

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 9333 - L2 Version 2
Chandra X-Ray Center

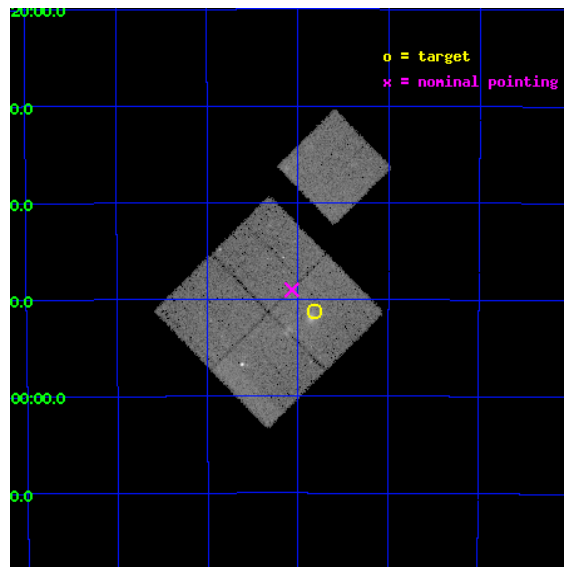
L2 Processing Date : Jun 11 2012

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1 Front

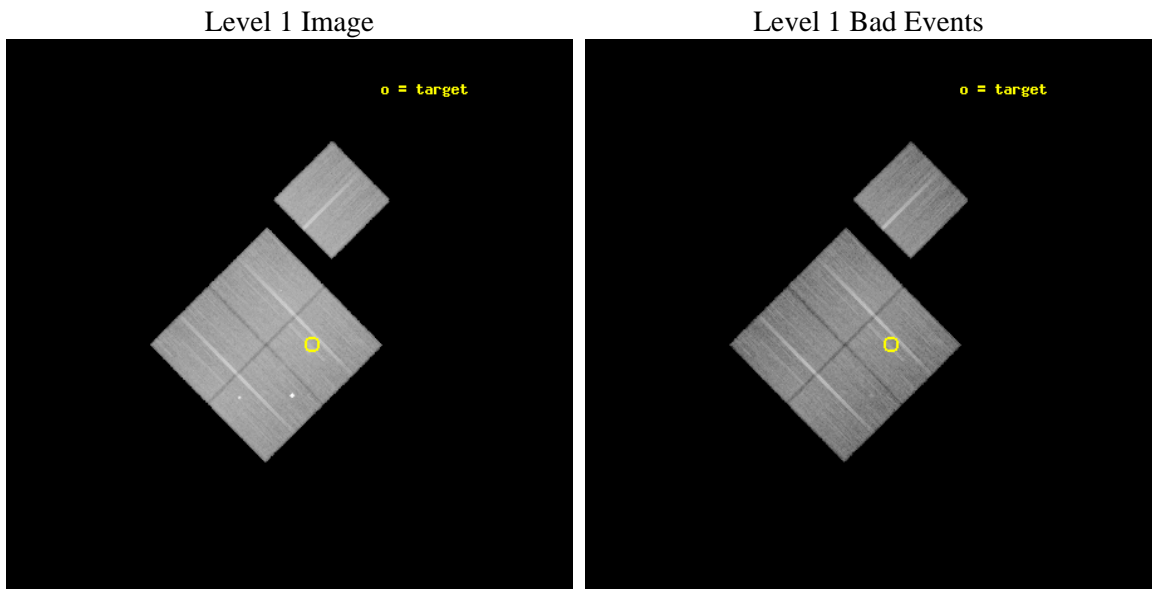
seq_num	800670	Sequence number
obs_id	9333	Observation id
title	Chandra Observations of SZ-selected Galaxy Clusters Detected by the South Pole Telescope	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SPT-CL 2332-5051	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	352.954	Observer's specified target RA [deg]
dec_targ	-50.8542	Observer's specified target Dec [deg]
ra_nom	353.01673281816	Nominal RA [deg]
dec_nom	-50.816909359418	Nominal Dec [deg]
roll_nom	45.327590894742	Nominal Roll [deg]
revision	2	Processing version of data
ontime	29040.800223351	Sum of GTIs [s]
livetime	28661.360788906	Livetime [s]
ontime0	29040.800223351	Sum of GTIs [s]
ontime1	29037.65922302	Sum of GTIs [s]
ontime2	29031.377212405	Sum of GTIs [s]
ontime3	29040.800223351	Sum of GTIs [s]
ontime6	29040.800223351	Sum of GTIs [s]
l2events	115869	Number of level 2 events



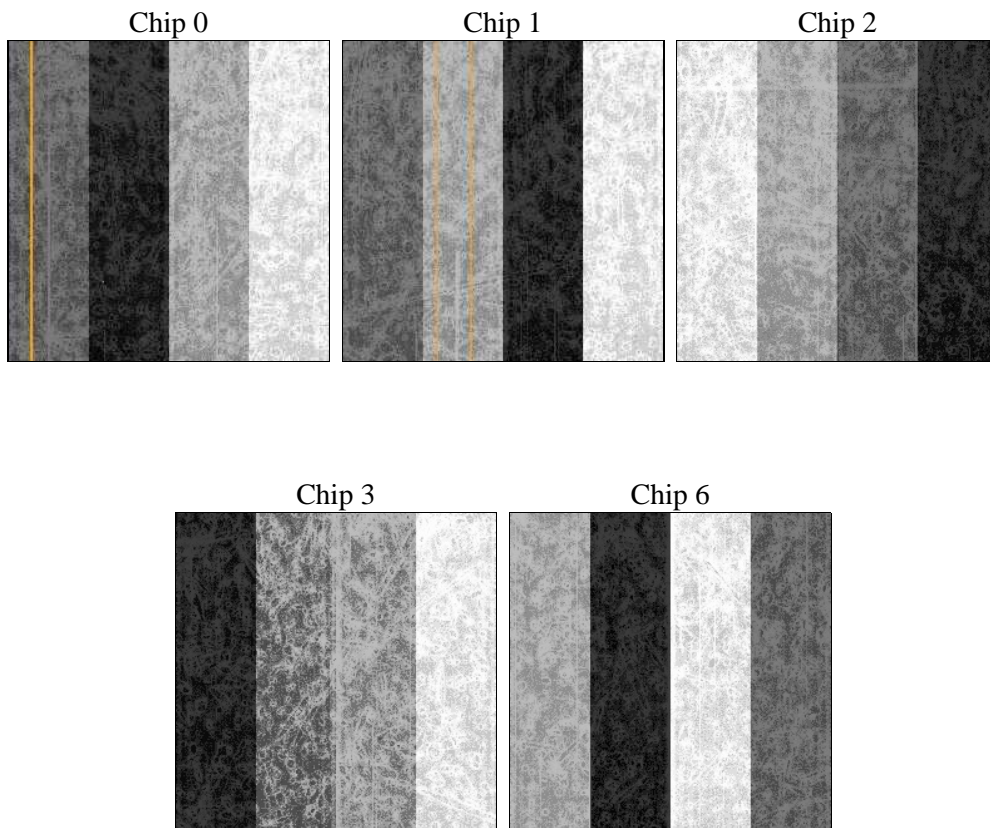
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	29040.800223351	Sum of GTIs [s]
caldbver	4.4.10	 	ontime0	29040.800223351	Sum of GTIs [s]
date	2012-06-11T17:54:57	Date and time of file creation	ontime1	29037.65922302	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	29031.377212405	Sum of GTIs [s]
			ontime3	29040.800223351	Sum of GTIs [s]
			ontime6	29040.800223351	Sum of GTIs [s]
			l1events	1275830	Number of level 1 events

