

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19589 - L2 Version 1
Chandra X-Ray Center

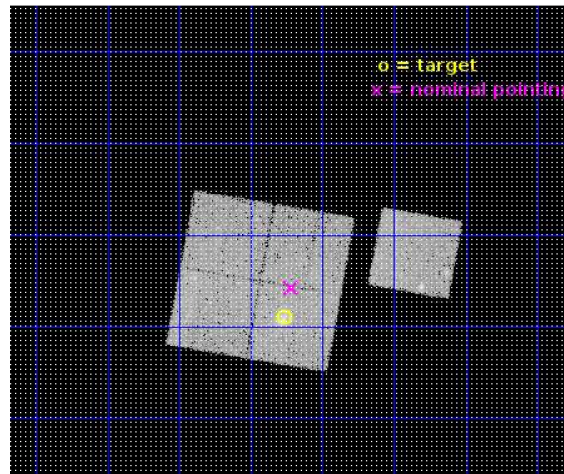
L2 Processing Date : Sep 10 2017

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1 Front

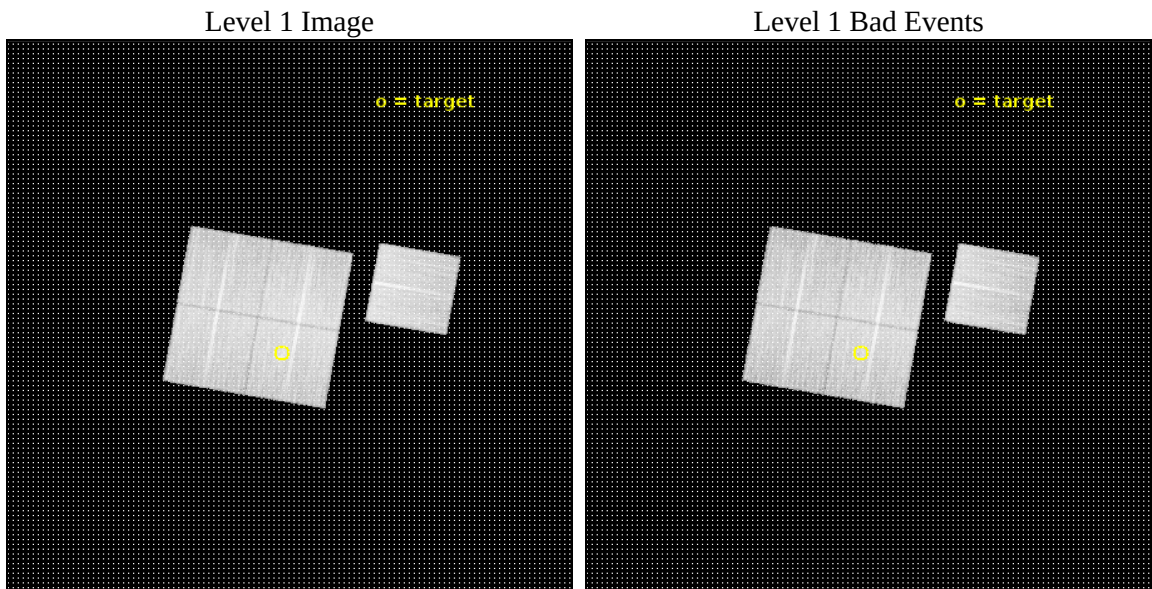
seq_num	801678	Sequence number
obs_id	19589	Observation id
title	A multiwavelength view of the intracluster medium at intermediate redshift in a mass-limited sample of ACTPol clusters	Proposal title
observer	Matt Hilton	Principal investigator
object	ACT-CL J0127.3+0021	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	21.816667	Observer's specified target RA [deg]
dec_targ	0.35	Observer's specified target Dec [deg]
ra_nom	21.804195464399	Nominal RA [deg]
dec_nom	0.40443688197543	Nominal Dec [deg]
roll_nom	100.01964603102	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30072.713969469	Sum of GTIs [s]
livetime	29679.791822248	Livetime [s]
ontime0	30072.590849519	Sum of GTIs [s]
ontime1	30063.208828688	Sum of GTIs [s]
ontime2	30069.531909108	Sum of GTIs [s]
ontime3	30072.713969469	Sum of GTIs [s]
ontime6	30066.267748952	Sum of GTIs [s]
l2events	96411	Number of level 2 events



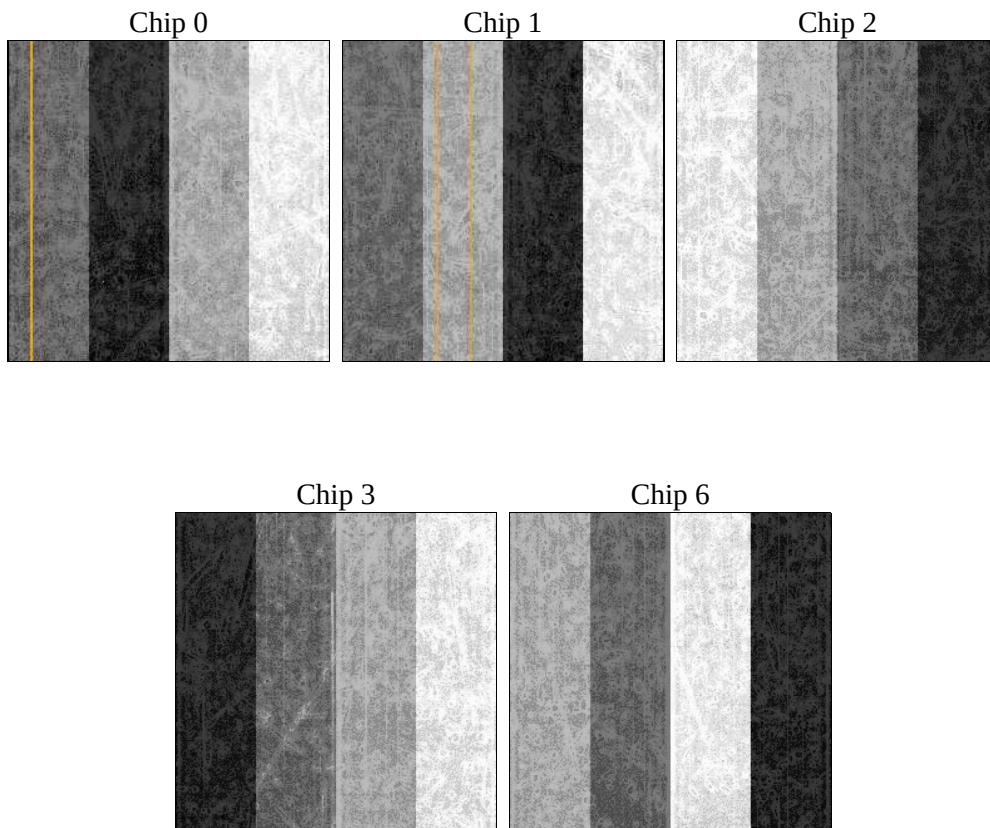
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	30072.713969469	Sum of GTIs [s]
caldsver	4.7.6	 	ontime0	30072.590849519	Sum of GTIs [s]
date	2017-09-10T21:03:49	Date and time of file creation	ontime1	30063.208828688	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	30069.531909108	Sum of GTIs [s]
			ontime3	30072.713969469	Sum of GTIs [s]
			ontime6	30066.267748952	Sum of GTIs [s]
			l1events	972942	Number of level 1 events

