

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 14343 - L2 Version 2
Chandra X-Ray Center

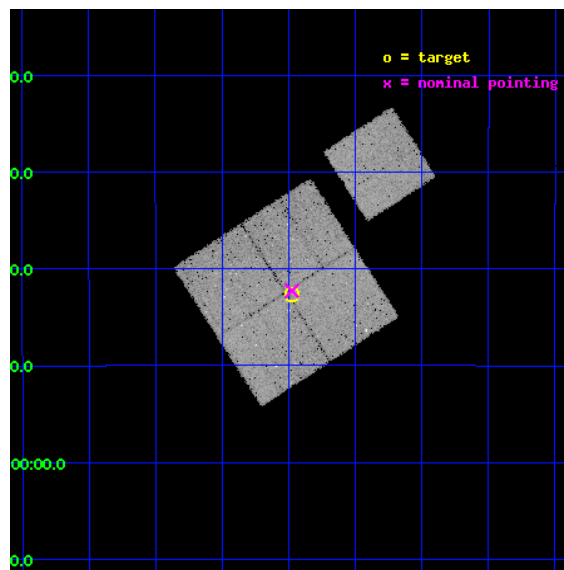
L2 Processing Date : Feb 22 2012

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1 Front

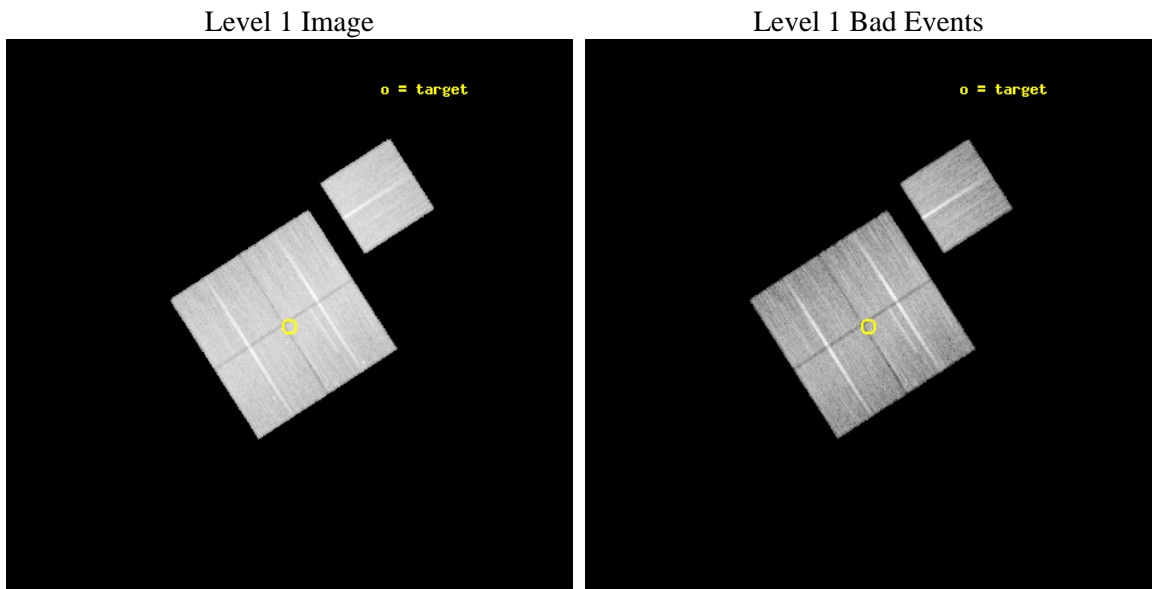
seq_num	801097	Sequence number
obs_id	14343	Observation id
title	CHANDRA EXPLORATION OF THE COSMIC MELTING POT IN THE VIRIALIZATION REGION OF A RICH GALAXY CLUSTER	Proposal title
observer	Dr. Alexey Vikhlinin	Principal investigator
object	A133-4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	15.993043	Observer's specified target RA [deg]
dec_targ	-21.710445	Observer's specified target Dec [deg]
ra_nom	15.99390454111	Nominal RA [deg]
dec_nom	-21.704746967277	Nominal Dec [deg]
roll_nom	57.208994431488	Nominal Roll [deg]
revision	2	Processing version of data
ontime	35767.509661615	Sum of GTIs [s]
livetime	35300.180816228	Livetime [s]
ontime0	35764.245511234	Sum of GTIs [s]
ontime1	35770.568621993	Sum of GTIs [s]
ontime2	35770.609661996	Sum of GTIs [s]
ontime3	35767.509661615	Sum of GTIs [s]
ontime6	35770.486542165	Sum of GTIs [s]
l2events	104130	Number of level 2 events



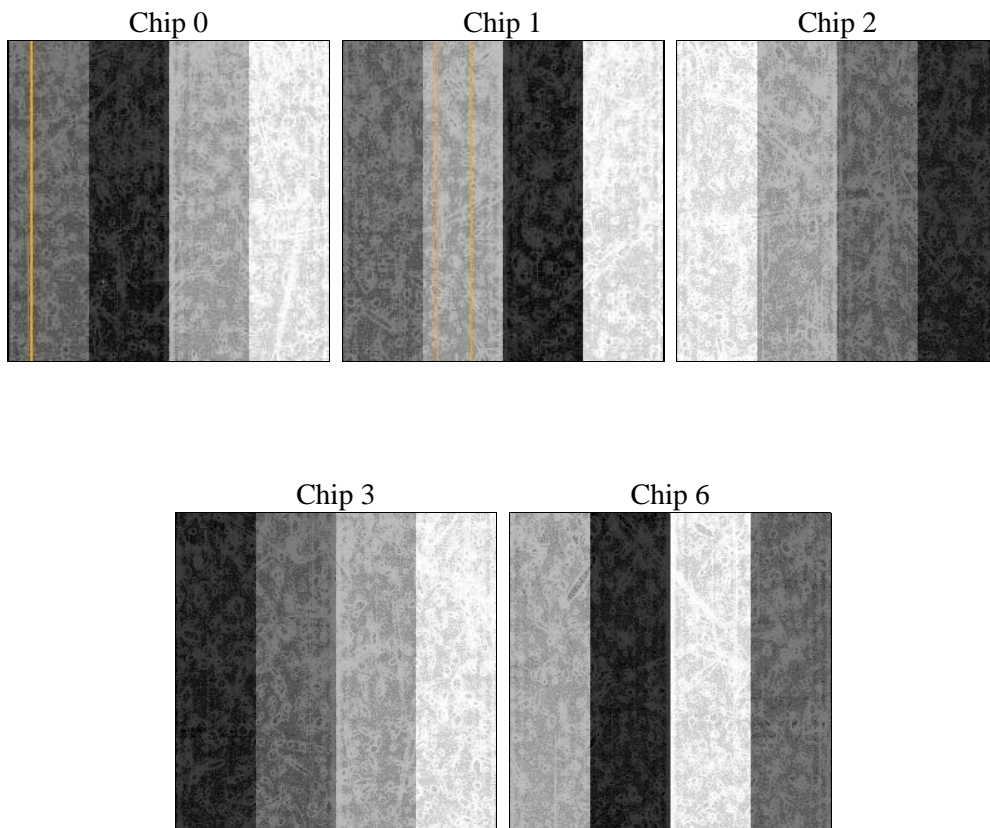
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	36000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	35767.509661615	Sum of GTIs [s]
caldbver	4.4.8	 	ontime0	35764.245511234	Sum of GTIs [s]
date	2012-02-23T00:42:38	Date and time of file creation	ontime1	35770.568621993	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	35770.609661996	Sum of GTIs [s]
			ontime3	35767.509661615	Sum of GTIs [s]
			ontime6	35770.486542165	Sum of GTIs [s]
			l1events	1045737	Number of level 1 events

