

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22098 - L2 Version 1
Chandra X-Ray Center

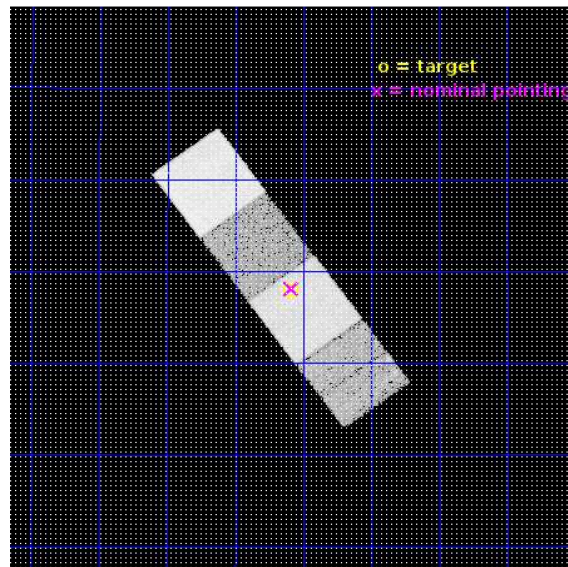
L2 Processing Date : Feb 18 2019

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1 Front

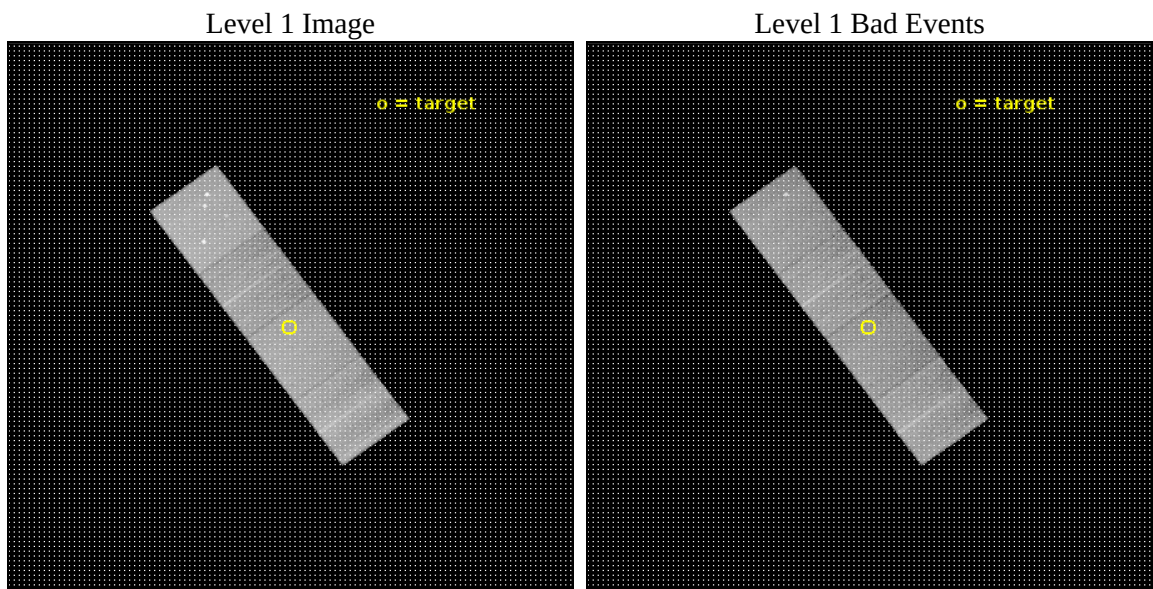
seq_num	201167	Sequence number
obs_id	22098	Observation id
title	Catching an FUor in the Act: Chandra ToO Observations of Extreme Accretion onto Young S	Proposal title
observer	David Pooley	Principal investigator
object	Gaia17bpi	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	292.773292	Observer's specified target RA [deg]
dec_targ	18.464519	Observer's specified target Dec [deg]
ra_nom	292.77157795791	Nominal RA [deg]
dec_nom	18.468694334171	Nominal Dec [deg]
roll_nom	53.910902437572	Nominal Roll [deg]
revision	1	Processing version of data
ontime	17563.828108191	Sum of GTIs [s]
livetime	17334.343763656	Livetime [s]
ontime5	17563.787068248	Sum of GTIs [s]
ontime6	17563.746028185	Sum of GTIs [s]
ontime7	17563.828108191	Sum of GTIs [s]
ontime8	17557.423276663	Sum of GTIs [s]
l2events	202939	Number of level 2 events



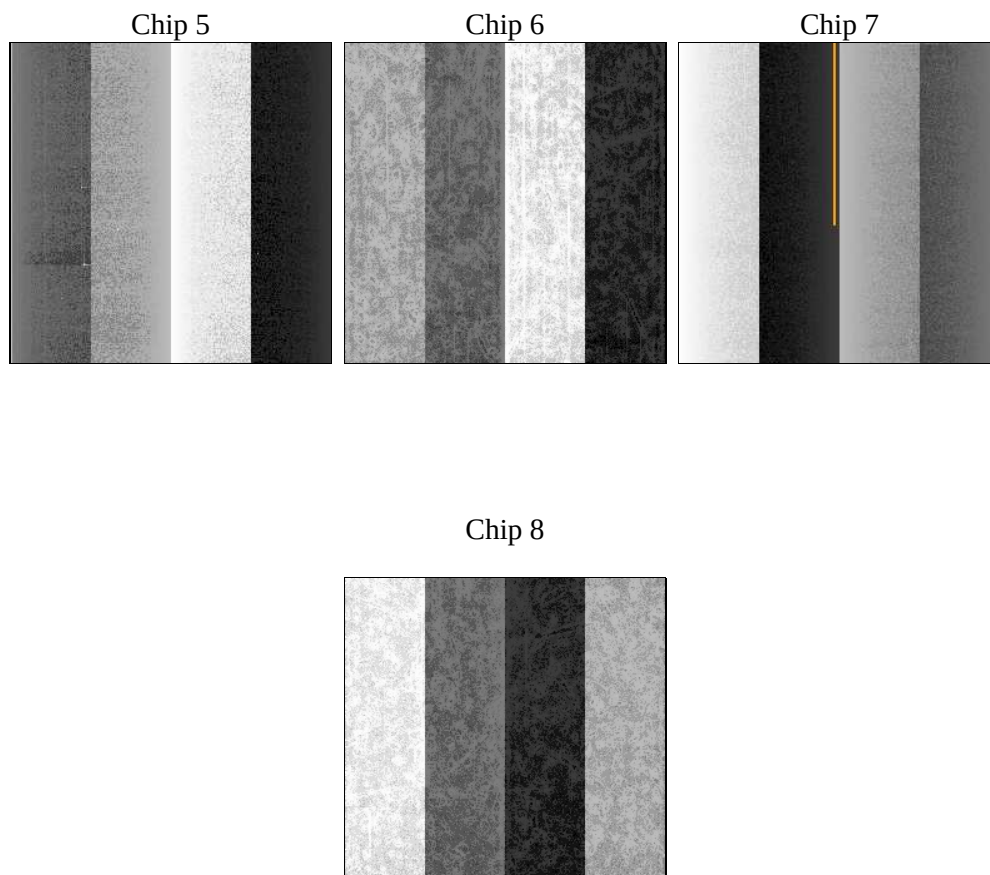
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	17500.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	17563.828108191	Sum of GTIs [s]
caldsver	4.8.2	 	ontime5	17563.787068248	Sum of GTIs [s]
date	2019-02-18T16:15:22	Date and time of file creation	ontime6	17563.746028185	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	17563.828108191	Sum of GTIs [s]
			ontime8	17557.423276663	Sum of GTIs [s]
			l1events	710850	Number of level 1 events

