

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20466 - L2 Version 2
Chandra X-Ray Center

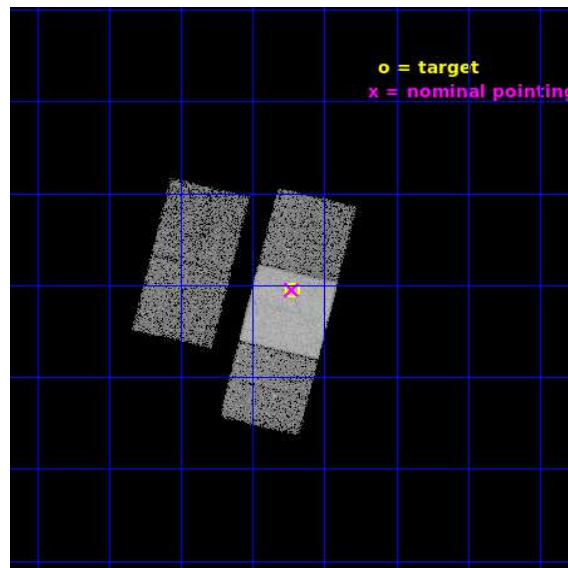
L2 Processing Date : Oct 25 2020

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1 Front

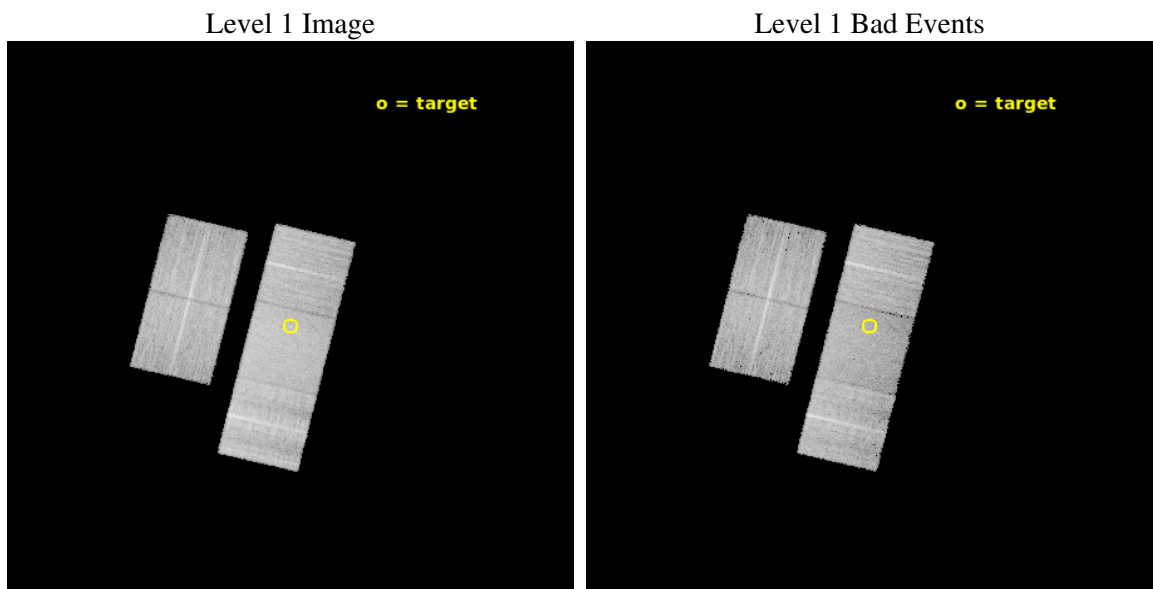
seq_num	703569	Sequence number
obs_id	20466	Observation id
title	Understanding AGN Accretion State Transitions with a Statistical Sample of Changing-Look Quasars	Proposal title
observer	John Ruan	Principal investigator
object	SDSS J214613.30+000930.8	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	326.555417	Observer's specified target RA [deg]
dec_targ	0.158583	Observer's specified target Dec [deg]
ra_nom	326.55657163577	Nominal RA [deg]
dec_nom	0.15874810115061	Nominal Dec [deg]
roll_nom	103.6368492943	Nominal Roll [deg]
revision	2	Processing version of data
ontime	12055.90009284	Sum of GTIs [s]
livetime	11898.380882703	Livetime [s]
ontime2	12055.90009284	Sum of GTIs [s]
ontime3	12055.90009284	Sum of GTIs [s]
ontime6	12055.90009284	Sum of GTIs [s]
ontime7	12055.90009284	Sum of GTIs [s]
ontime8	12055.90009284	Sum of GTIs [s]
l2events	82161	Number of level 2 events



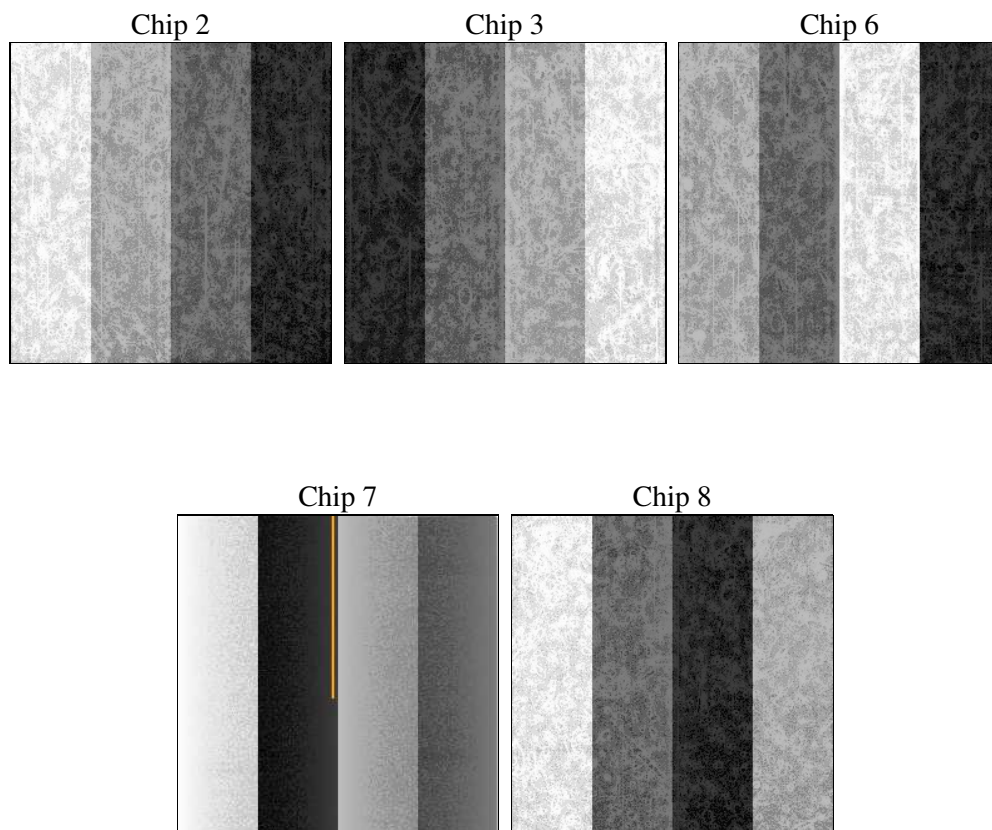
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	12055.90009284	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	12055.90009284	Sum of GTIs [s]
date	2020-10-25T14:41:22	Date and time of file creation	ontime3	12055.90009284	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	12055.90009284	Sum of GTIs [s]
			ontime7	12055.90009284	Sum of GTIs [s]
			ontime8	12055.90009284	Sum of GTIs [s]
			l1events	490703	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	83690	84324	92005	112894	117790
rejected events	74445	75223	82210	64147	85718
rejected %	88%	89%	89%	56%	72%

