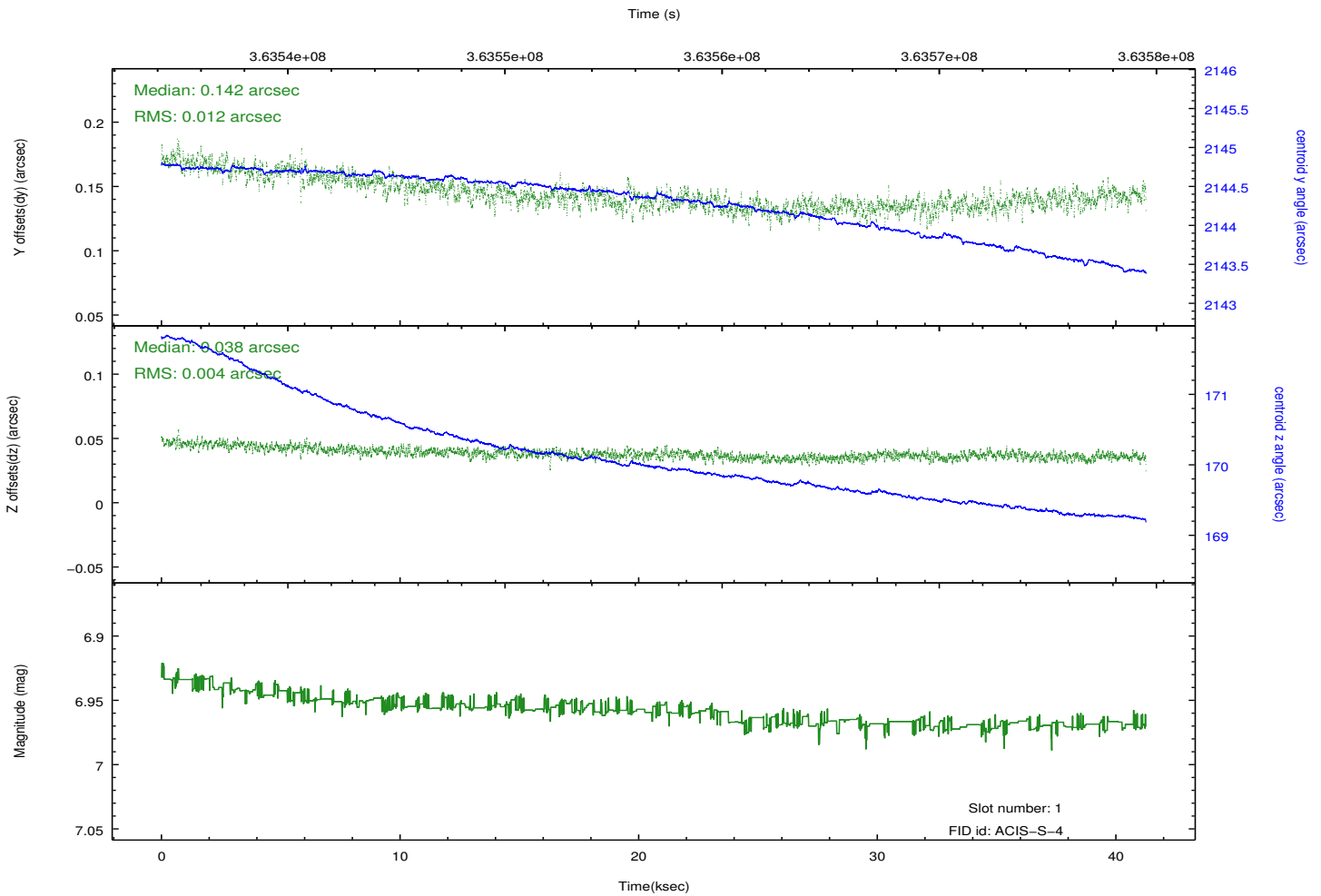
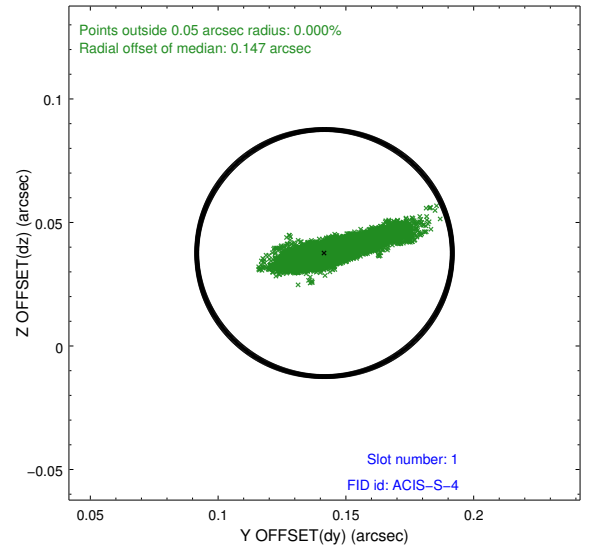
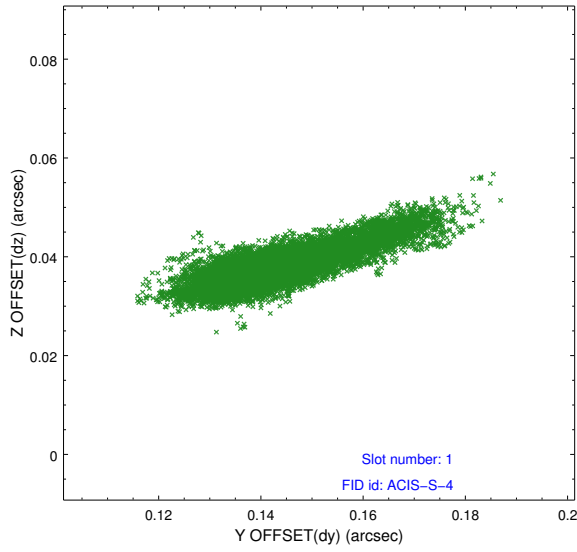