2.1.4 Events

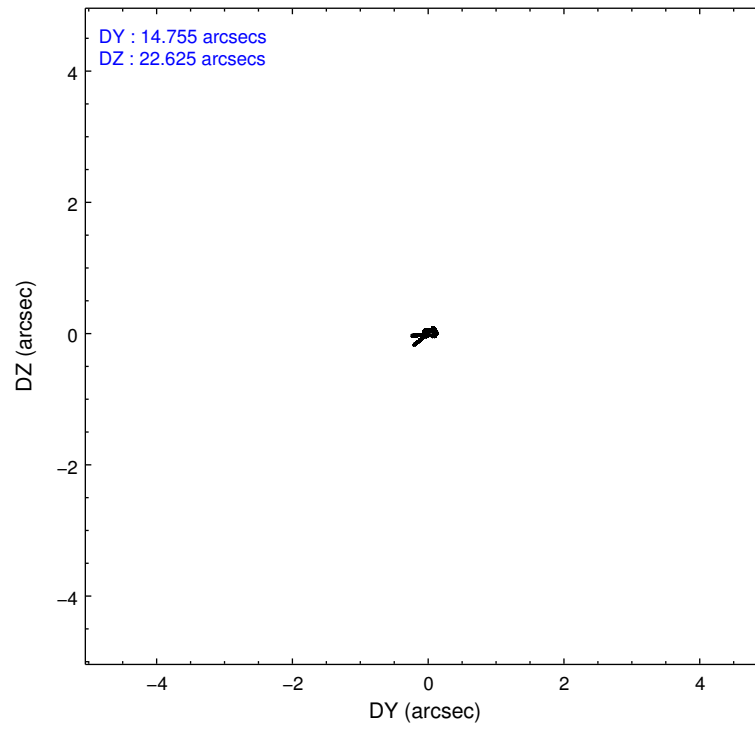
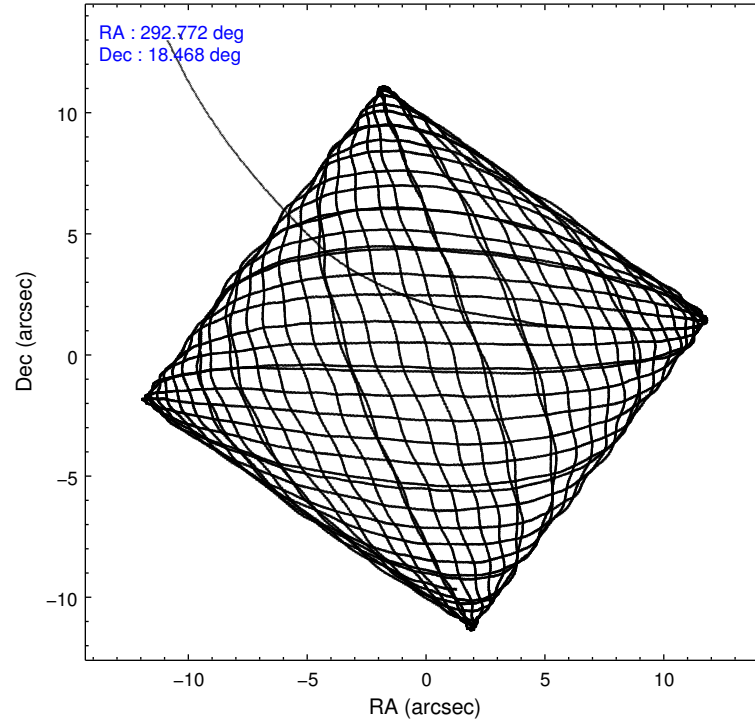
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	224411	136534	170929	178976
rejected events	111535	121002	96013	127135
rejected %	49%	88%	56%	71%

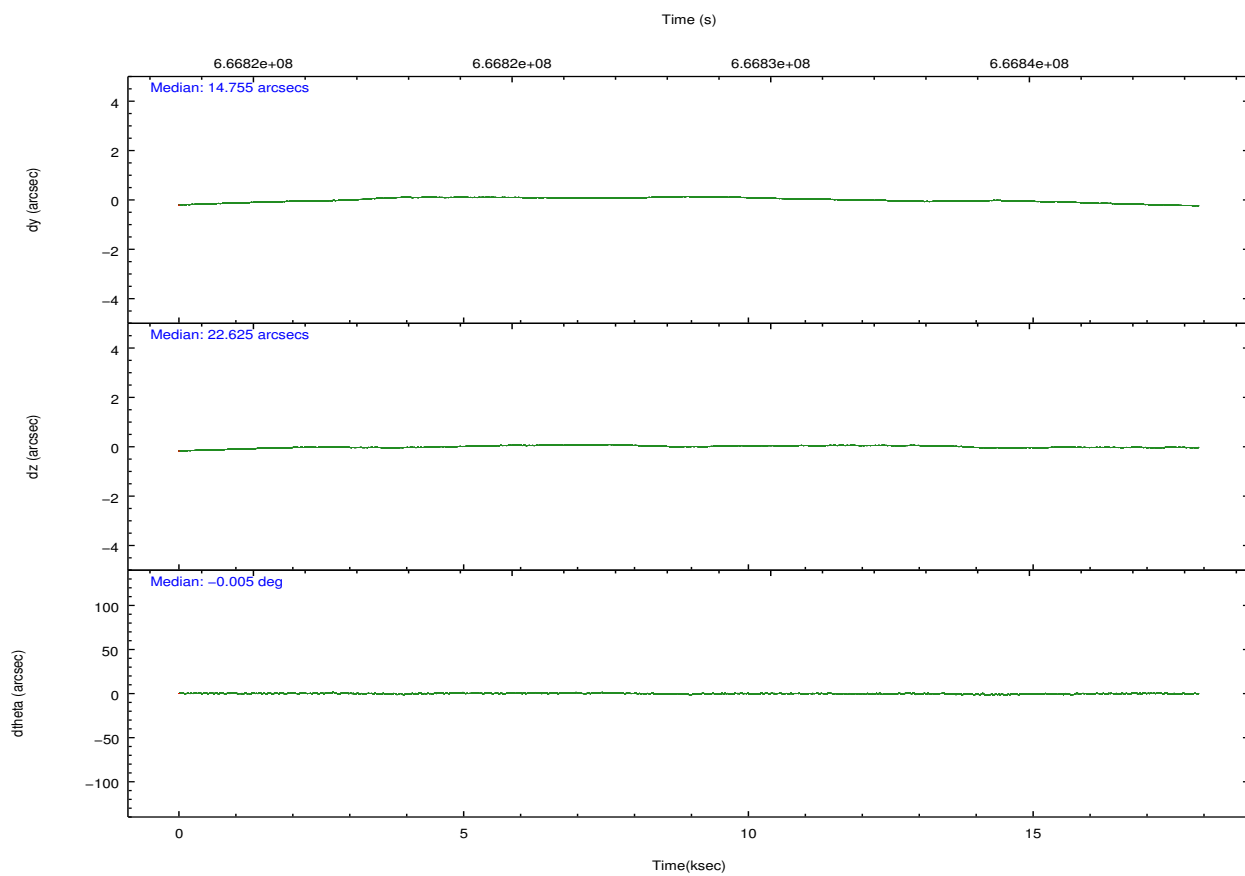
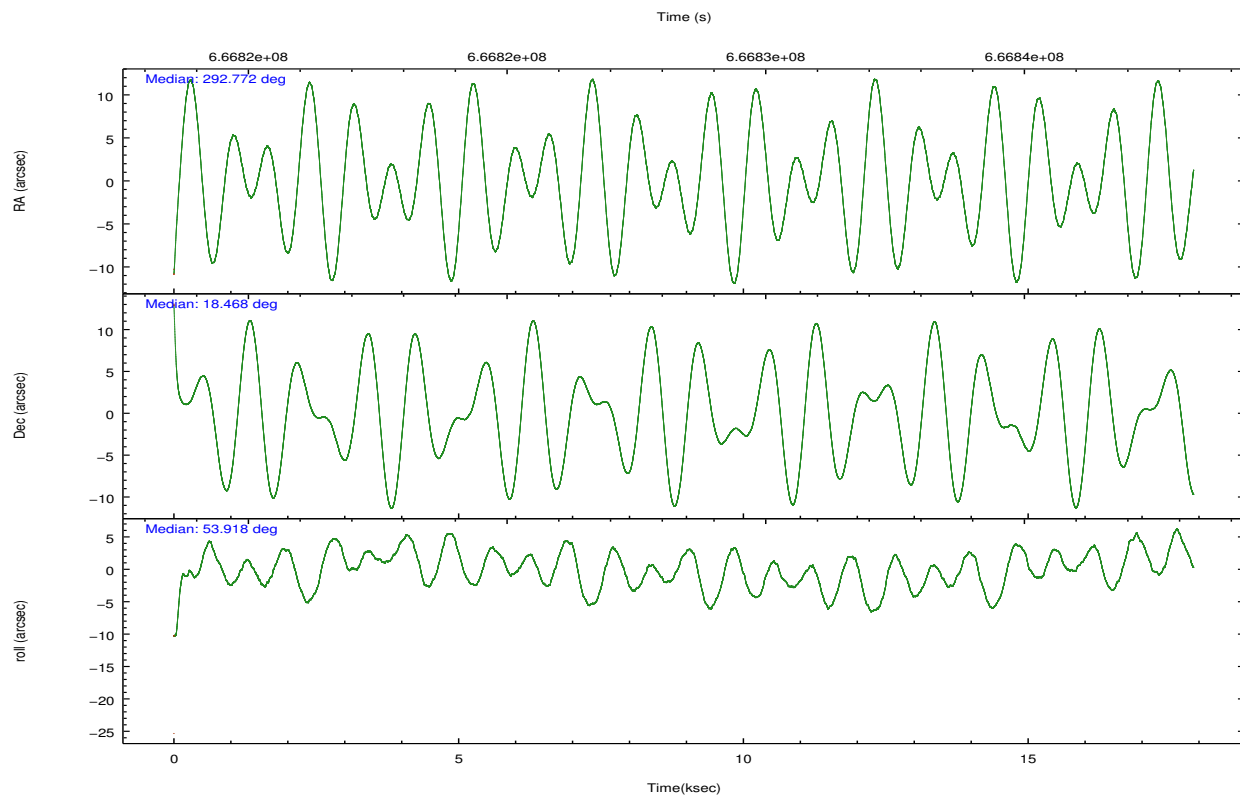
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	13475	5190	6258	15792
	6%	3%	3%	8%
grade 1 events	2190	69	239	178
	0%	0%	0%	0%
grade 2 events	36568	3668	16222	12206
	16%	2%	9%	6%
grade 3 events	3309	1529	5864	5515
	1%	1%	3%	3%
grade 4 events	3334	1532	5882	5107
	1%	1%	3%	2%
grade 5 events	15469	6335	17172	9604
	6%	4%	10%	5%
grade 6 events	56207	3616	40702	13226
	25%	2%	23%	7%
grade 7 events	93859	114595	78590	117348
	41%	83%	45%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	292.768883	292.7715779579114	CCD I2 on	O1	N
[deg] Pointing Dec	18.441360	18.46869433417067	CCD I3 on	O2	N
[deg] Pointing Roll	53.755137	53.9109024375724	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
[s] Observation start time (MET)	666819881.184000	666818742.52135	CCD S5 on	N	N
Observation start date	2019-02-17T19:43:32	2019-02-17T19:25:42	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	666837381.184000	666838399.46003	On-chip summing requested	N	N
Observation end date	2019-02-18T00:35:12	2019-02-18T00:53:19	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



