

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21690 - L2 Version 1
Chandra X-Ray Center

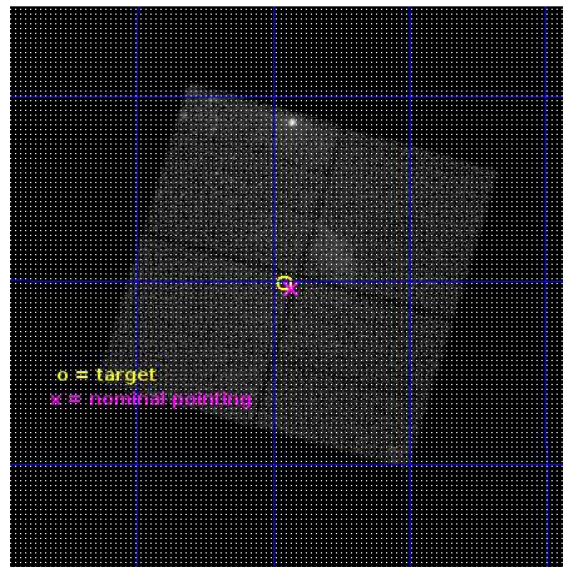
L2 Processing Date : Jul 25 2019

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1 Front

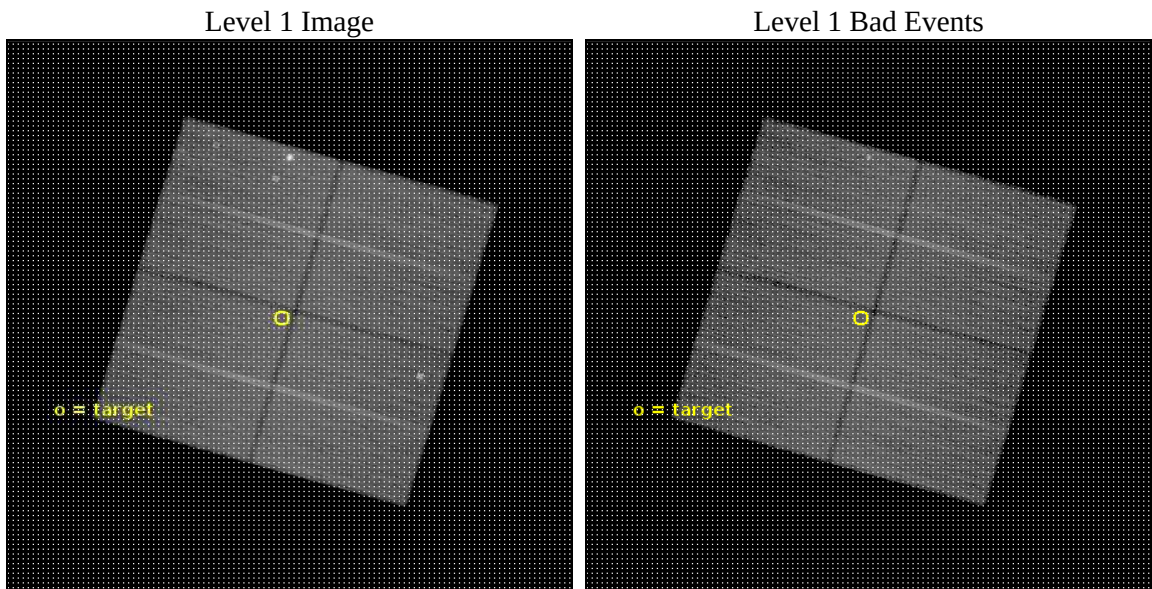
seq_num	503144	Sequence number
obs_id	21690	Observation id
title	X-ray observation of the supernova remnant G54.41+0.03	Proposal ti
observer	Gordon Garmire	Principal investigator
object	G53.41+0.03	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	292.489167	Observer's specified target RA [deg]
dec_targ	18.164722	Observer's specified target Dec [deg]
ra_nom	292.48329599533	Nominal RA [deg]
dec_nom	18.159219141079	Nominal Dec [deg]
roll_nom	196.33455687937	Nominal Roll [deg]
revision	1	Processing version of data
ontime	38563.338984132	Sum of GTIs [s]
livetime	38059.480570387	Livetime [s]
ontime0	38566.356944323	Sum of GTIs [s]
ontime1	38569.538974404	Sum of GTIs [s]
ontime2	38563.297963858	Sum of GTIs [s]
ontime3	38563.338984132	Sum of GTIs [s]
l2events	146791	Number of level 2 events



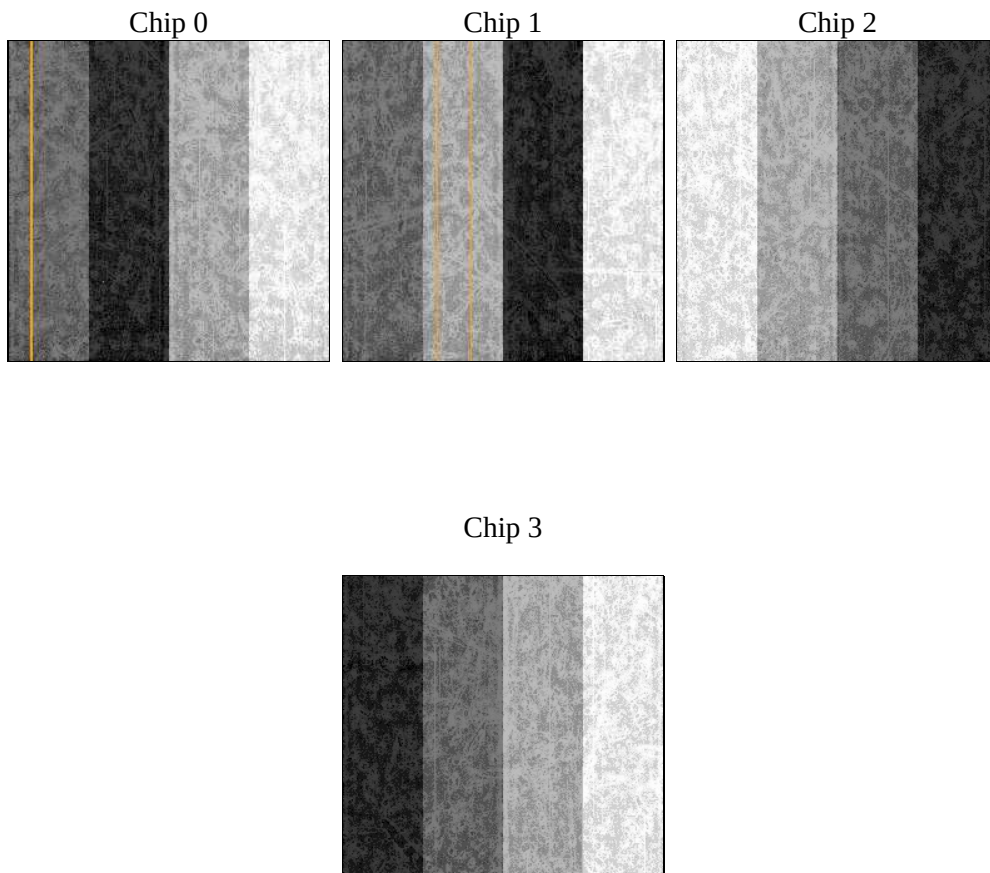
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	38492.875000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	38563.338984132	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	38566.356944323	Sum of GTIs [s]
date	2019-07-25T07:53:41	Date and time of file creation	ontime1	38569.538974404	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	38563.297963858	Sum of GTIs [s]
			ontime3	38563.338984132	Sum of GTIs [s]
			l1events	1218558	Number of level 1 events

