

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22035 - L2 Version 1
Chandra X-Ray Center

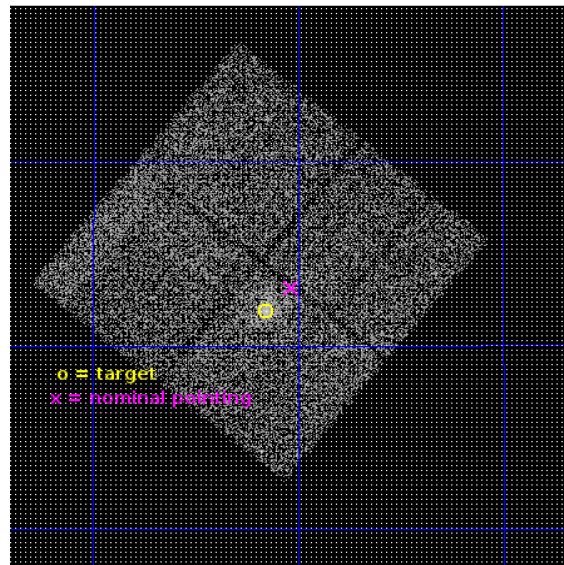
L2 Processing Date : Jan 7 2019

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1 Front

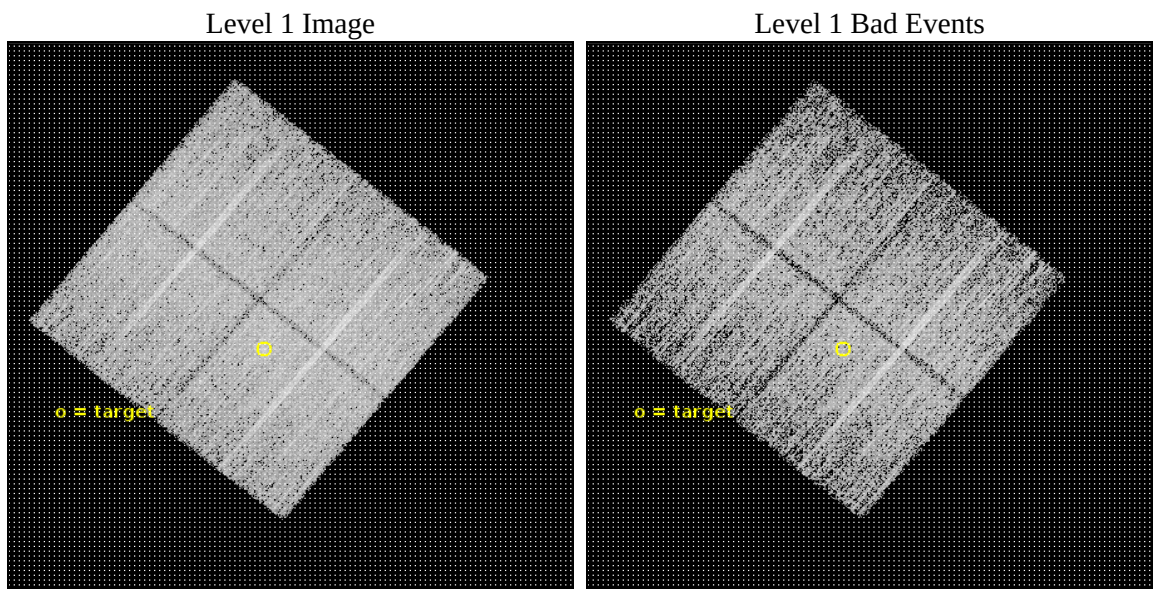
seq_num	801842	Sequence number
obs_id	22035	Observation id
title	Characterizing the most X-ray luminous galaxy clusters at z=0.5-1	
observer	Harald Ebeling	Principal investigator
object	eMACSJ0840.2+4421	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	130.039167	Observer's specified target RA [deg]
dec_targ	44.365	Observer's specified target Dec [deg]
ra_nom	130.00818236743	Nominal RA [deg]
dec_nom	44.38629171847	Nominal Dec [deg]
roll_nom	129.23033974077	Nominal Roll [deg]
revision	1	Processing version of data
ontime	12079.504760861	Sum of GTIs [s]
livetime	11921.677138359	Livetime [s]
ontime0	12079.381640911	Sum of GTIs [s]
ontime1	12079.422680855	Sum of GTIs [s]
ontime2	12079.463720918	Sum of GTIs [s]
ontime3	12079.504760861	Sum of GTIs [s]
l2events	34800	Number of level 2 events



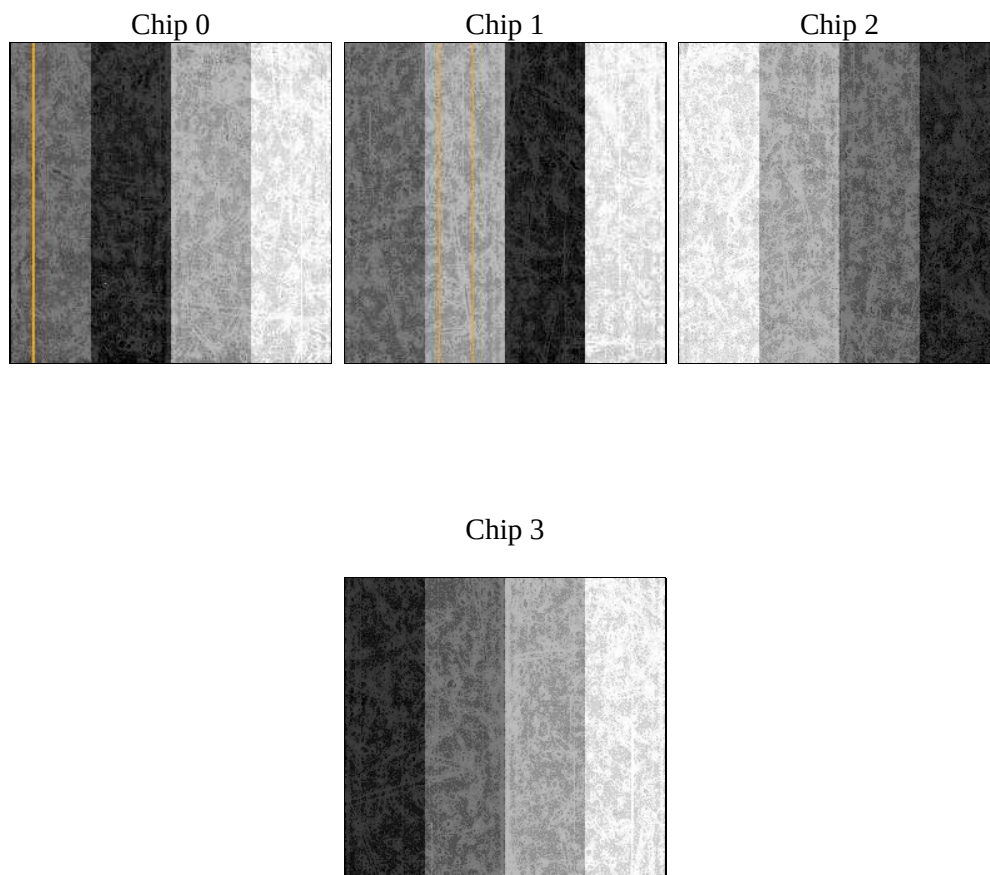
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	12079.504760861	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	12079.381640911	Sum of GTIs [s]
date	2019-01-07T04:48:39	Date and time of file creation	ontime1	12079.422680855	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	12079.463720918	Sum of GTIs [s]
			ontime3	12079.504760861	Sum of GTIs [s]
			l1events	342090	Number of level 1 events