2.1.4 Events

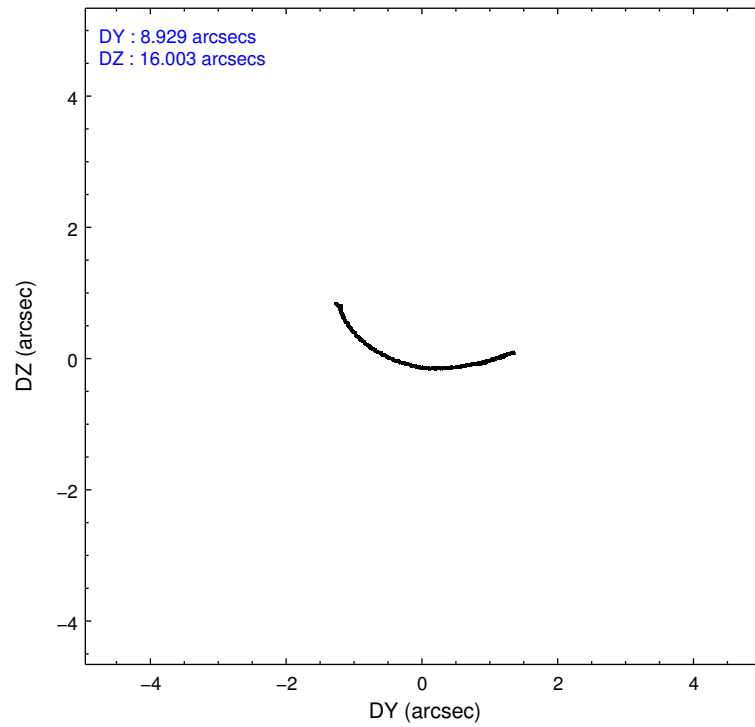
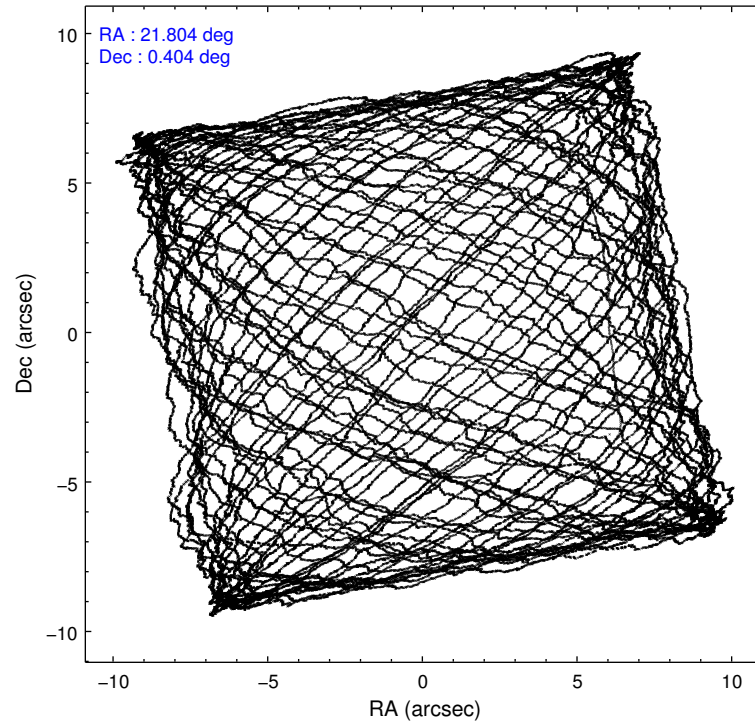
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	178149	184944	205858	197953	206038
rejected events	154606	160495	181320	174422	182066
rejected %	86%	86%	88%	88%	88%

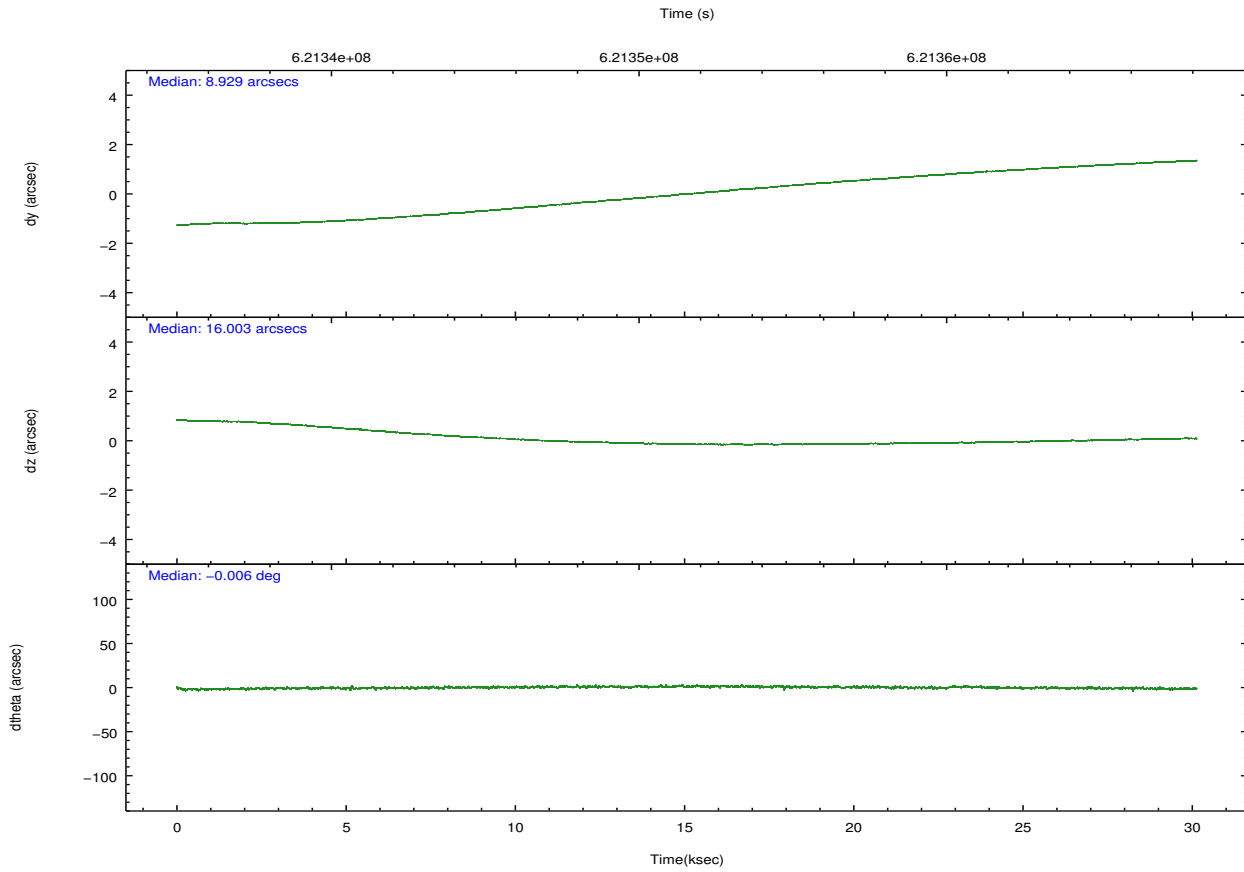
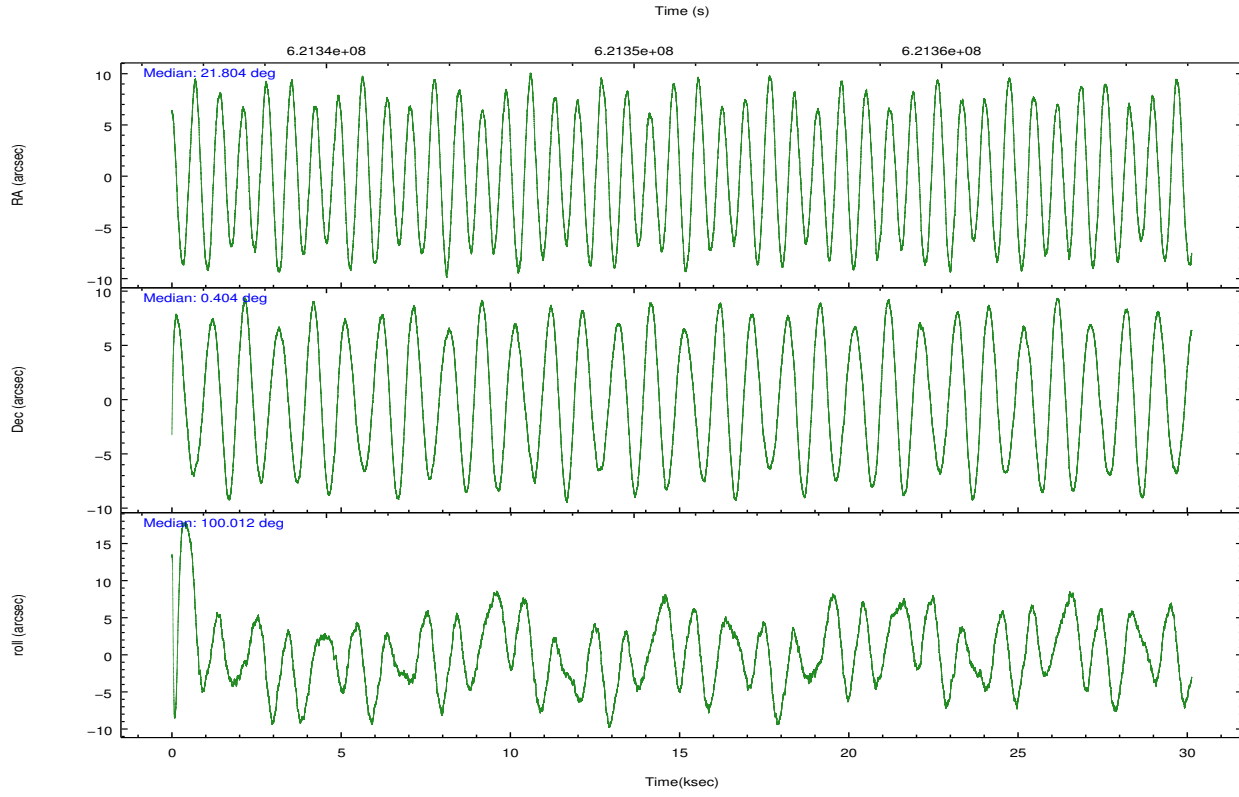
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8293	8356	8834	9540	8579
	4%	4%	4%	4%	4%
grade 1 events	99	94	130	117	95
	0%	0%	0%	0%	0%
grade 2 events	6360	6252	6717	4986	5831
	3%	3%	3%	2%	2%
grade 3 events	2141	2305	2089	2298	2168
	1%	1%	1%	1%	1%
grade 4 events	2128	2260	2462	2277	2153
	1%	1%	1%	1%	1%
grade 5 events	8207	8529	7925	9347	8959
	4%	4%	3%	4%	4%
grade 6 events	4624	5279	4442	4433	5244
	2%	2%	2%	2%	2%
grade 7 events	146297	151869	173259	164955	173009
	82%	82%	84%	83%	83%