2.1.4 Events

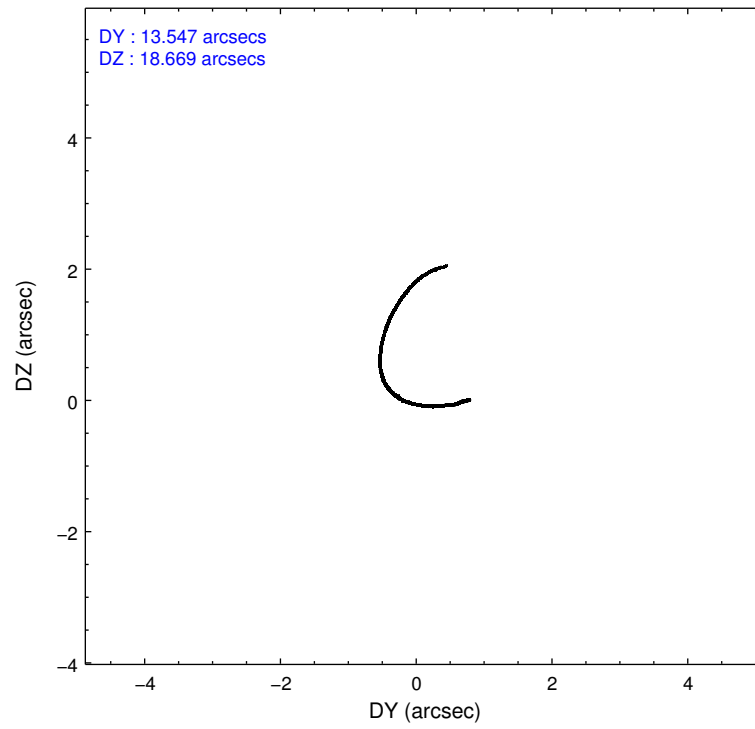
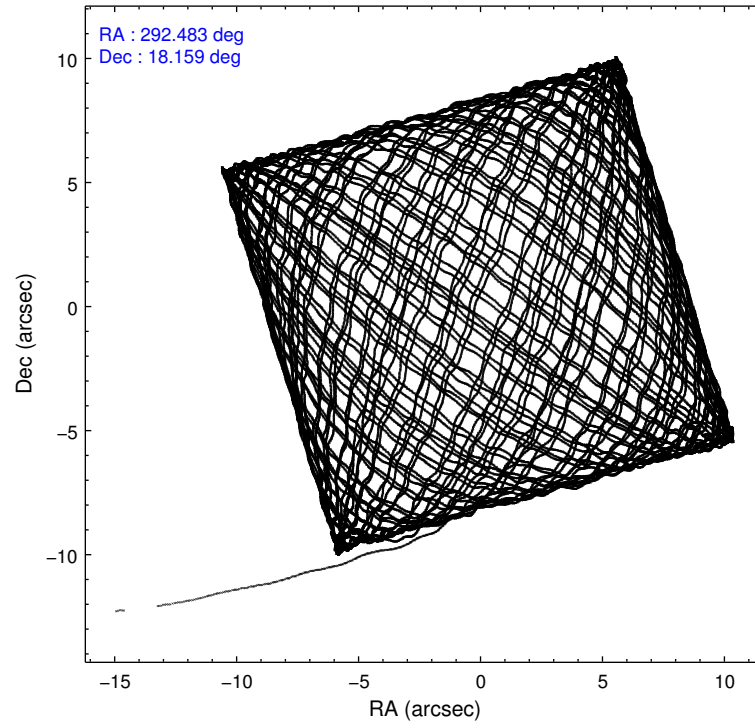
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	286924	322743	312598	296293
rejected events	249429	252795	275324	264737
rejected %	86%	78%	88%	89%

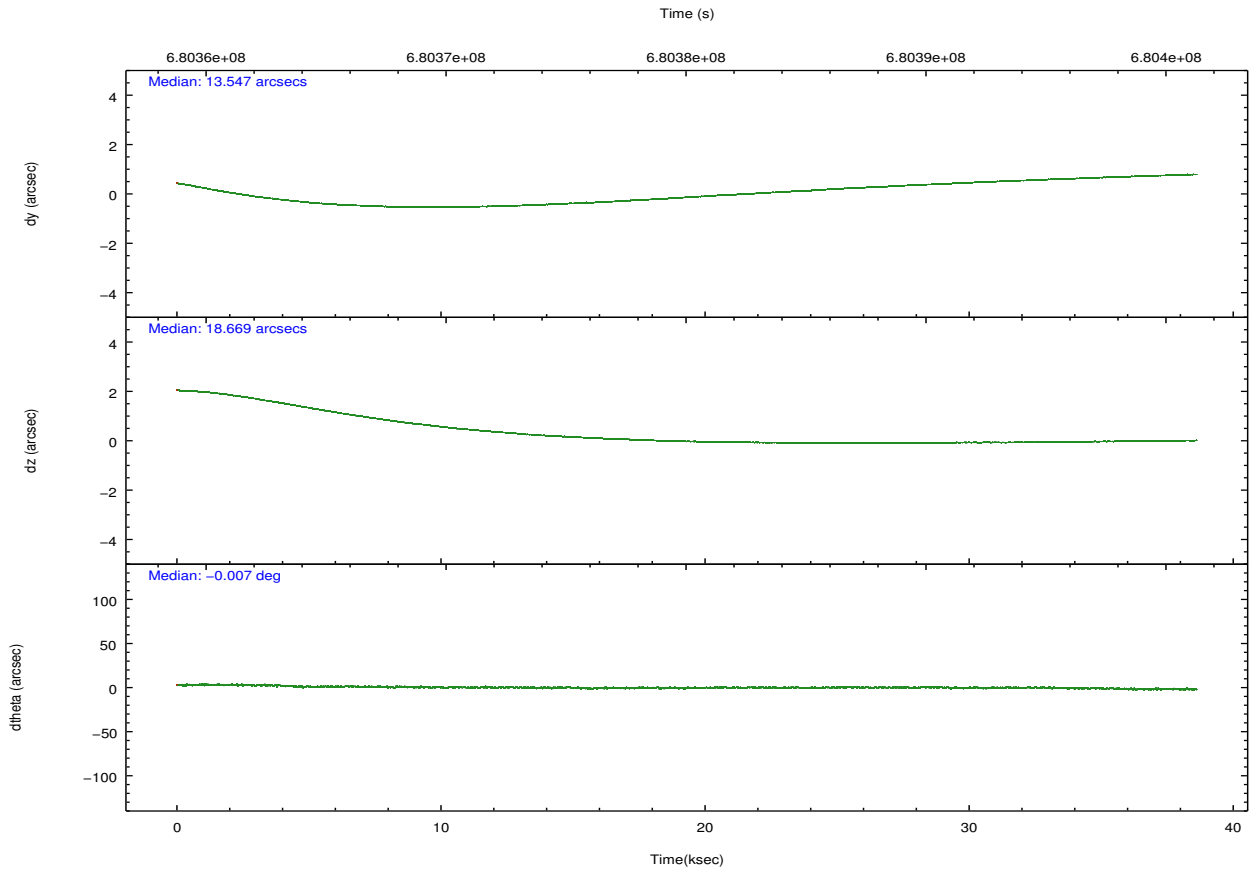
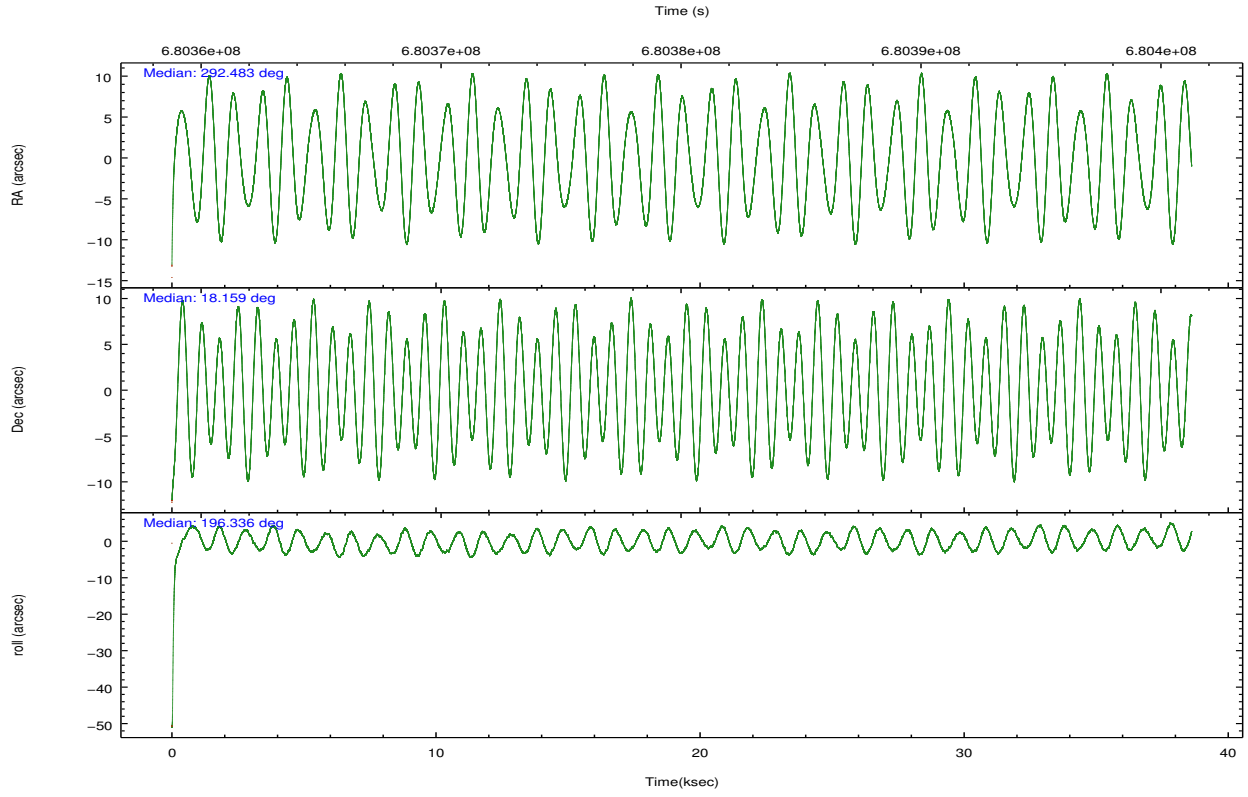
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	14389	32486	16526	11312
	5%	10%	5%	3%
grade 1 events	184	547	230	166
	0%	0%	0%	0%
grade 2 events	9076	16946	7874	6884
	3%	5%	2%	2%
grade 3 events	3470	4465	3203	3160
	1%	1%	1%	1%
grade 4 events	3164	4429	3244	3228
	1%	1%	1%	1%
grade 5 events	12602	13082	11746	13816
	4%	4%	3%	4%
grade 6 events	7398	11638	6433	6977
	2%	3%	2%	2%
grade 7 events	236641	239150	263342	250750
	82%	74%	84%	84%