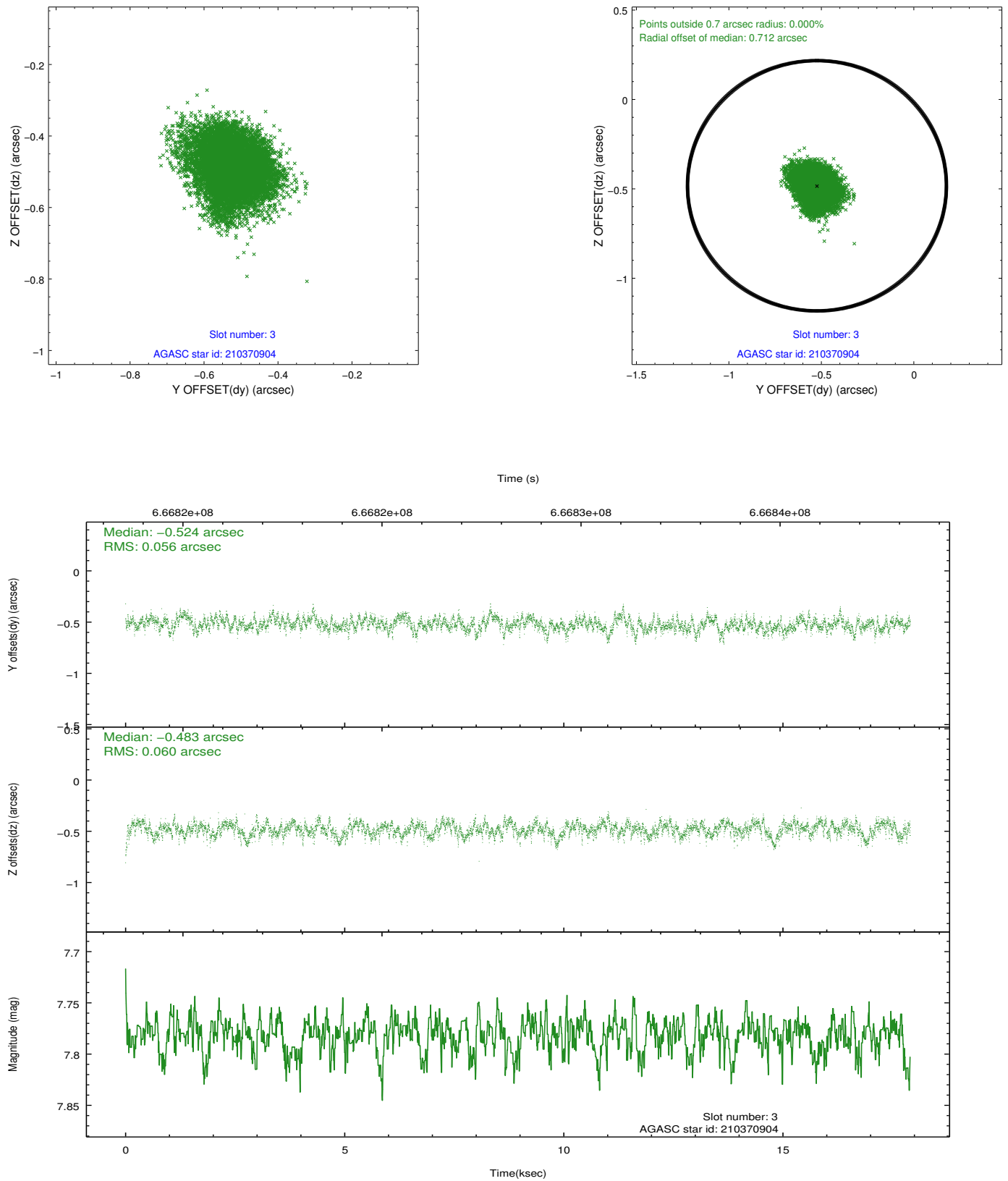


Slot Statistics

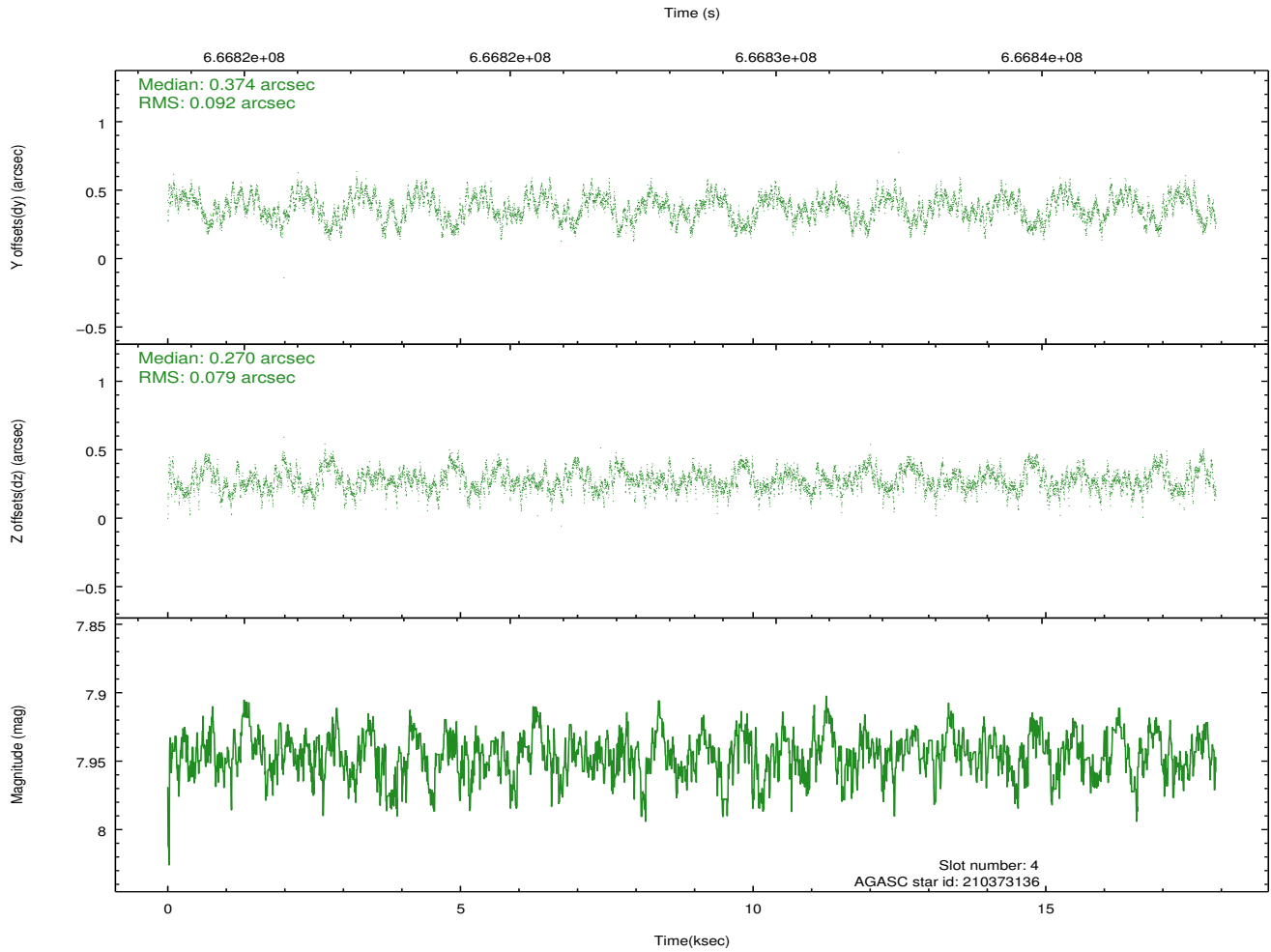
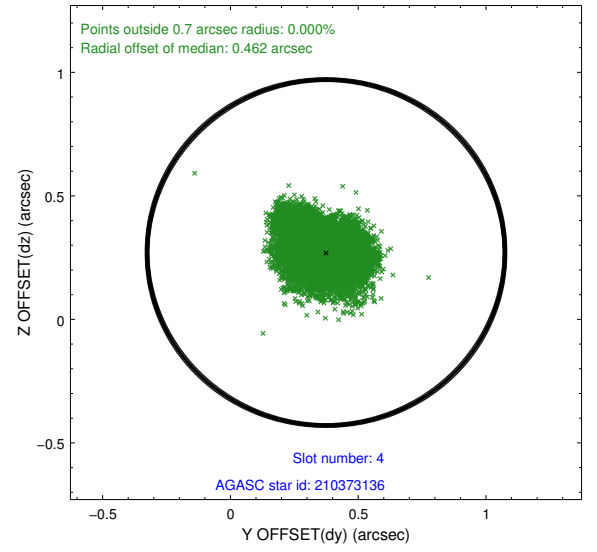
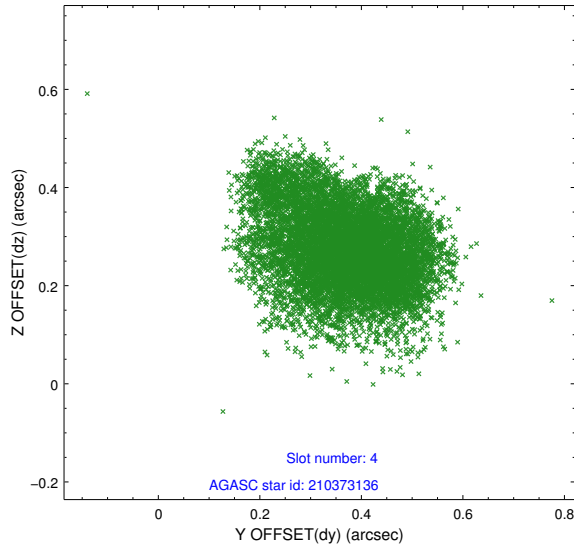
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.01	4368	1.000	-0.333	-0.204	0.009	0.015	0.000000	0.000000	-768.02	-1744
1	FID		ACIS-S-4	7.12	4367	1.000	0.734	0.215	0.008	0.014	0.000000	0.000000	2146.19	164
2	FID		ACIS-S-5	7.11	4368	1.000	-0.432	-0.003	0.011	0.018	0.000000	0.000000	-1820.70	157
3	GUIDE	used	210370904	7.78	8734	1.000	-0.524	-0.483	0.087	0.142	292.563039	18.704932	350.16	1127
4	GUIDE	used	210373136	7.95	8735	1.000	0.374	0.270	0.131	0.207	292.893985	17.958185	-1148.33	-1372
5	GUIDE	used	210375784	7.15	8732	1.000	-0.023	0.157	0.115	0.191	292.707024	18.250669	-678.22	-234
6	GUIDE	used	210376496	8.65	8728	1.000	-0.043	-0.058	0.152	0.270	293.385337	18.705566	2013.25	-1130
7	GUIDE	used	210371408	8.78	8732	1.000	0.221	0.110	0.139	0.229	292.250982	17.990307	-2355.05	472