2.1.4 Events

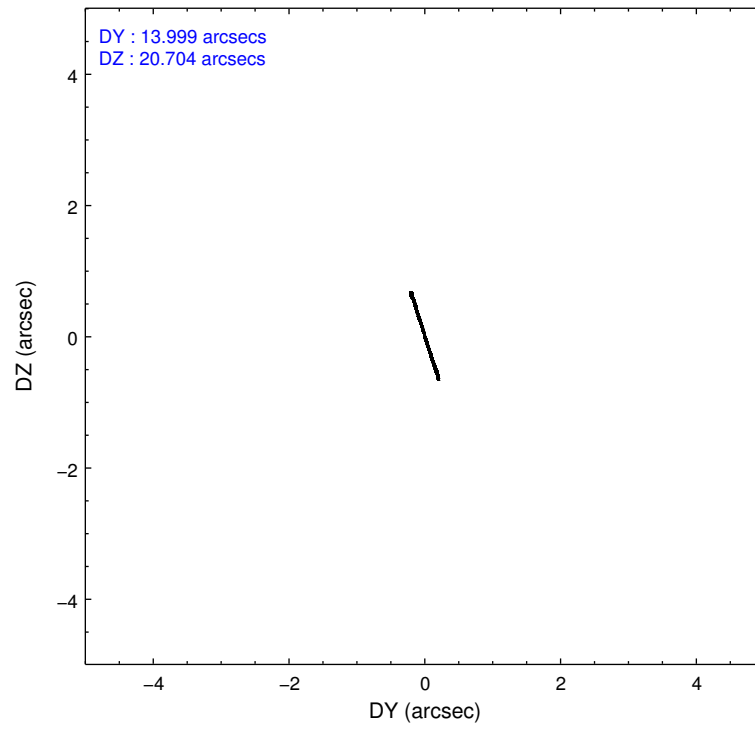
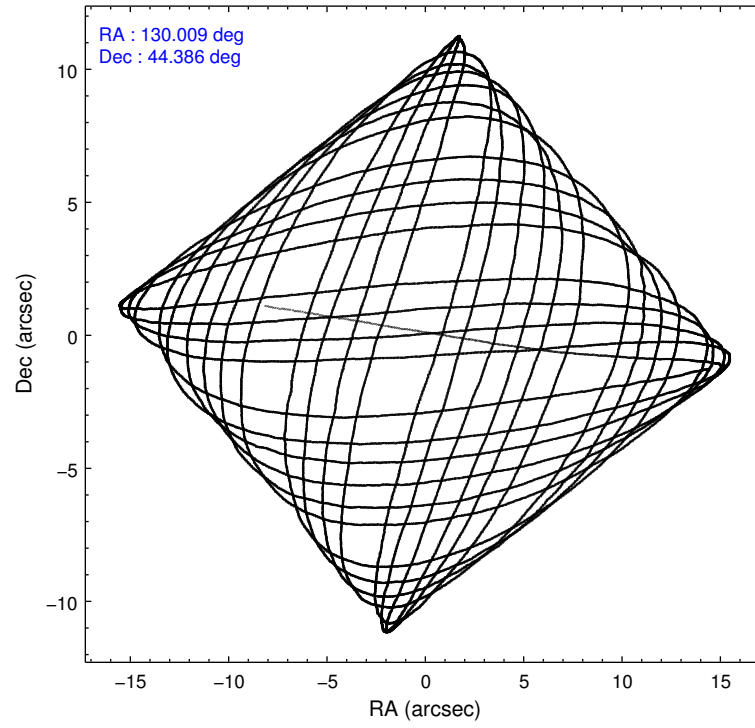
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	81172	82249	89460	89209
rejected events	71020	71260	79572	78695
rejected %	87%	86%	88%	88%

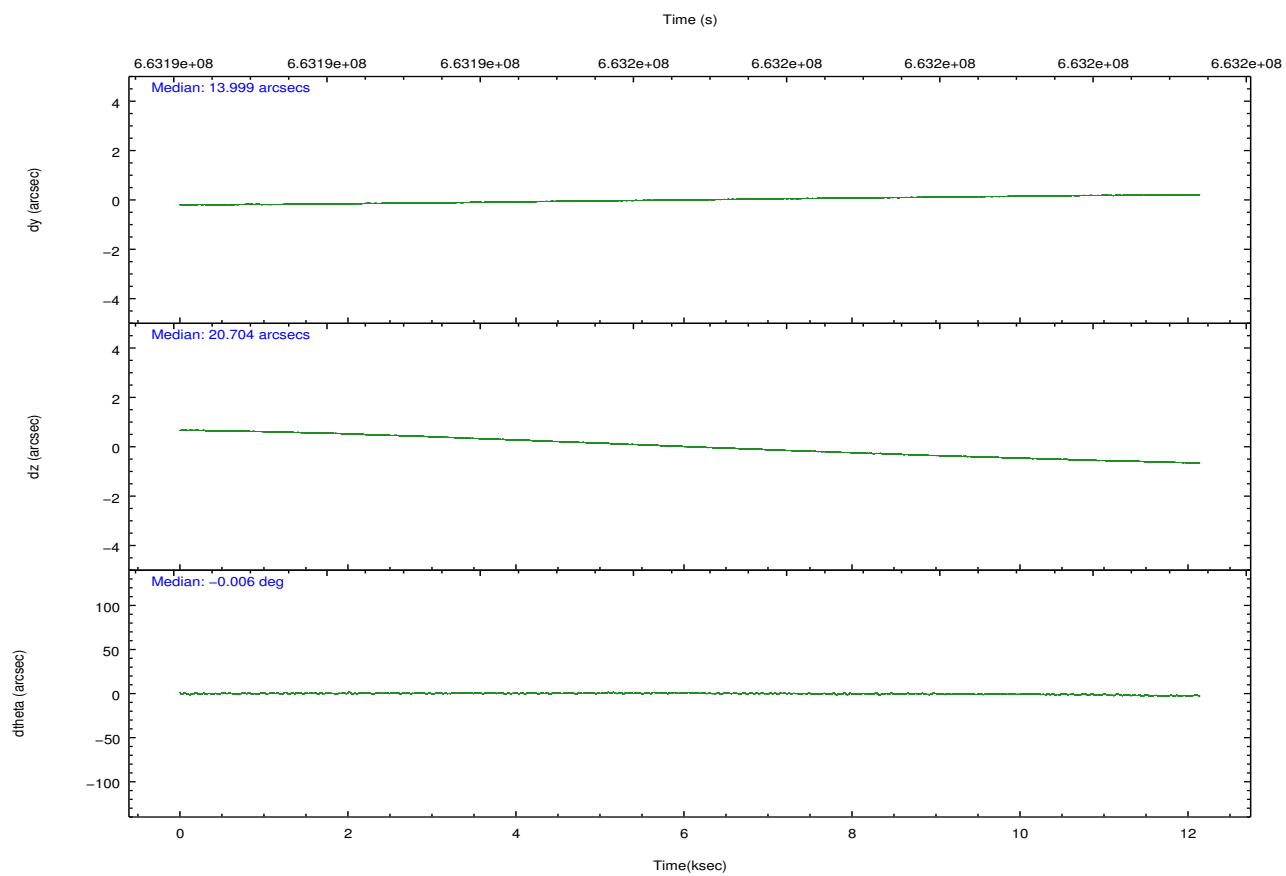
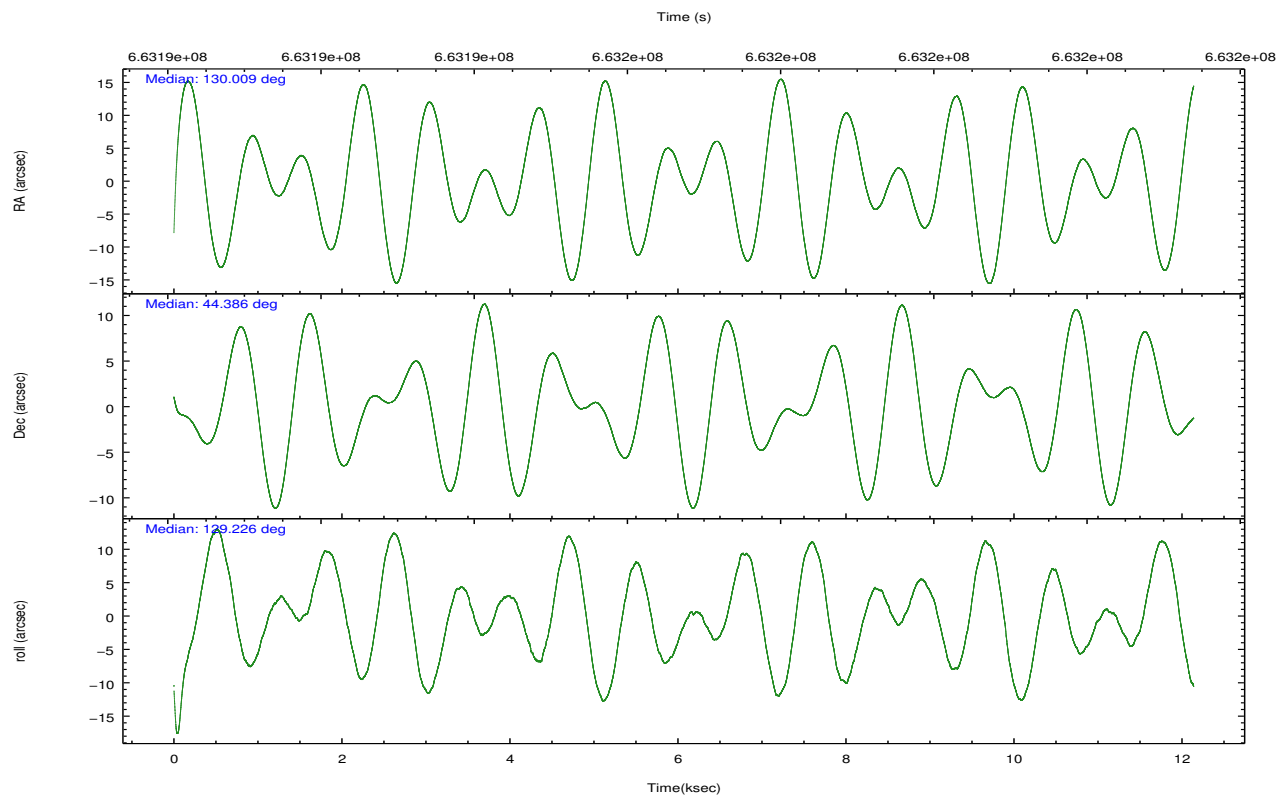
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	3434	3717	3498	4343
	4%	4%	3%	4%
grade 1 events	48	32	57	65
	0%	0%	0%	0%
grade 2 events	2617	2750	2507	2171
	3%	3%	2%	2%
grade 3 events	1015	1071	956	1000
	1%	1%	1%	1%
grade 4 events	956	1049	1003	1018
	1%	1%	1%	1%
grade 5 events	3969	4024	3800	4385
	4%	4%	4%	4%
grade 6 events	2132	2406	1927	1985
	2%	2%	2%	2%
grade 7 events	67001	67200	75712	74242
	82%	81%	84%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	130.044329	130.0081823674323	Subarray requested	NONE	NONE
[deg] Pointing Dec	44.376607	44.38629171847041	Alternating exposures requested	N	N
[deg] Pointing Roll	128.996389	129.2303397407724	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-229.442463	-229.4438428438578			
[mm] SIM translation stage offset	-4.15	-4.148610159071865			
[s] Observation start time (MET)	663190801.184000	663189637.5546			
Observation start date	2019-01-06T19:38:52	2019-01-06T19:20:37			
[s] Observation end time (MET)	663202801.184000	663203456.60542			
Observation end date	2019-01-06T22:58:52	2019-01-06T23:10:56			
Read mode	TIMED	TIMED			