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	292.503262	292.4832959953304	Subarray requested	NONE	NONE
[deg] Pointing Dec	18.179250	18.15921914107893	Alternating exposures requested	N	N
[deg] Pointing Roll	196.119665	196.3345568793745	[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	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	680360832.184000	680359543.75763			
Observation start date	2019-07-24T13:06:03	2019-07-24T12:45:43			
[s] Observation end time (MET)	680399325.184000	680399832.92255			
Observation end date	2019-07-24T23:47:36	2019-07-24T23:57:12			
Read mode	TIMED	TIMED			

2.3 Aspect



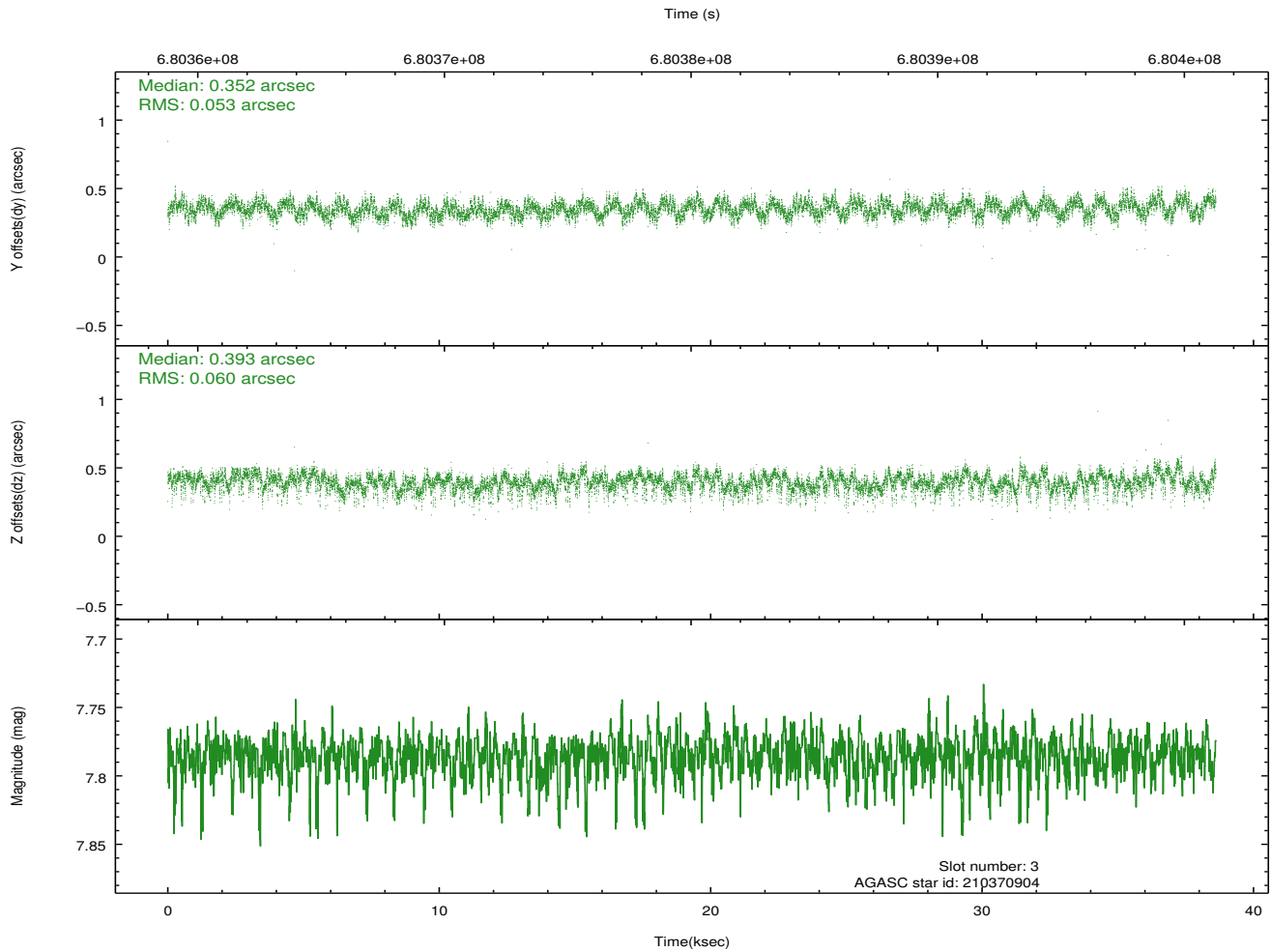
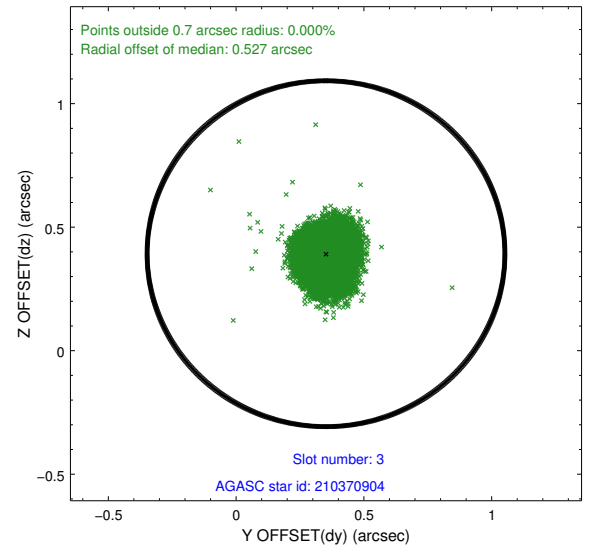
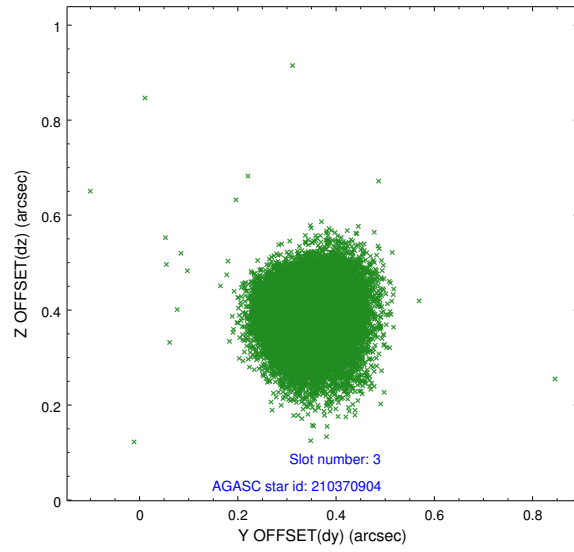