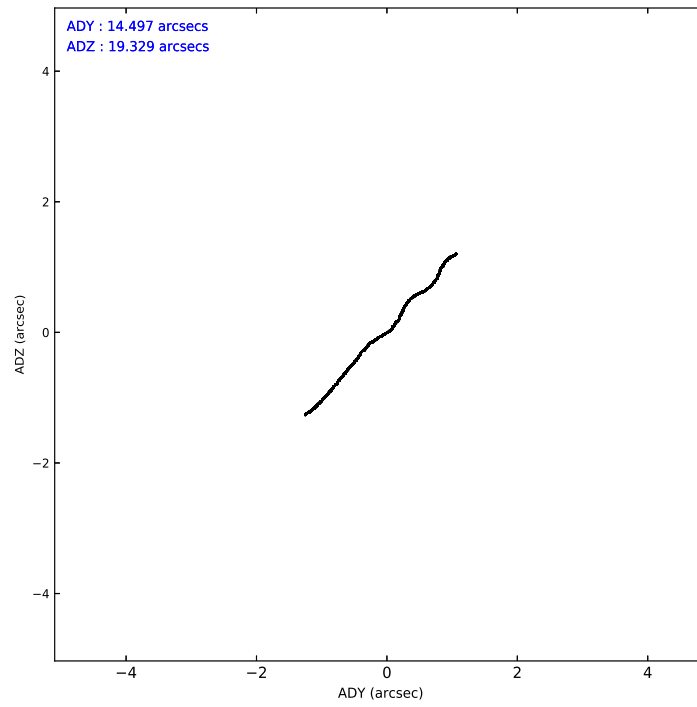
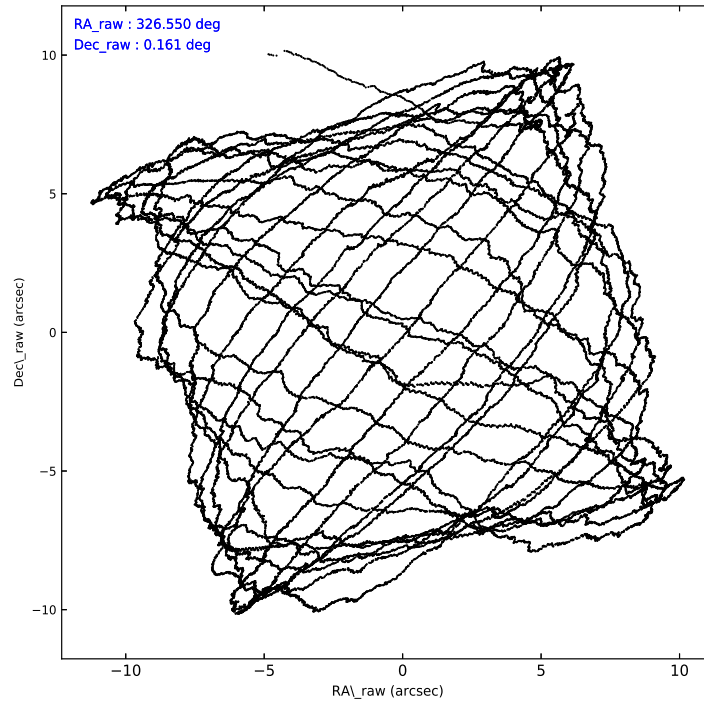
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3228	3228	3171	4185	9186
	3%	3%	3%	3%	7%
grade 1 events	44	50	53	131	97
	0%	0%	0%	0%	0%
grade 2 events	2311	2001	2370	10301	7818
	2%	2%	2%	9%	6%
grade 3 events	957	943	944	3910	3428
	1%	1%	1%	3%	2%
grade 4 events	932	960	889	3827	3099
	1%	1%	0%	3%	2%
grade 5 events	3430	4104	3994	11272	6208
	4%	4%	4%	9%	5%
grade 6 events	1819	1977	2424	26567	8557
	2%	2%	2%	23%	7%
grade 7 events	70969	71061	78160	52701	79397
	84%	84%	84%	46%	67%