2.1.4 Events

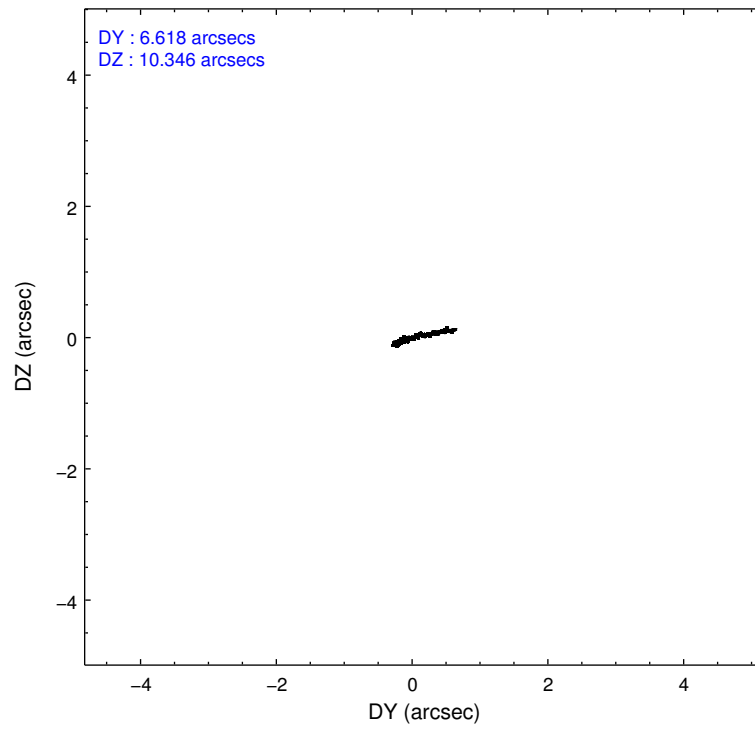
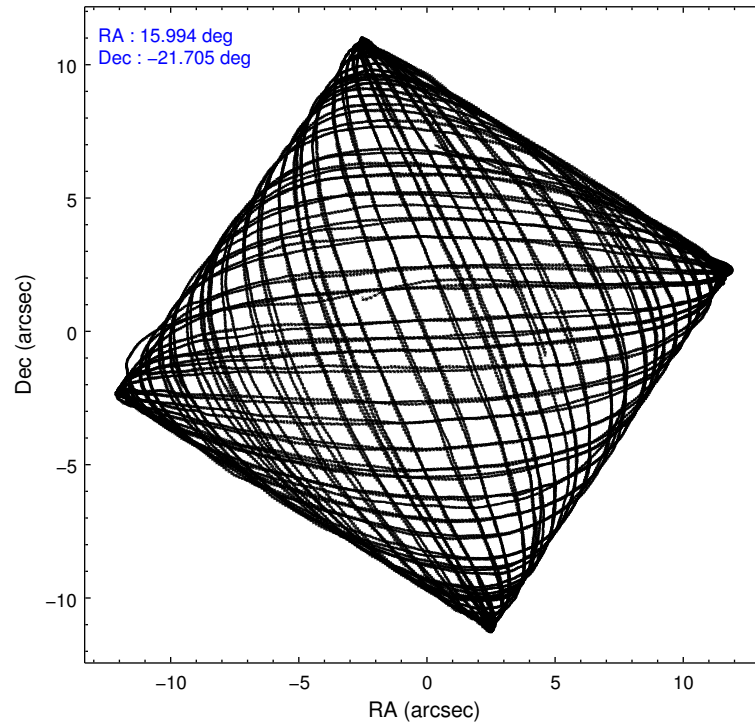
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	198690	198109	219129	212250	217559
rejected events	174138	171361	195769	188166	193233
rejected %	87%	86%	89%	88%	88%

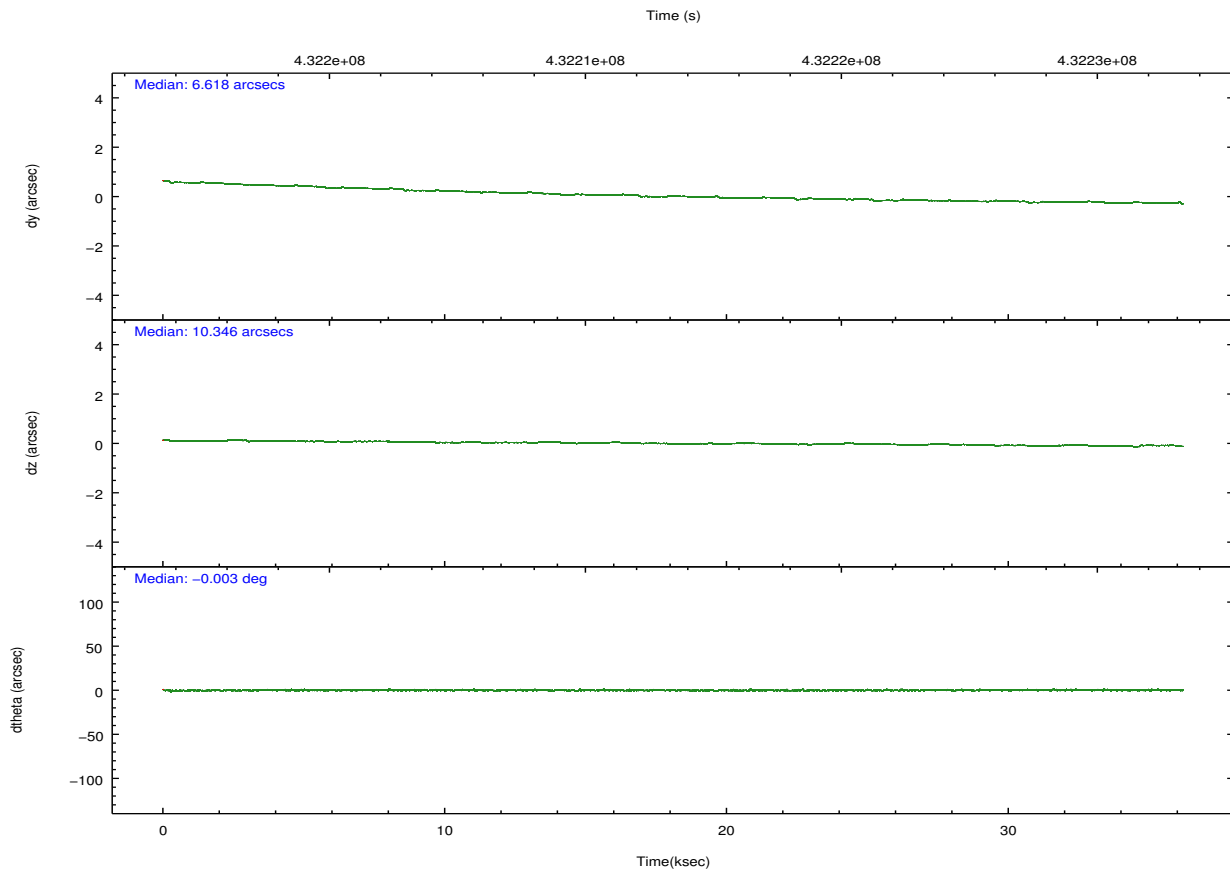
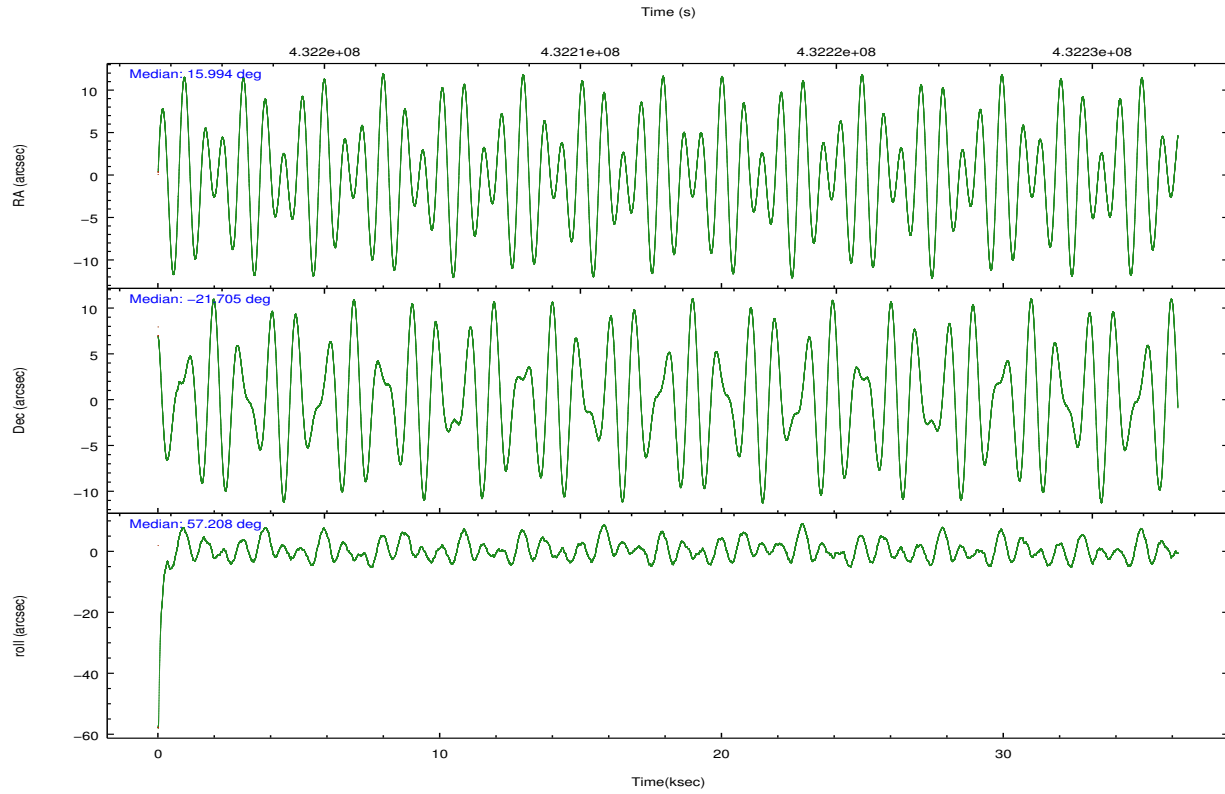
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8532	9742	8623	8857	8209
	4%	4%	3%	4%	3%
grade 1 events	110	109	145	144	92
	0%	0%	0%	0%	0%
grade 2 events	5994	5962	5465	5231	5458
	3%	3%	2%	2%	2%
grade 3 events	2582	2676	2349	2548	2514
	1%	1%	1%	1%	1%
grade 4 events	2459	2739	2491	2509	2510
	1%	1%	1%	1%	1%
grade 5 events	9309	9980	8530	10636	9798
	4%	5%	3%	5%	4%
grade 6 events	4988	5637	4440	4943	5640
	2%	2%	2%	2%	2%
grade 7 events	164716	161264	187086	177382	183338
	82%	81%	85%	83%	84%