2.3 Aspect



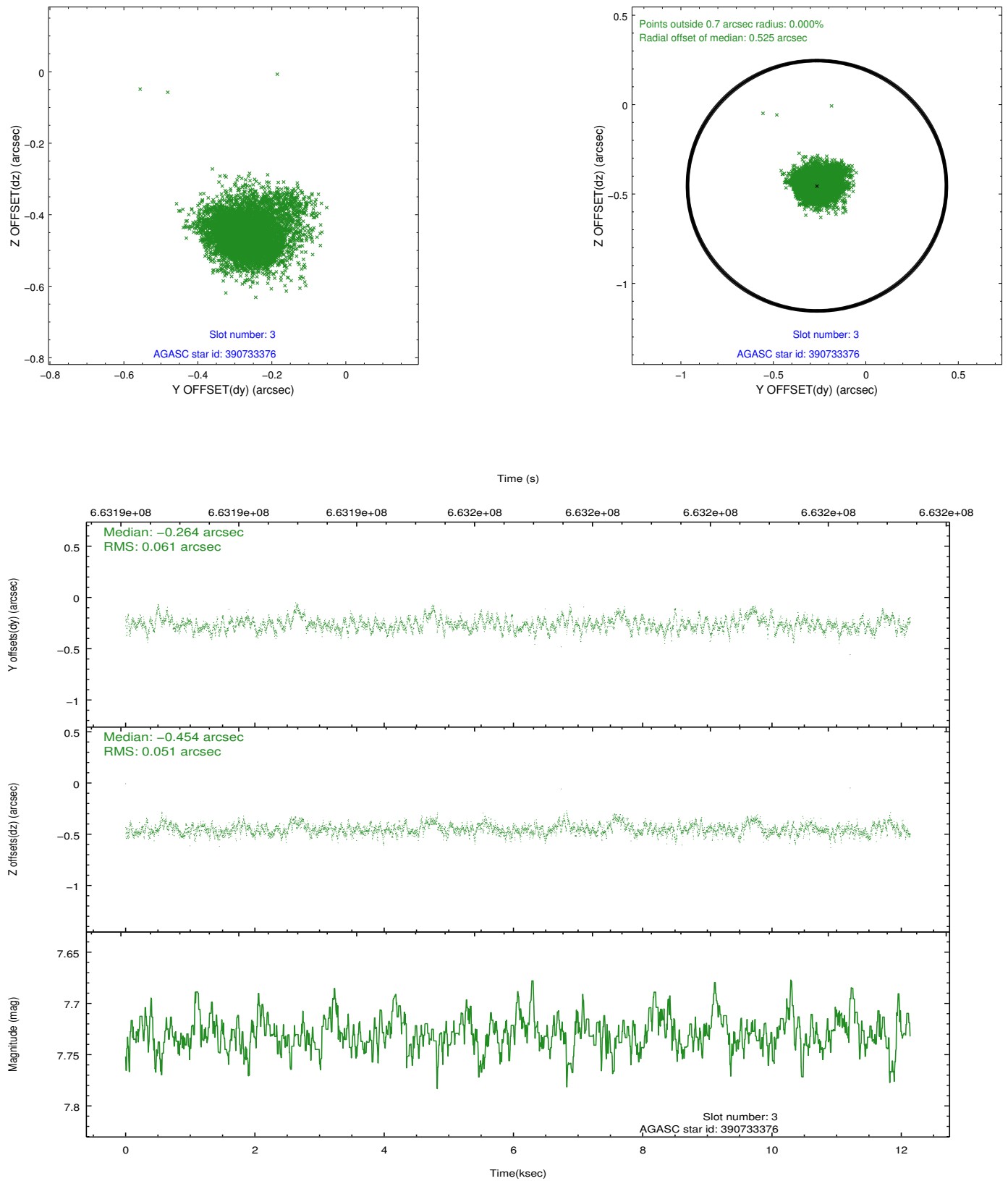


Slot Statistics

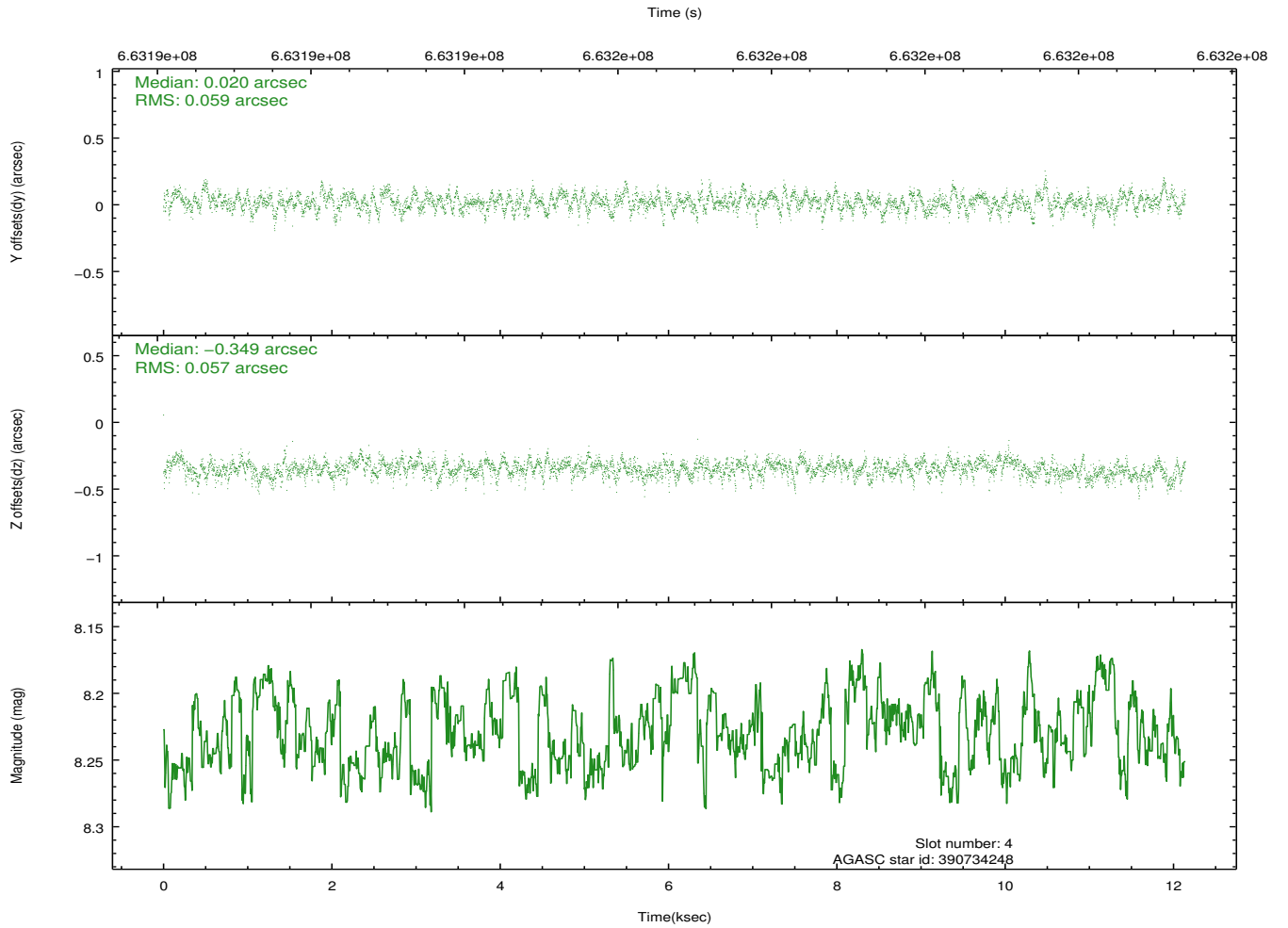
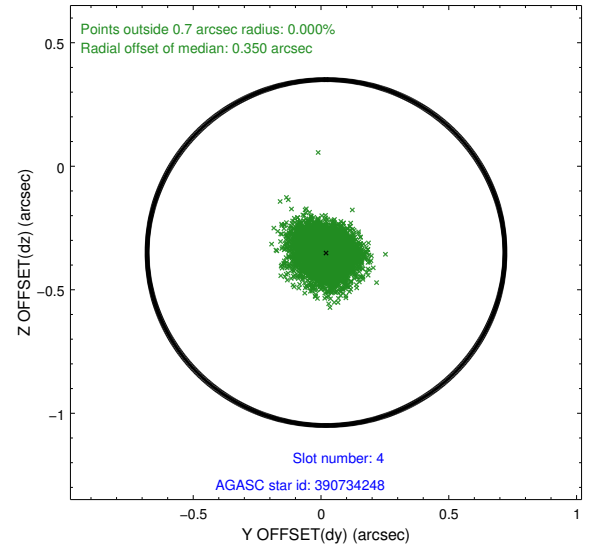
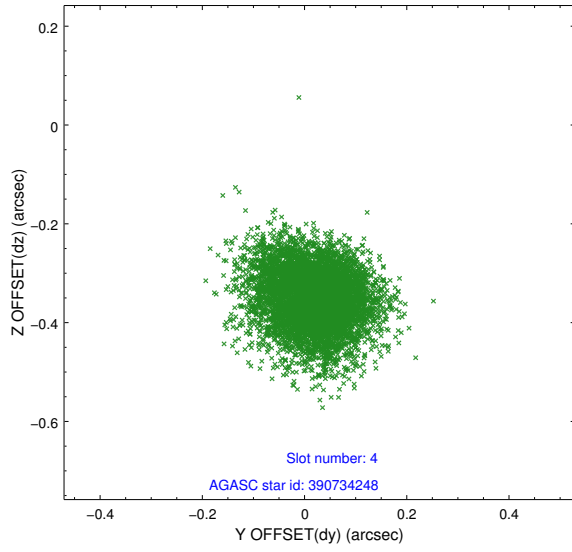
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.18	2961	1.000	0.188	-0.176	0.013	0.025	0.000000	0.000000	925.66	-929
1	FID		ACIS-I-5	7.14	2961	1.000	-0.525	0.082	0.010	0.024	0.000000	0.000000	-1823.07	967
2	FID		ACIS-I-6	7.17	2961	1.000	0.247	0.169	0.019	0.028	0.000000	0.000000	390.63	1612
3	GUIDE	used	390733376	7.73	5922	1.000	-0.264	-0.454	0.082	0.141	129.873945	44.291817	39.61	533
4	GUIDE	used	390734248	8.23	5923	1.000	0.020	-0.349	0.086	0.143	129.816628	44.244114	0.15	756
5	GUIDE	used	391652496	8.40	5919	1.000	0.062	0.520	0.116	0.175	130.682166	44.105713	-1789.89	-670
6	GUIDE	used	391654272	8.10	5921	1.000	0.020	0.136	0.124	0.201	130.440258	44.863186	727.74	-1887
7	GUIDE	used	447743808	8.77	5919	1.000	0.165	0.153	0.148	0.258	130.244224	45.149778	1845.42	-2145