2.5 FID Slots

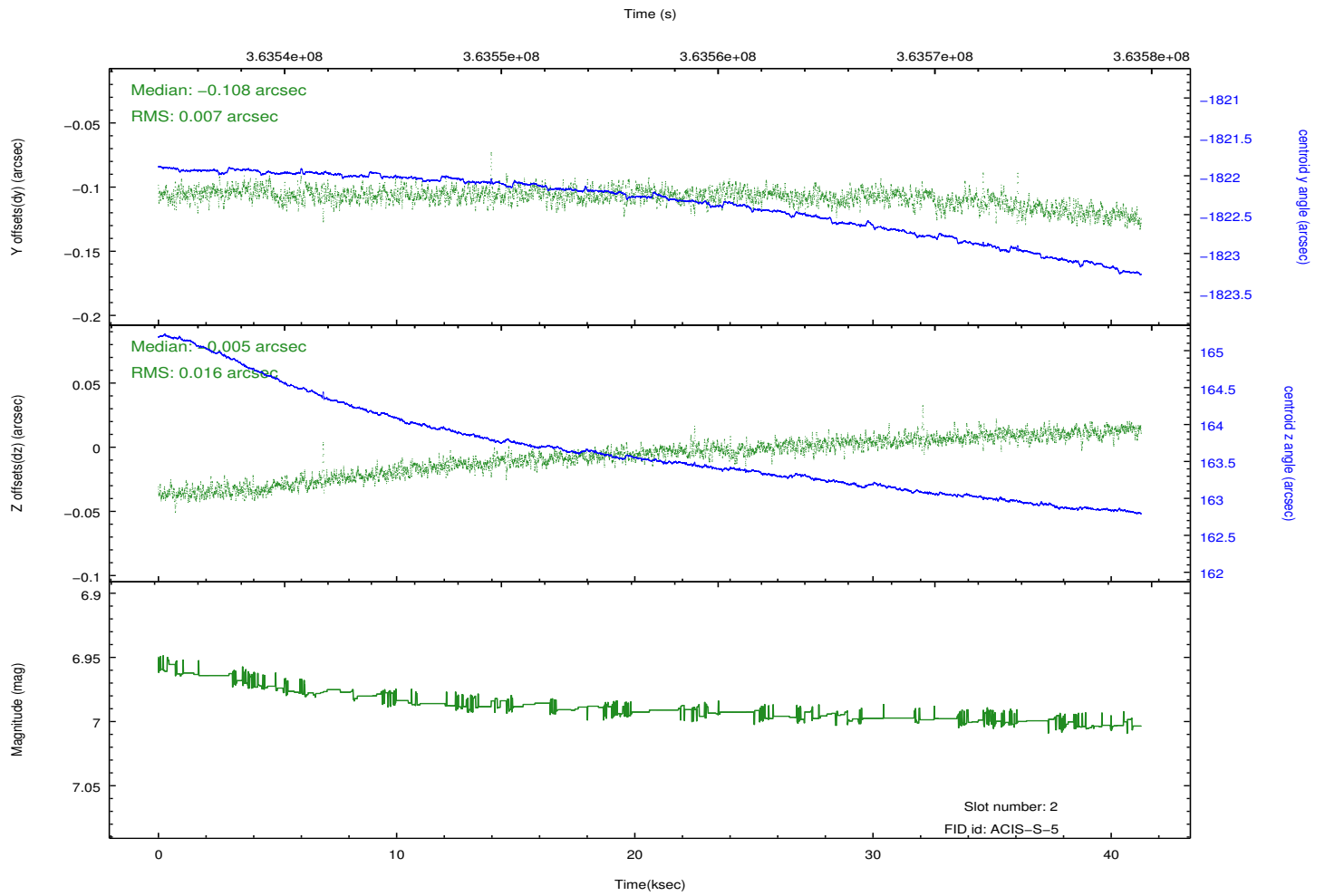
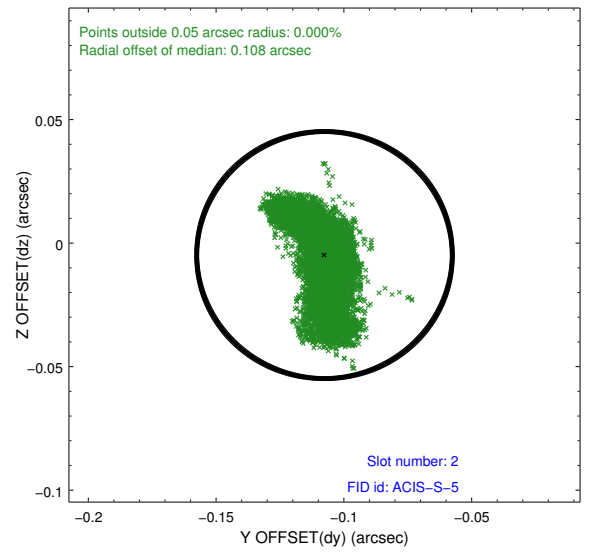
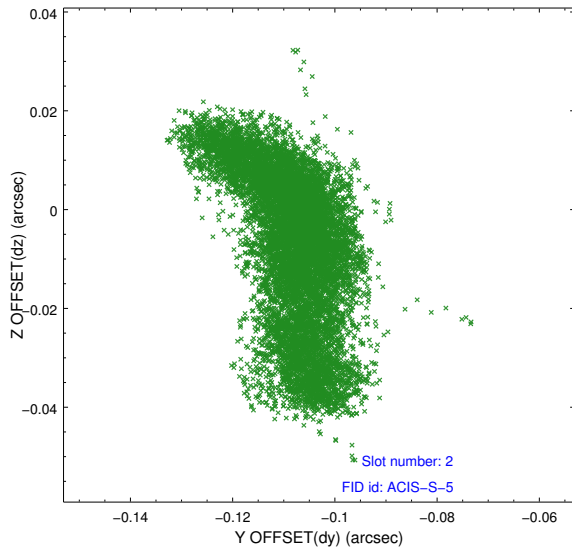
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.0415998

A.2 Comments

Roll preference met.