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	21.822031	21.80419546439913	CCD I2 on	Y	Y
[deg] Pointing Dec	0.383356	0.4044368819754281	CCD I3 on	Y	Y
[deg] Pointing Roll	99.810824	100.0196460310153	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	Y	Y
[mm] SIM translation stage pos	-225.792463	-225.7829997647864	CCD S3 on	O1	N
[mm] SIM translation stage offset	-7.8	-7.809453238143249	CCD S4 on	N	N
[s] Observation start time (MET)	621336599.184000	621335357.97633	CCD S5 on	N	N
Observation start date	2017-09-09T09:28:50	2017-09-09T09:09:17	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	621366599.184000	621367531.70321	On-chip summing requested	N	N
Observation end date	2017-09-09T17:48:50	2017-09-09T18:05:31	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



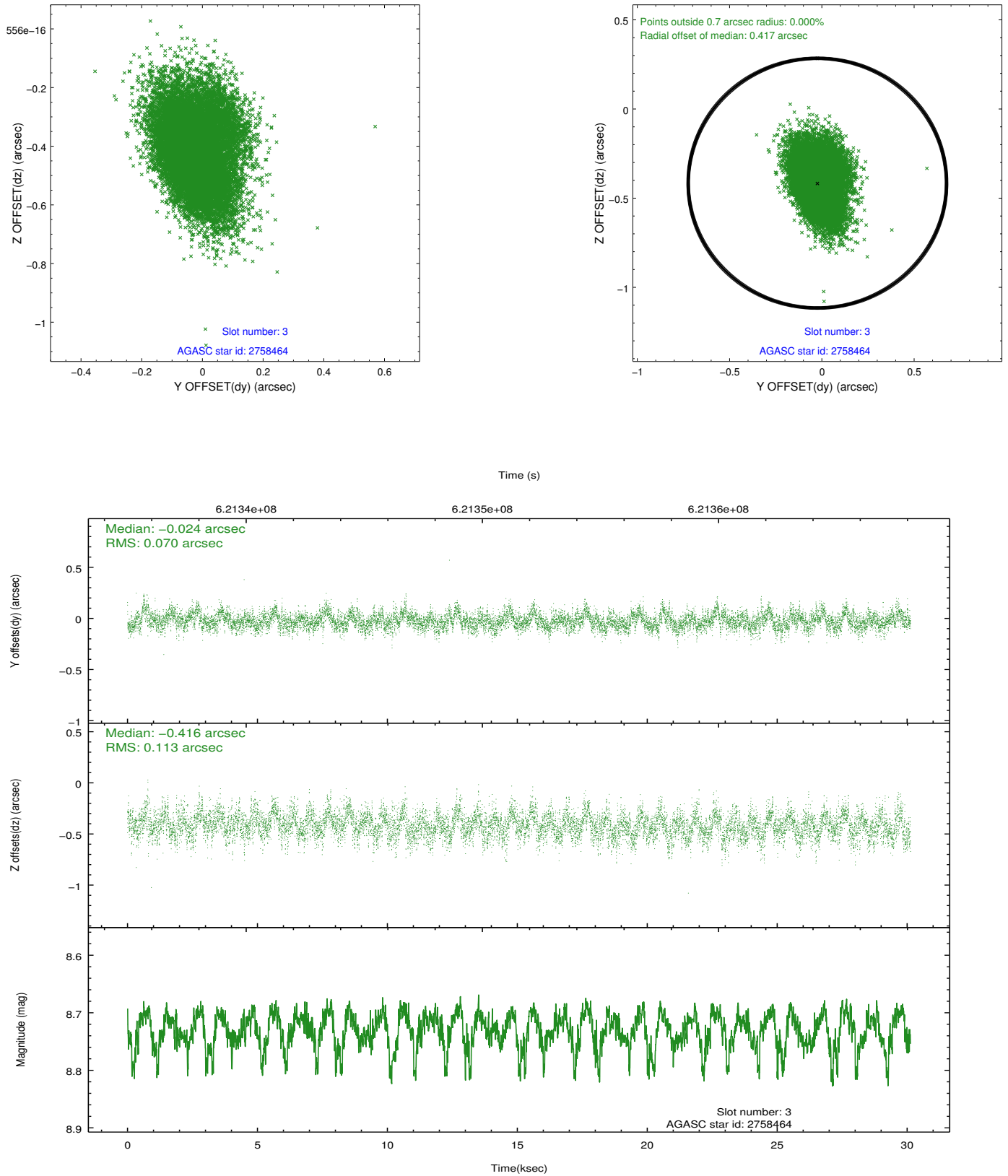


Slot Statistics

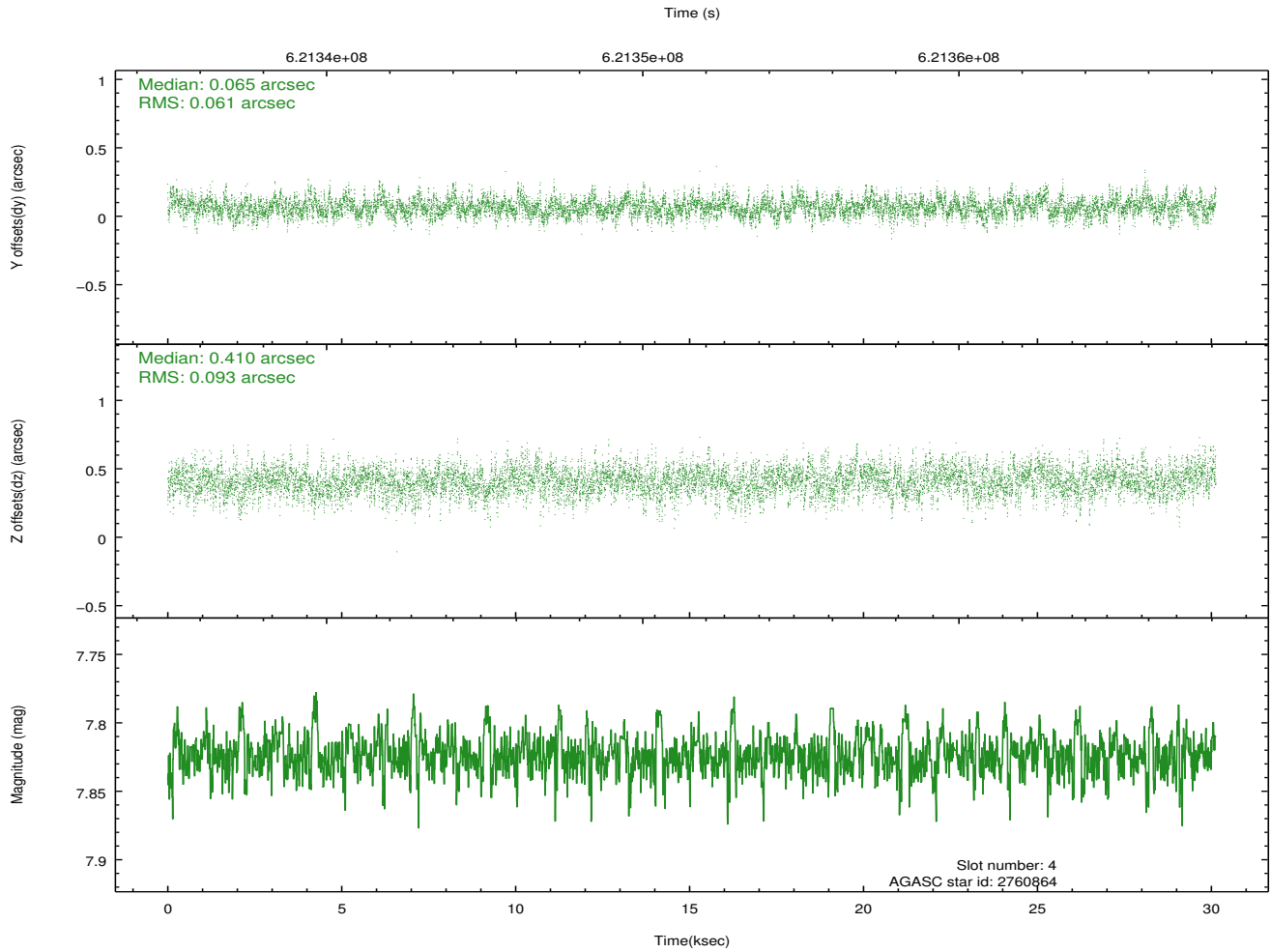
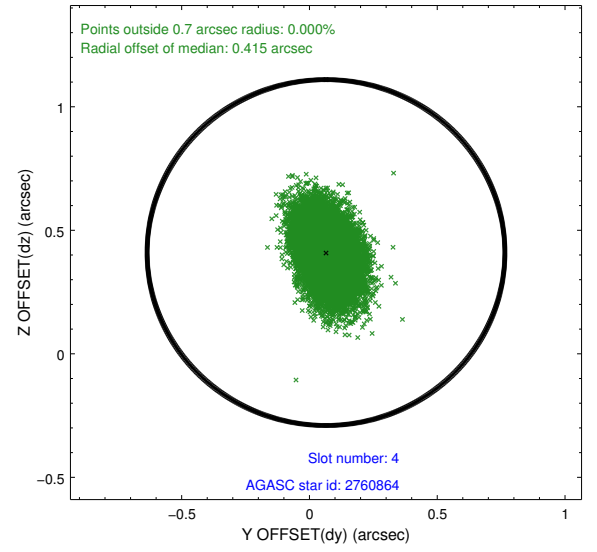
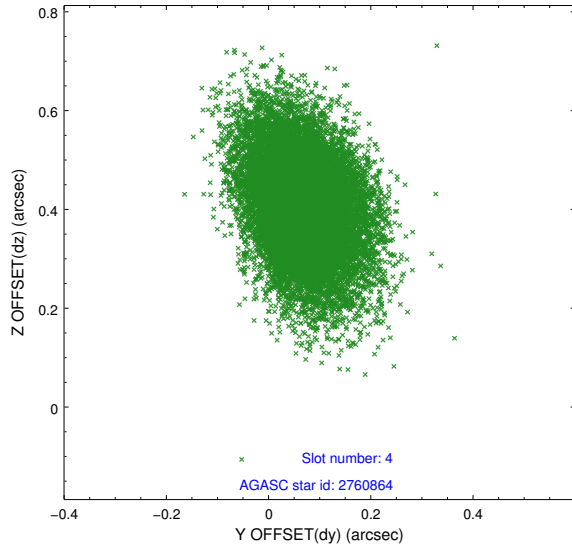
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.04	7348	-0.087	-0.130	0.013	0.021	0.000000	0.000000	930.55	-1000.14
1	FID		ACIS-I-4	6.96	7349	0.016	0.137	0.037	0.048	0.000000	0.000000	2150.16	900.93
2	FID		ACIS-I-6	7.05	7349	-0.023	0.066	0.044	0.055	0.000000	0.000000	396.44	1542.04
3	GUIDE	used	2758464	8.73	14682	-0.024	-0.416	0.139	0.238	21.264558	0.269048	-64.08	2047.79
4	GUIDE	used	2760864	7.82	14699	0.065	0.410	0.114	0.200	22.470753	0.374539	-428.49	-2295.10
5	GUIDE	used	613682536	8.93	14686	0.033	-0.023	0.141	0.239	21.593651	-0.221167	-2004.19	1179.52
6	GUIDE	used	613689272	7.92	14696	0.072	-0.064	0.116	0.204	21.756447	-0.157587	-1885.76	560.46
7	GUIDE	used	2761824	9.36	14686	-0.149	0.108	0.176	0.299	22.191924	0.711667	937.94	-1512.88