2.4 Star Slots

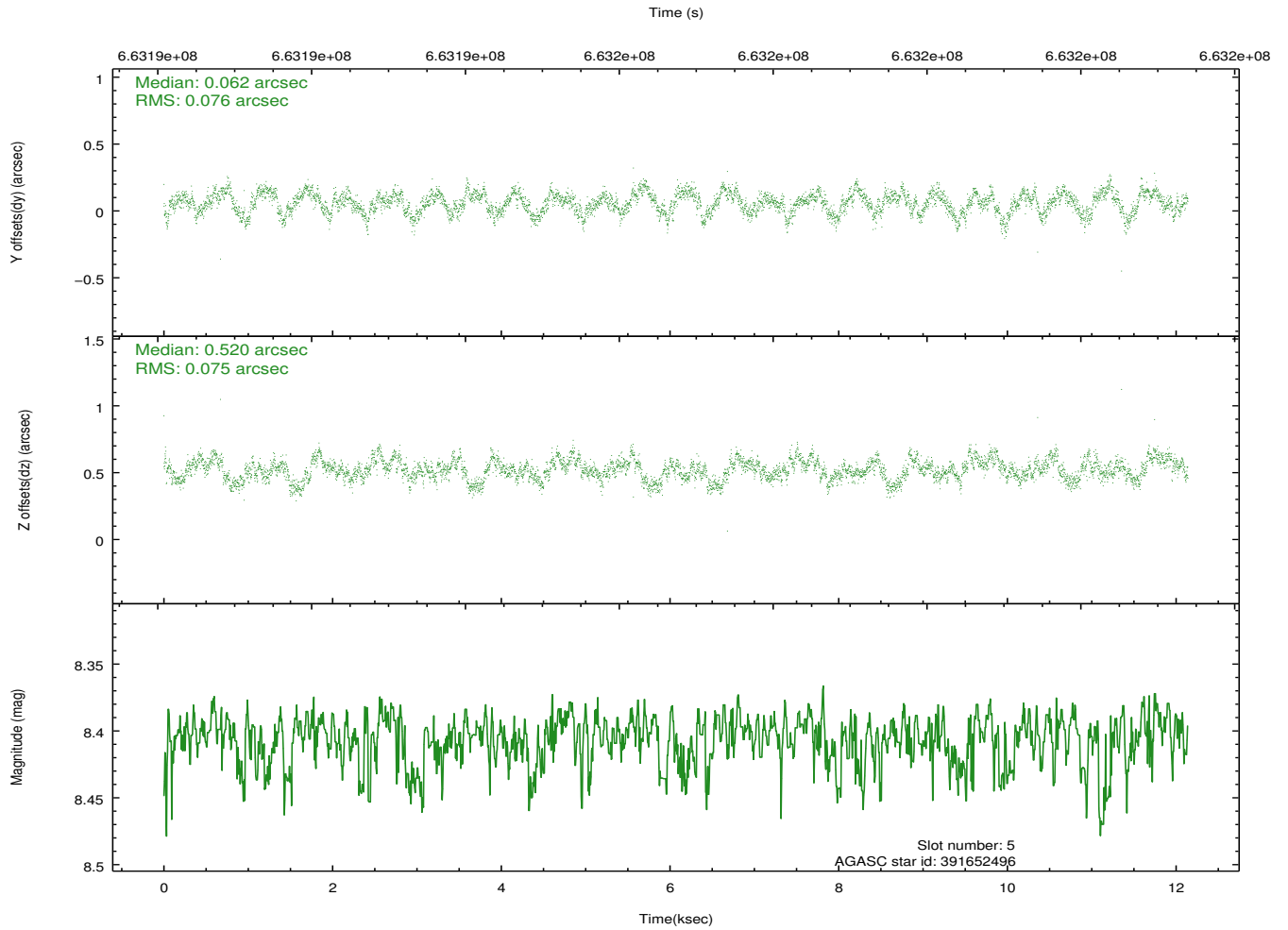
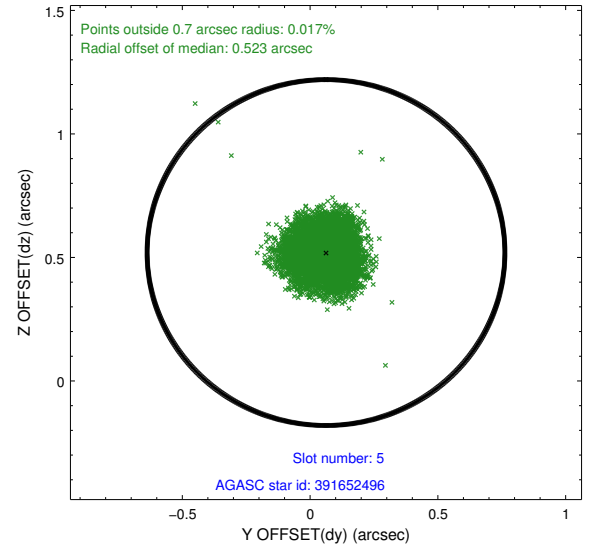
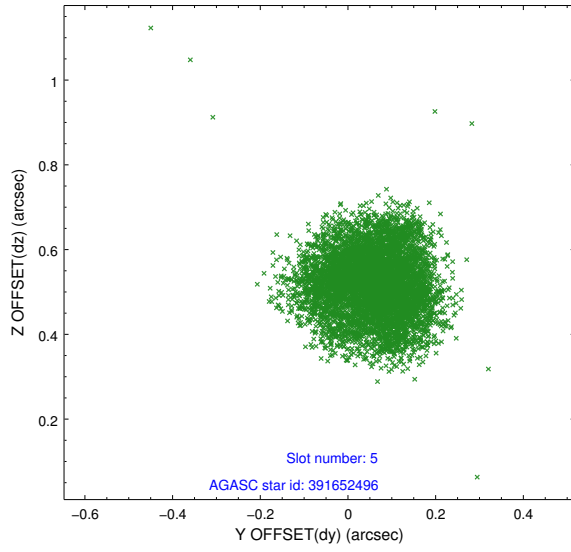