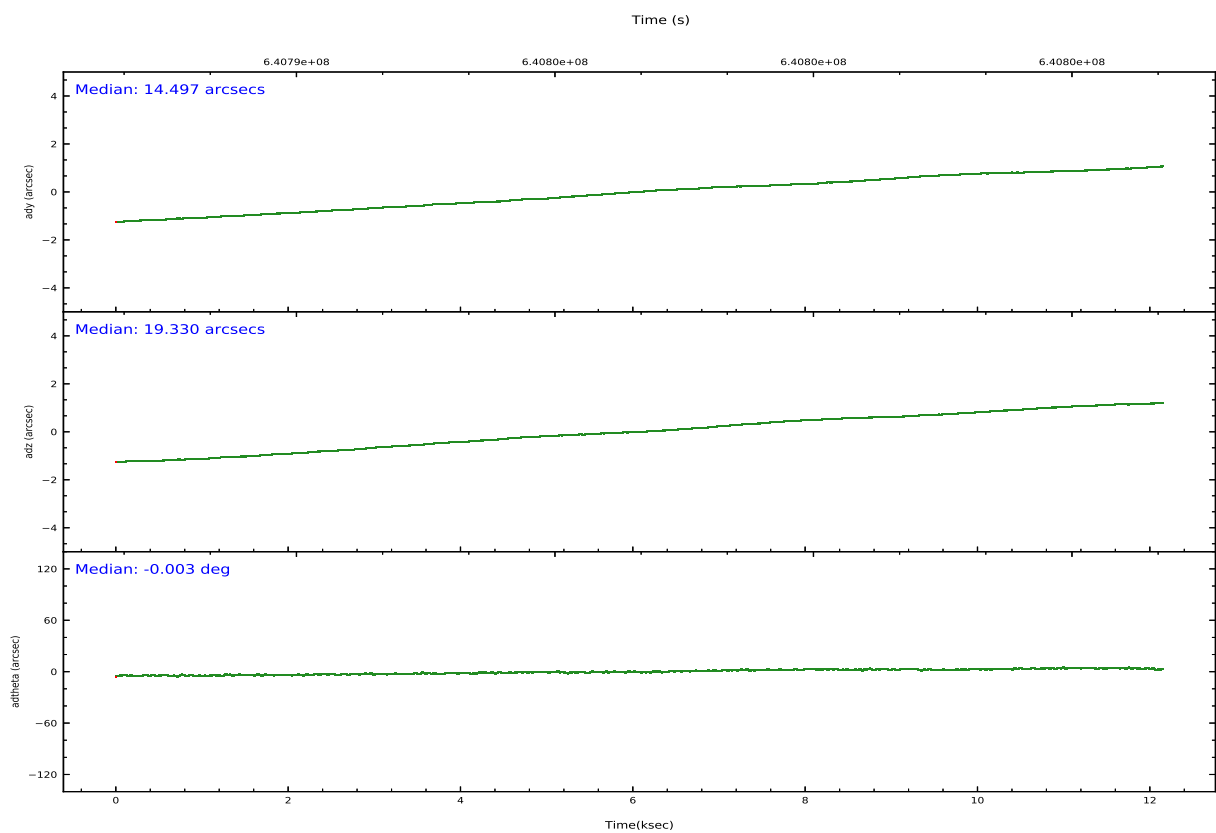
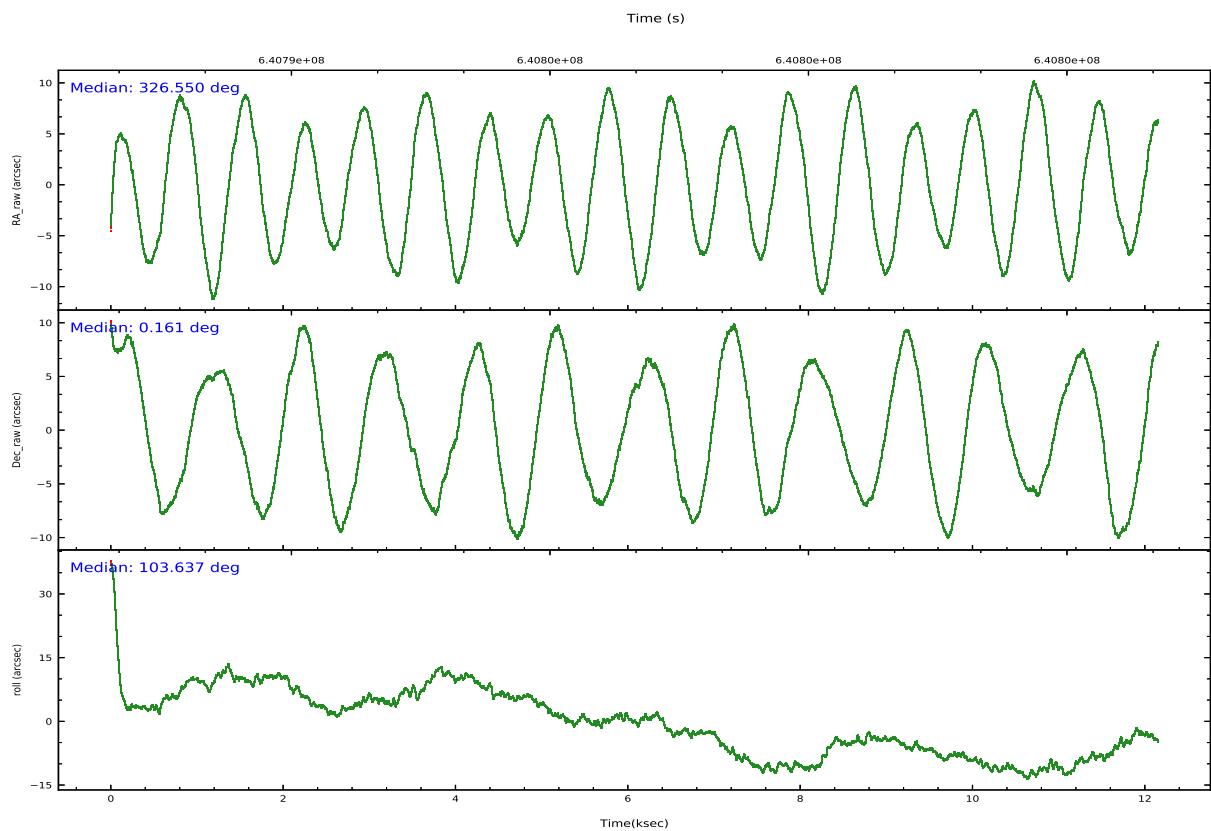
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	326.569329	326.55657163577
[deg] Pointing Dec	0.141846	0.15874810115061
[deg] Pointing Roll	103.485646	103.6368492943
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	640790059.184000	640789035.0199701
Observation start date	2018-04-22T13:13:10	2018-04-22T12:57:15
[s] Observation end time (MET)	640802059.184000	640802701.34578
Observation end date	2018-04-22T16:33:10	2018-04-22T16:45:01
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