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	15.992584	15.9939045411105	CCD I2 on	Y	Y
[deg] Pointing Dec	-21.732223	-21.70474696727715	CCD I3 on	Y	Y
[deg] Pointing Roll	56.999827	57.20899443148822	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	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	432195526.184000	432194990.54254	CCD S5 on	N	N
Observation start date	2011-09-12T06:17:40	2011-09-12T06:09:50	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	432231526.184000	432232314.8945	On-chip summing requested	N	N
Observation end date	2011-09-12T16:17:40	2011-09-12T16:31:54	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



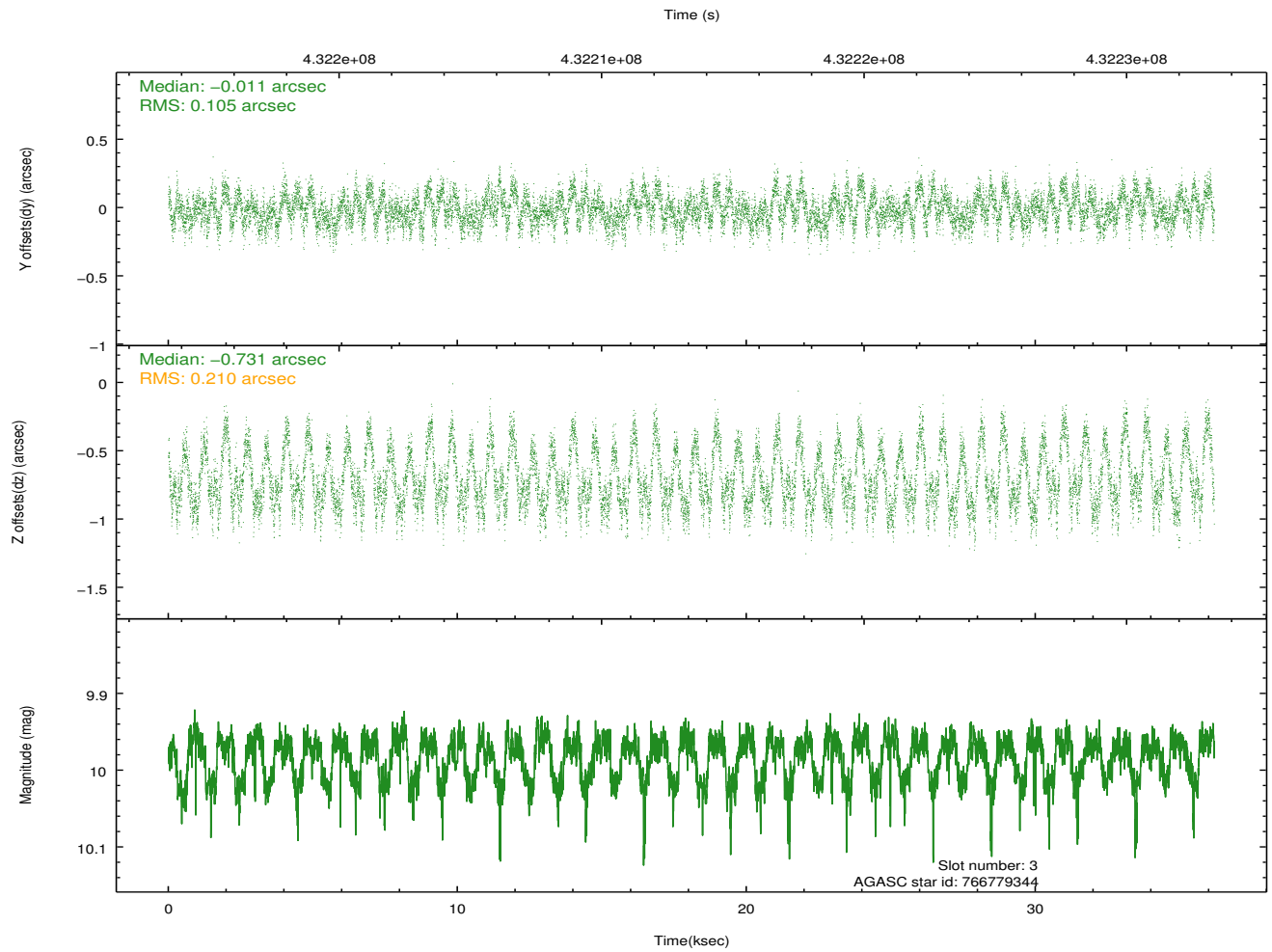
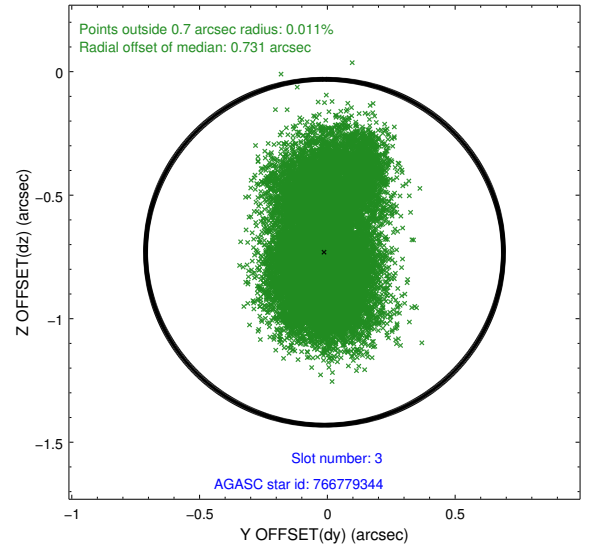
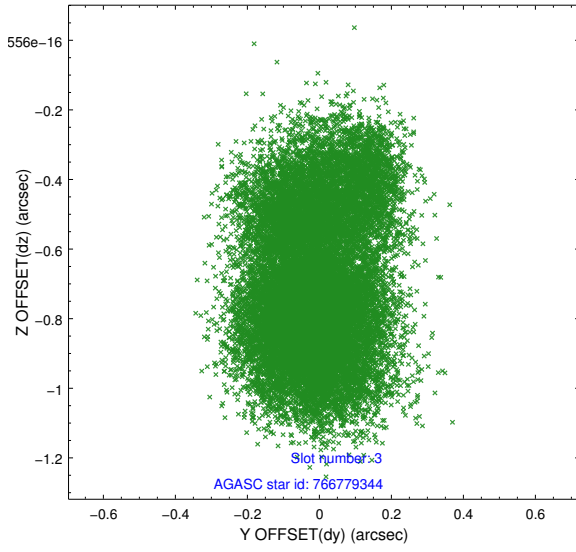