Slot Statistics

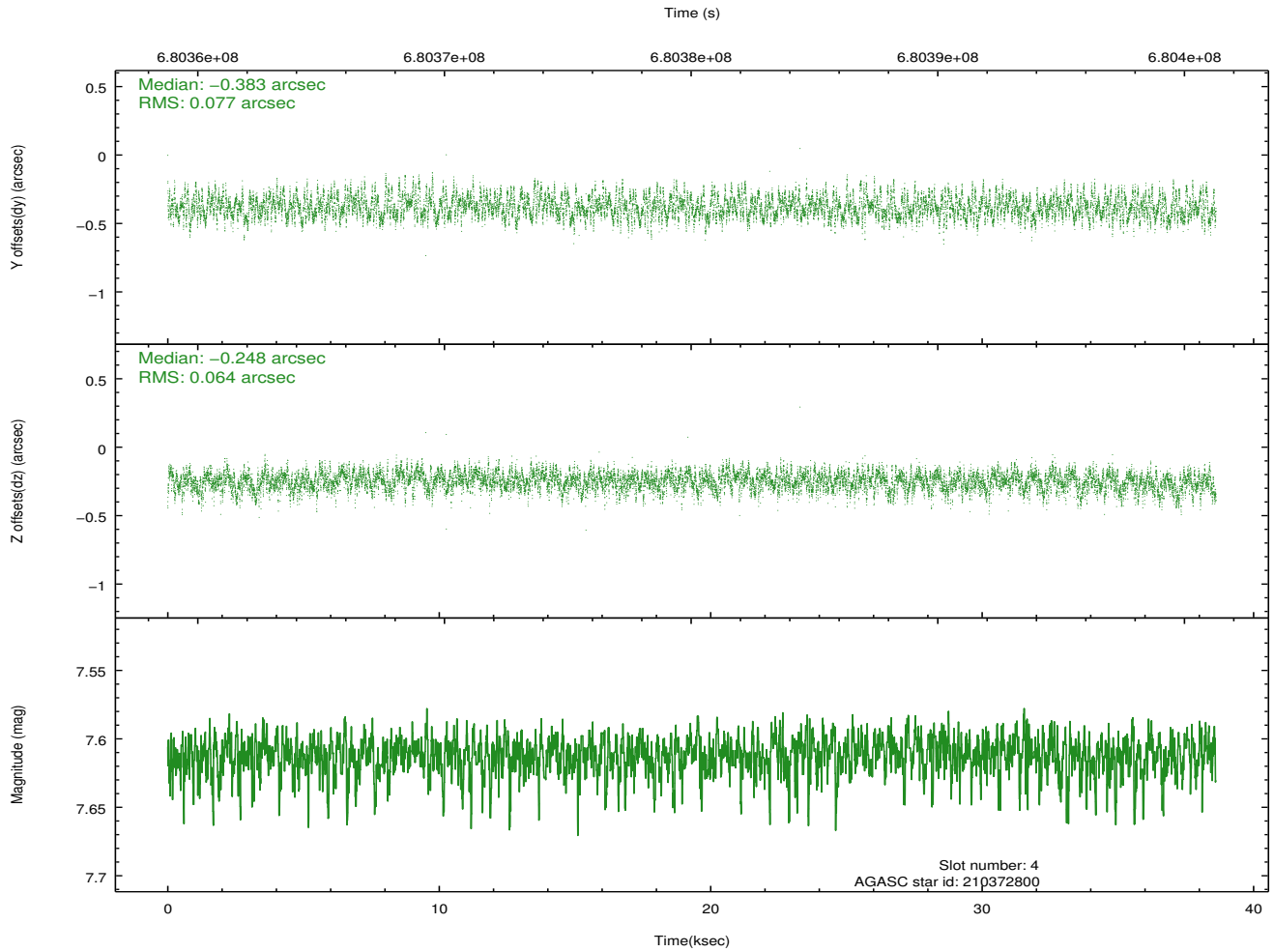
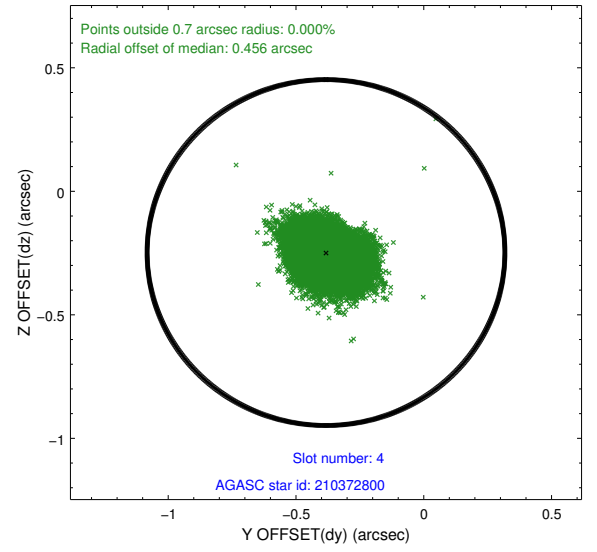
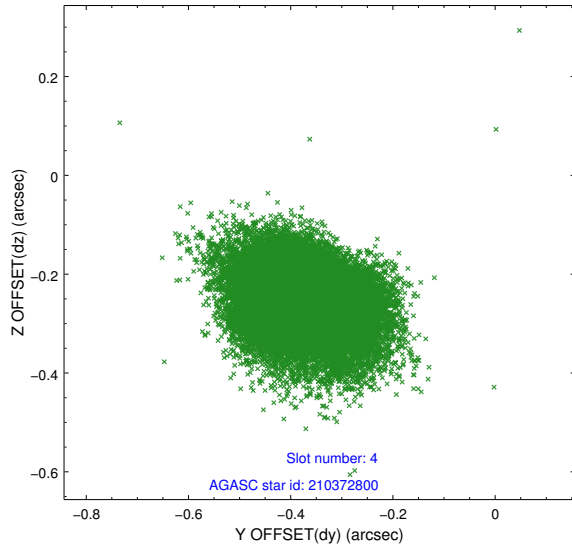
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.20	9419	1.000	0.088	-0.054	0.016	0.059	0.000000	0.000000	926.08	-842
1	FID		ACIS-I-5	7.20	9416	1.000	-0.470	0.013	0.016	0.031	0.000000	0.000000	-1822.75	1054
2	FID		ACIS-I-6	7.21	9418	1.000	0.289	0.113	0.020	0.046	0.000000	0.000000	391.57	1699
3	GUIDE	used	210370904	7.79	18833	1.000	0.352	0.393	0.085	0.135	292.563039	18.704932	-719.91	-1760
4	GUIDE	used	210372800	7.61	18830	1.000	-0.383	-0.248	0.107	0.171	292.605285	17.695257	147.57	1770
5	GUIDE	used	210373136	7.96	18836	1.000	0.056	-0.033	0.099	0.163	292.893985	17.958185	-1064.69	1134
6	GUIDE	used	210375176	7.17	18832	1.000	-0.162	-0.428	0.091	0.151	292.026286	17.846693	1901.72	694
7	GUIDE	used	210375784	7.15	18832	1.000	0.129	0.319	0.112	0.179	292.707024	18.250669	-740.12	-53