2.1.4 Events

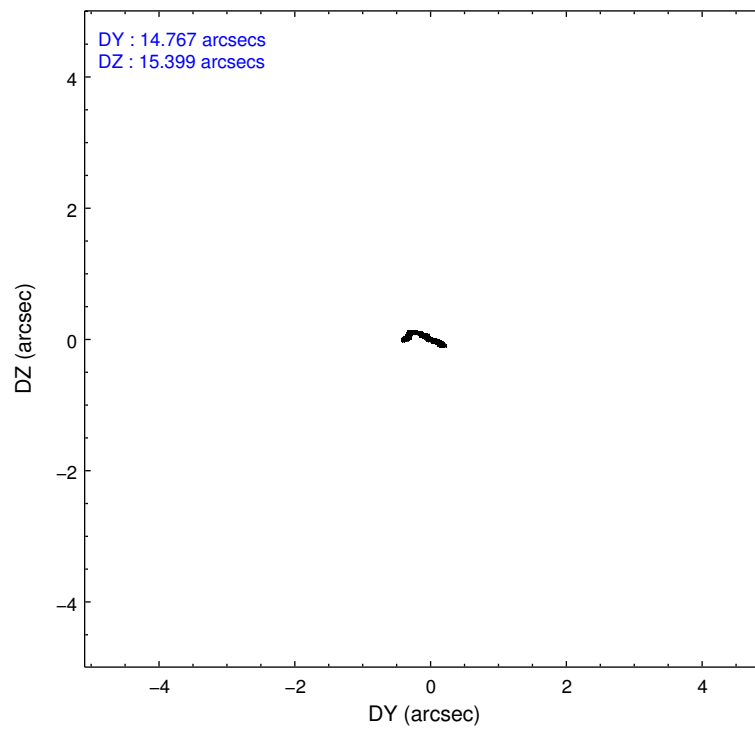
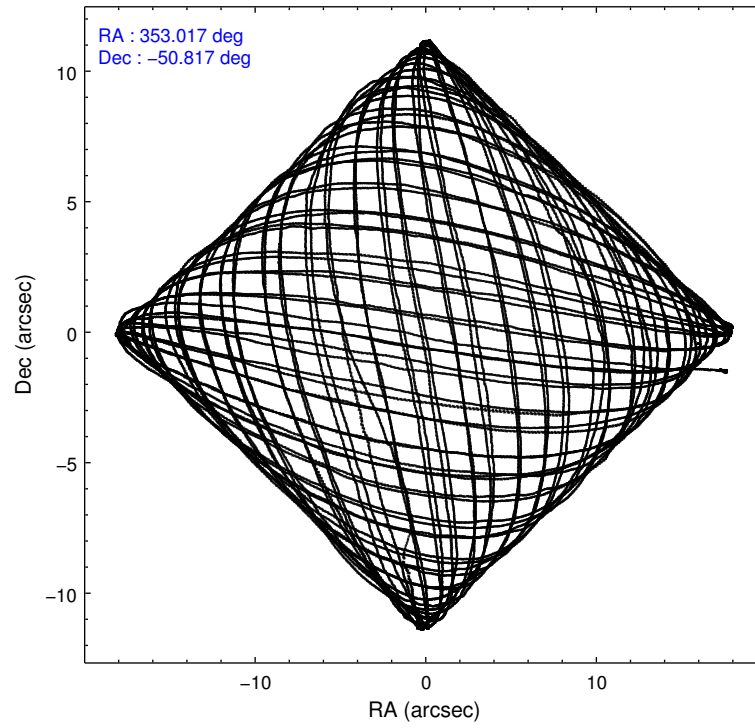
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	240079	249840	272108	258303	255500
rejected events	214109	208998	246117	230772	228568
rejected %	89%	83%	90%	89%	89%

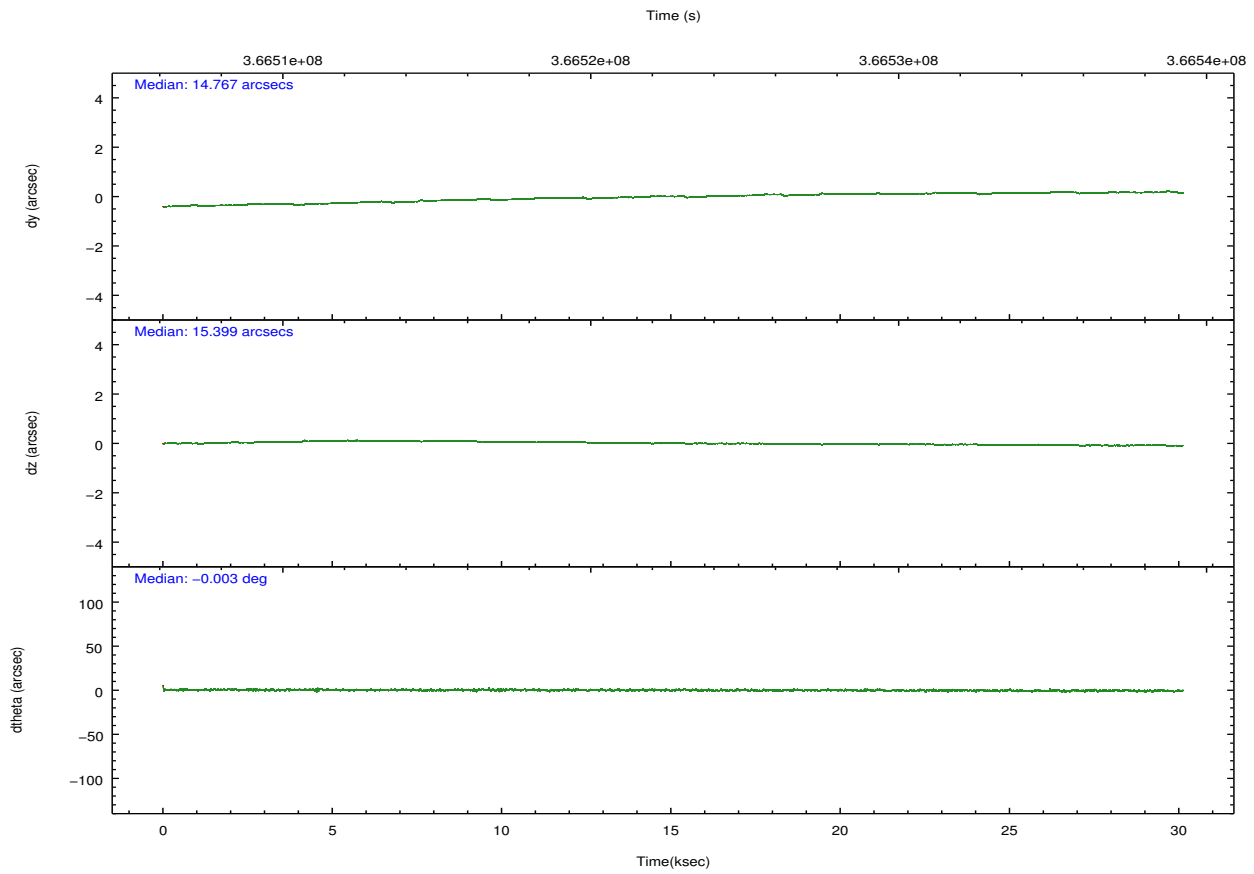
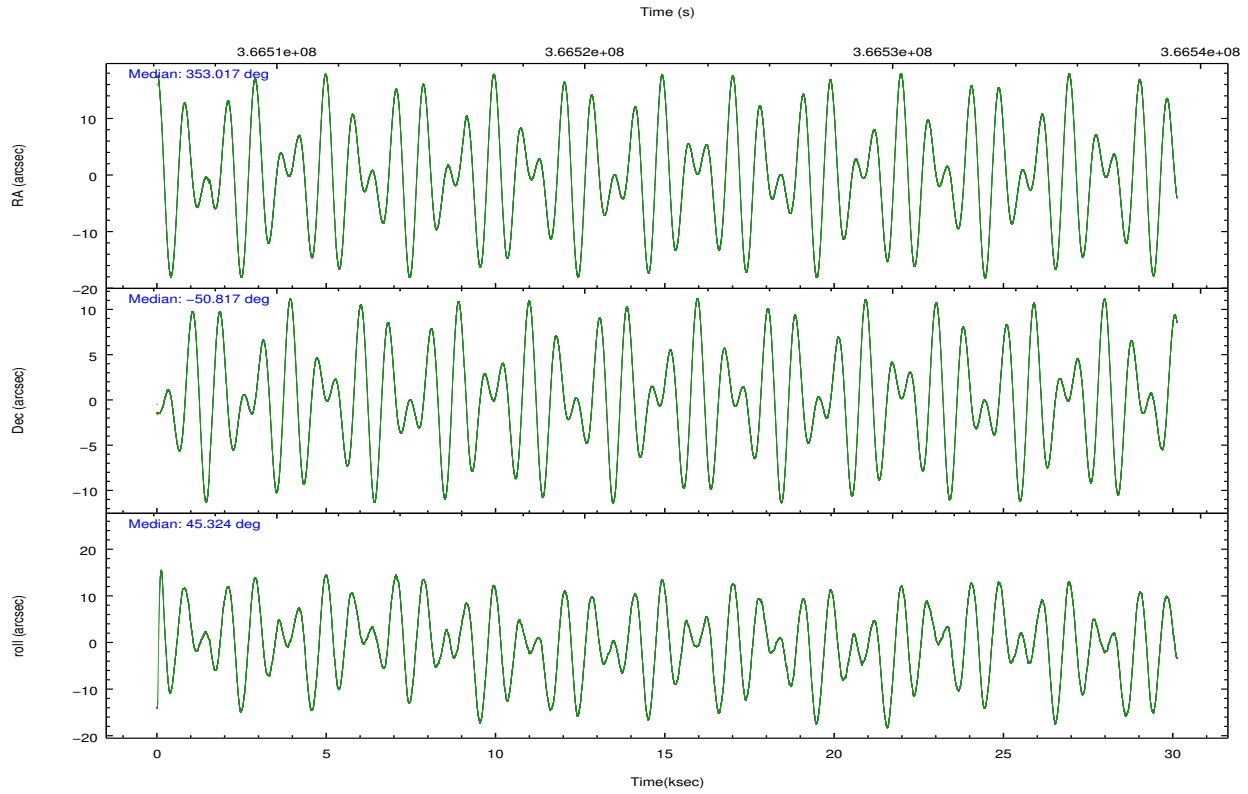
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8918	21324	9512	11001	9396
	3%	8%	3%	4%	3%
grade 1 events	124	187	163	178	105
	0%	0%	0%	0%	0%
grade 2 events	6442	7204	6193	5723	6000
	2%	2%	2%	2%	2%
grade 3 events	2818	3165	2713	2824	2834
	1%	1%	0%	1%	1%
grade 4 events	2726	3219	2783	2829	2865
	1%	1%	1%	1%	1%
grade 5 events	9164	10218	8742	10816	10344
	3%	4%	3%	4%	4%
grade 6 events	5070	5935	4795	5160	5839
	2%	2%	1%	1%	2%
grade 7 events	204817	198588	237207	219772	218117
	85%	79%	87%	85%	85%