2.4 Star Slots

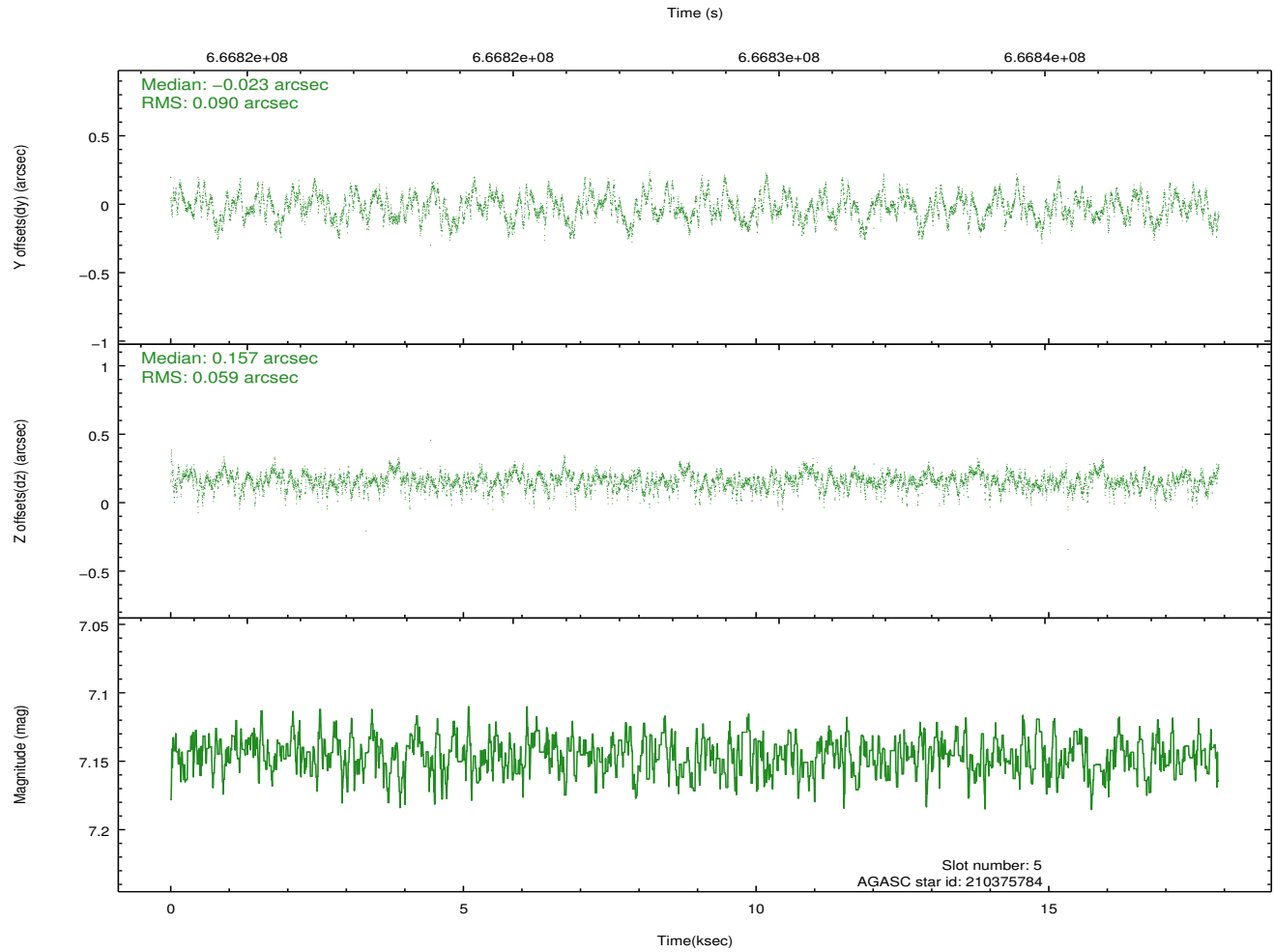
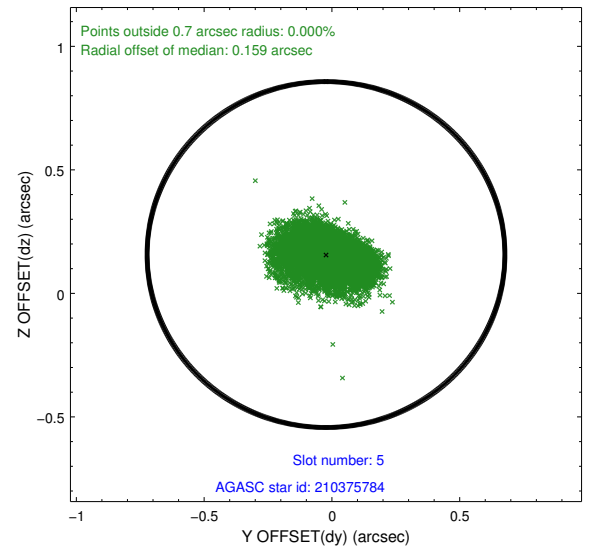
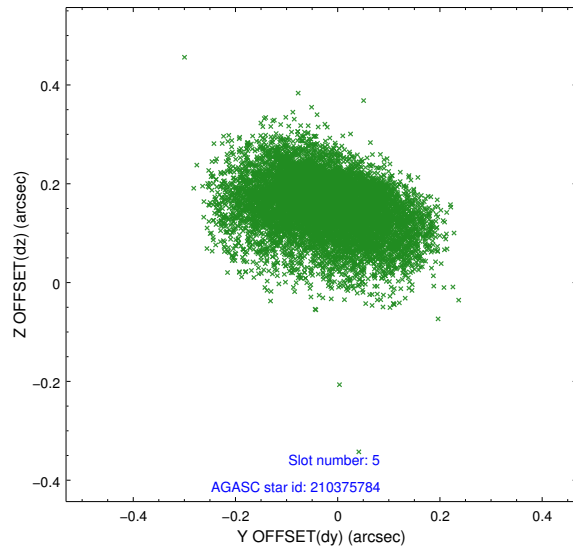