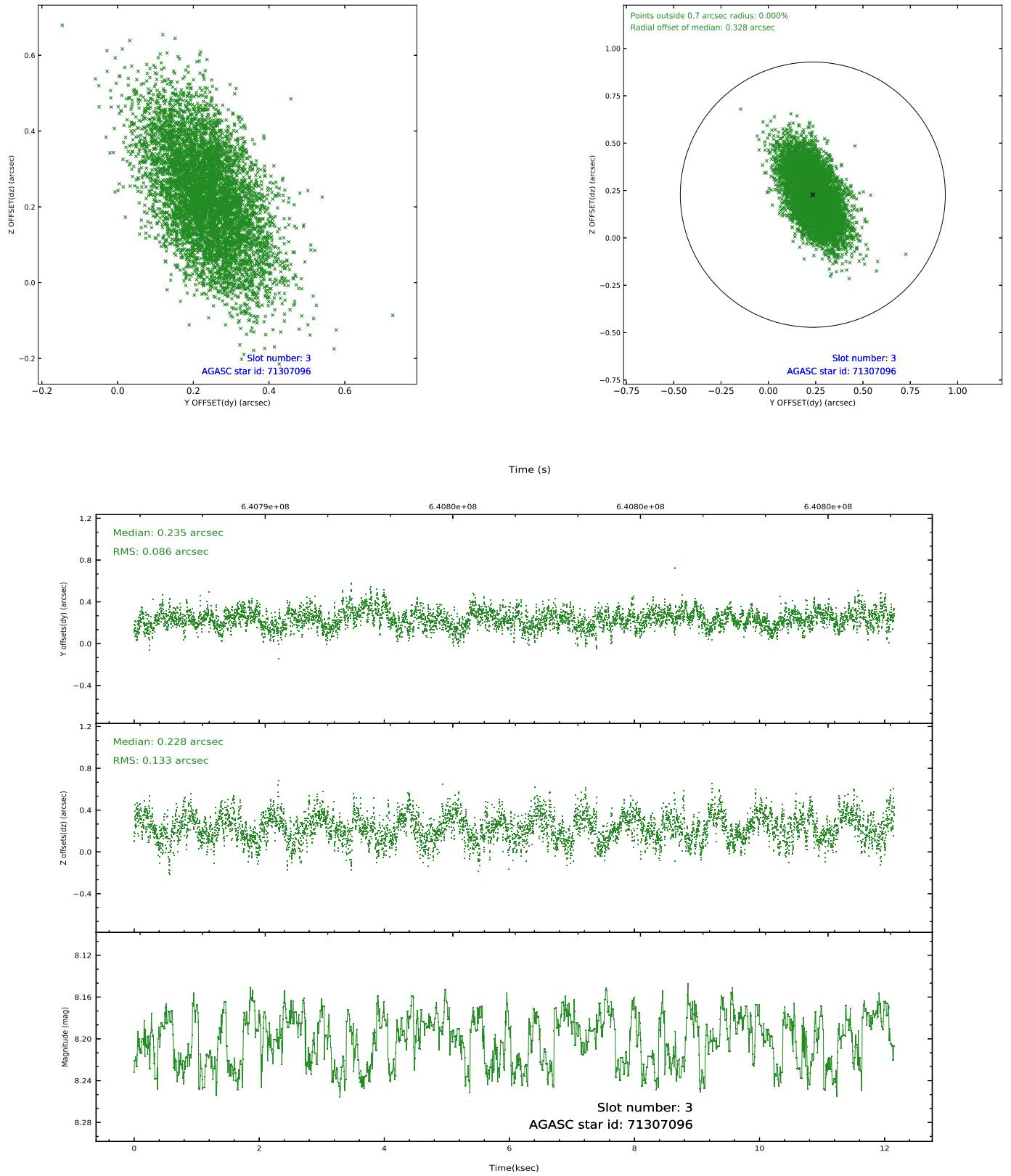


Slot Statistics

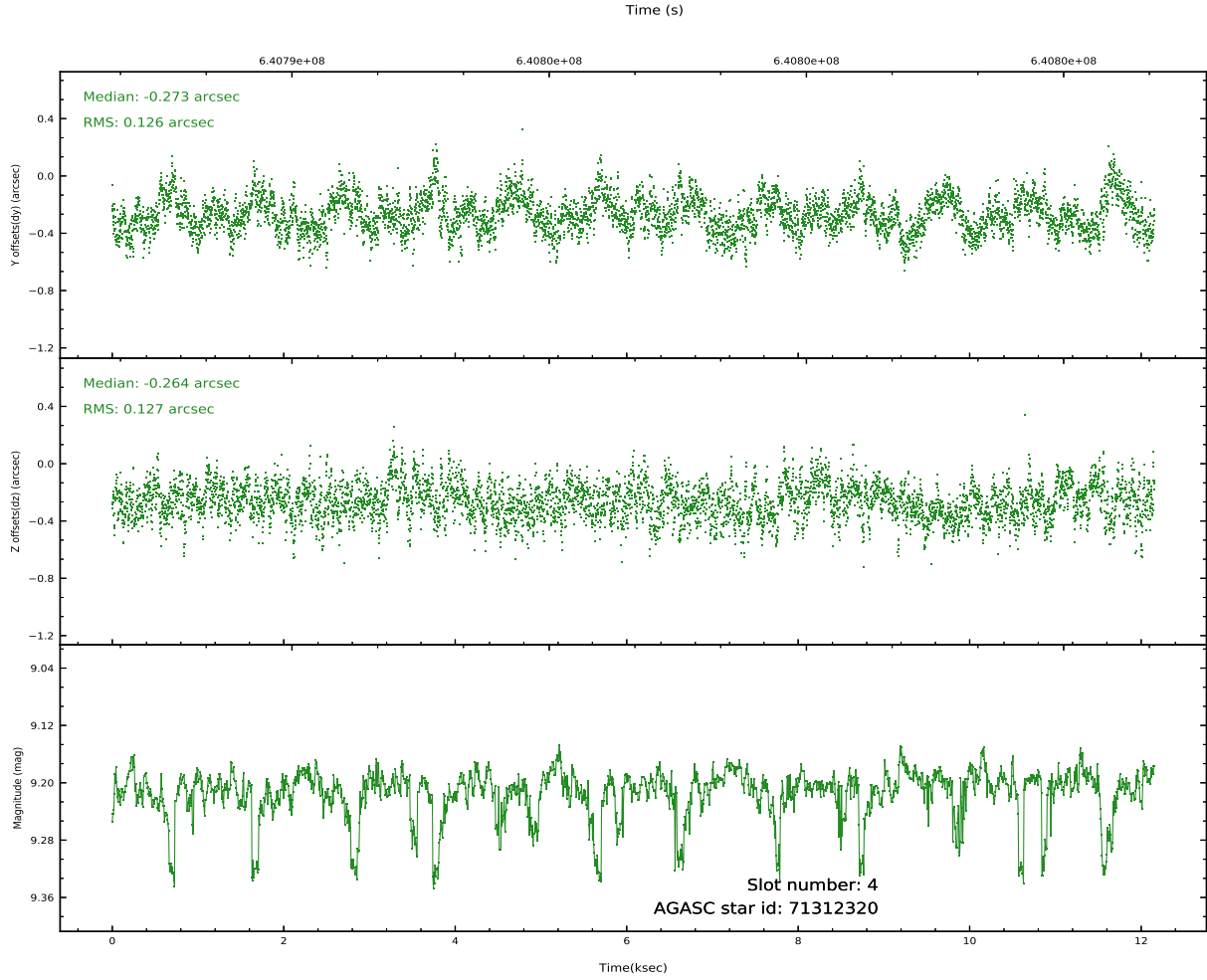
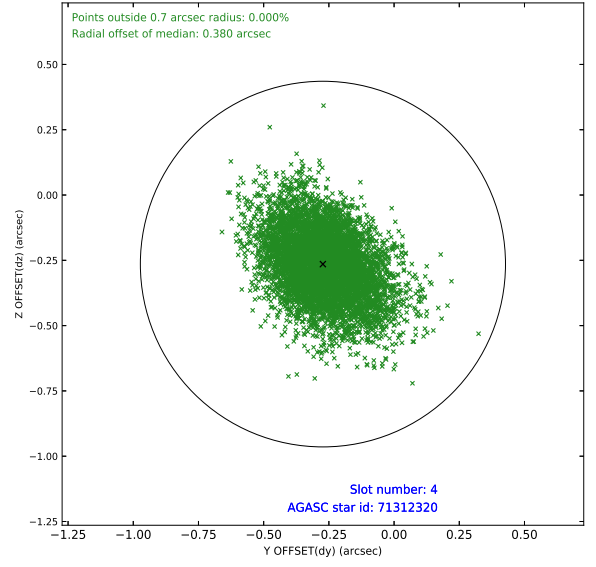
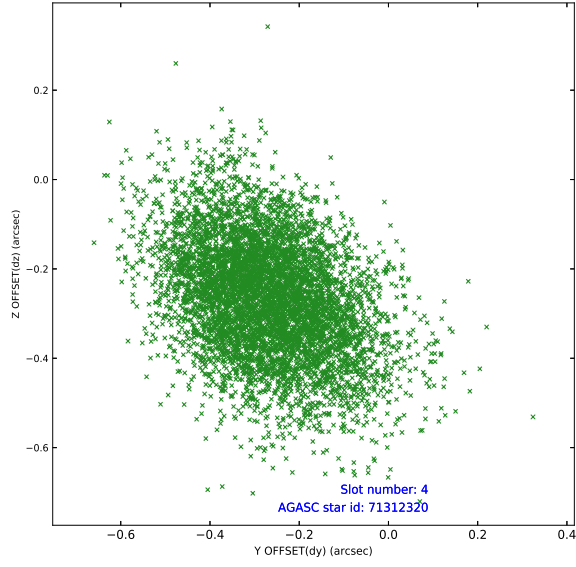
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.16	2965	1.000	0.153	-0.061	0.026	0.063	0.000000	0.000000	928.73	-1736
1	FID		ACIS-S-2	7.07	2964	1.000	-0.124	0.057	0.020	0.042	0.000000	0.000000	-767.23	-1741
2	FID		ACIS-S-6	7.32	2965	1.000	-0.047	0.014	0.018	0.039	0.000000	0.000000	394.08	804
3	GUIDE	used	71307096	8.20	5930	1.000	0.235	0.228	0.164	0.285	327.095175	0.200785	-235.10	-1889
4	GUIDE	used	71312320	9.21	5927	1.000	-0.273	-0.264	0.187	0.316	326.376251	0.677743	2036.63	227
5	GUIDE	used	682755640	9.25	5916	1.000	-0.033	-0.261	0.213	0.341	326.005958	-0.128914	-474.97	2199
6	GUIDE	used	682891408	7.97	5930	1.000	0.195	0.329	0.123	0.227	327.239427	-0.279523	-2037.24	-1991
7	GUIDE	used	682891784	7.98	5929	1.000	-0.129	-0.030	0.134	0.246	326.343078	-0.210612	-1044.74	1088