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	353.005869	353.0167328181635	CCD I2 on	Y	Y
[deg] Pointing Dec	-50.843536	-50.81690935941823	CCD I3 on	Y	Y
[deg] Pointing Roll	45.110497	45.3275908947416	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	O1	Y
[mm] SIM translation stage pos	-225.840463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.752	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	366508739.184000	366507070.73602	CCD S5 on	N	N
Observation start date	2009-08-12T23:57:53	2009-08-12T23:31:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	366537739.184000	366538607.4251	On-chip summing requested	N	N
Observation end date	2009-08-13T08:01:13	2009-08-13T08:16:47	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



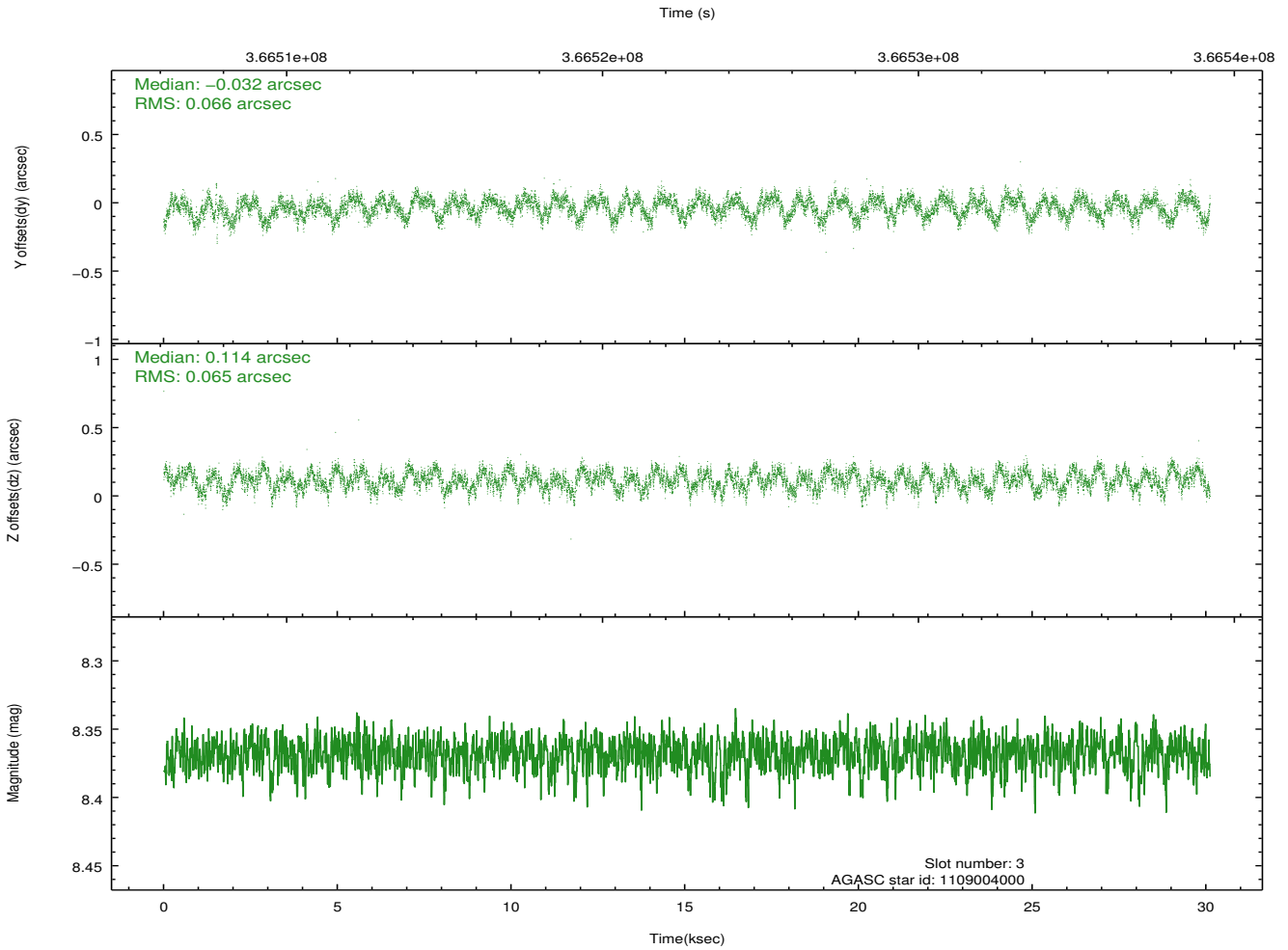
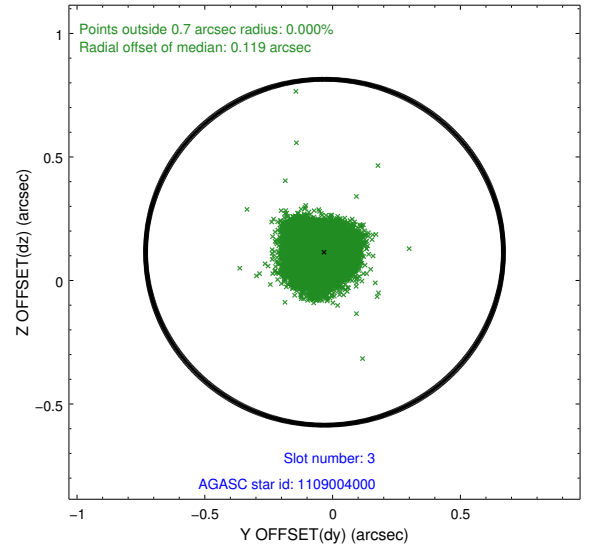
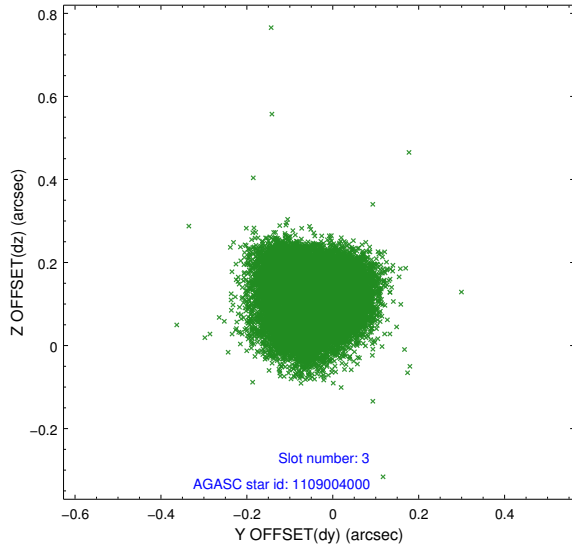