2.4.1 Slot 3



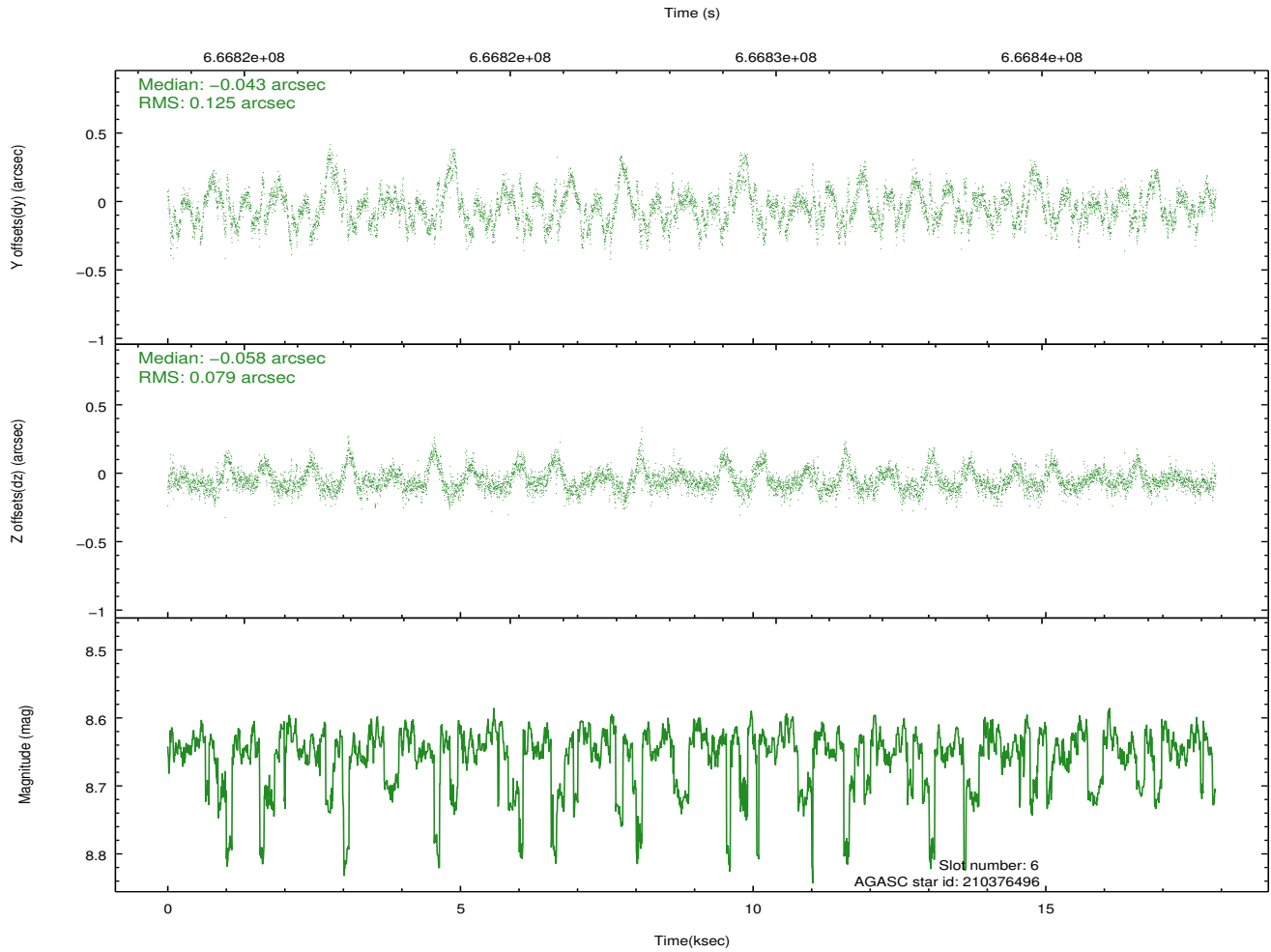
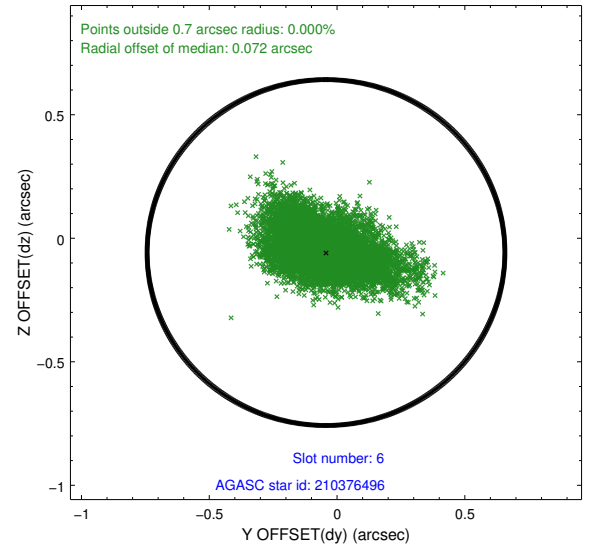
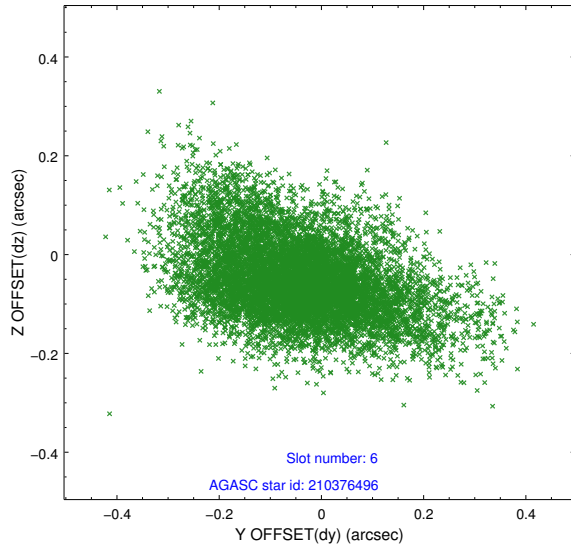
2.4.2 Slot 4