2.4 Star Slots

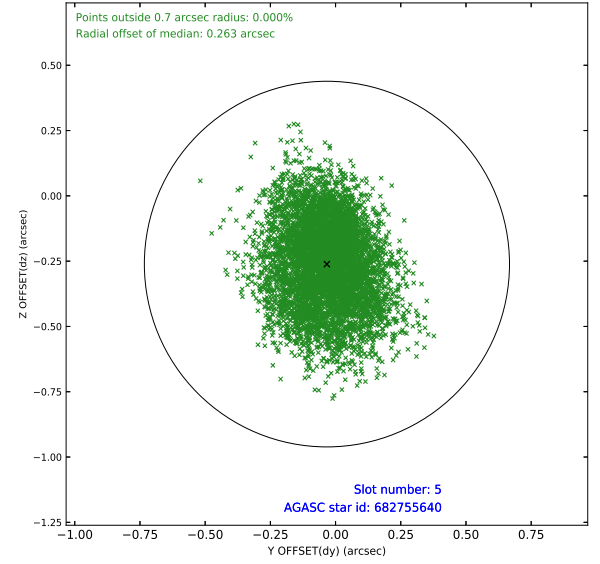
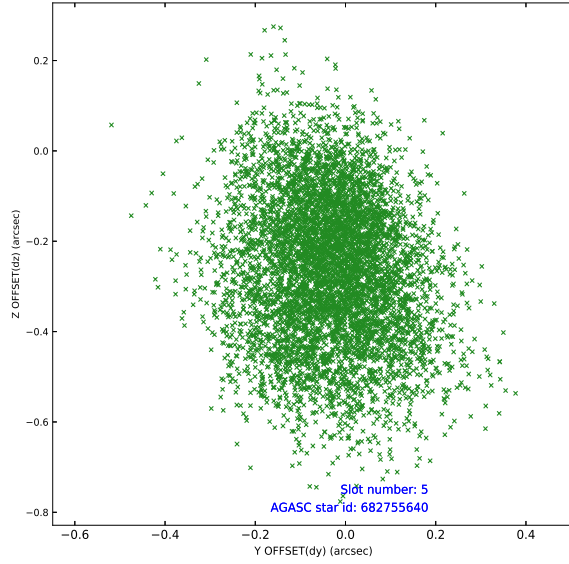
2.4.1 Slot 3