2.4 Star Slots

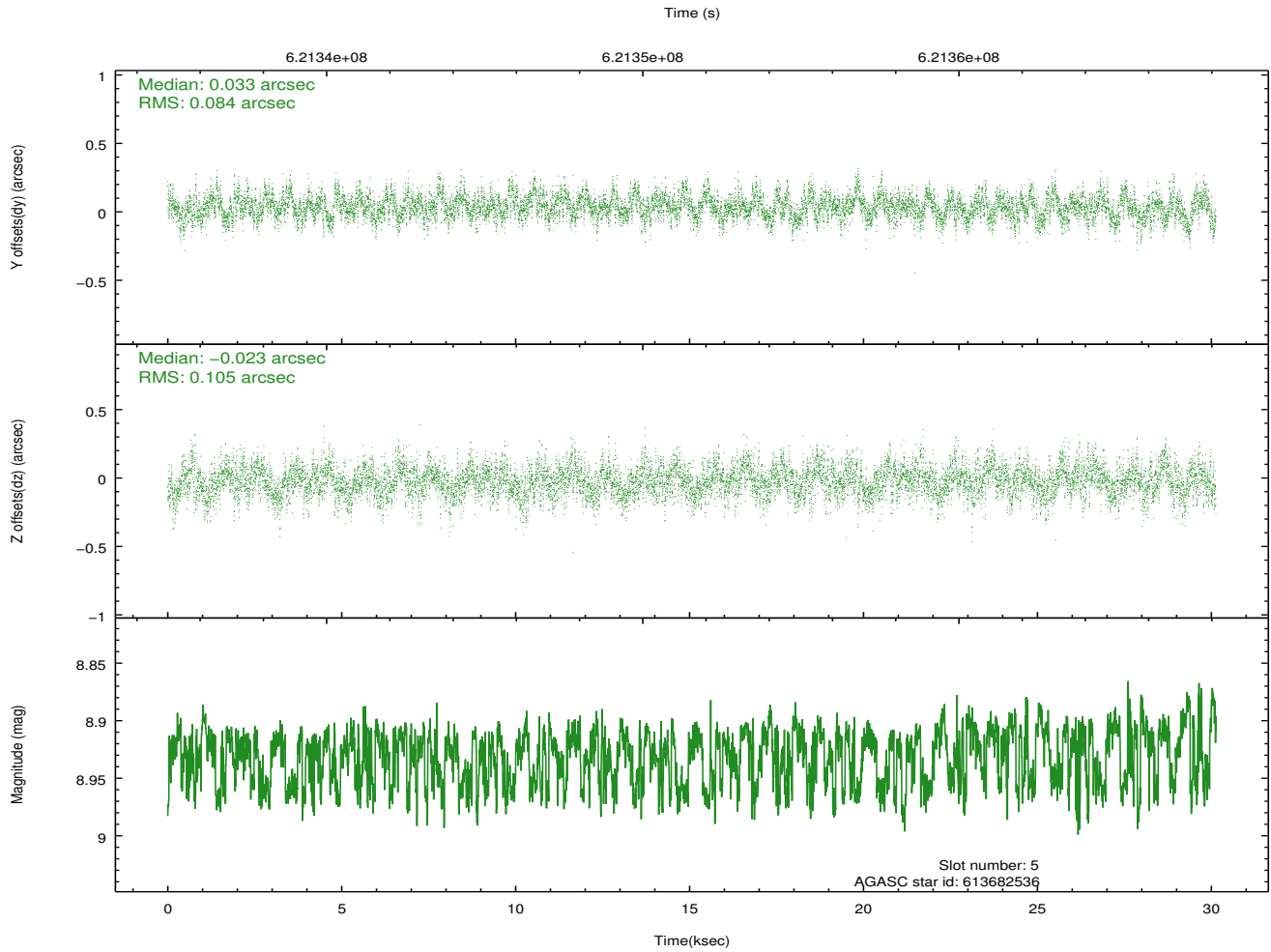
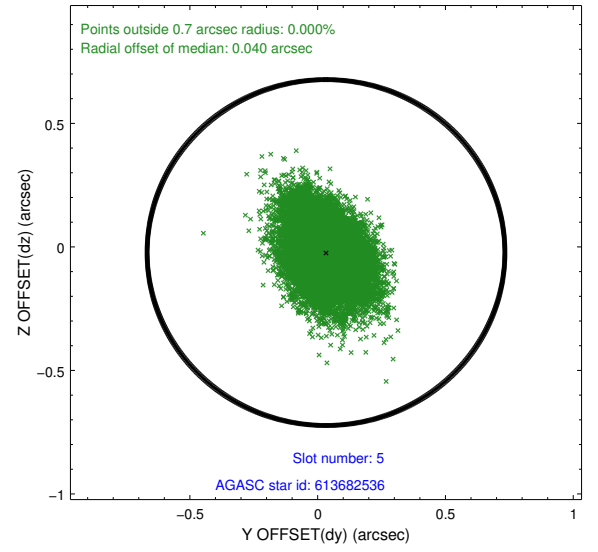
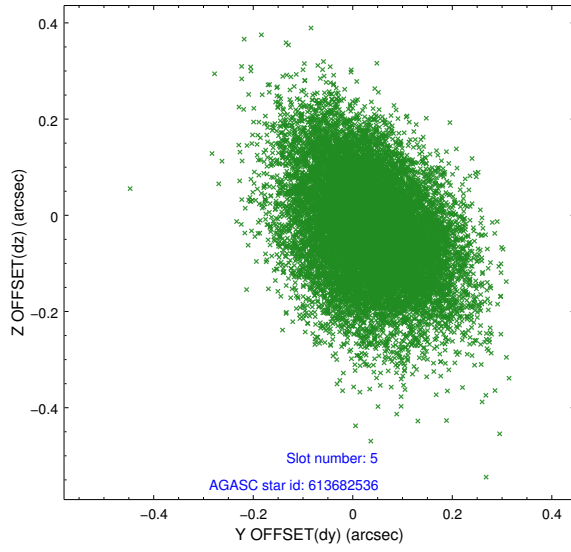
2.4.1 Slot 3