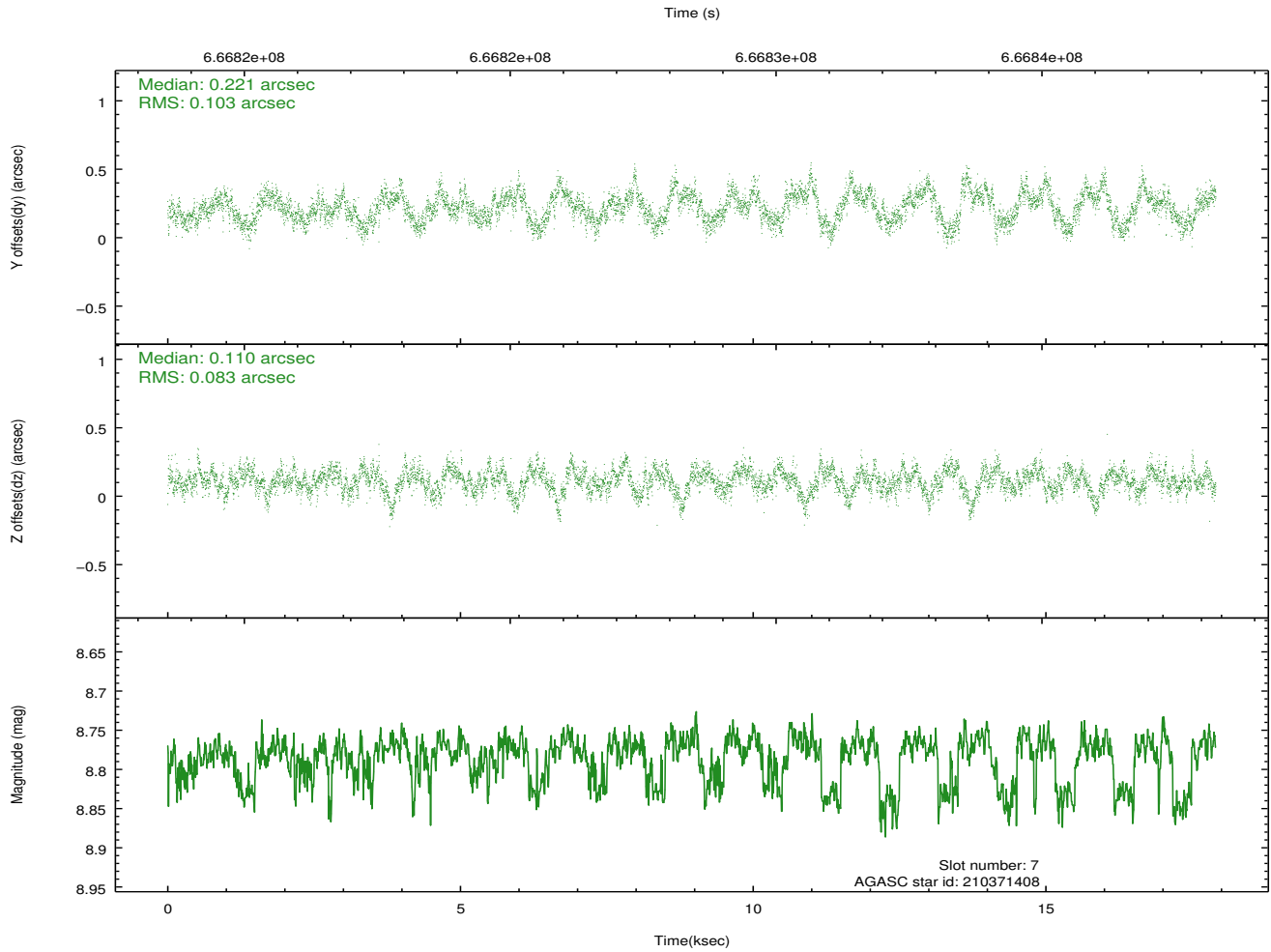
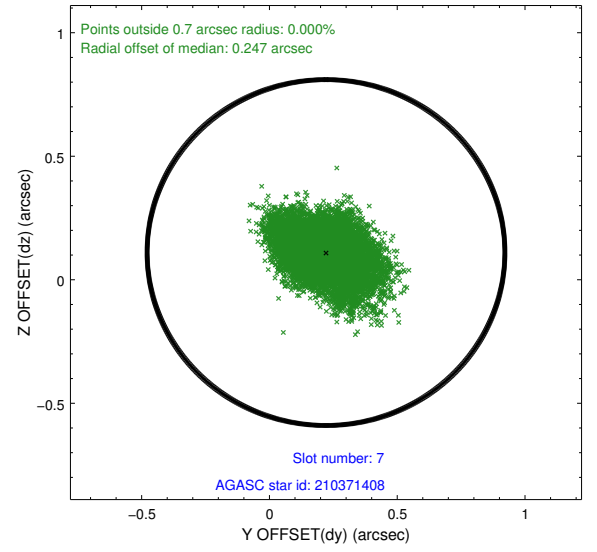
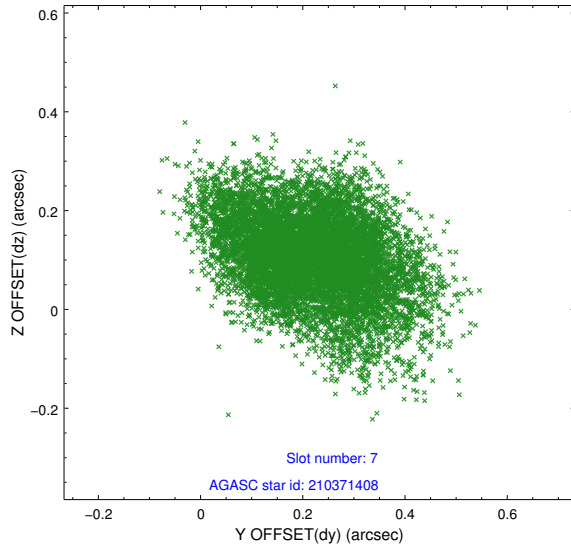
2.4.3 Slot 5