Slot Statistics

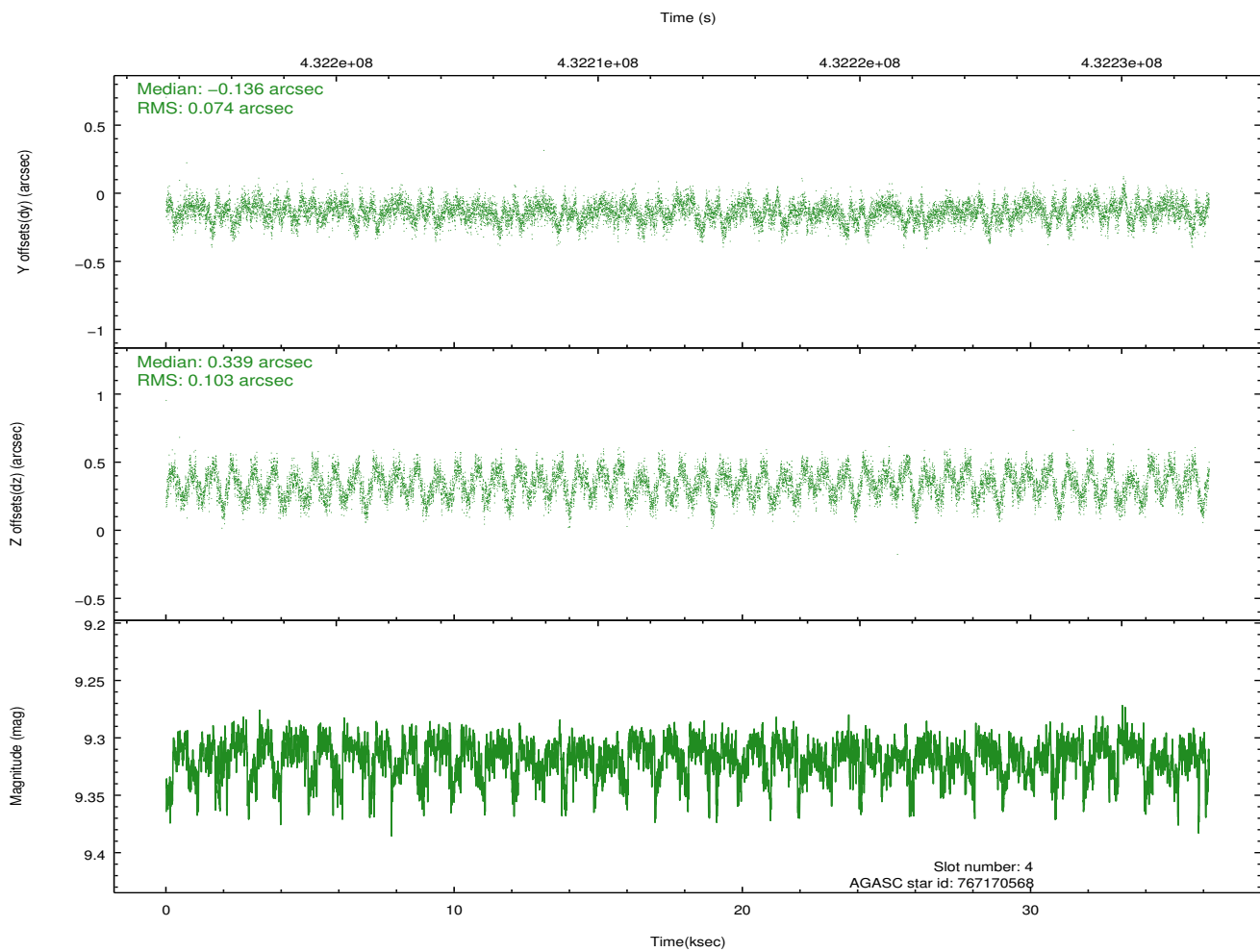
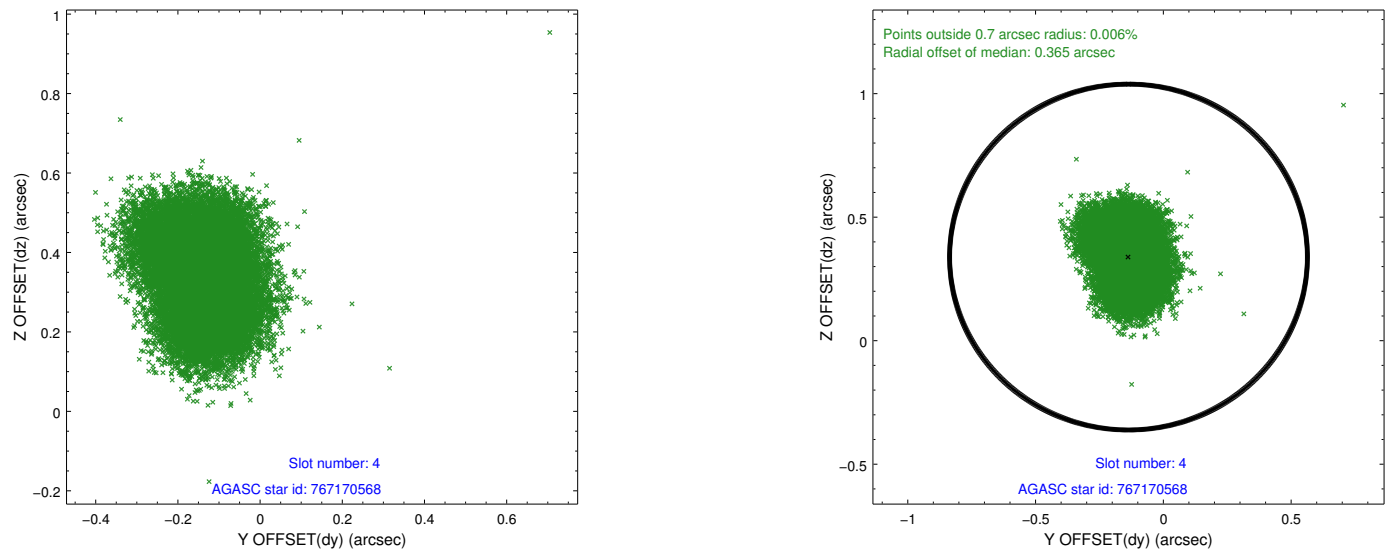
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.14	8826	0.057	-0.038	0.008	0.014	0.000000	0.000000	933.08	-833.85
1	FID	ACIS-I-5	7.12	8827	-0.184	0.065	0.008	0.014	0.000000	0.000000	-1815.28	1063.68
2	FID	ACIS-I-6	7.13	8827	0.036	0.043	0.008	0.012	0.000000	0.000000	398.52	1708.23
3	GUIDE	766779344	9.98	17626	-0.011	-0.731	0.252	0.412	15.380905	-21.452302	-274.13	2264.87
4	GUIDE	767170568	9.32	17637	-0.136	0.339	0.138	0.212	16.585715	-21.675711	1247.74	-1555.73
5	GUIDE	767171568	10.01	17633	-0.021	0.048	0.154	0.272	16.035890	-22.108834	-1057.96	-859.55
6	GUIDE	767171936	10.11	17626	0.133	0.203	0.194	0.309	16.105335	-22.483256	-2063.08	-1787.00
7	GUIDE	841745408	8.64	17628	0.024	0.120	0.089	0.144	16.162435	-22.504118	-2022.84	-1987.40