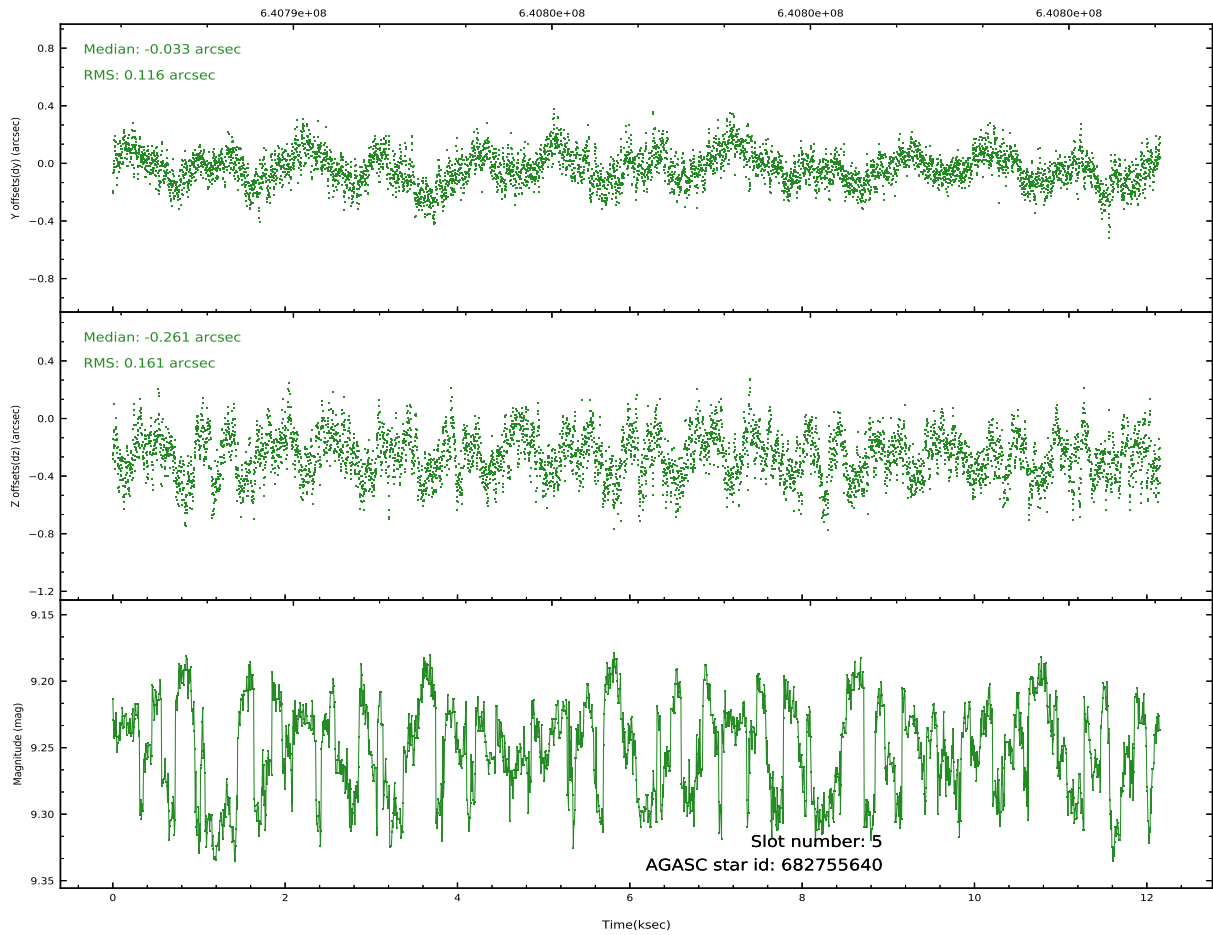
2.4.2 Slot 4



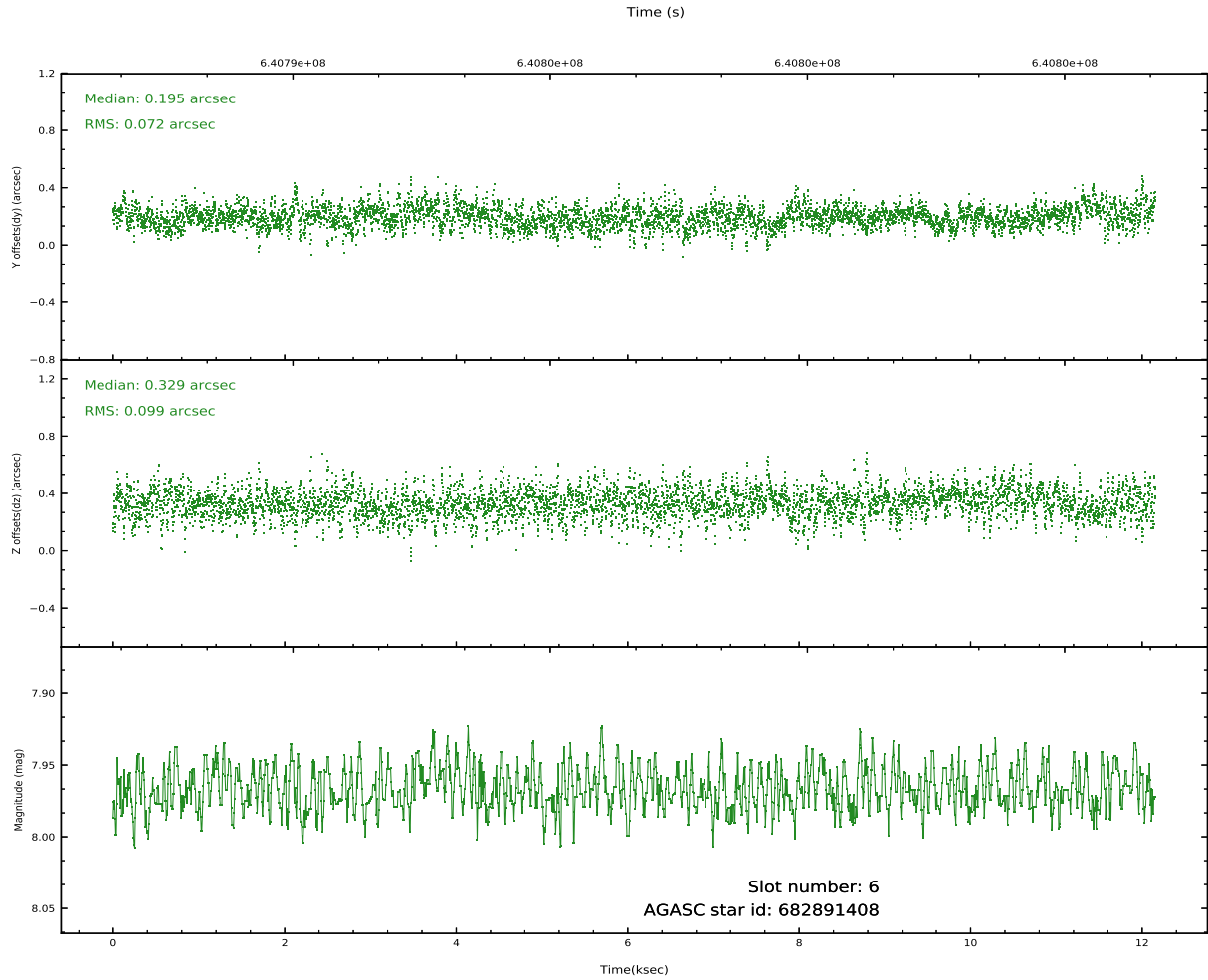
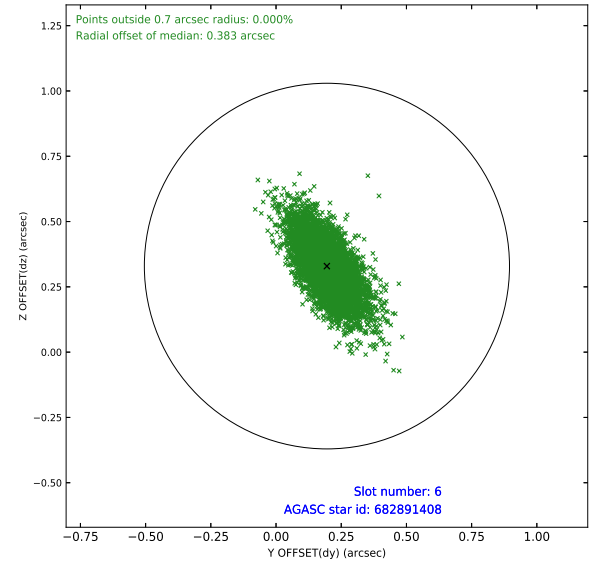
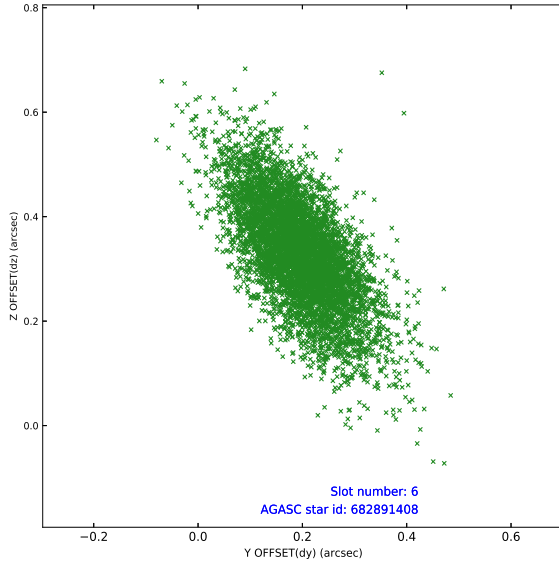
2.4.3 Slot 5