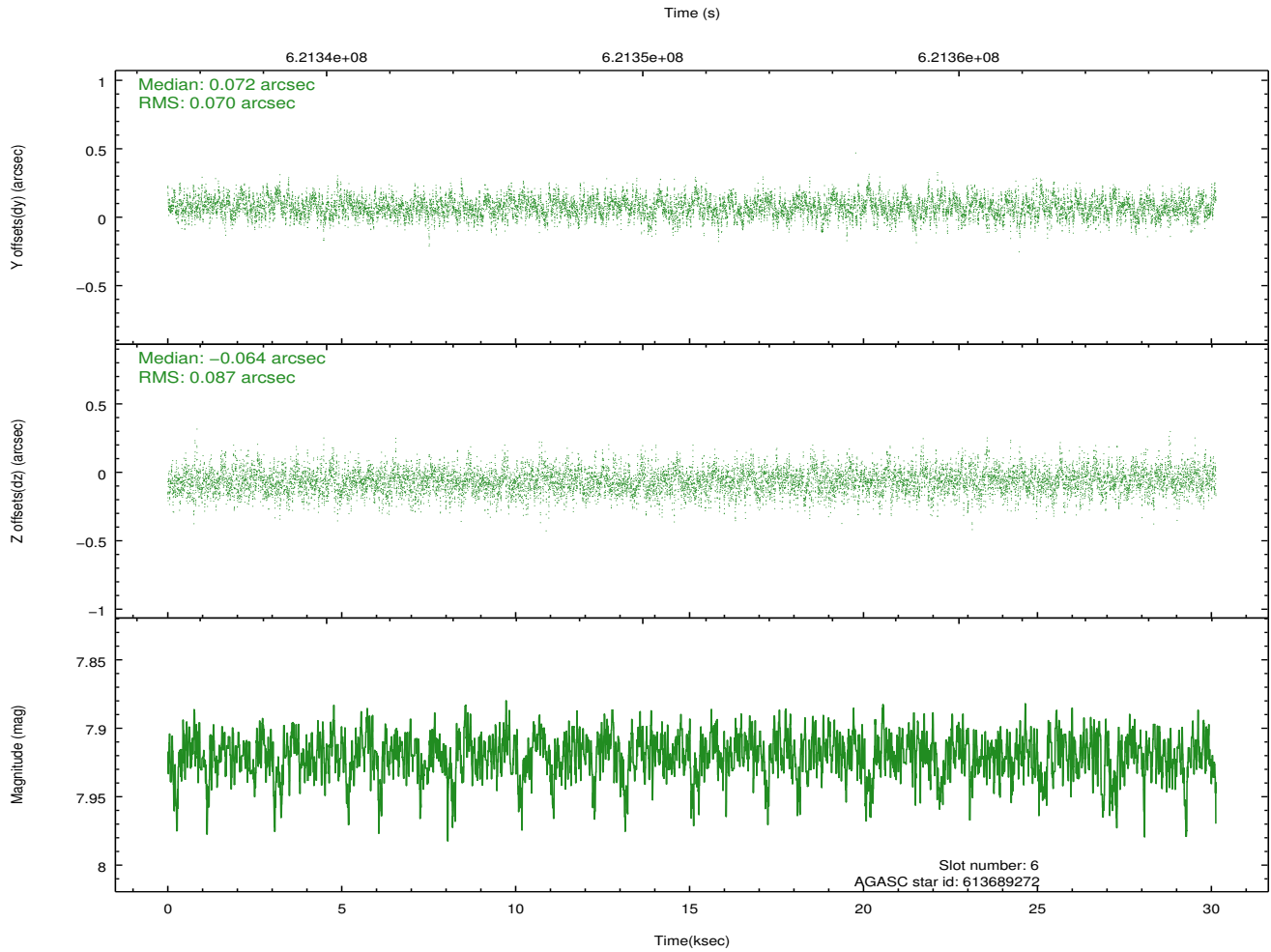
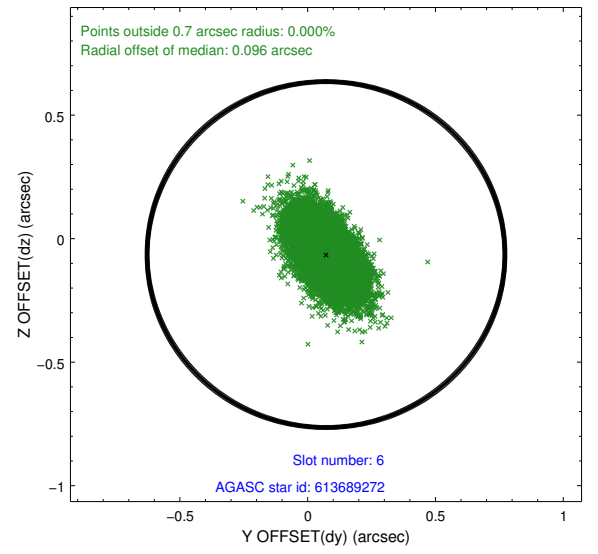
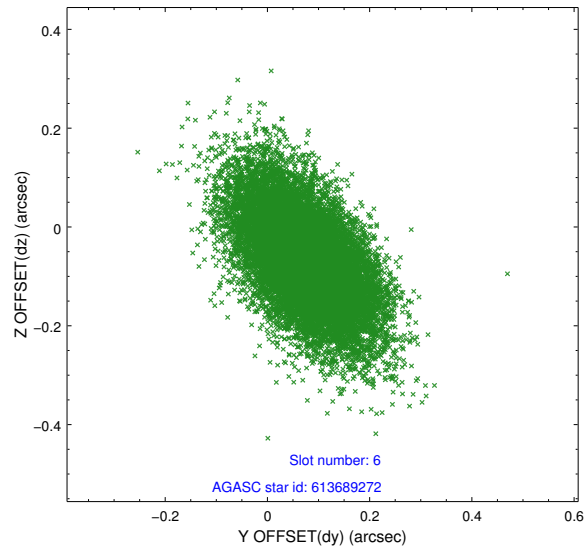
2.4.2 Slot 4