2.4 Star Slots

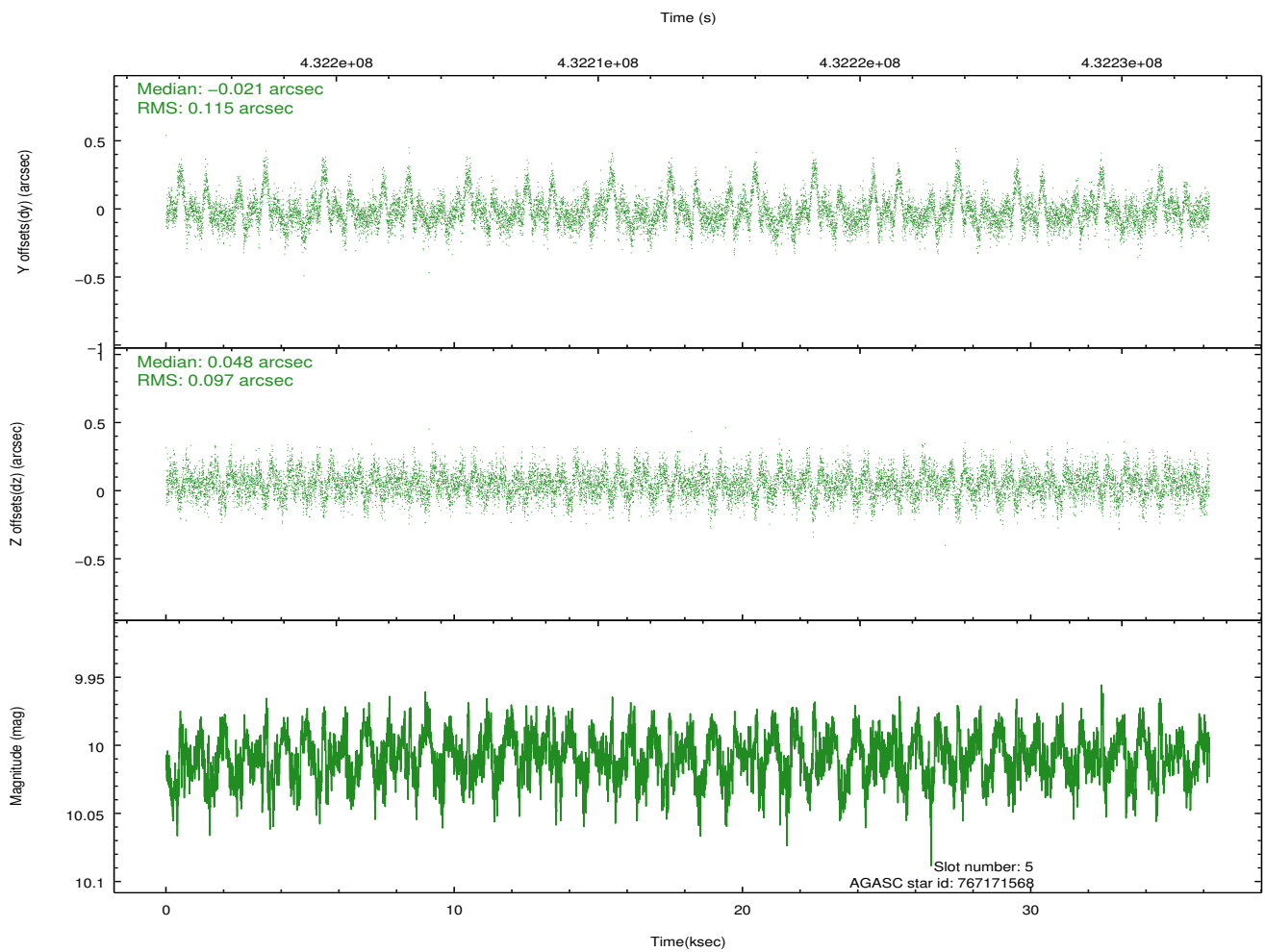
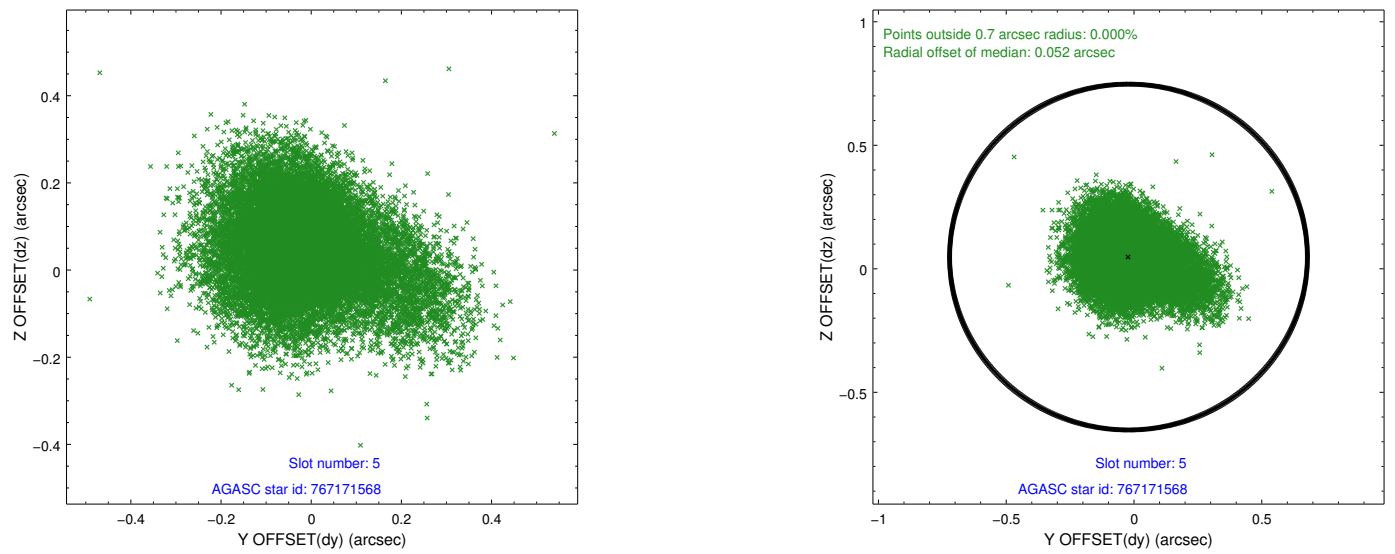
2.4.1 Slot 3



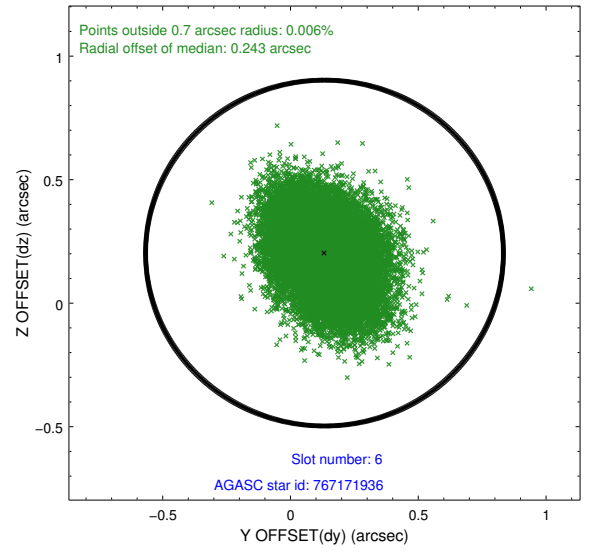
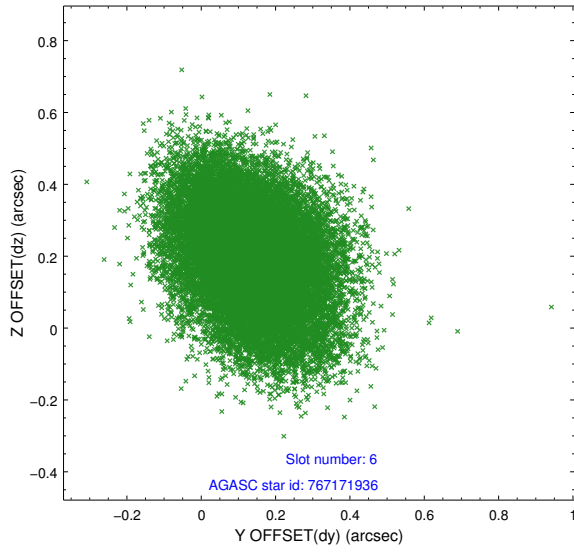
2.4.2 Slot 4