2.4 Star Slots

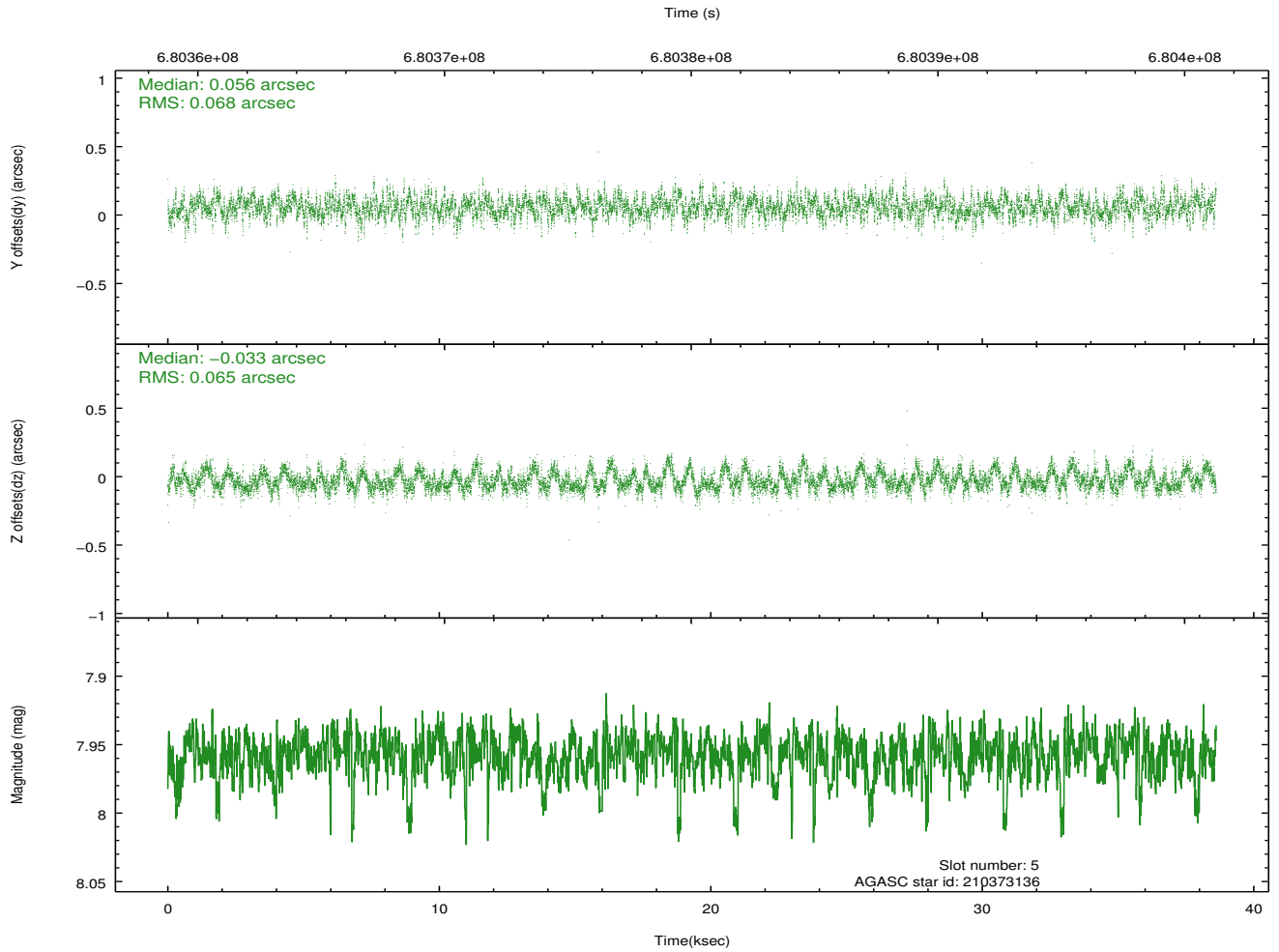
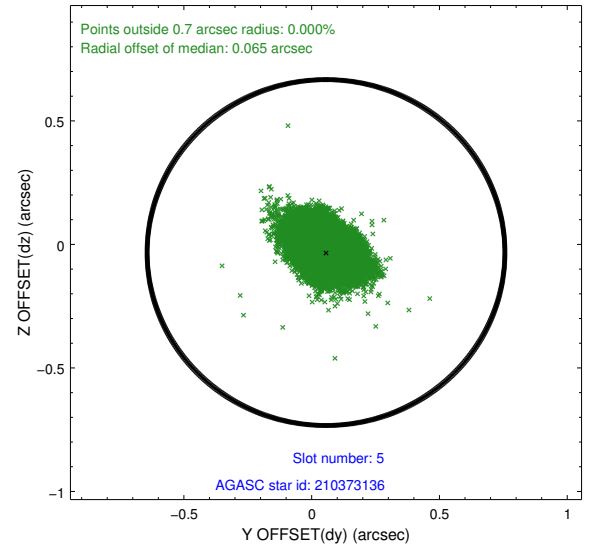
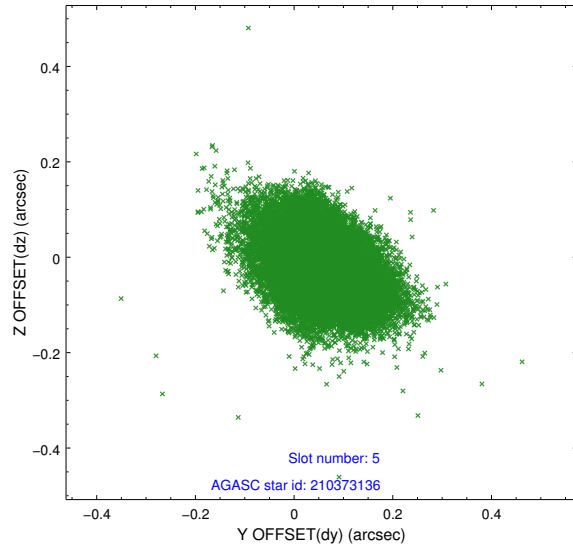
2.4.1 Slot 3