Slot Statistics

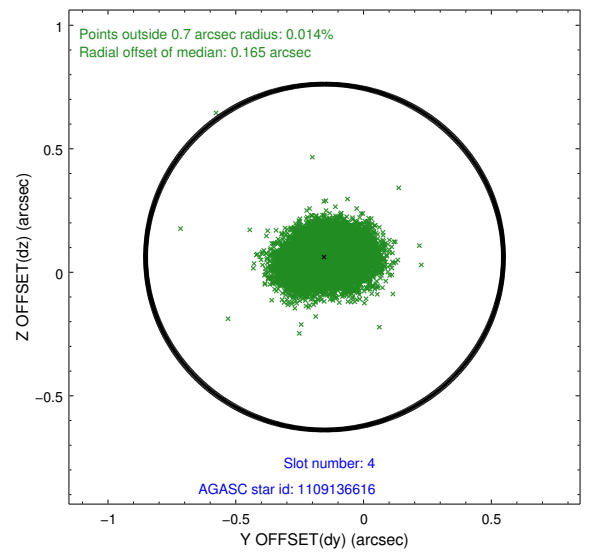
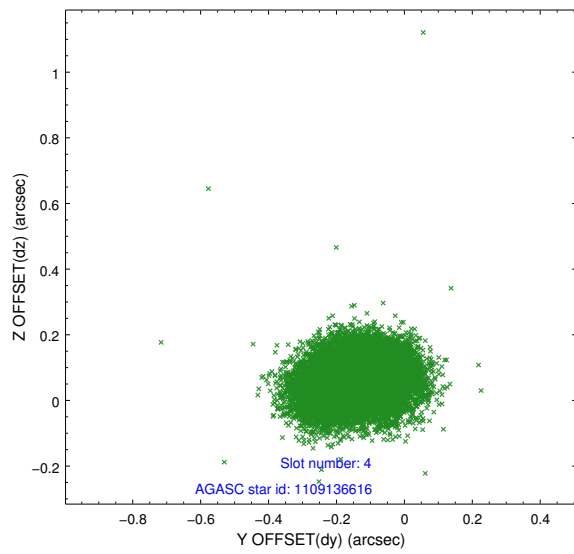
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.00	7345	-0.067	-0.061	0.013	0.022	0.000000	0.000000	-770.04	-1003.49
1	FID	ACIS-I-4	6.95	7346	0.116	0.060	0.010	0.028	0.000000	0.000000	2144.12	902.71
2	FID	ACIS-I-5	7.02	7346	-0.151	0.069	0.011	0.020	0.000000	0.000000	-1823.47	899.64
3	GUIDE	1109004000	8.37	14685	-0.032	0.114	0.100	0.154	352.284405	-51.019762	-1607.11	704.06
4	GUIDE	1109136616	9.21	14611	-0.153	0.062	0.112	0.179	353.560887	-50.553400	1632.48	-165.38
5	GUIDE	1109138480	10.16	14443	0.155	-0.020	0.158	0.258	353.549910	-50.708644	1216.56	-539.08
6	GUIDE	1109140000	9.73	14654	0.084	0.058	0.202	0.293	353.643260	-50.847199	1009.14	-1040.04
7	GUIDE	1109136520	9.49	14456	-0.051	-0.210	0.143	0.228	352.659181	-50.163921	1167.88	2291.61

2.4 Star Slots

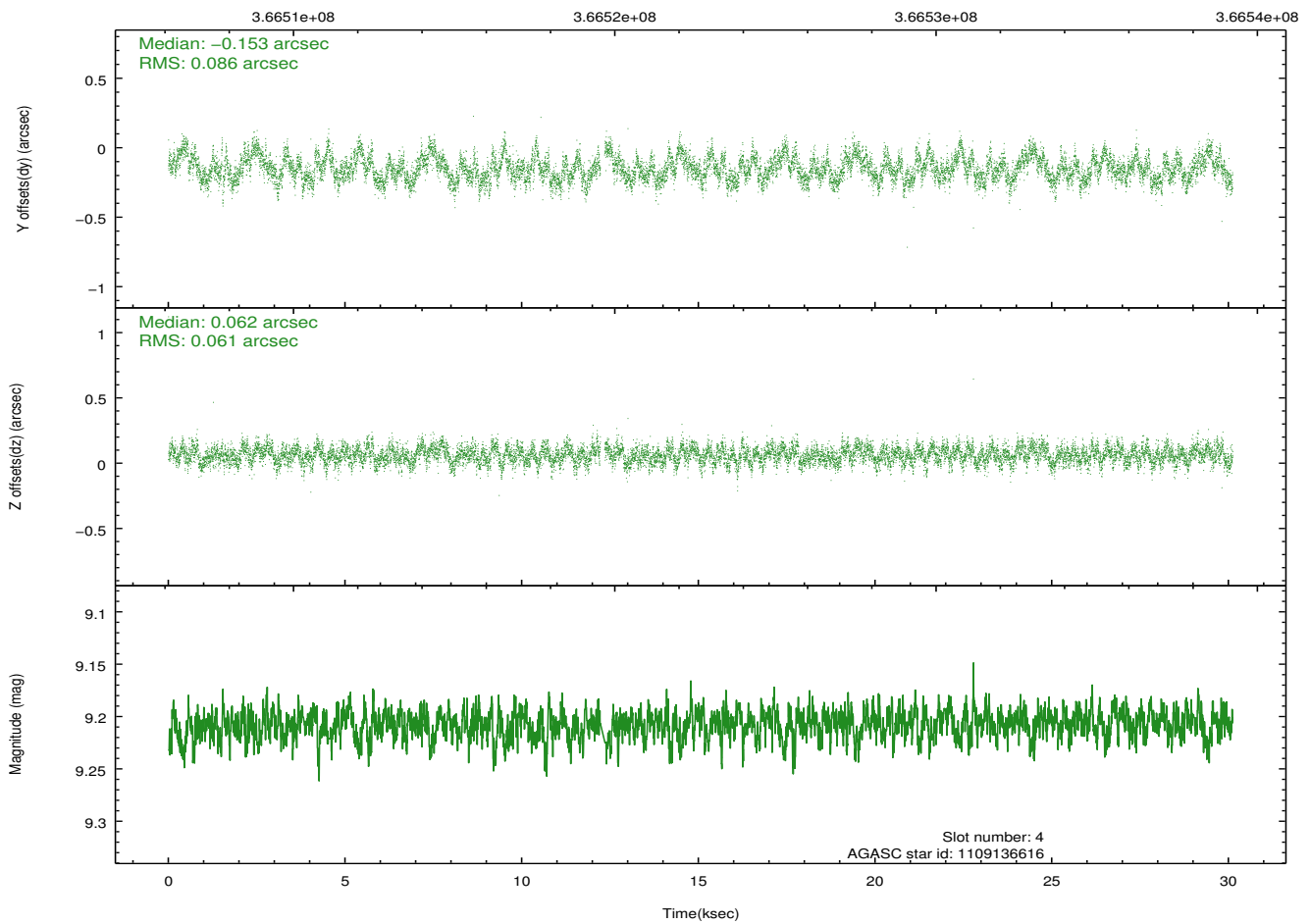
2.4.1 Slot 3



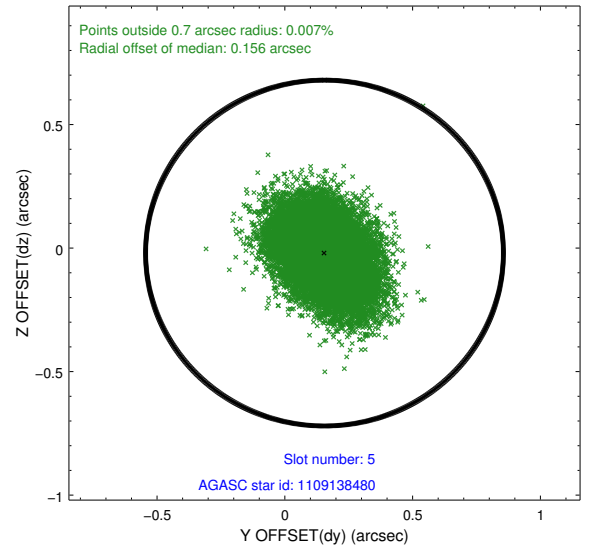
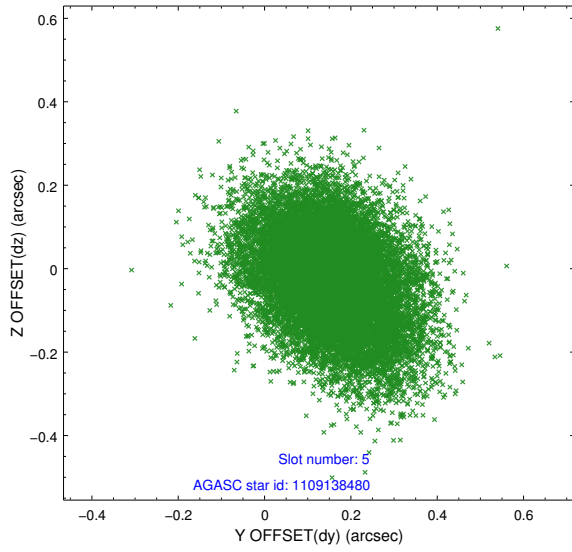
2.4.2 Slot 4