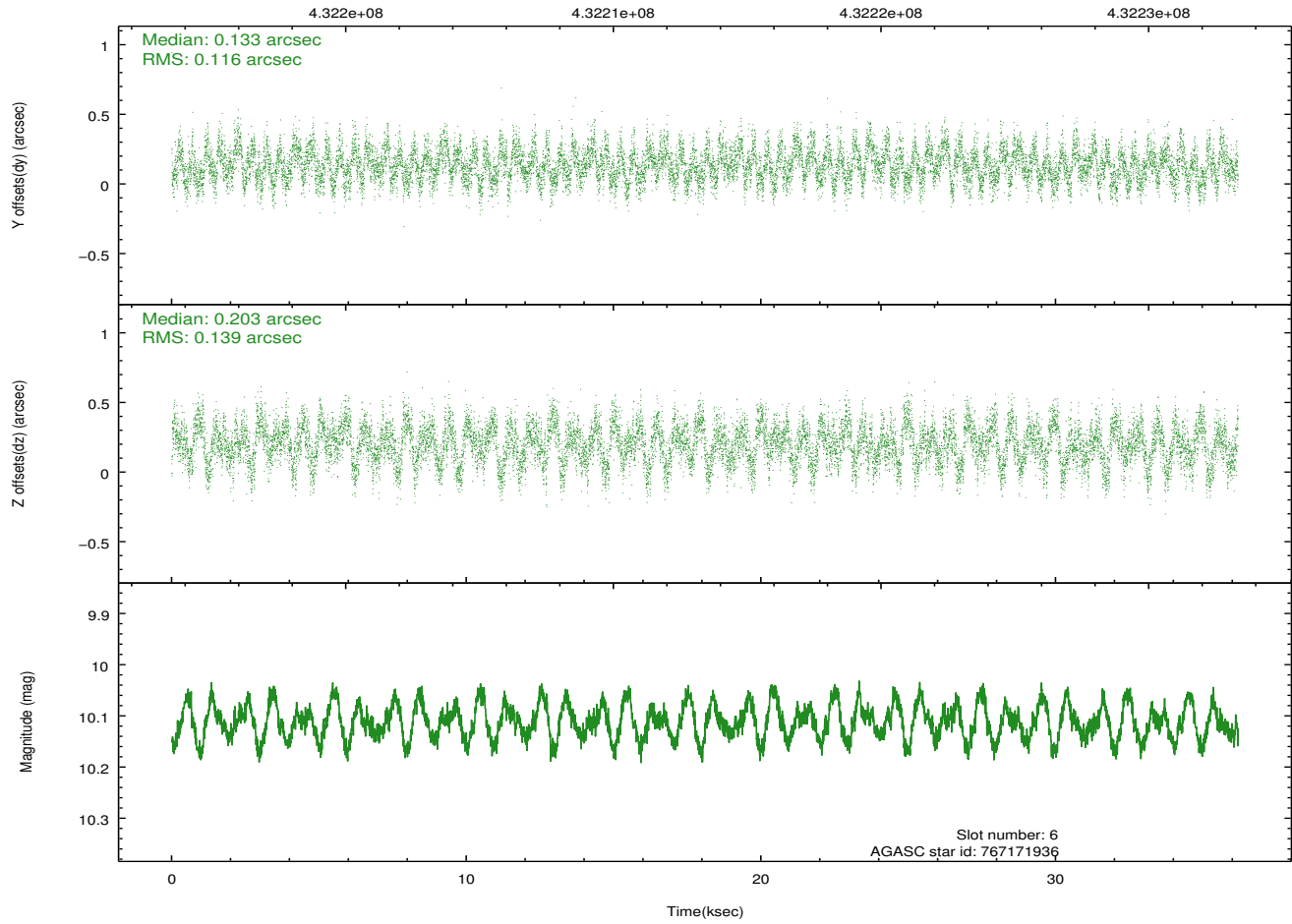
2.4.3 Slot 5



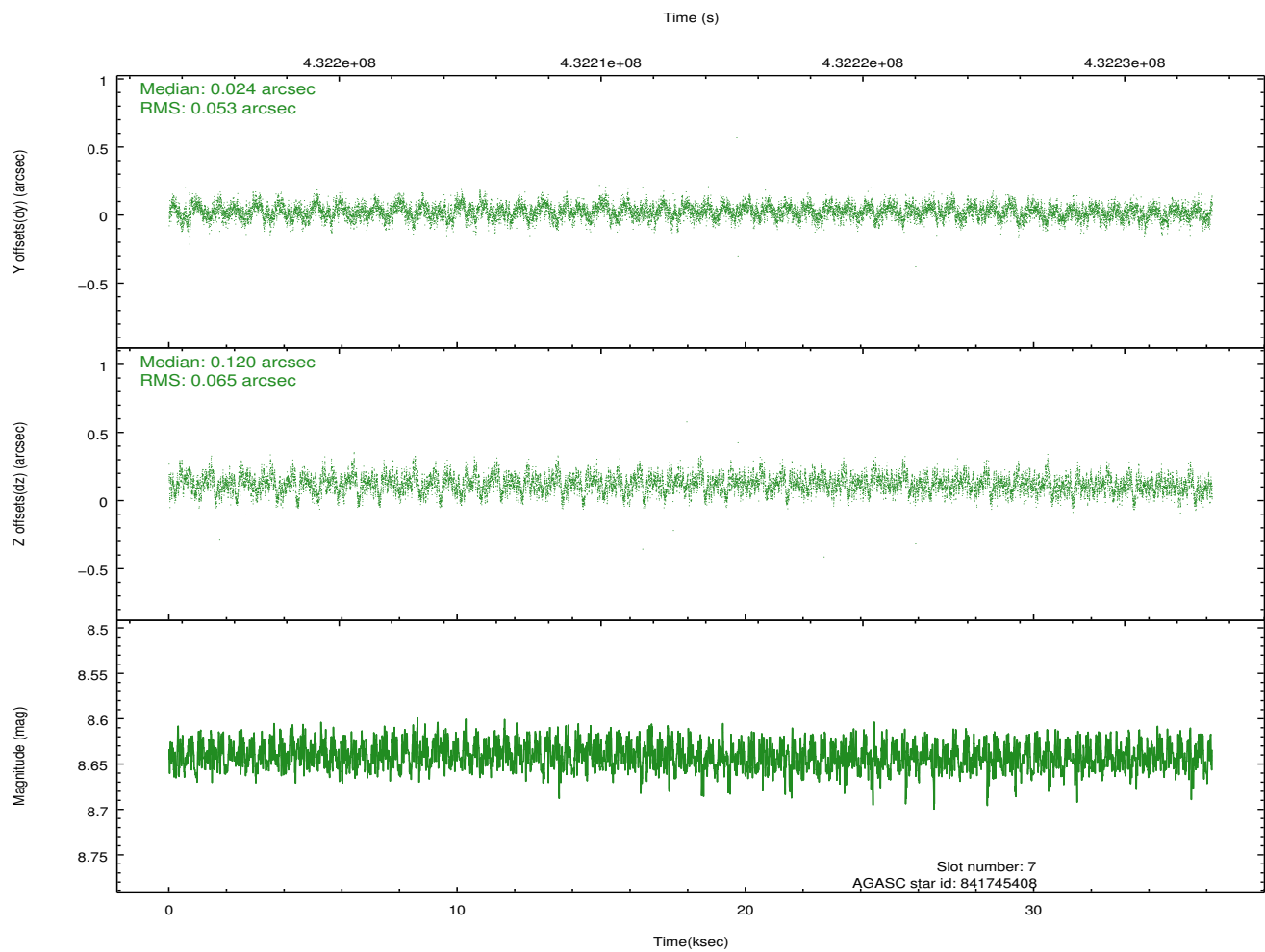
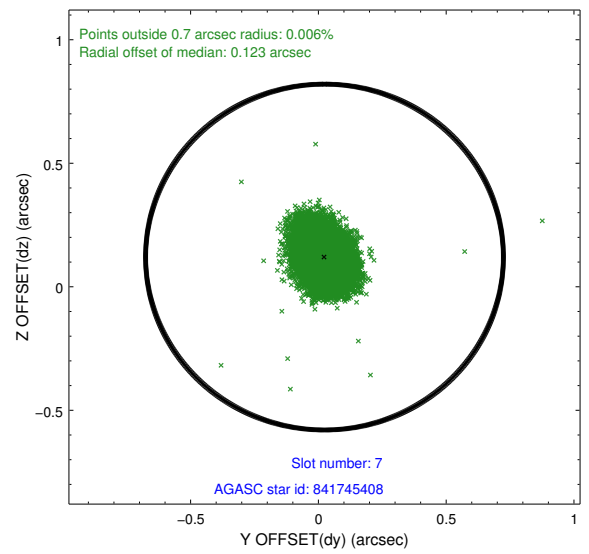
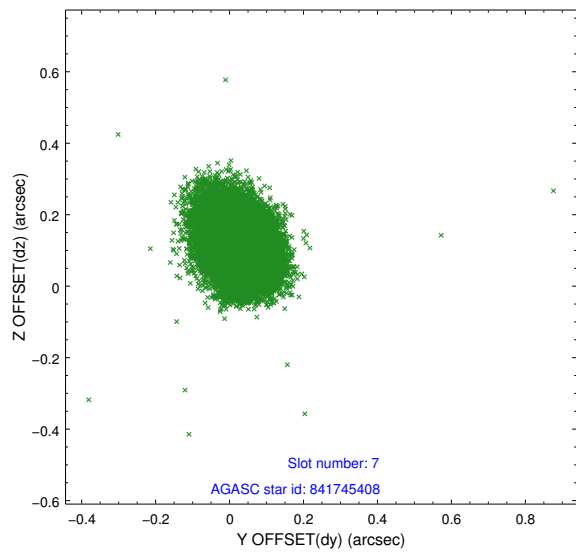
2.4.4 Slot 6



Time (s)