2.4.1 Slot 3



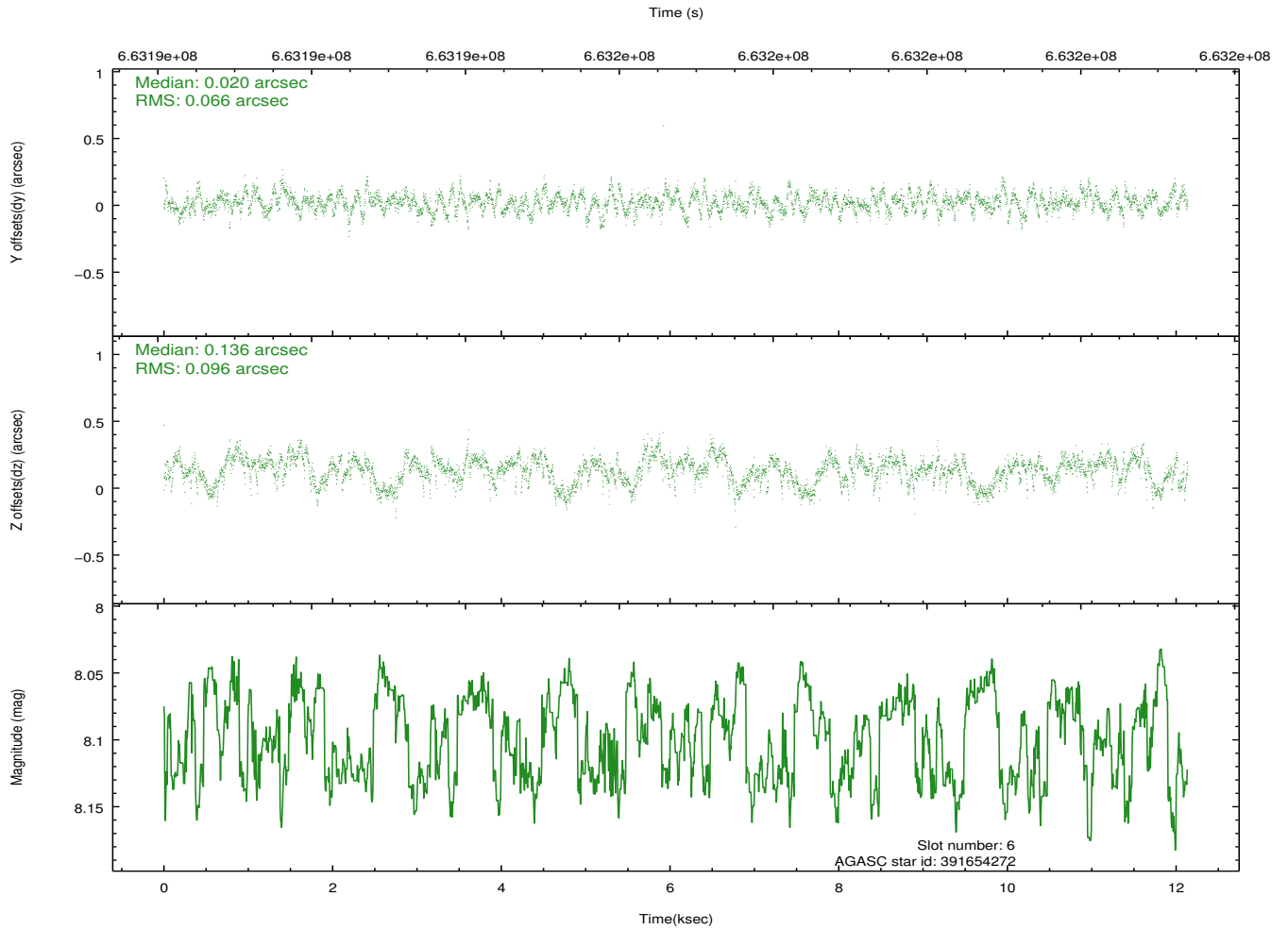
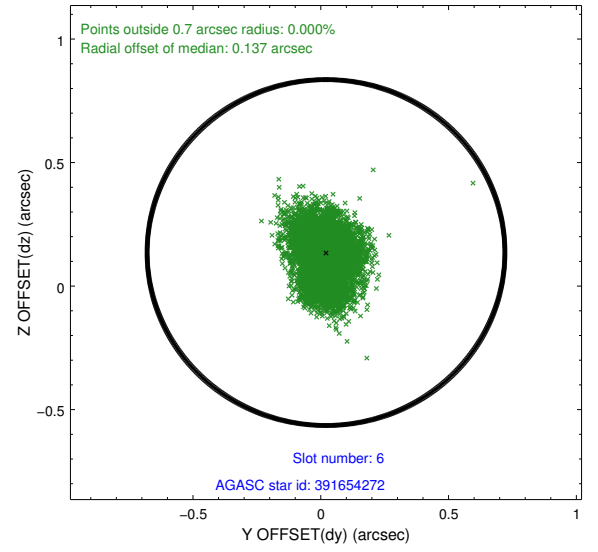
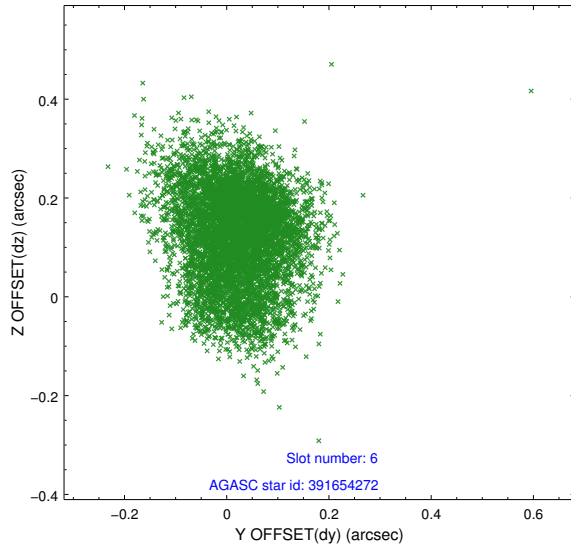
2.4.2 Slot 4