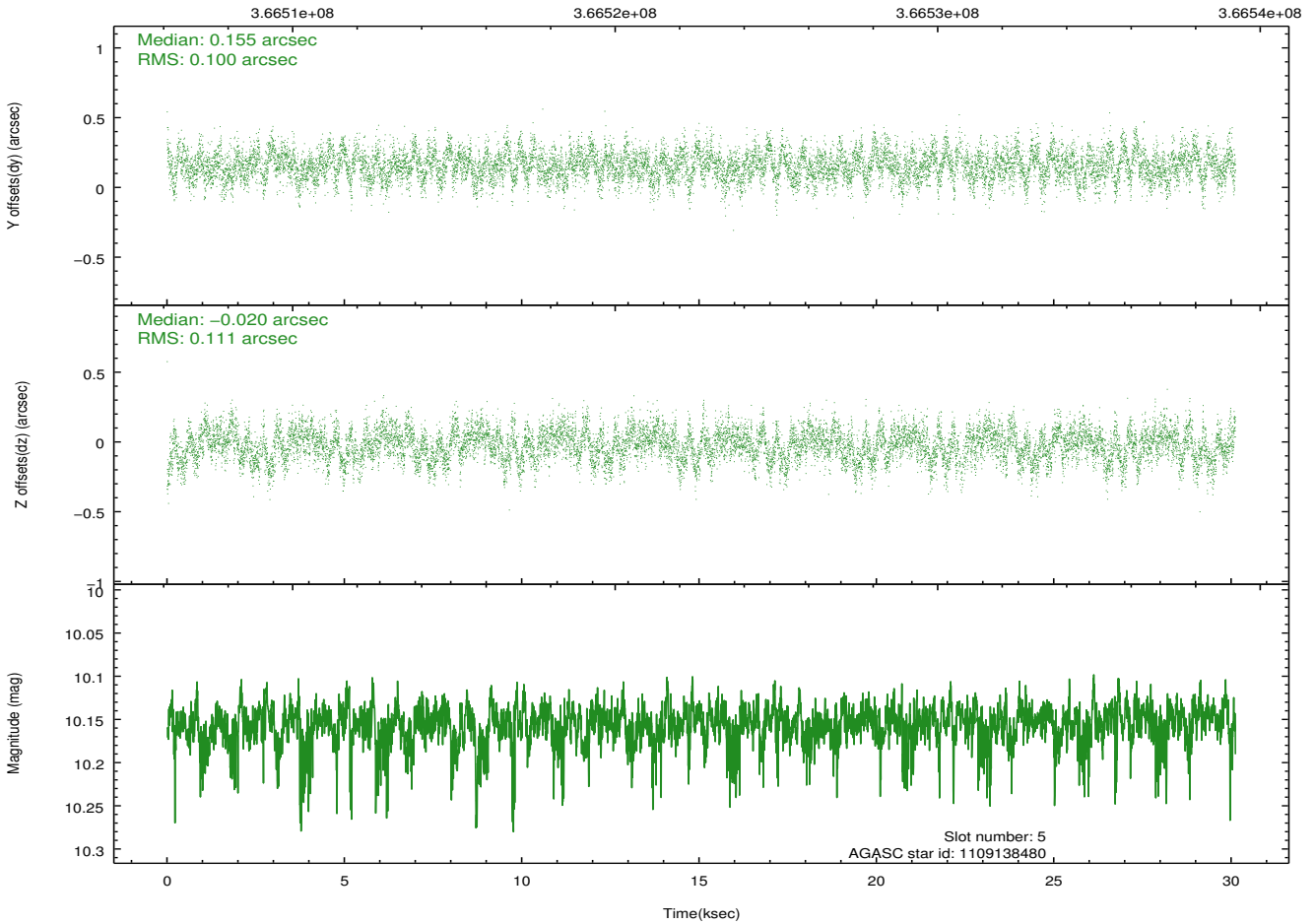
Time (s)



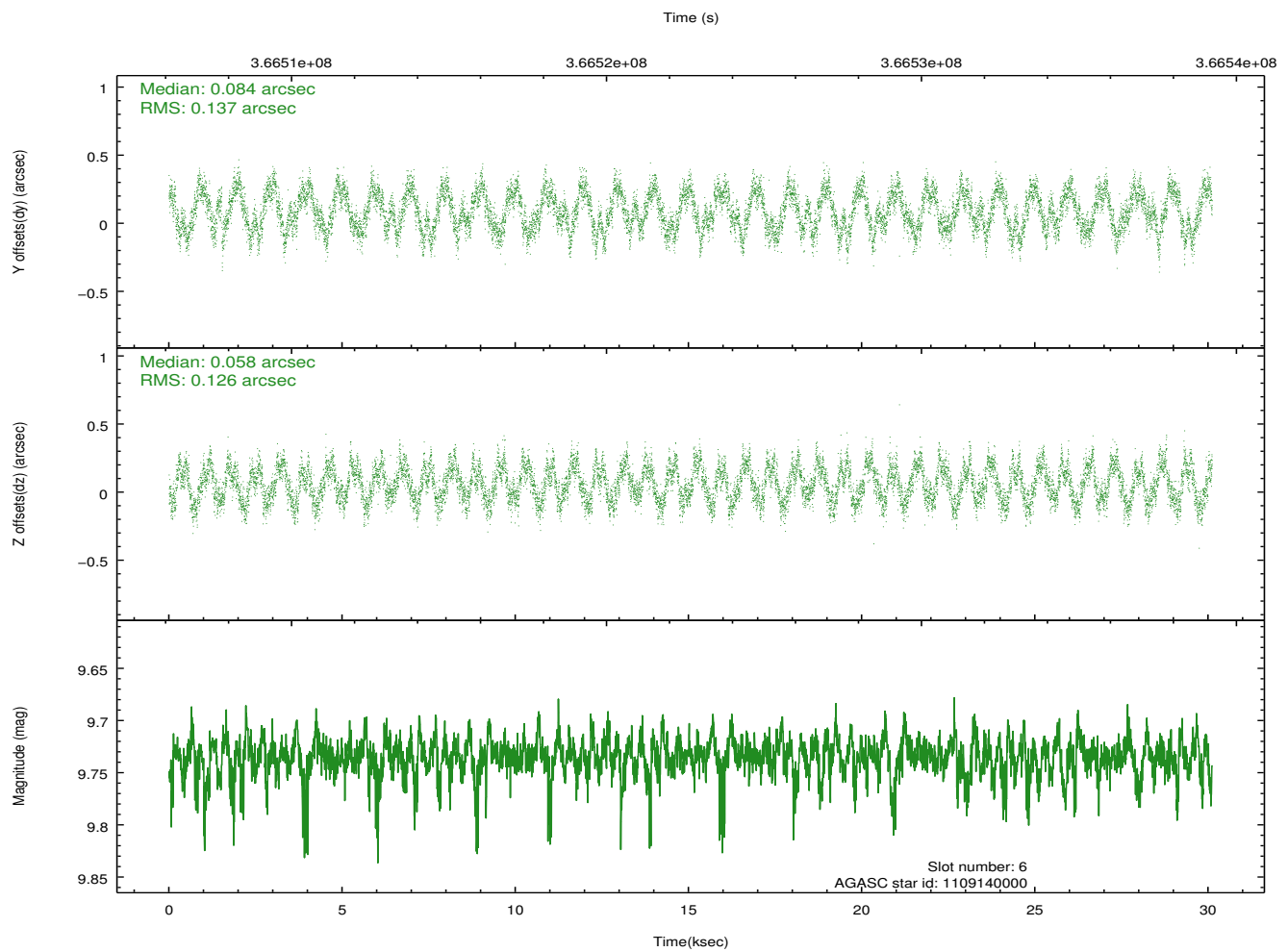
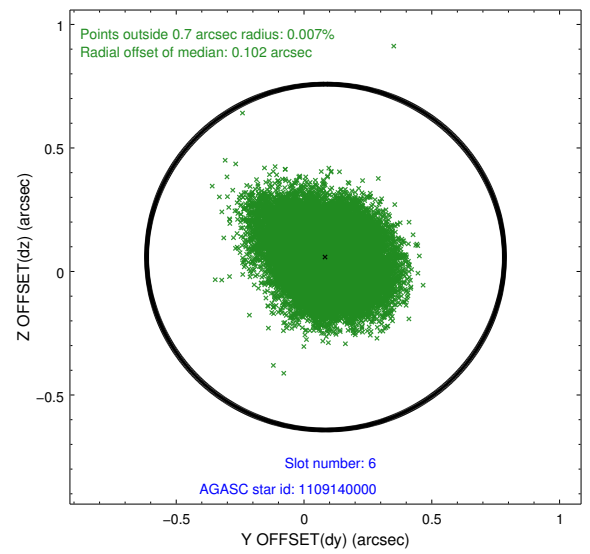
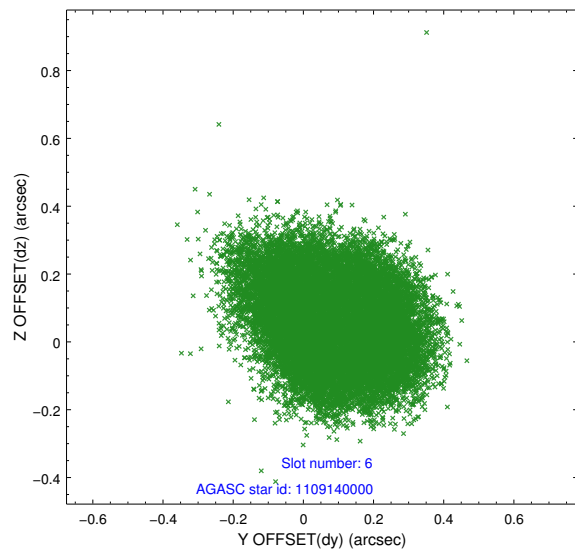
2.4.3 Slot 5