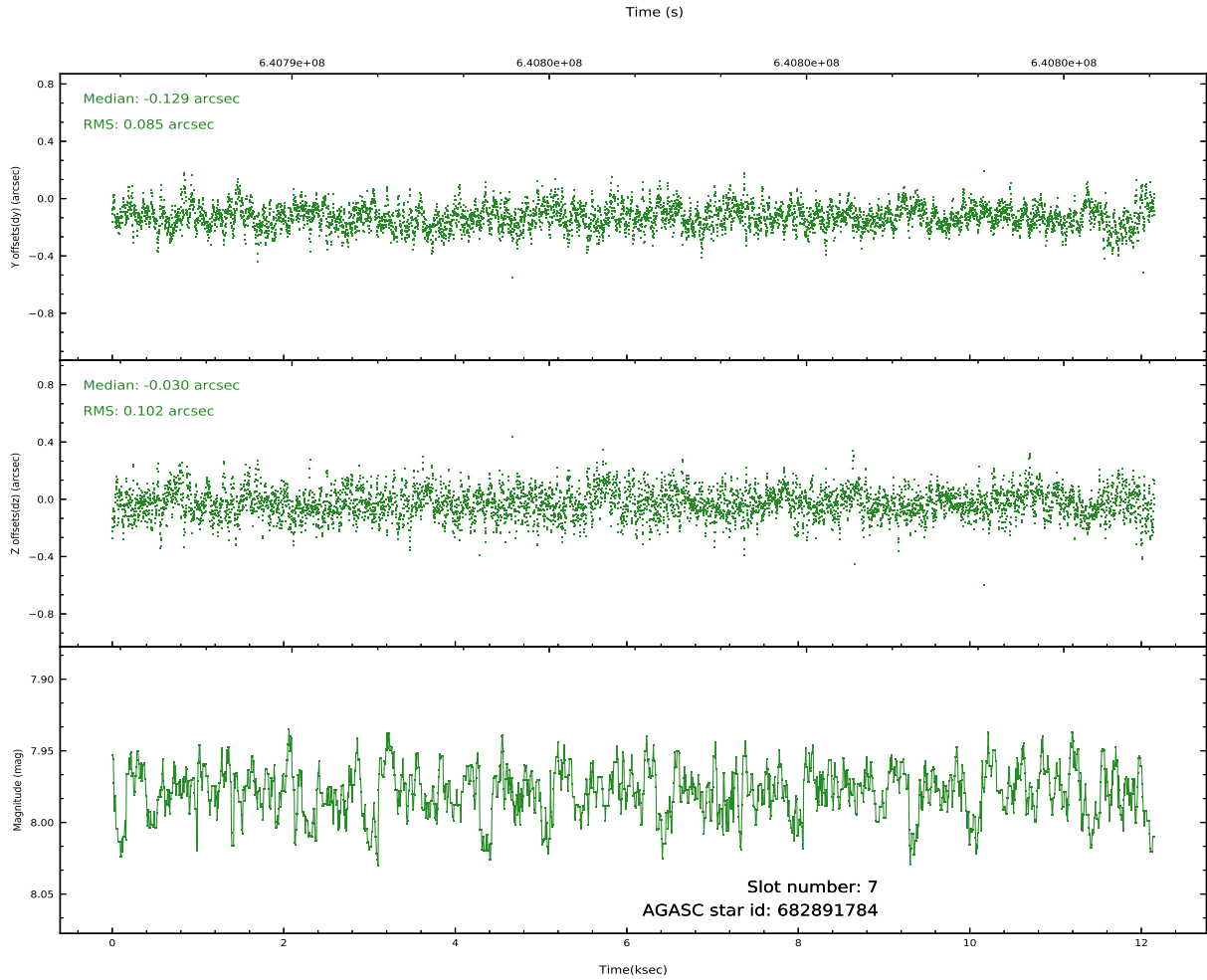
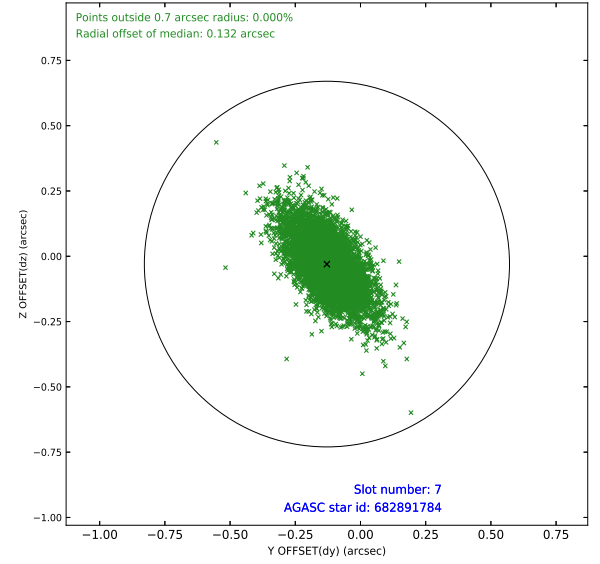
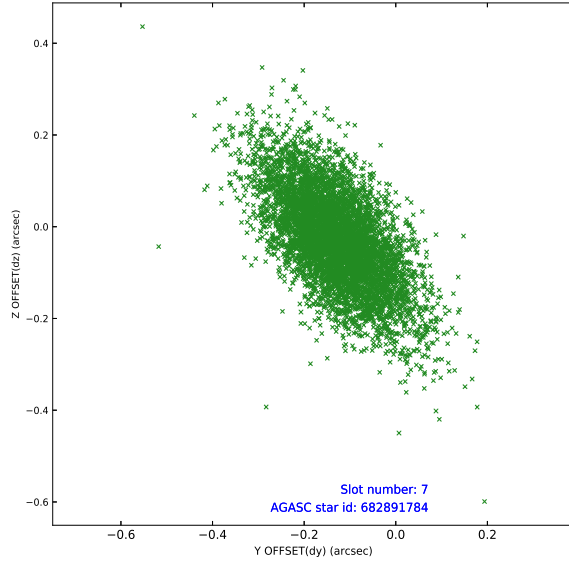
Time (s)