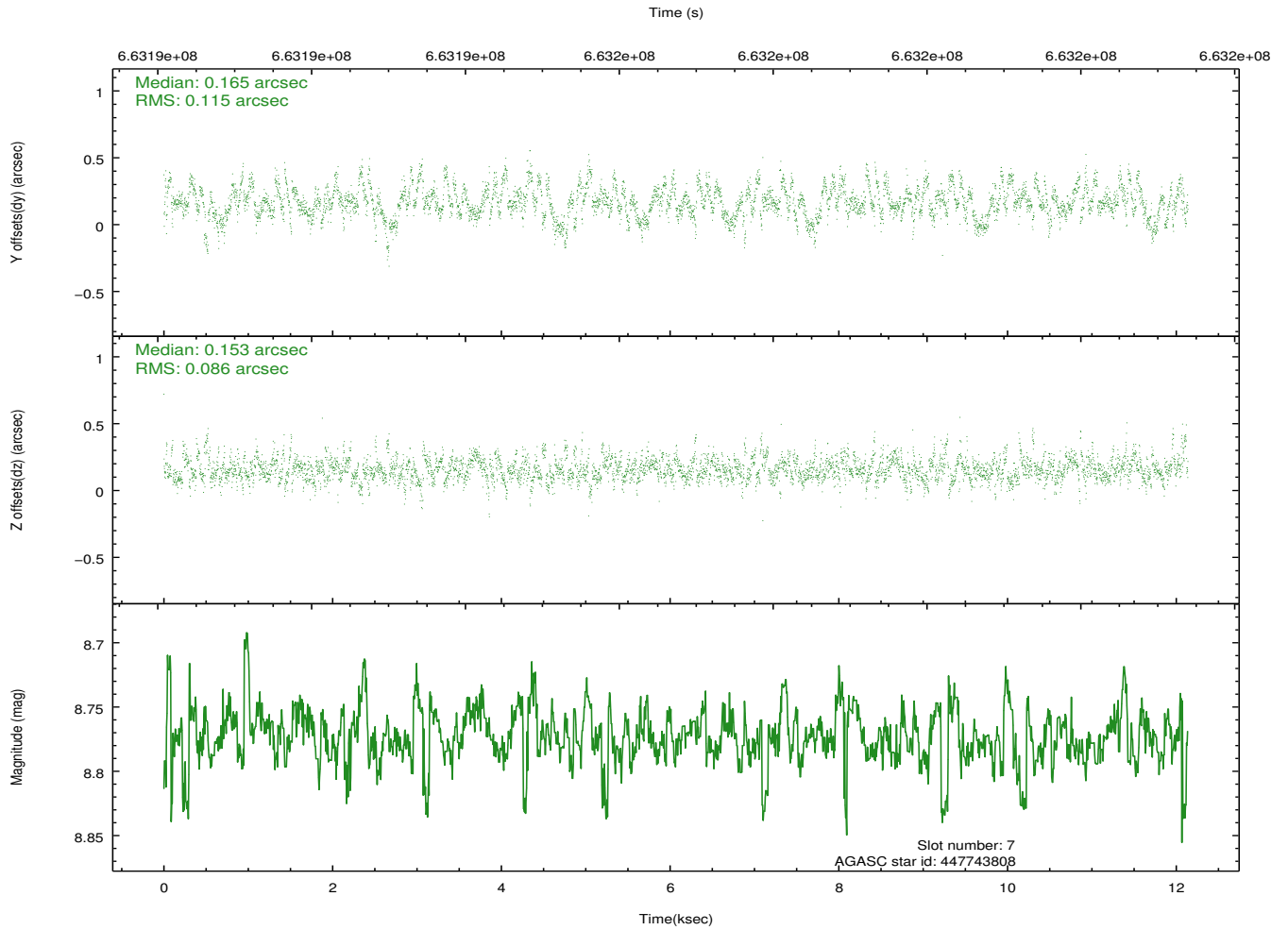
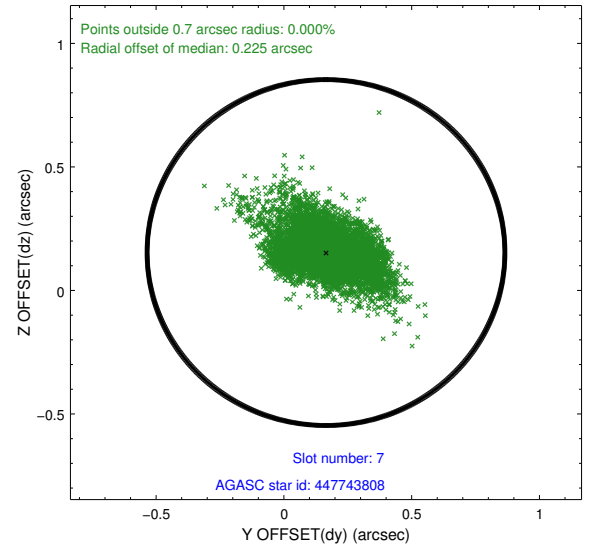
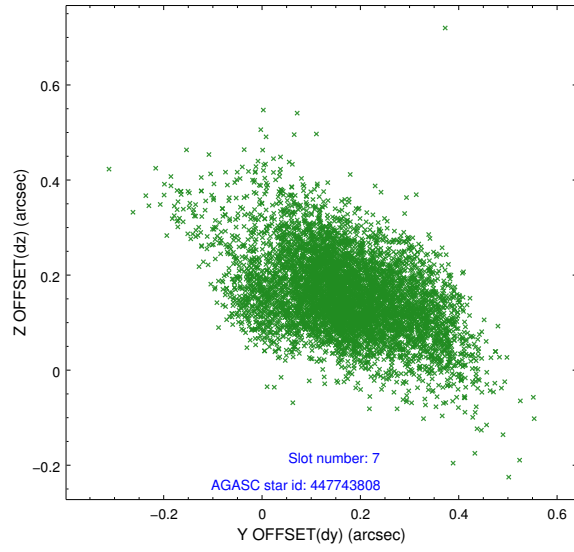
2.4.3 Slot 5