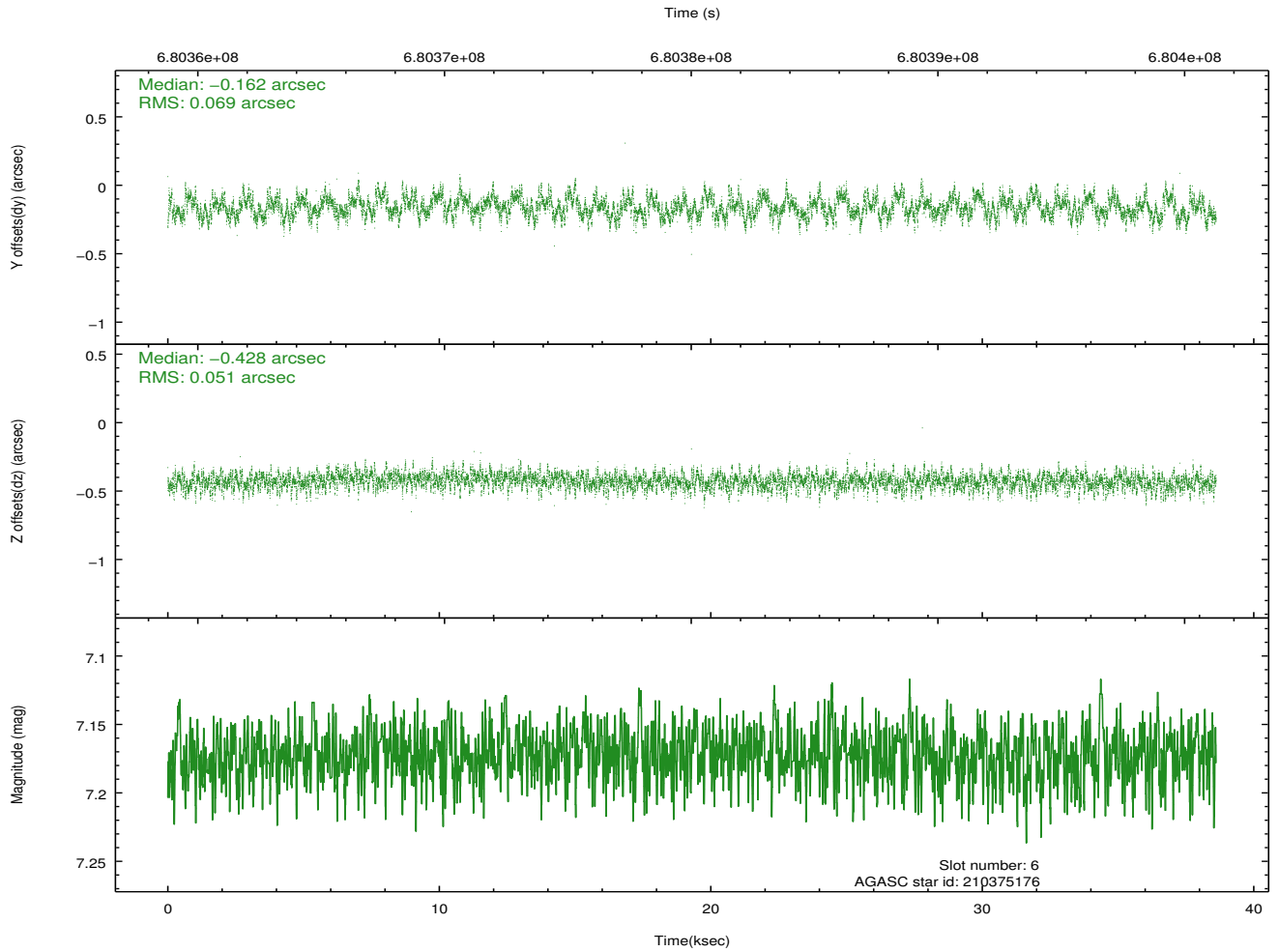
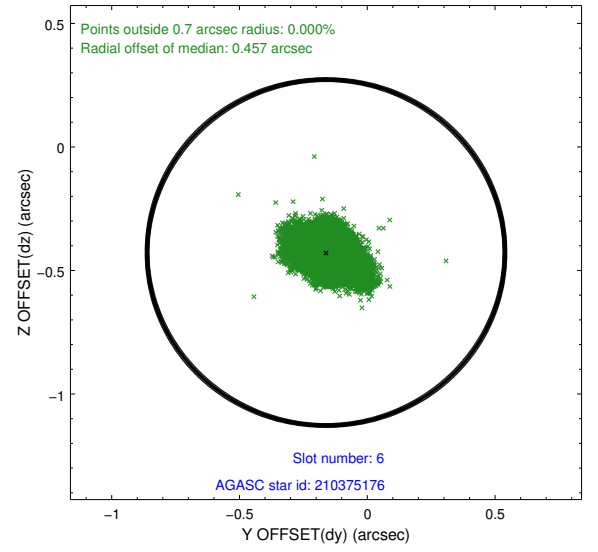
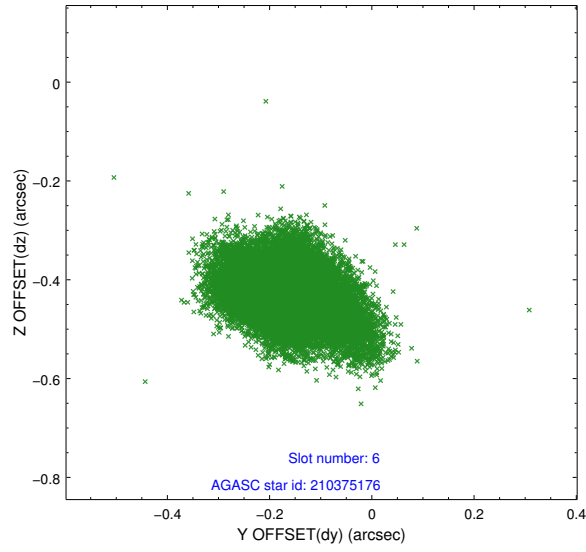
2.4.2 Slot 4



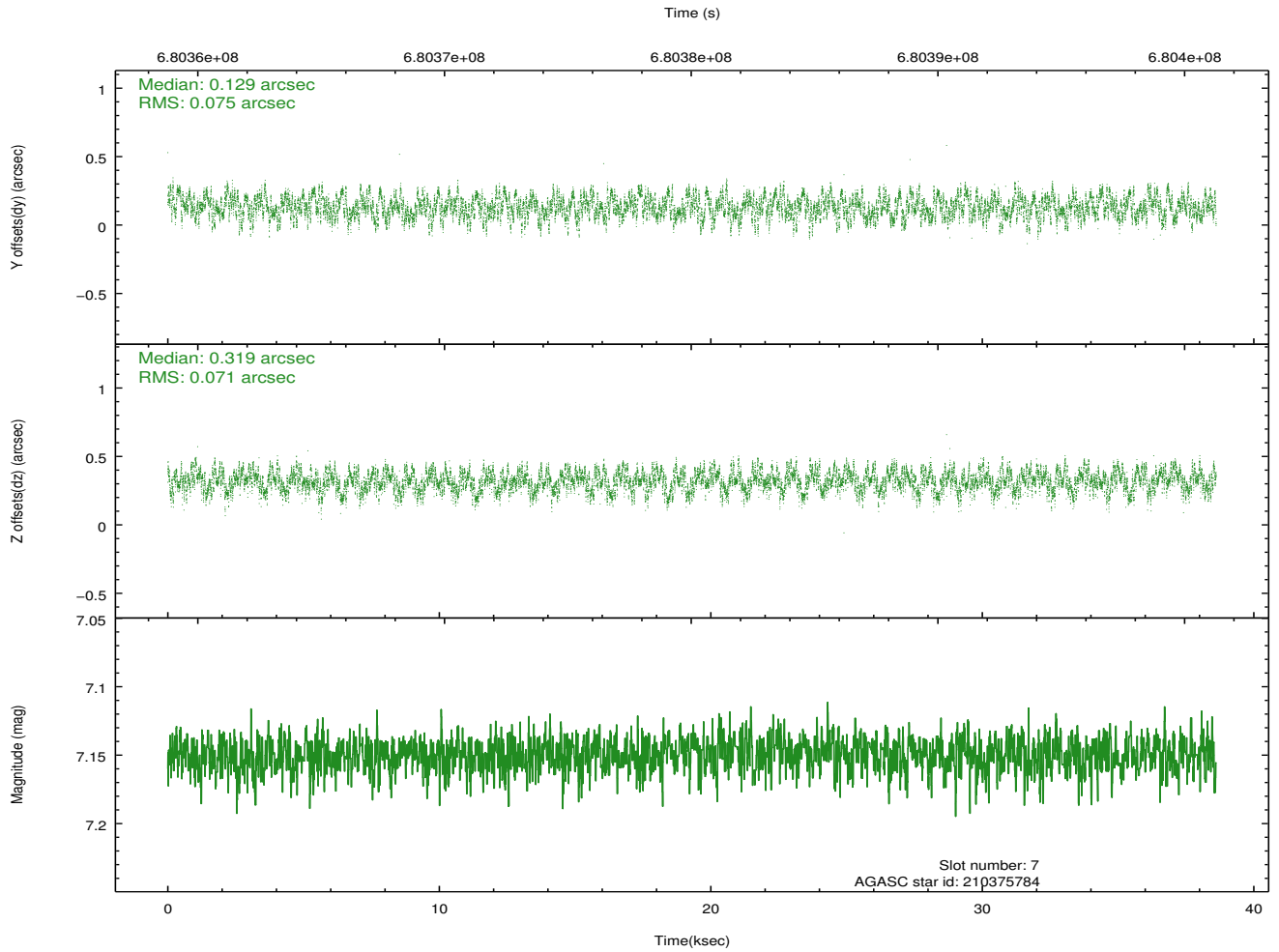
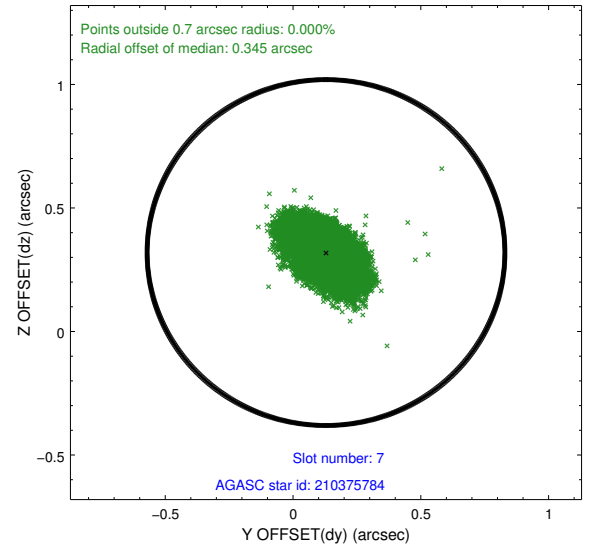
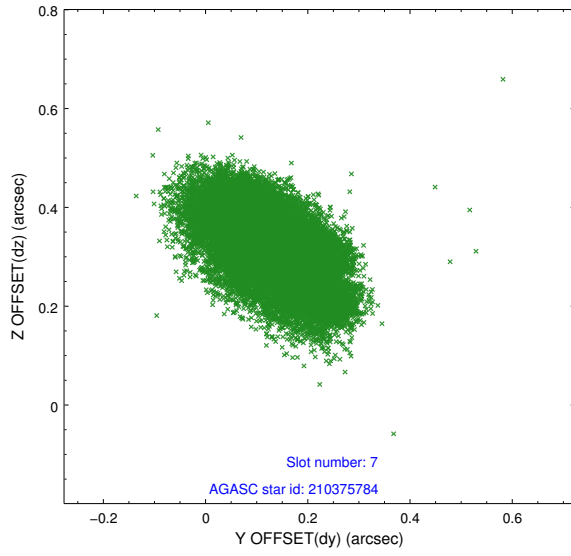
2.4.3 Slot 5