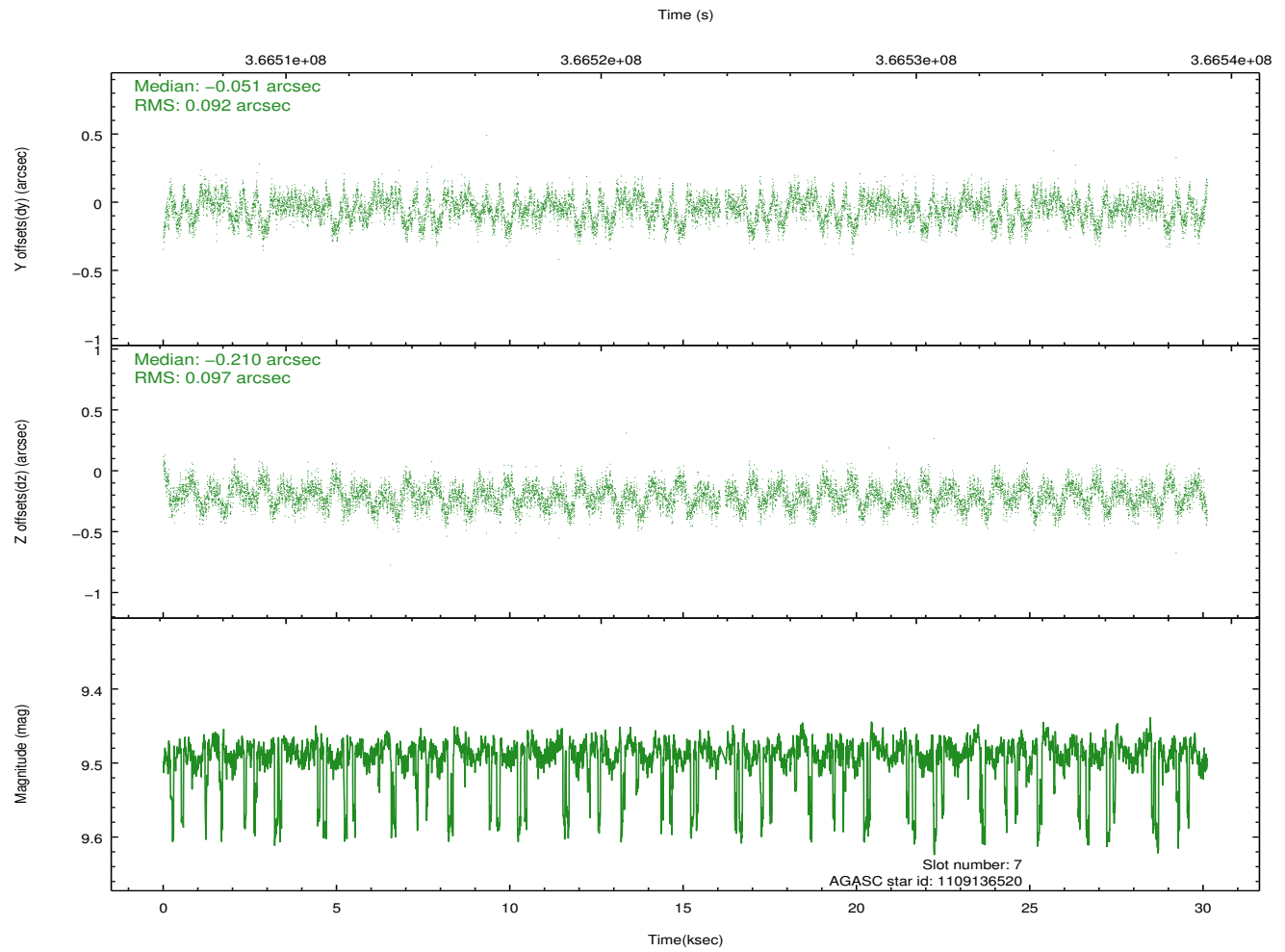
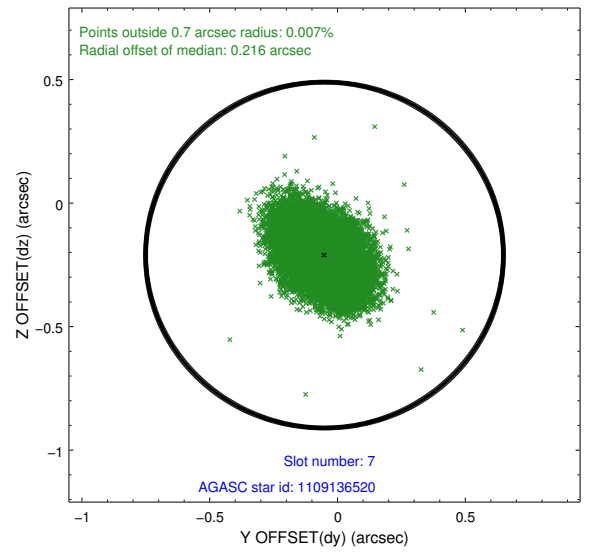
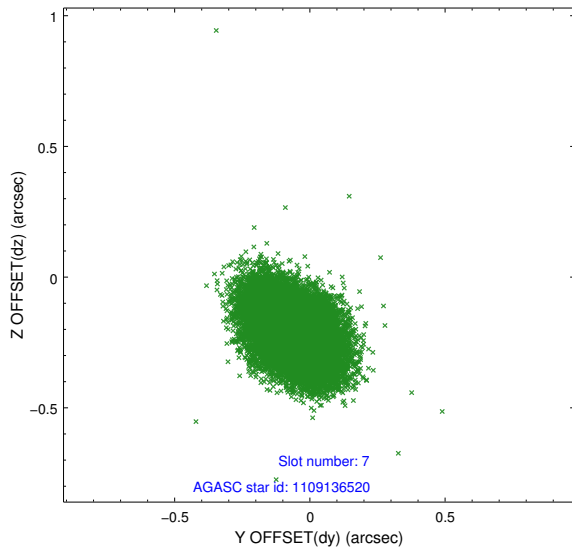
Time (s)