2.4.4 Slot 6

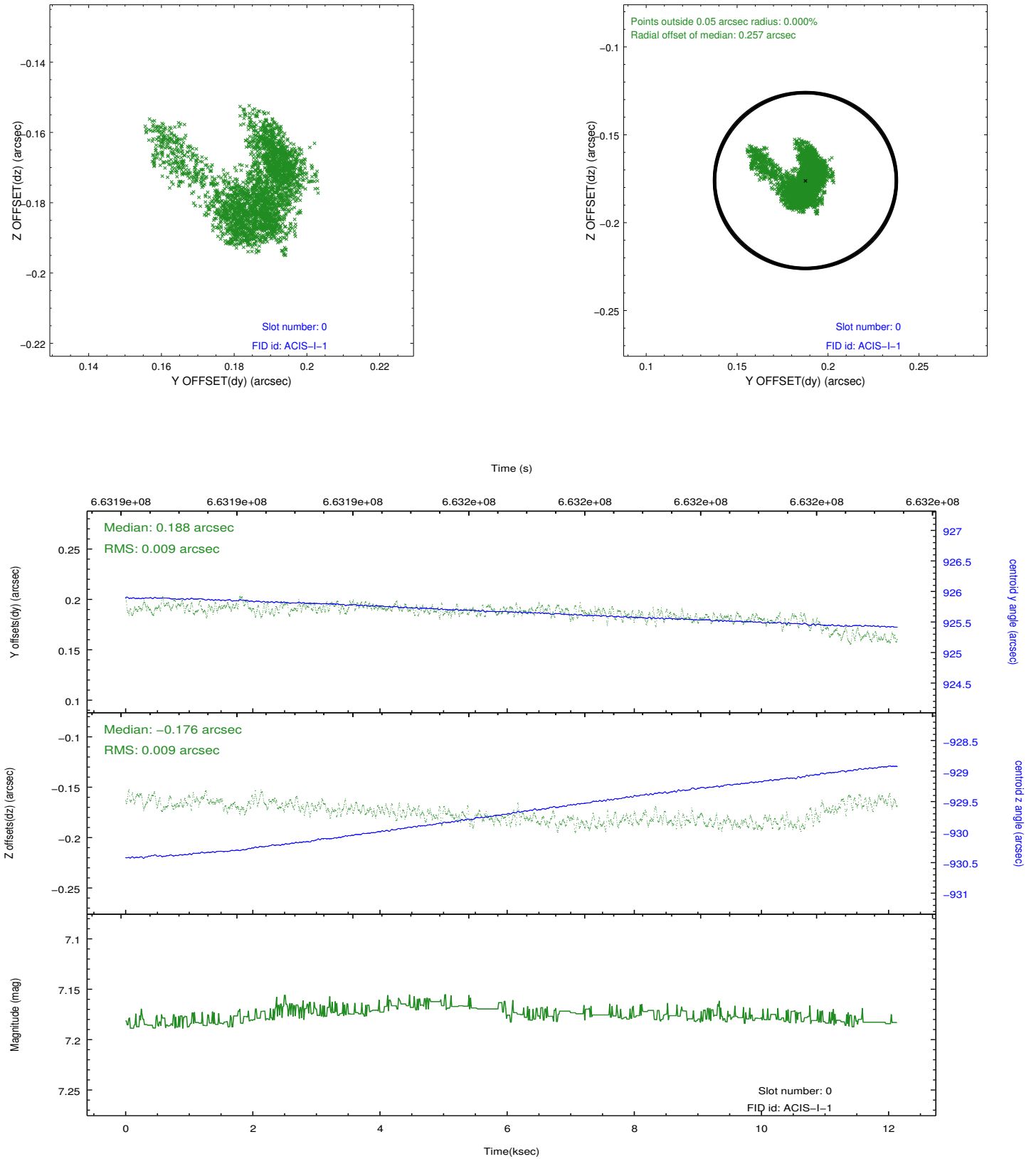


2.4.5 Slot 7

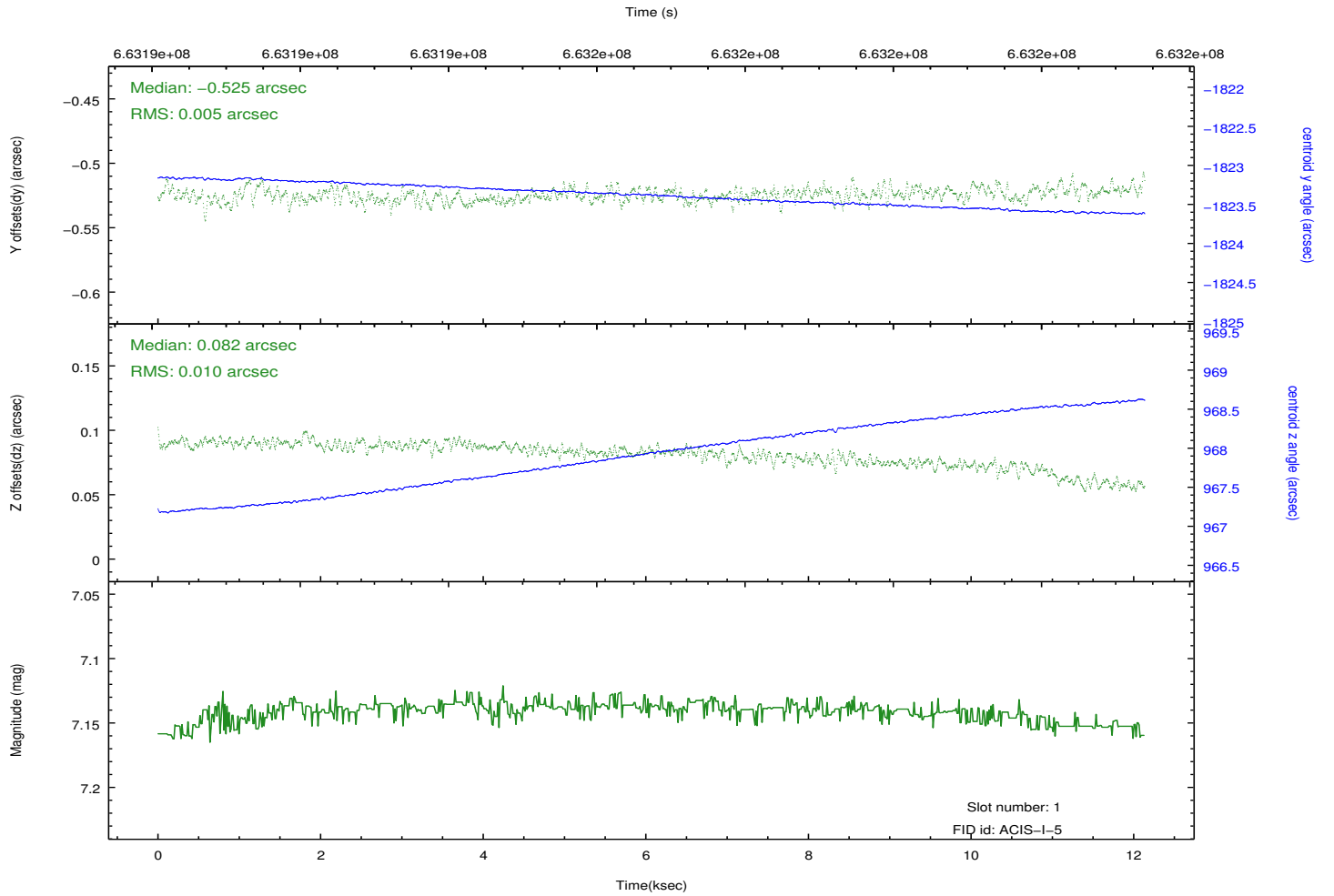
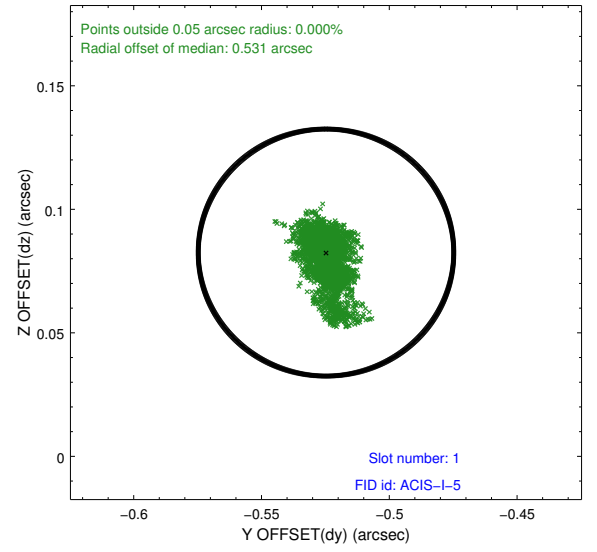
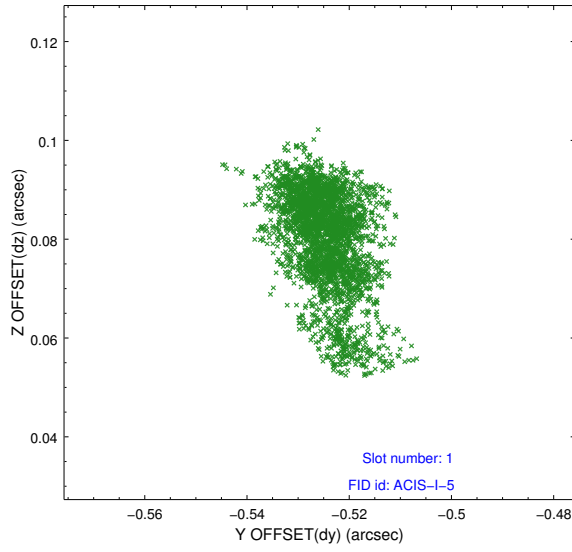