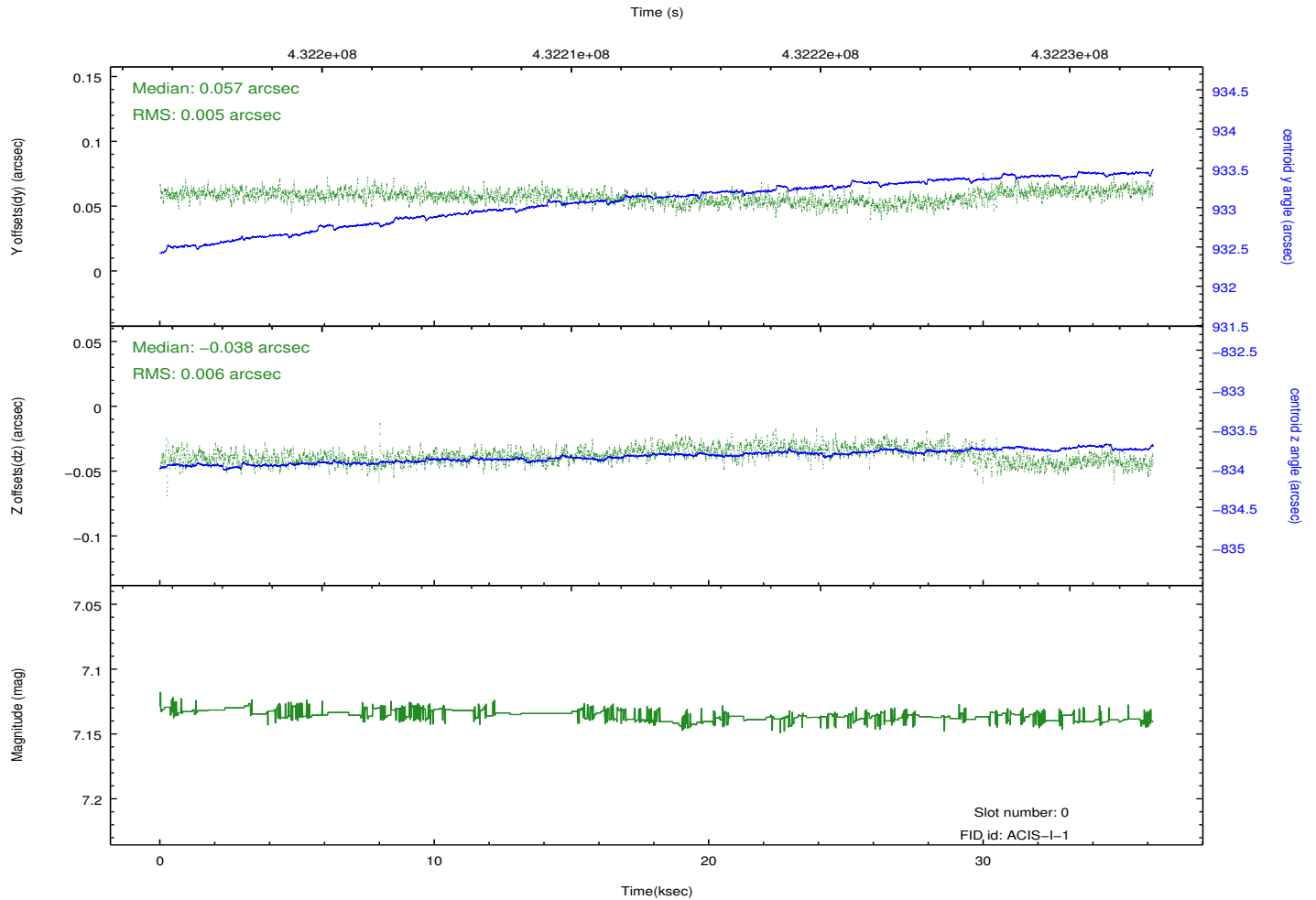
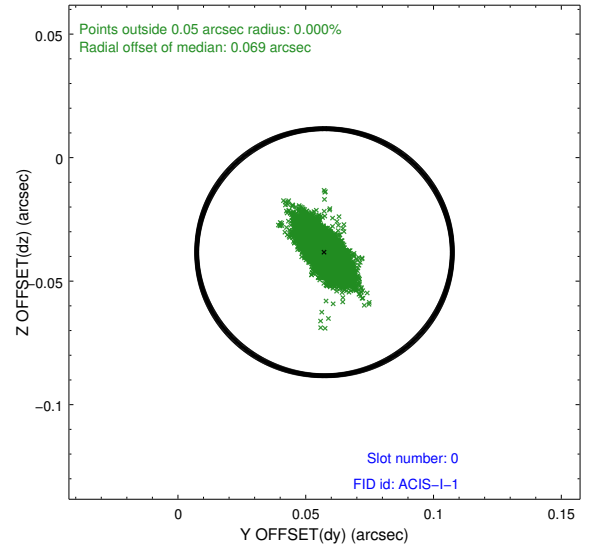
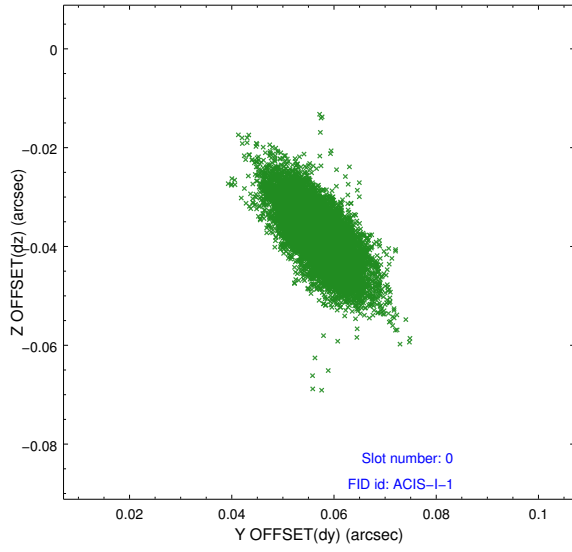


2.4.5 Slot 7

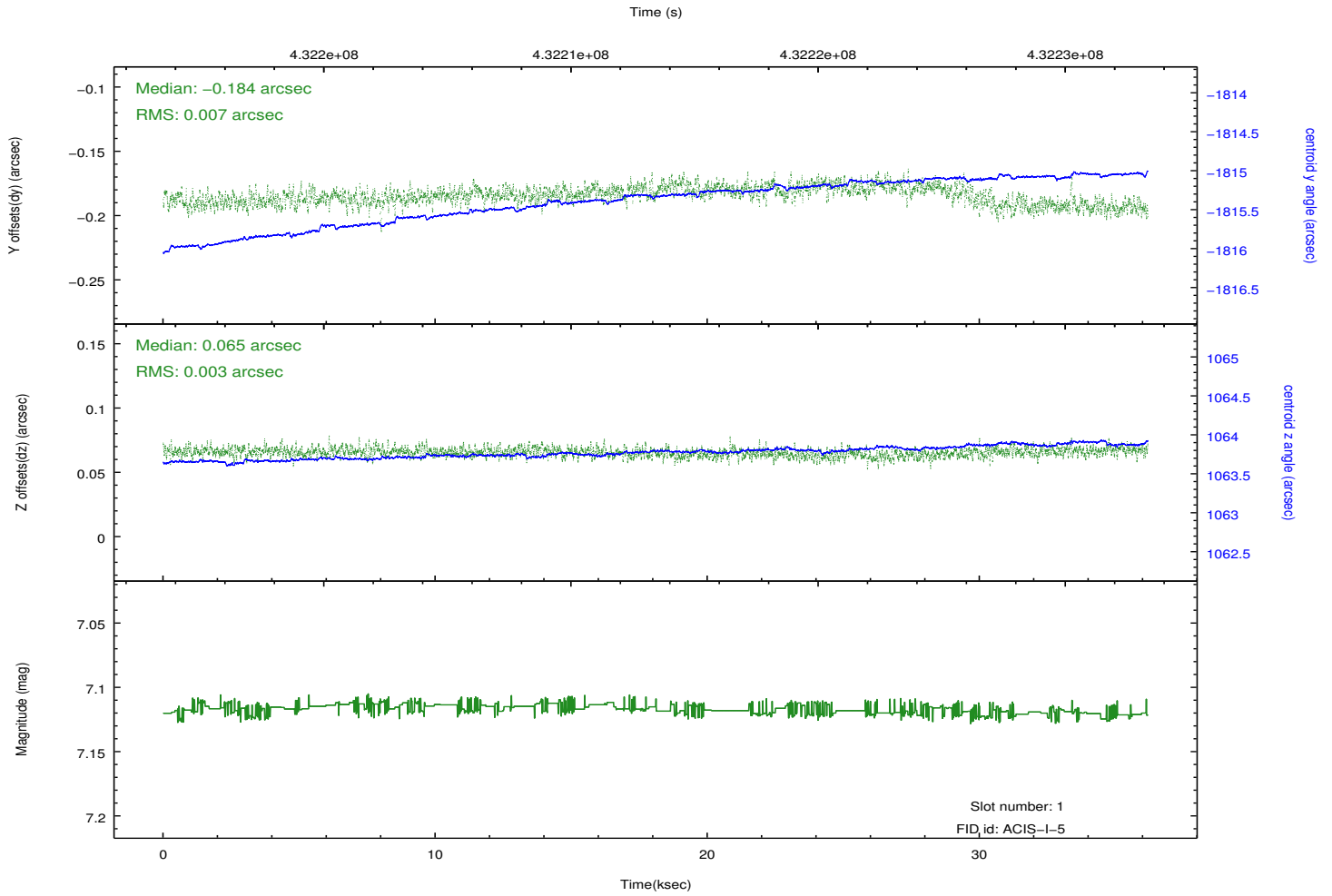
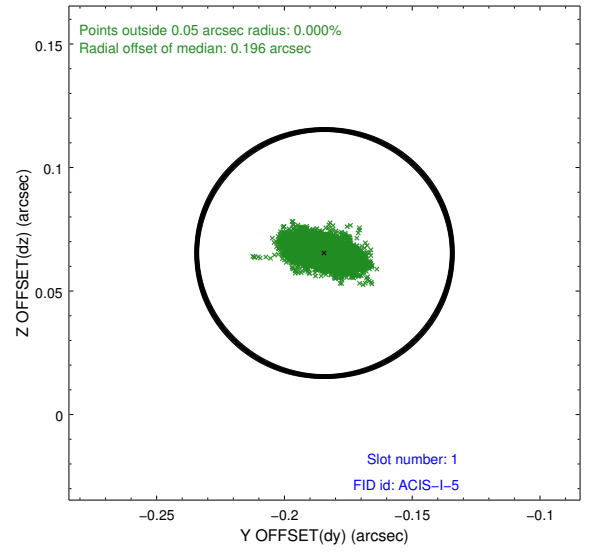
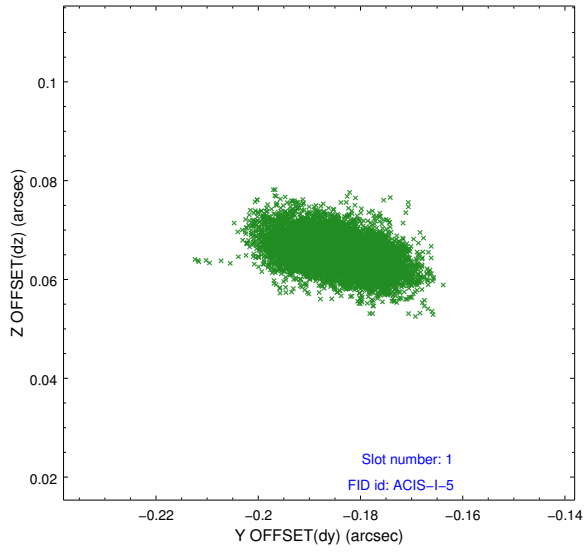