2.4.4 Slot 6

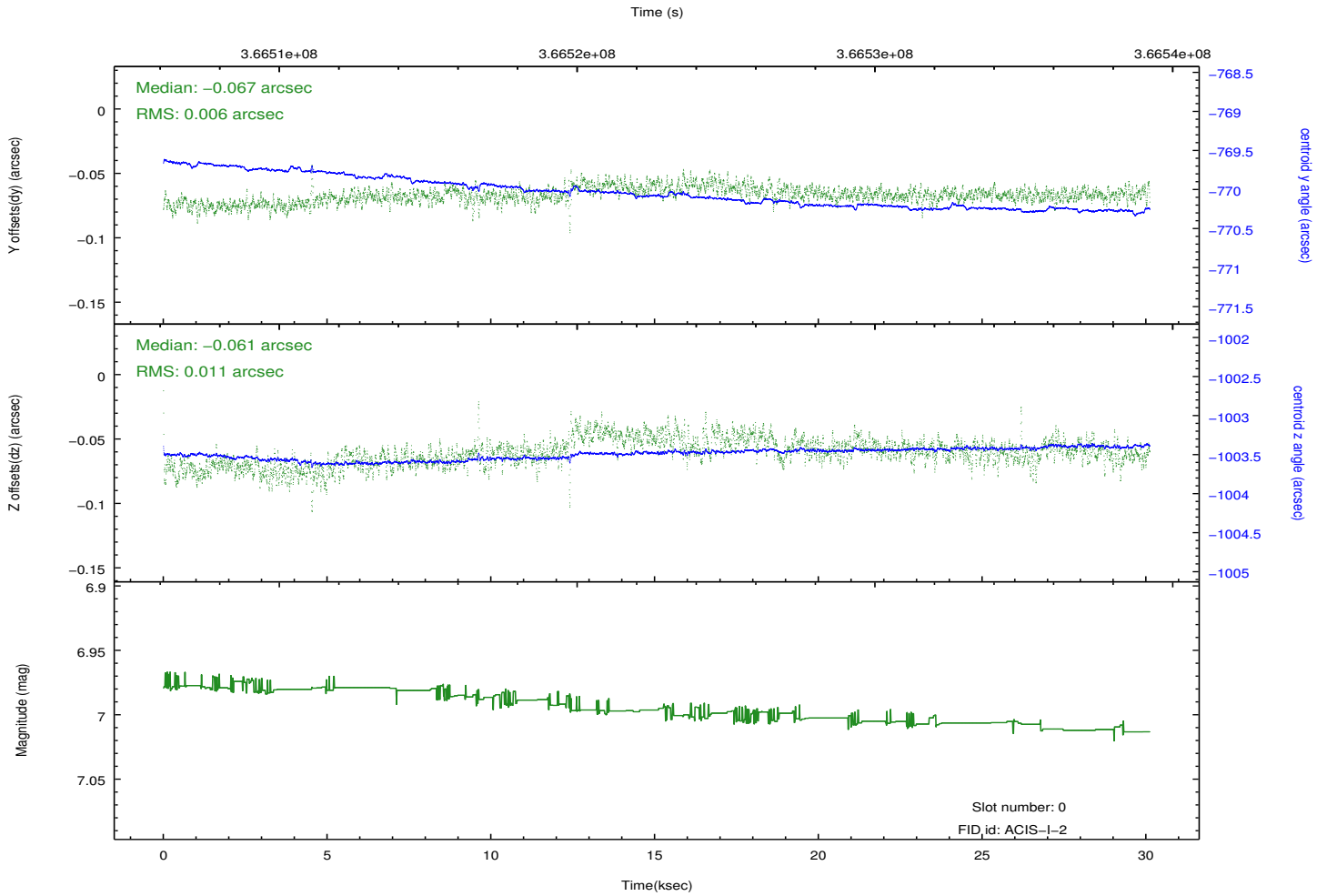
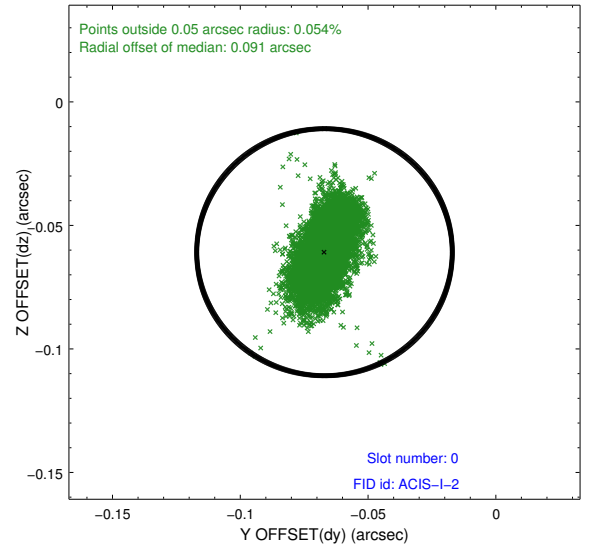
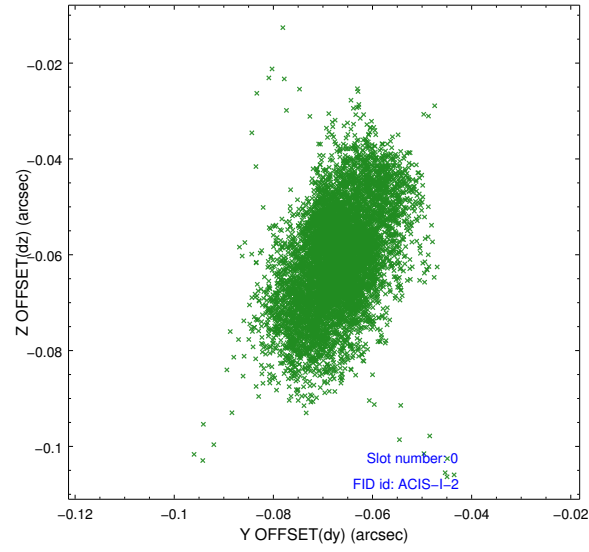


2.4.5 Slot 7

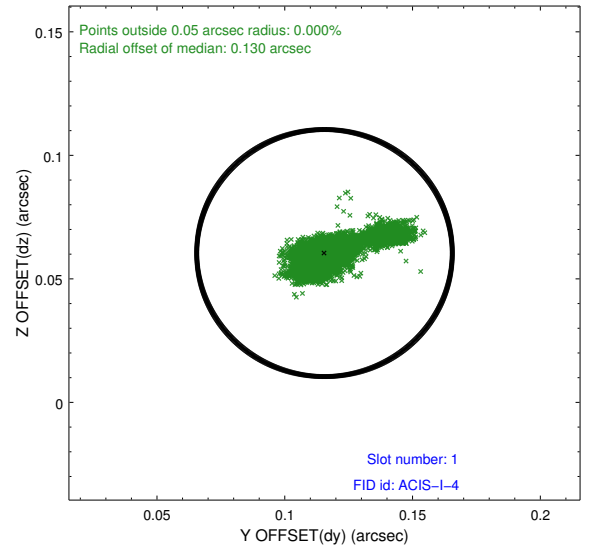
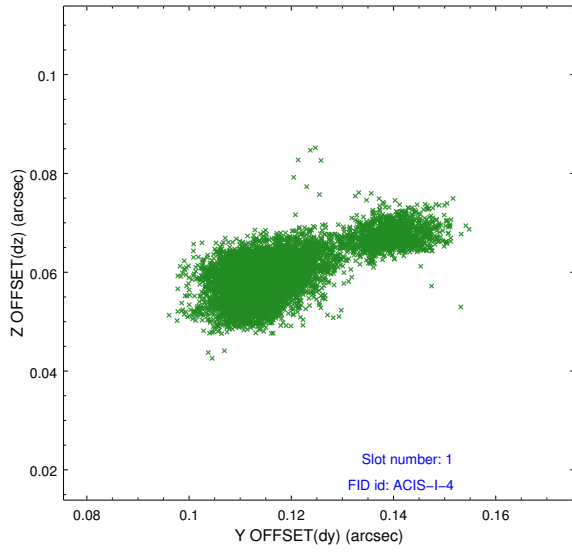