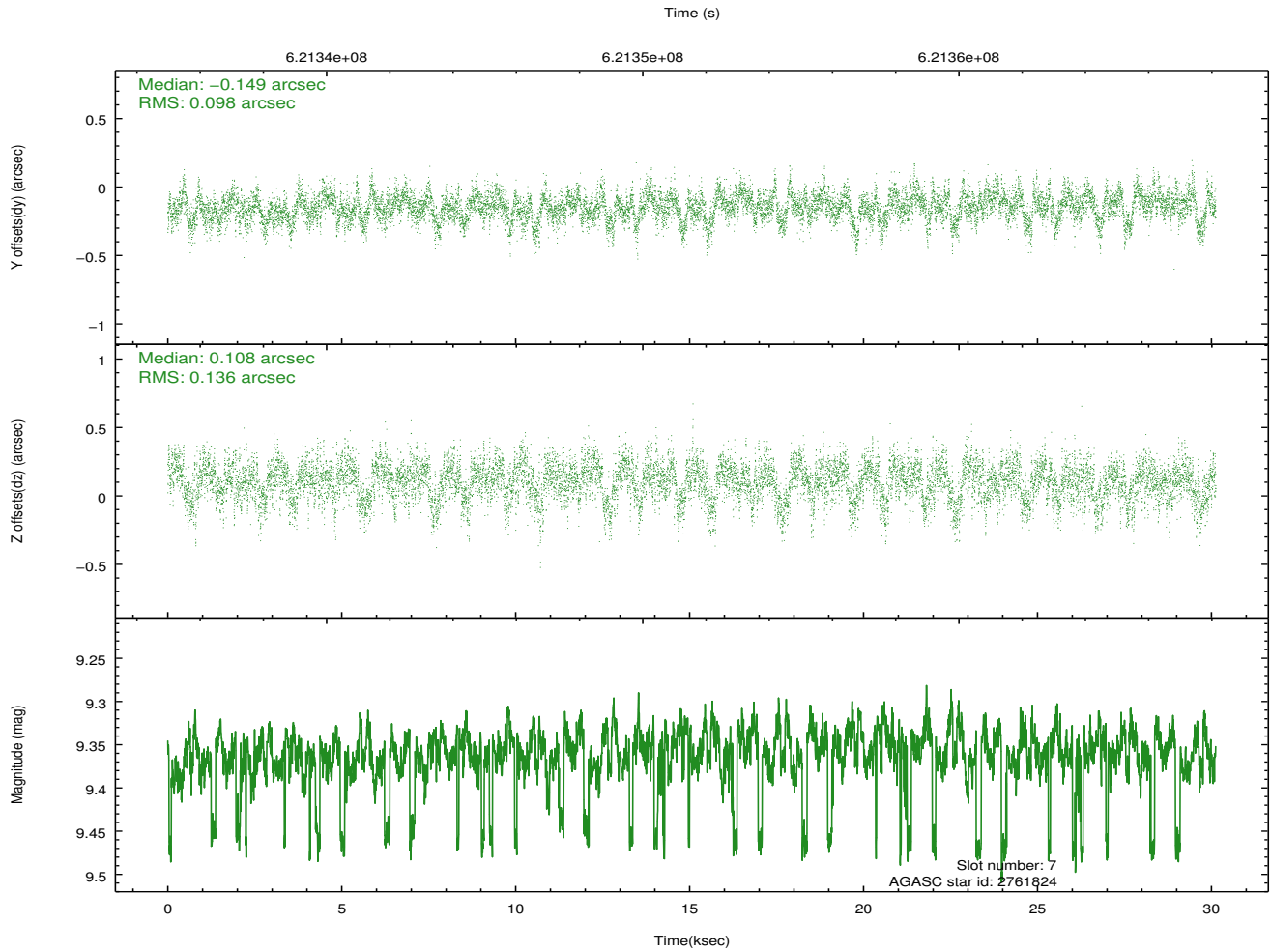
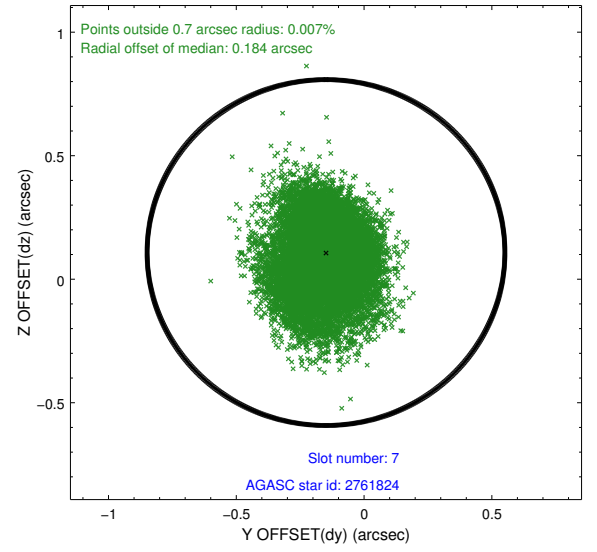
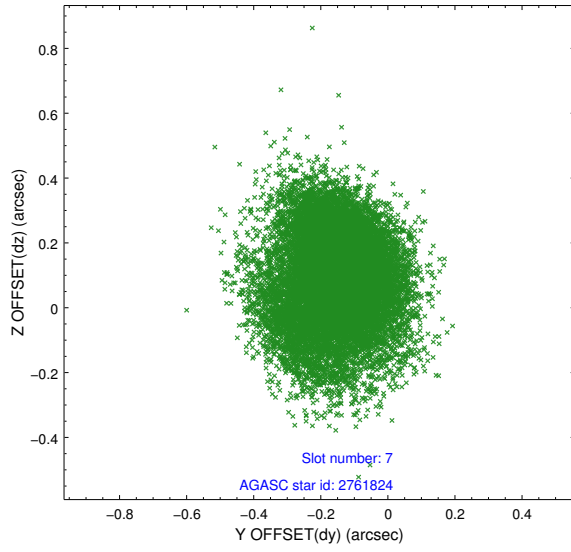
2.4.3 Slot 5