2.4.4 Slot 6

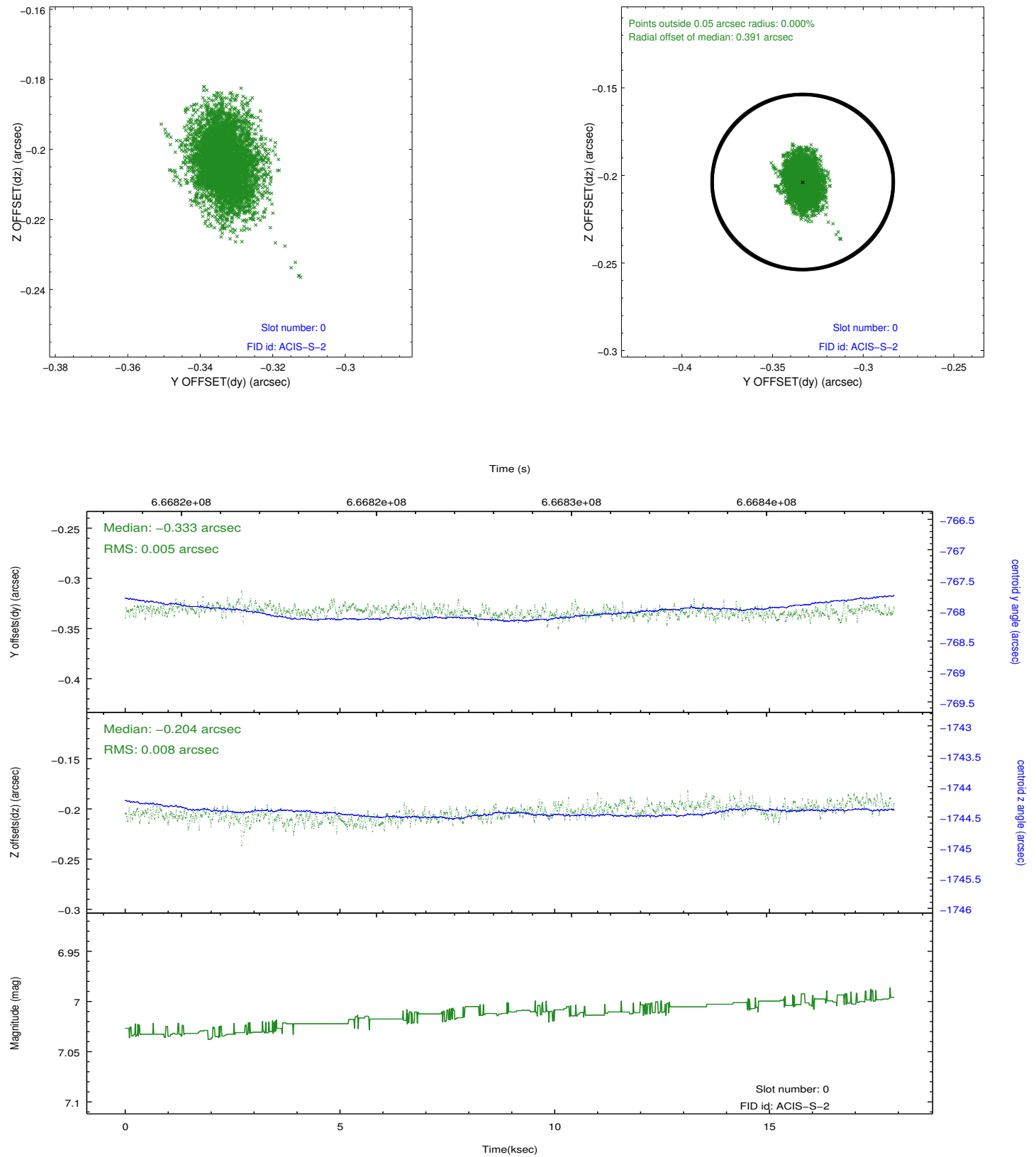


2.4.5 Slot 7

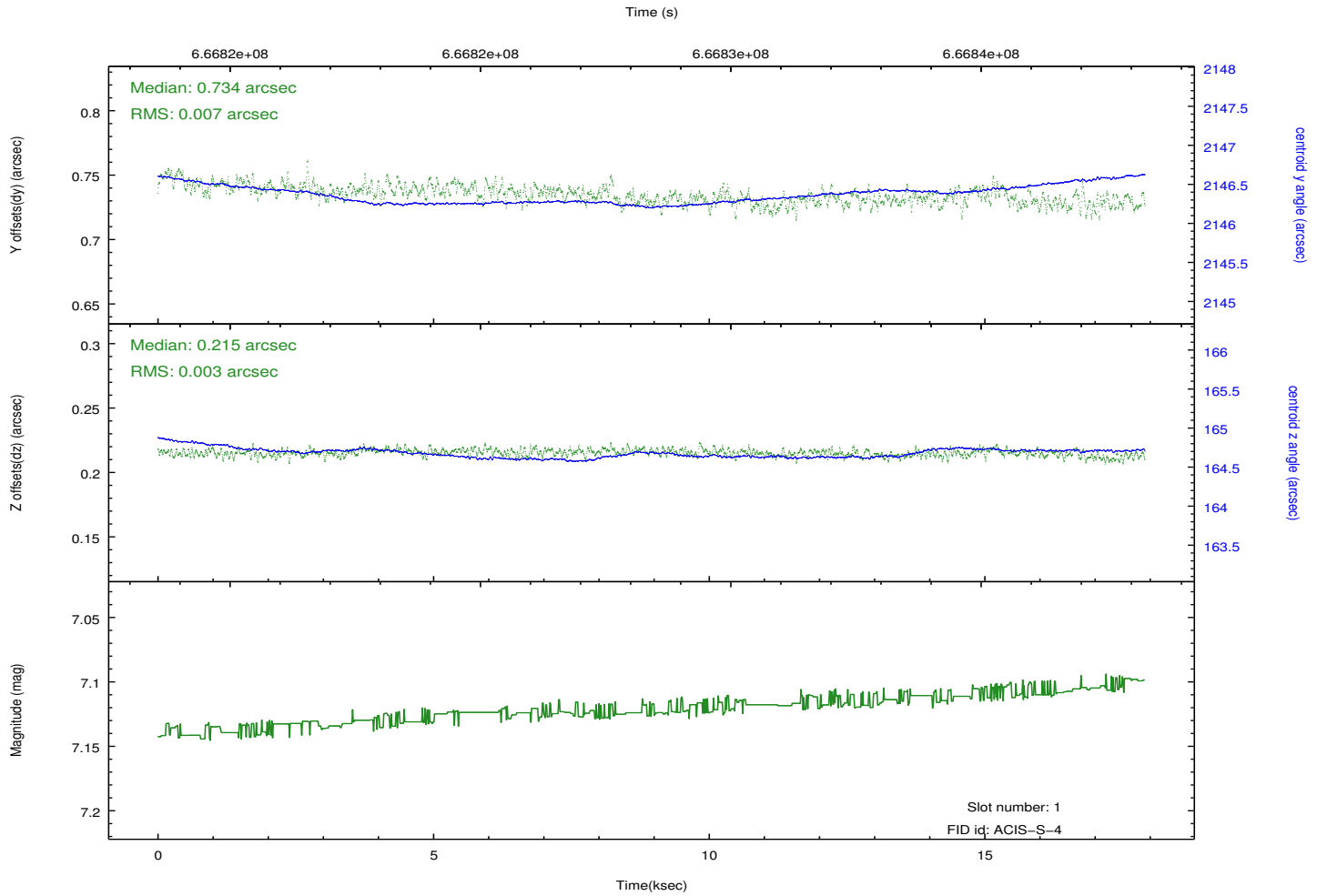
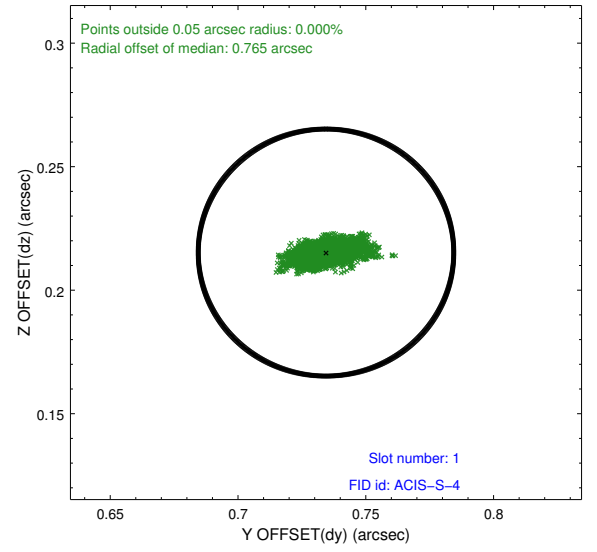
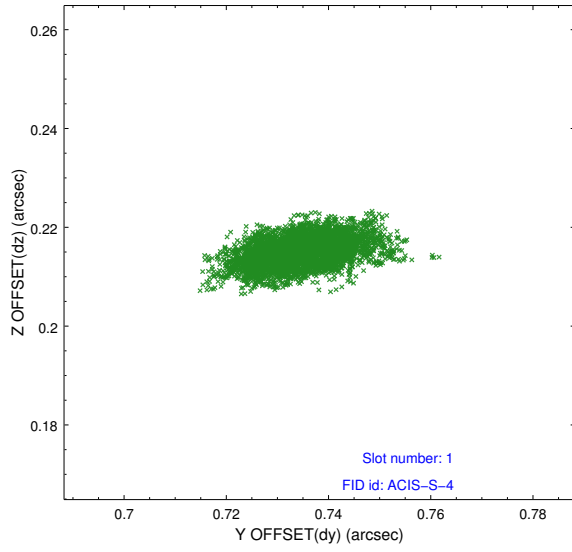