2.5 FID Slots

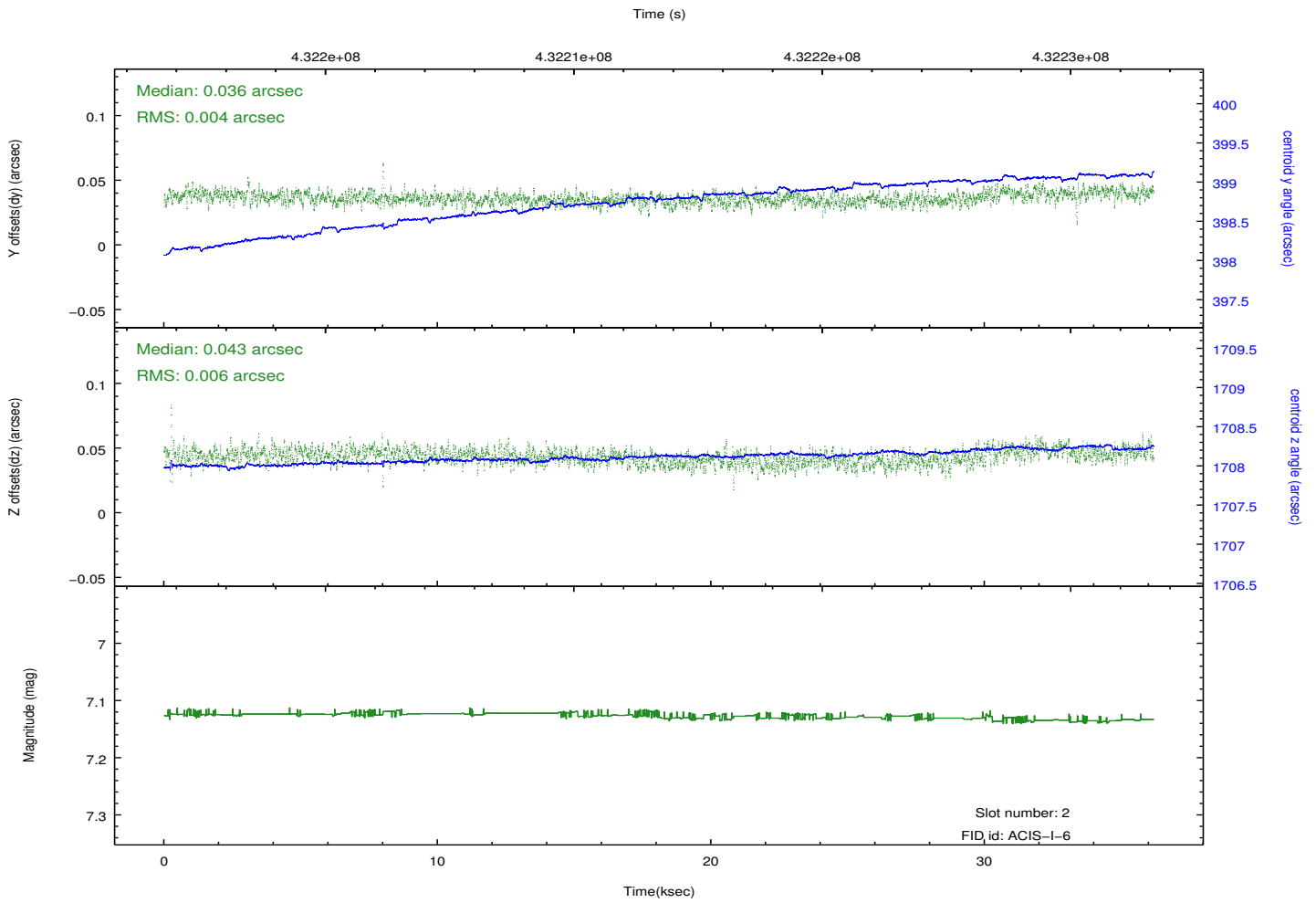
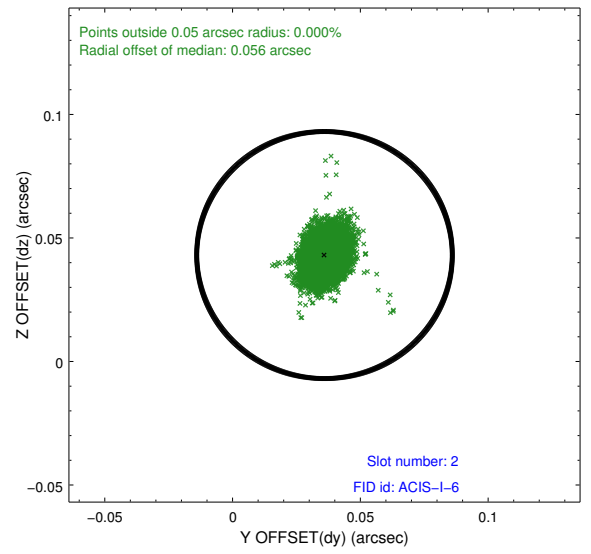
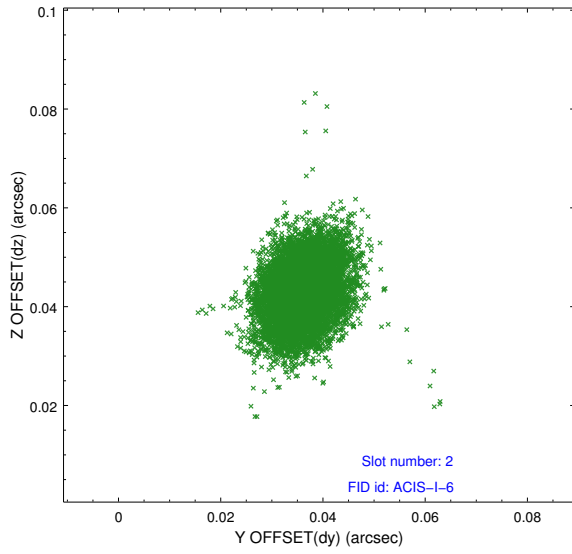
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.76750966239

A.2 Comments