2.4.4 Slot 6

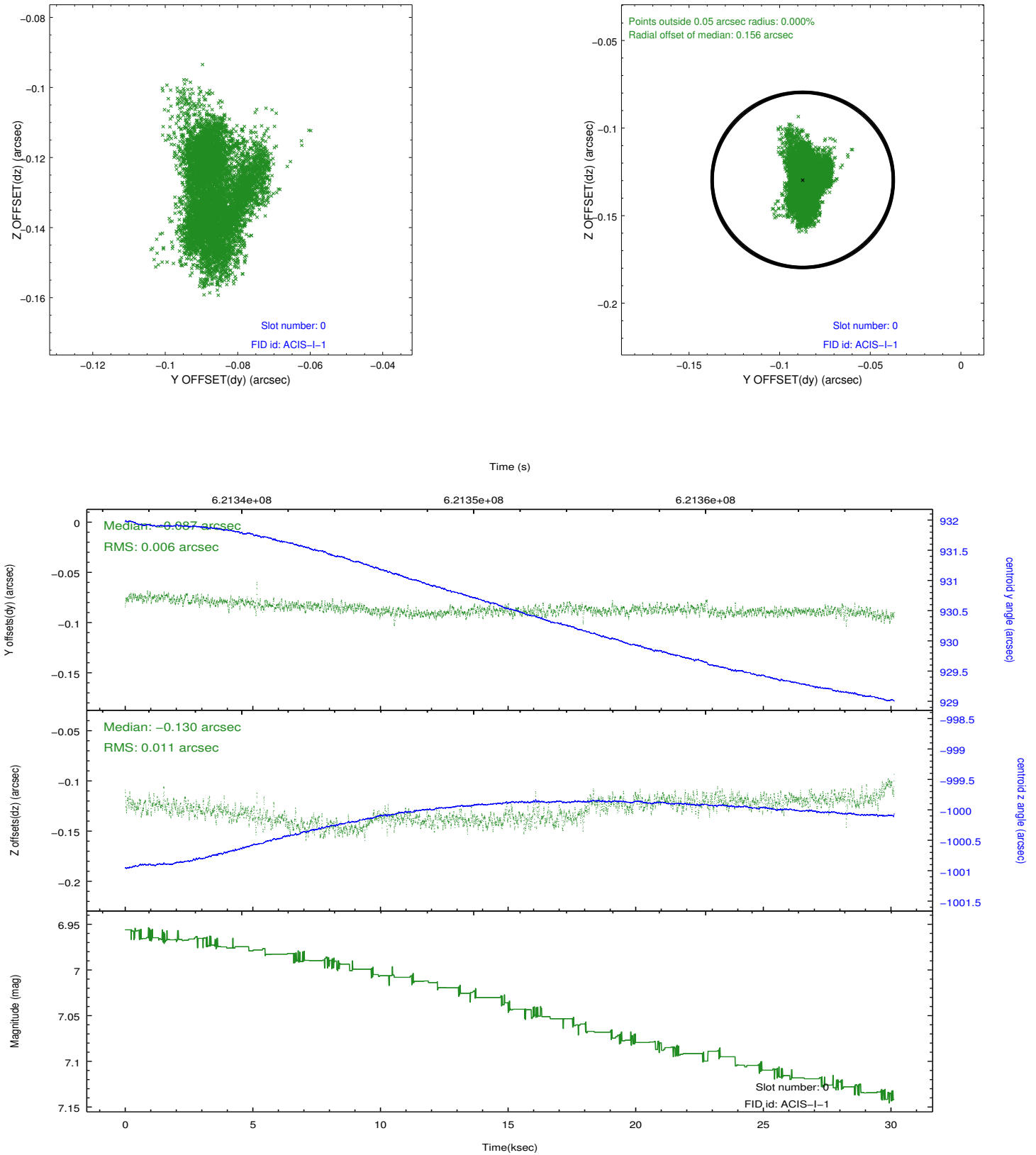


2.4.5 Slot 7

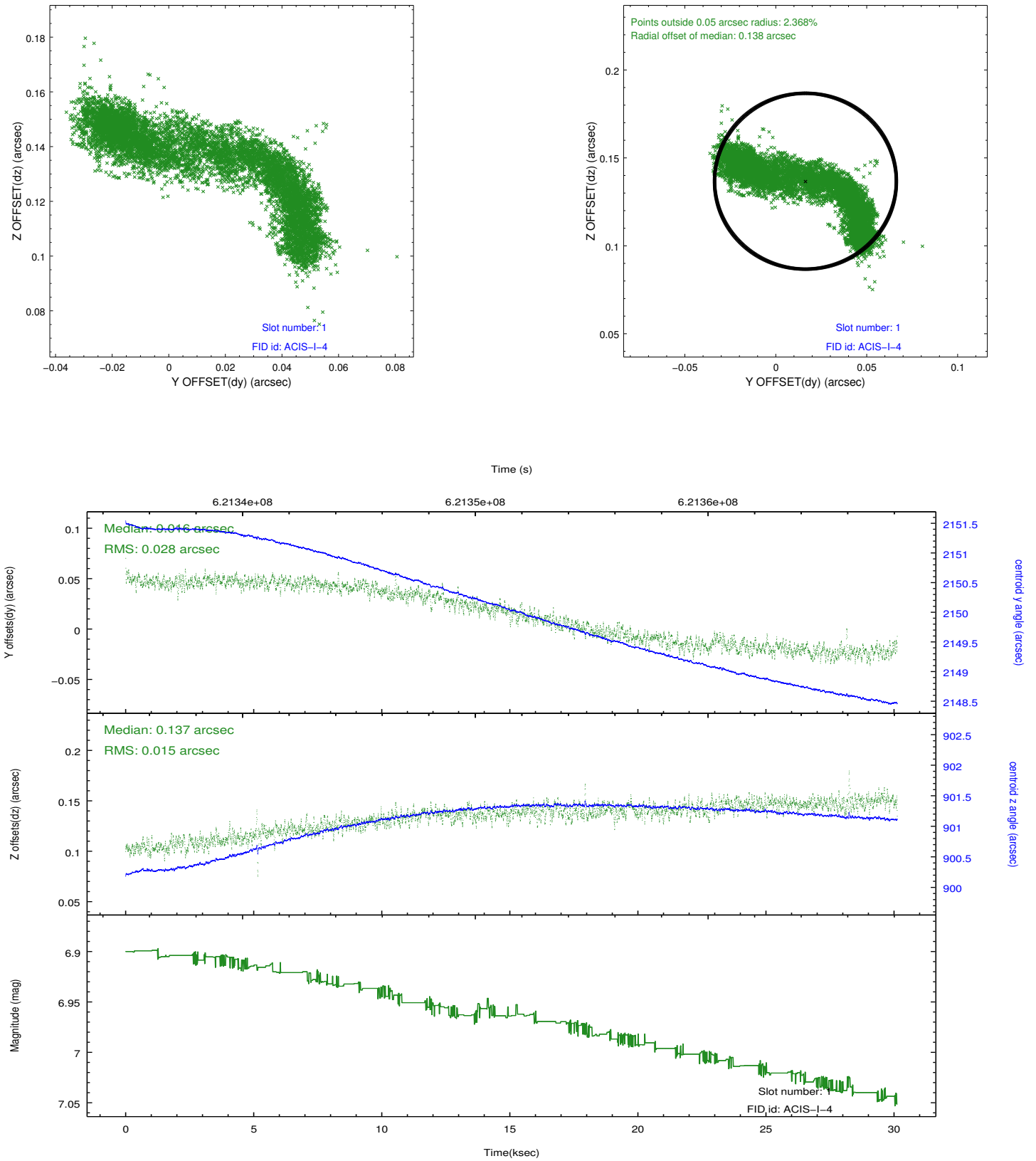


2.5 FID Slots

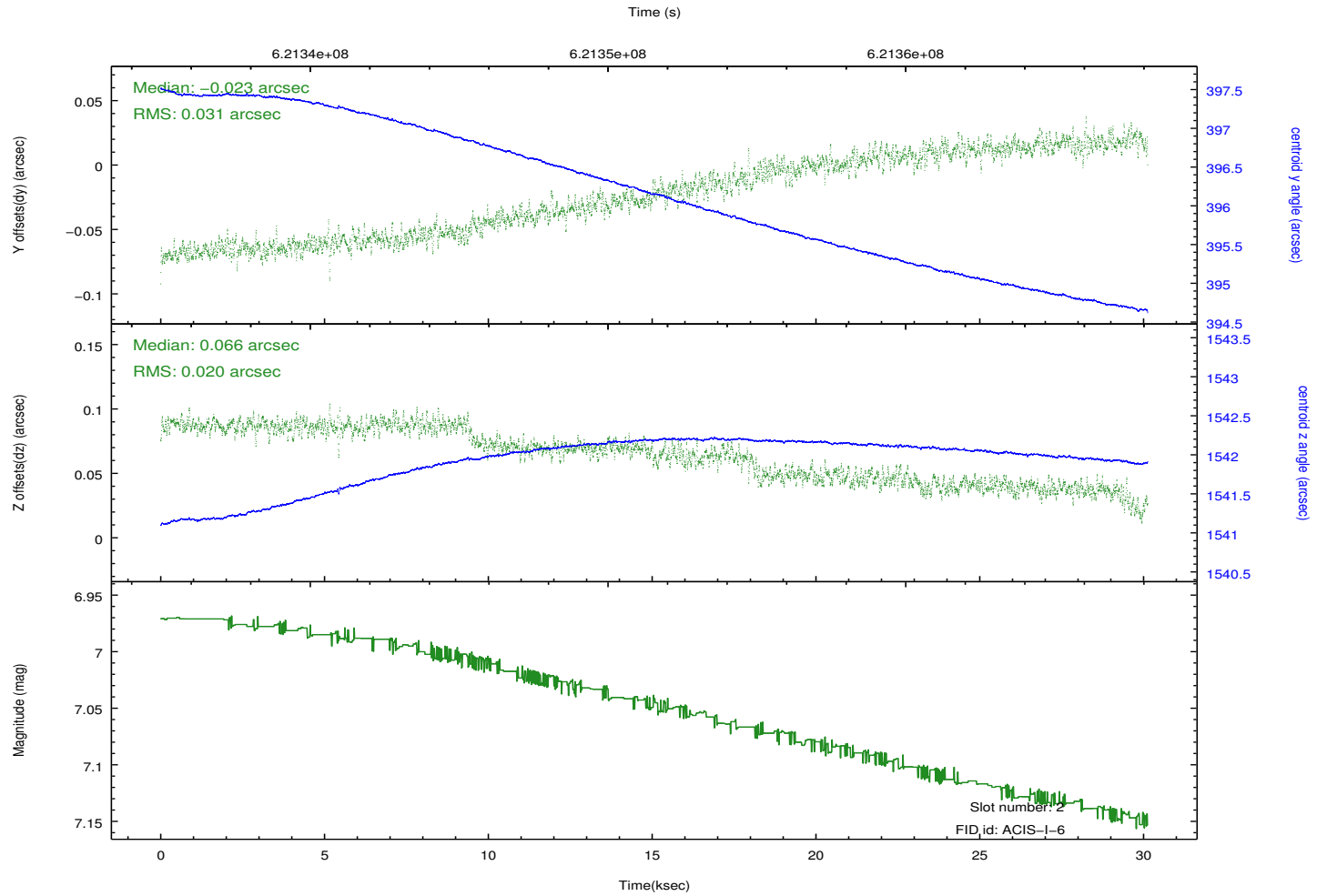
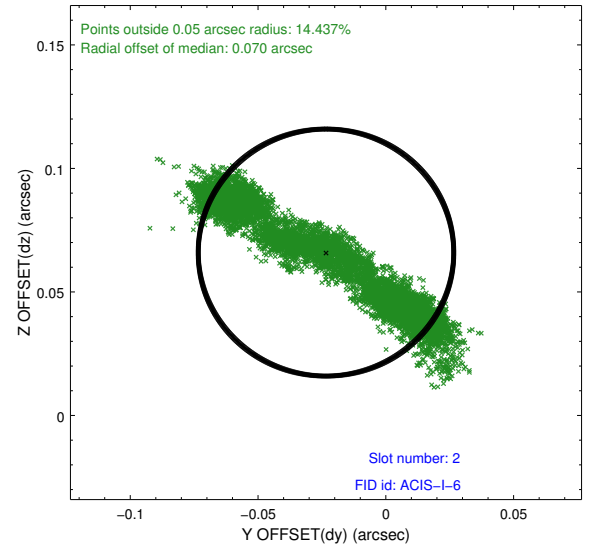
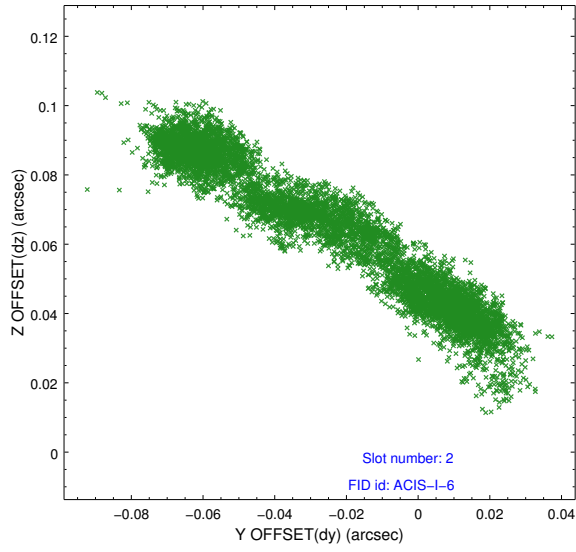
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.09.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.072713969469

A.2 Comments