2.5 FID Slots

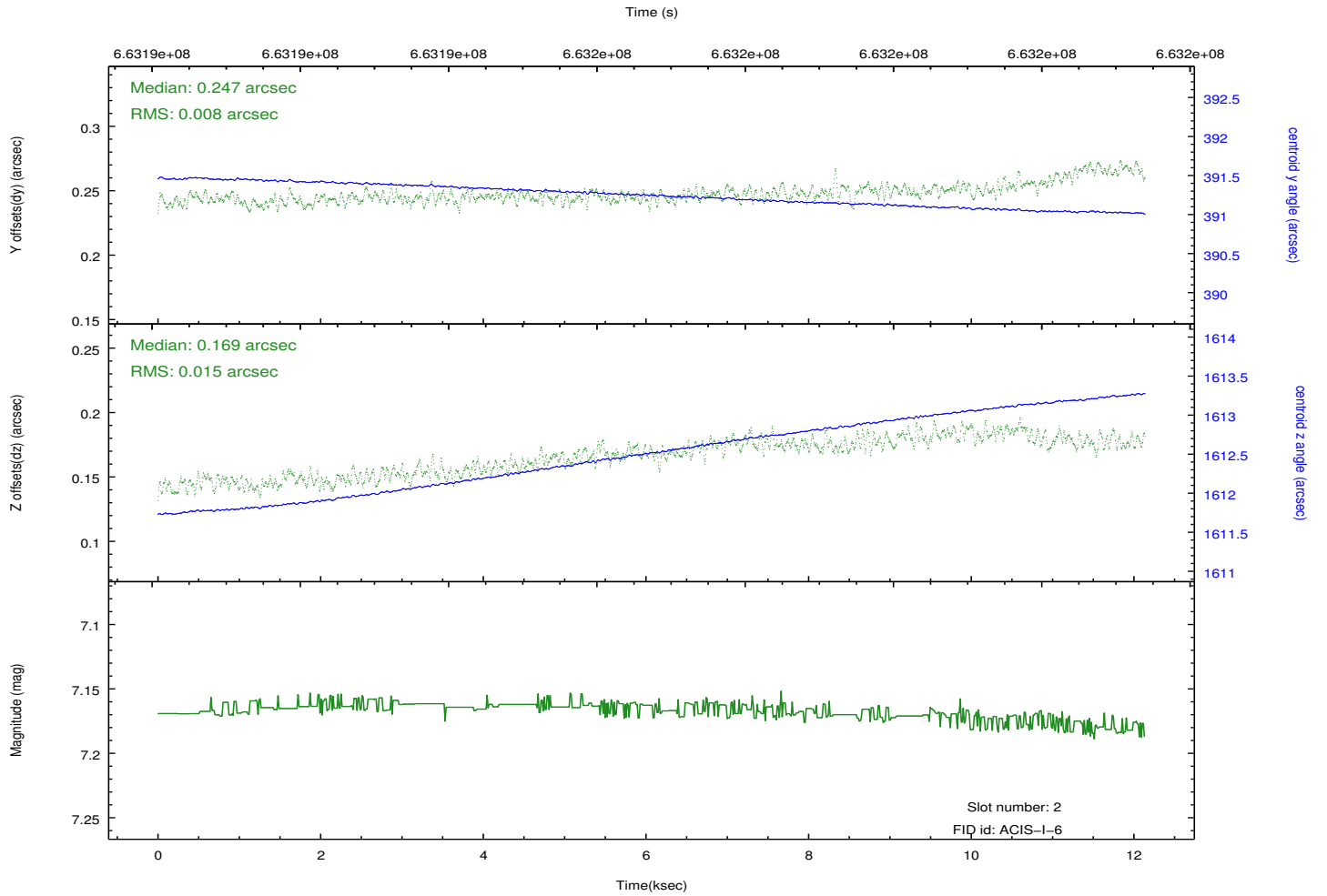
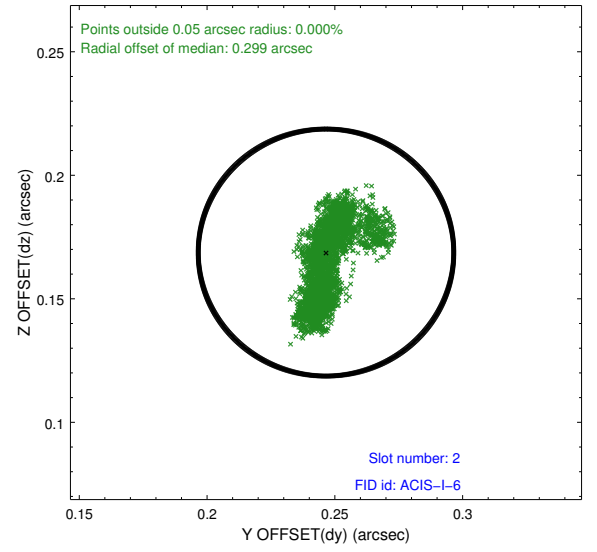
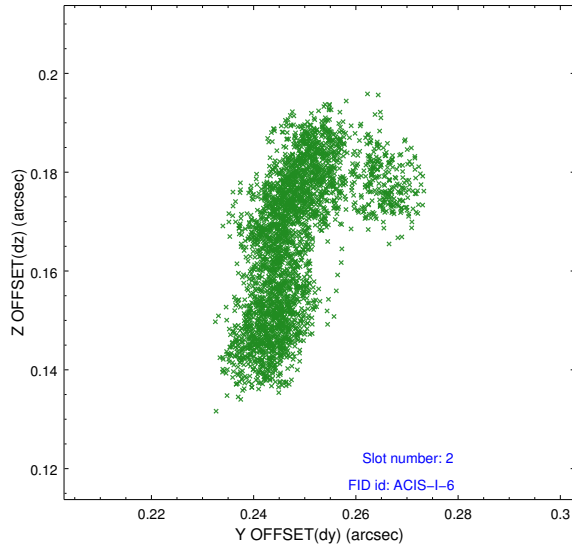
2.5.1 Slot 0



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)	2019.01.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.079504760861

A.2 Comments

Joint Proposal: HST