2.5 FID Slots

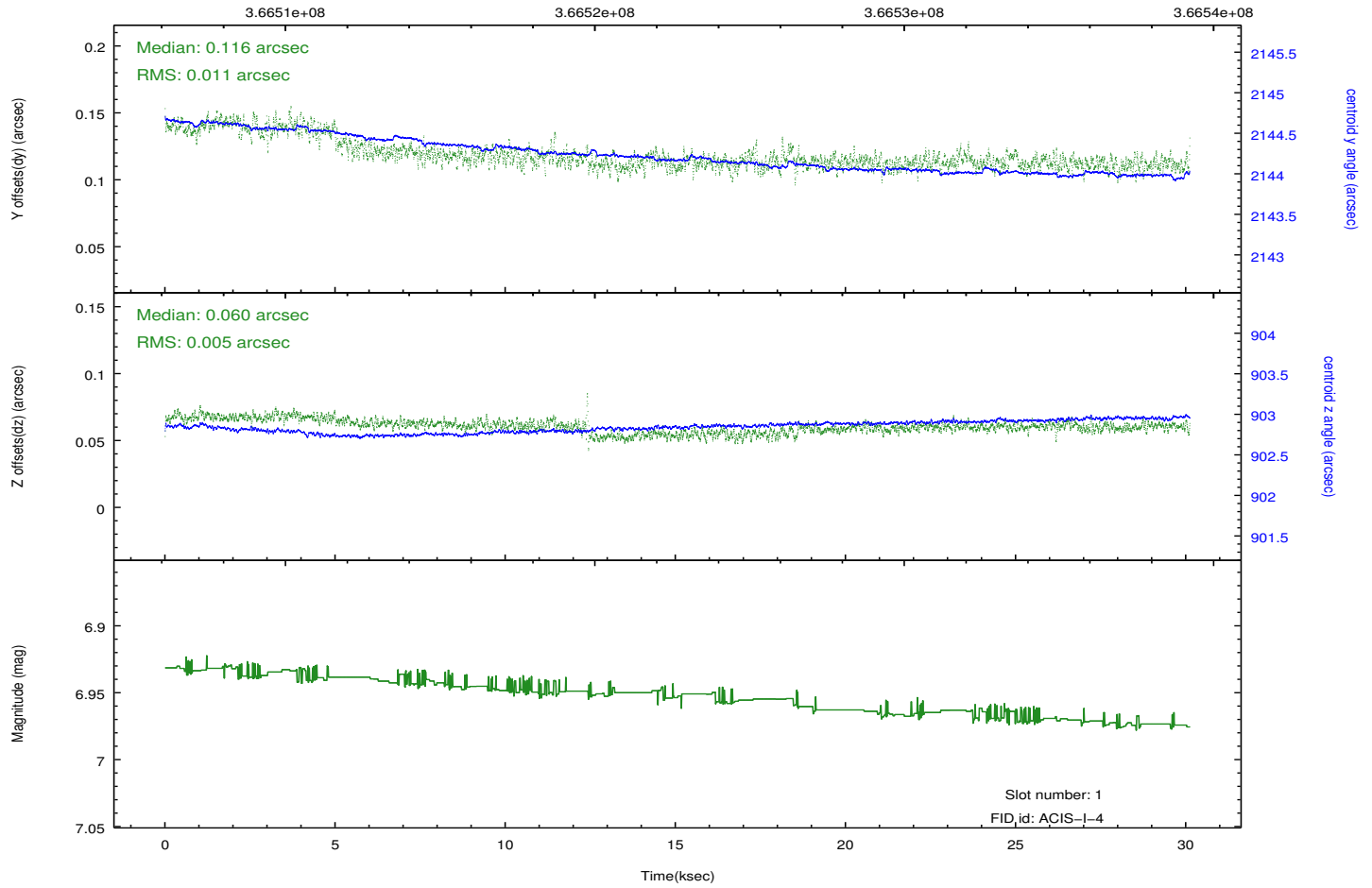
2.5.1 Slot 0



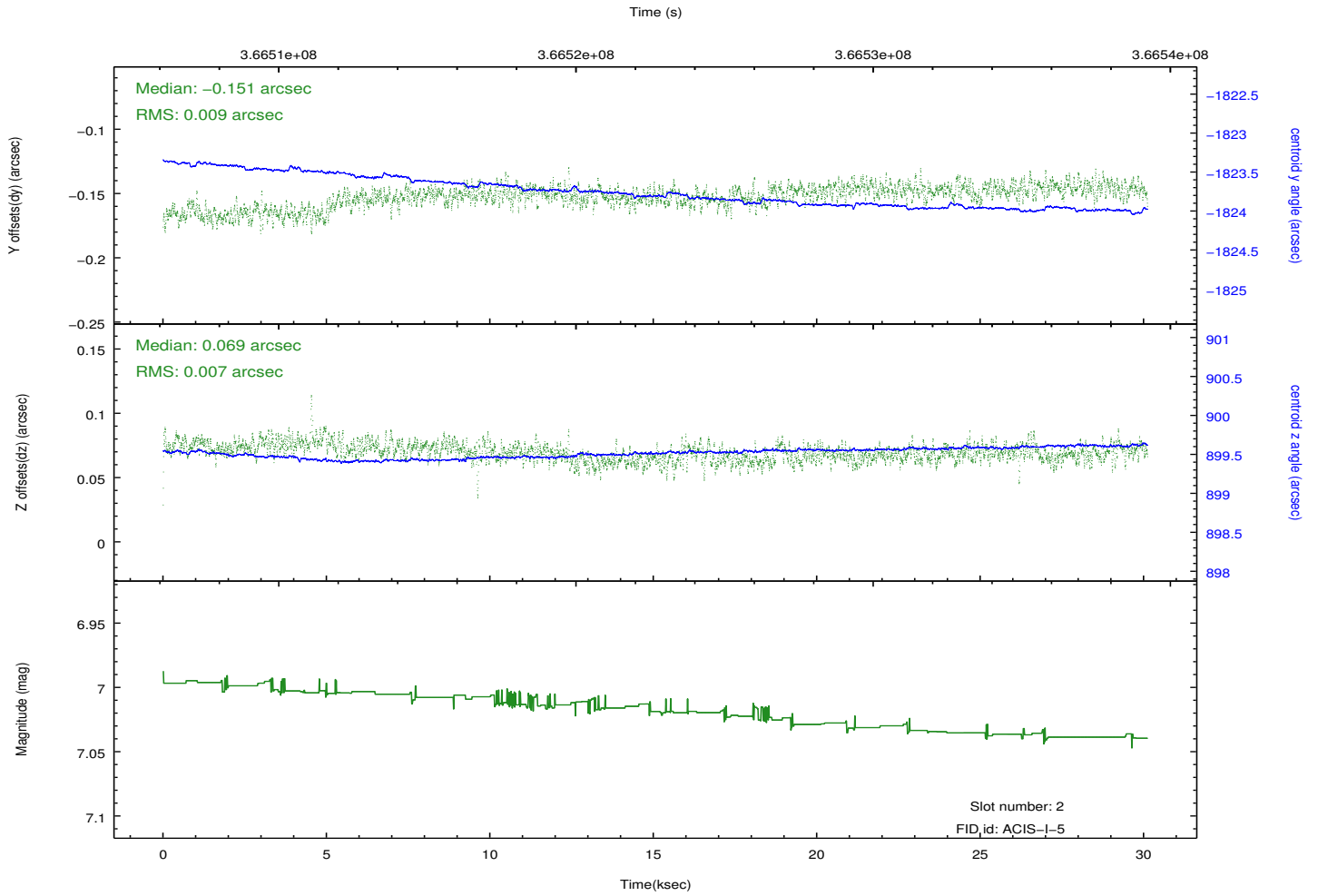
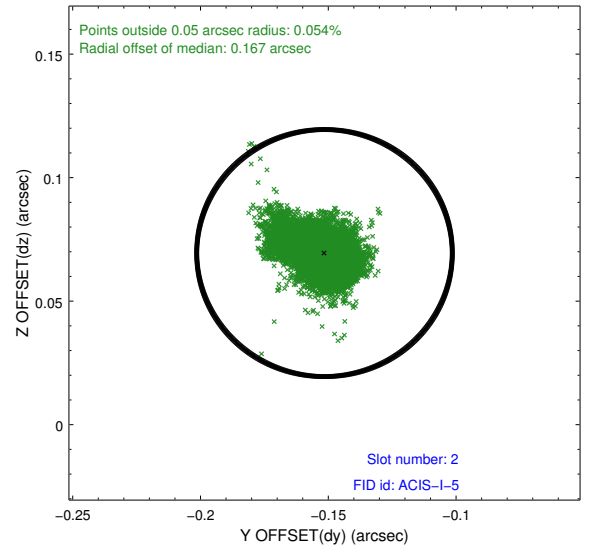
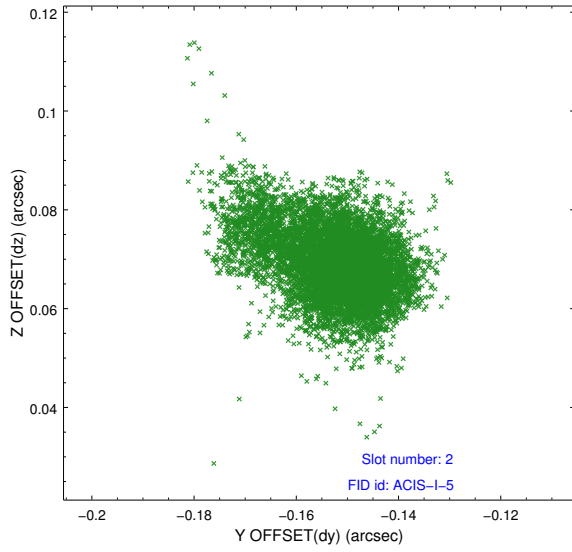
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.040800223351

A.2 Comments