2.5 FID Slots

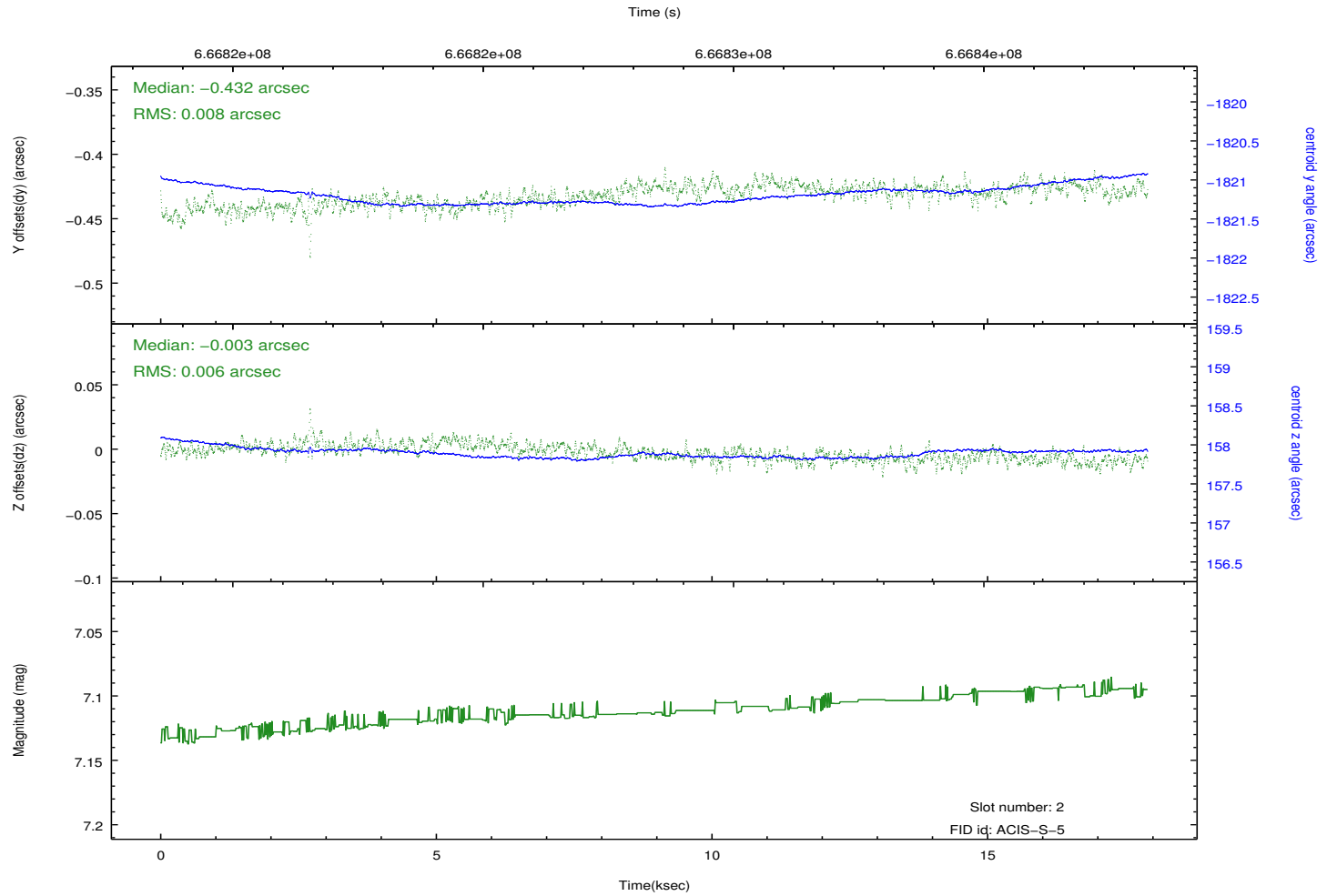
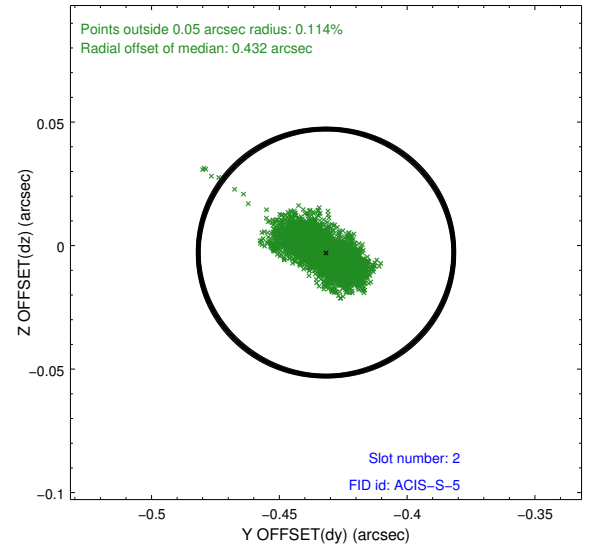
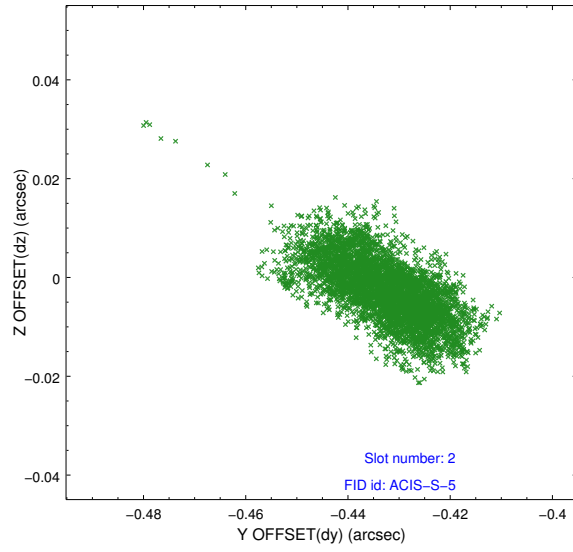
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.02.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	17.563828108191

A.2 Comments

Two optional chips were dropped.