2.4.4 Slot 6

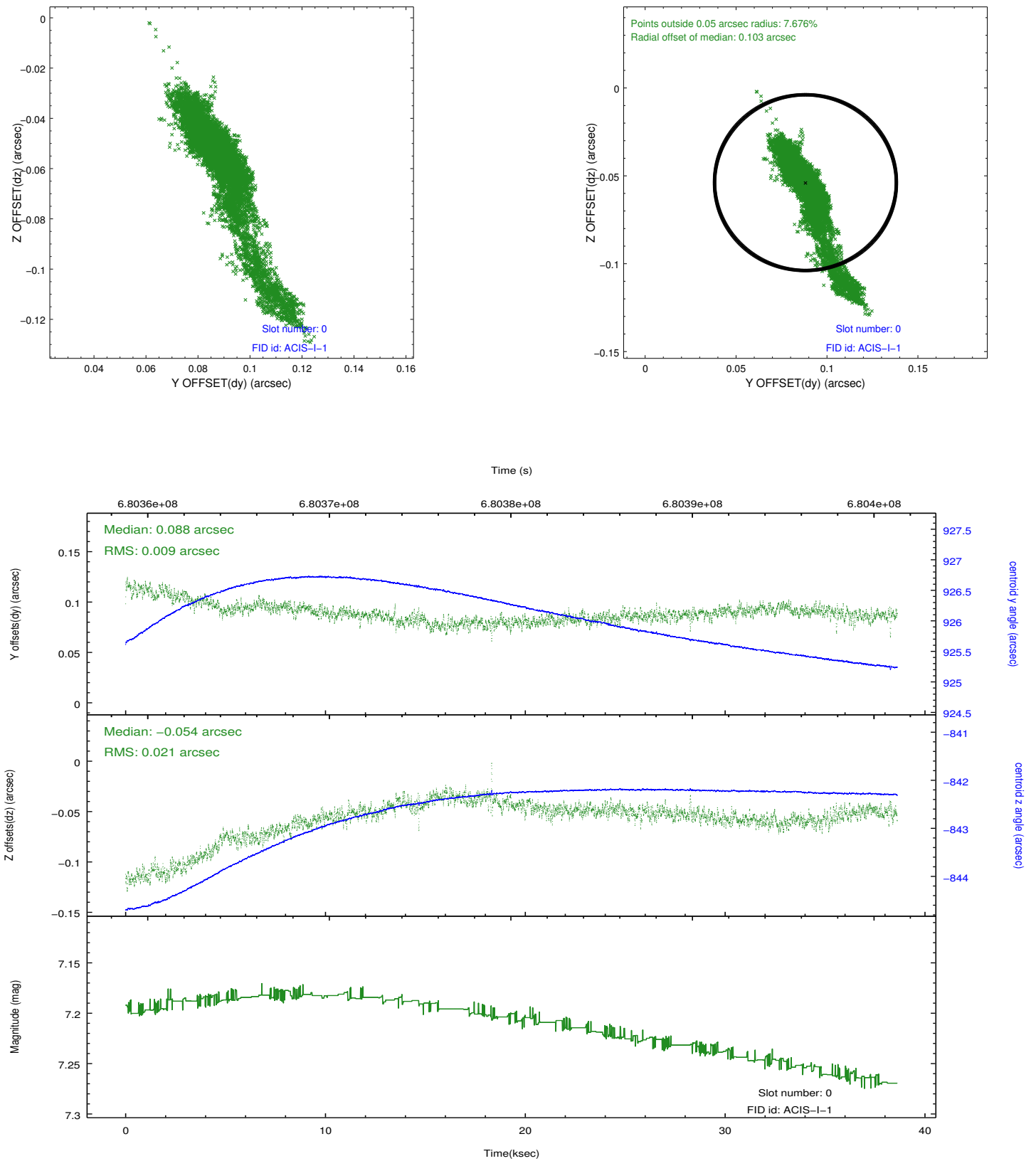


2.4.5 Slot 7

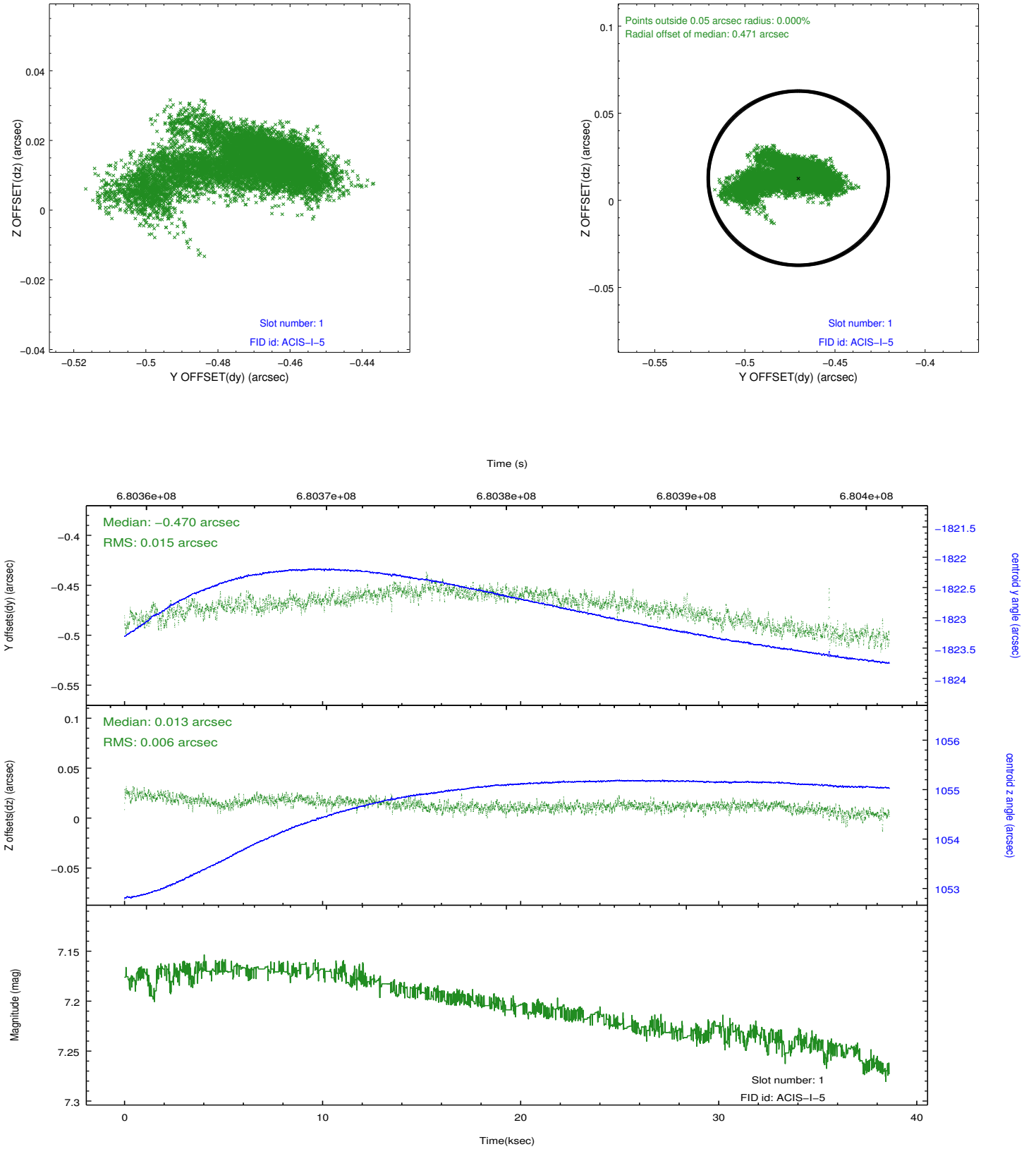


2.5 FID Slots

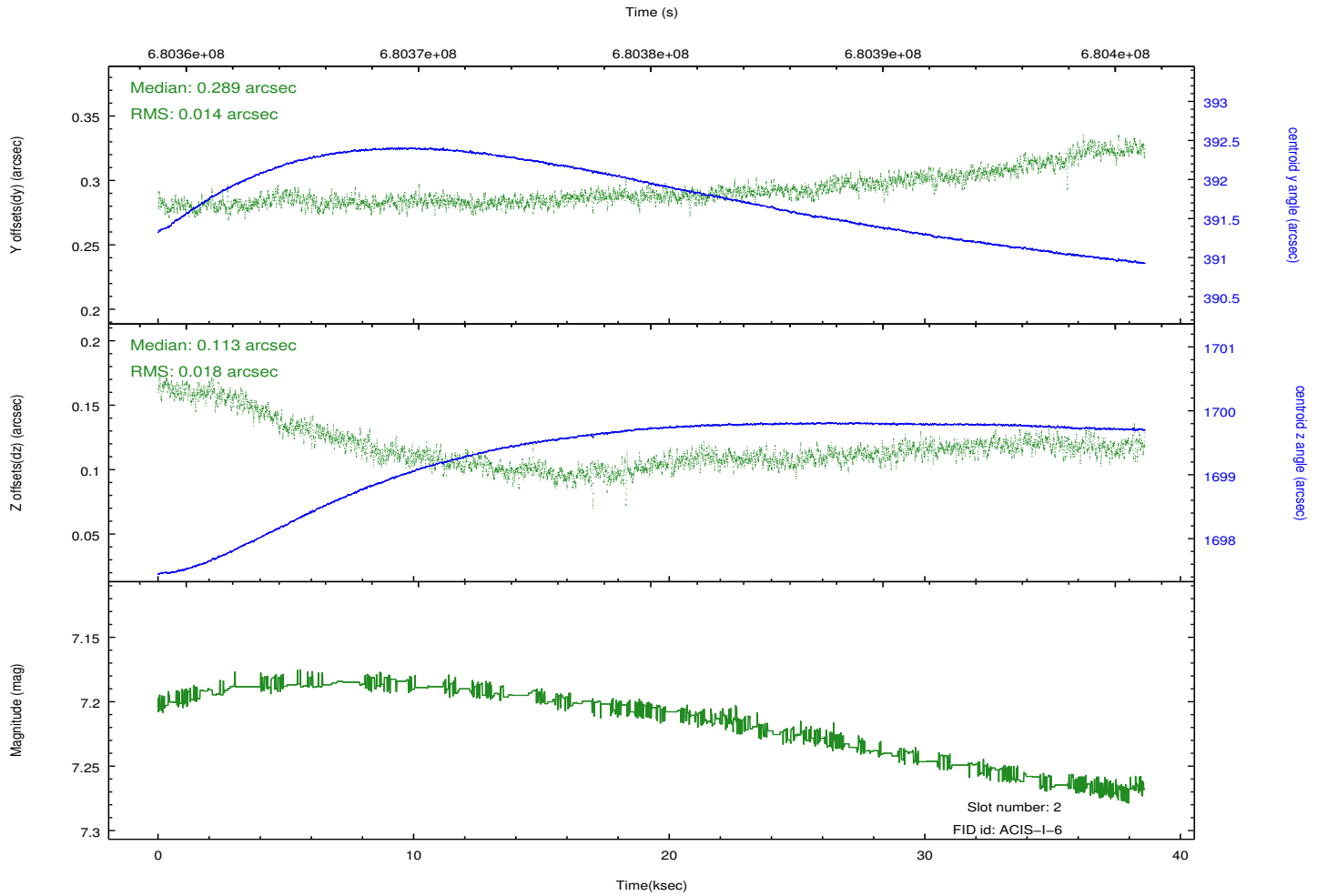
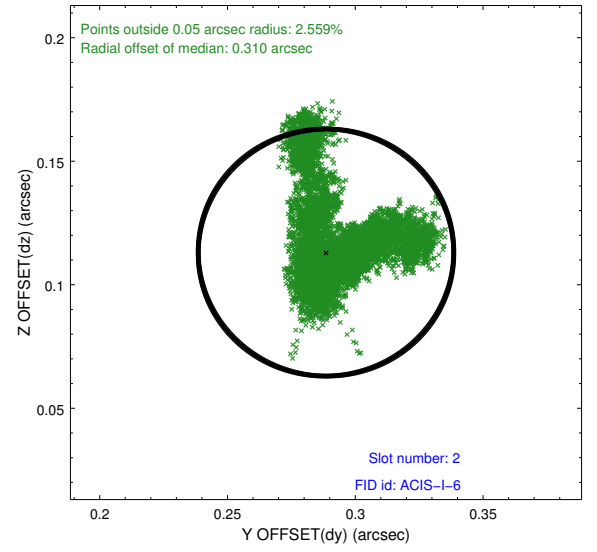
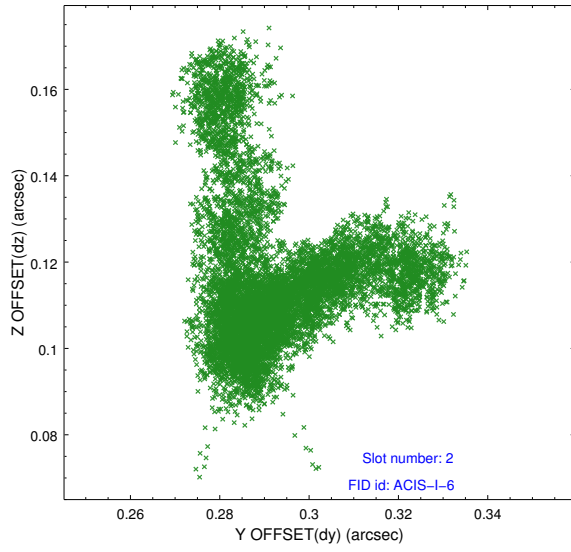
2.5.1 Slot 0



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)	2019.07.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.563338984132

A.2 Comments