2.4.4 Slot 6

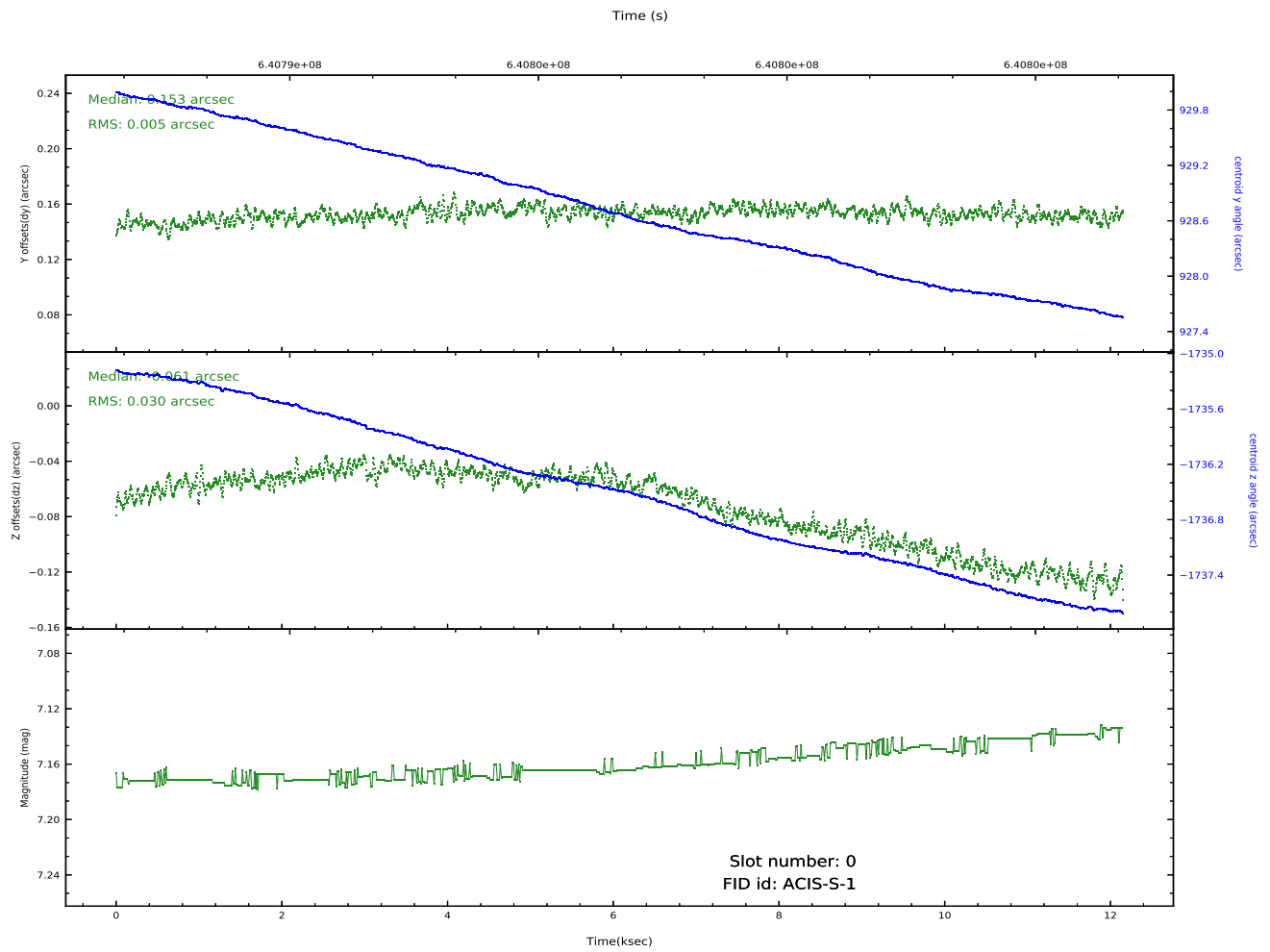
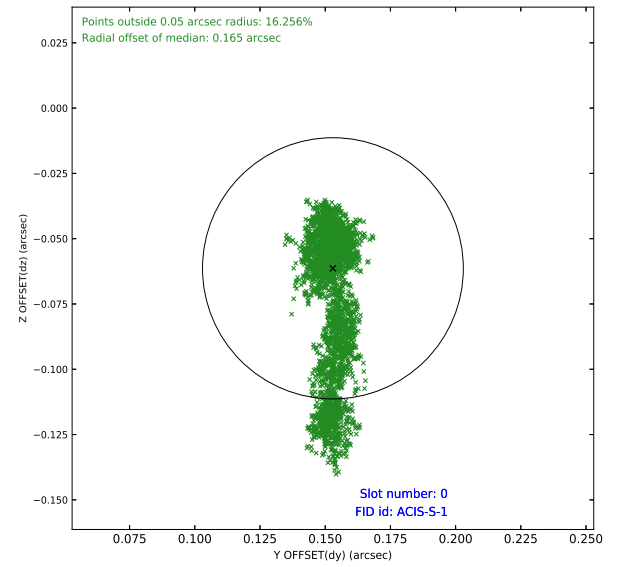
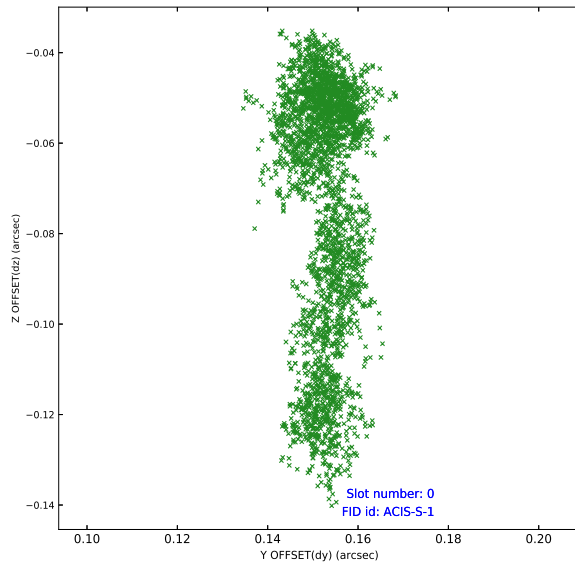


2.4.5 Slot 7

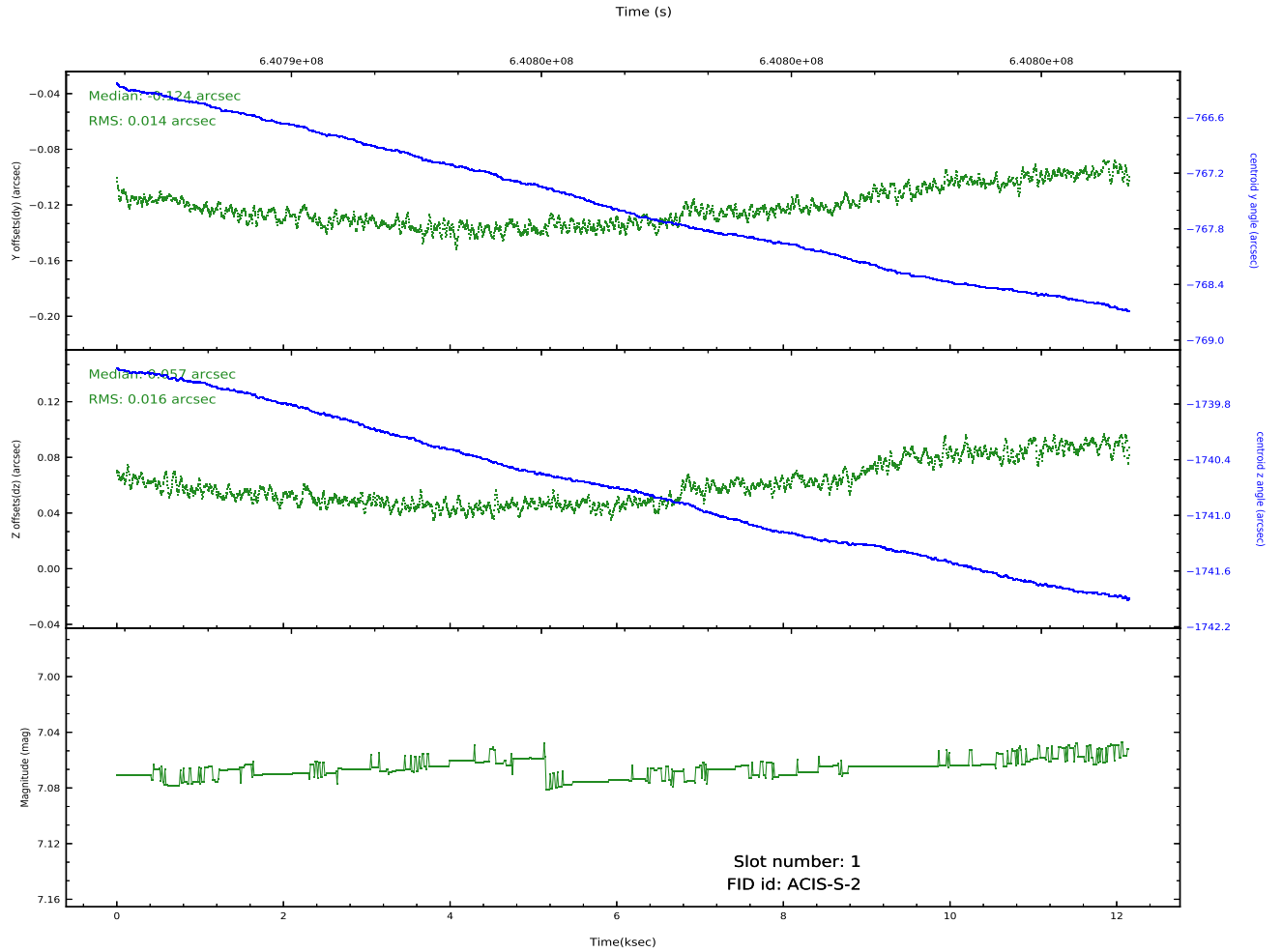
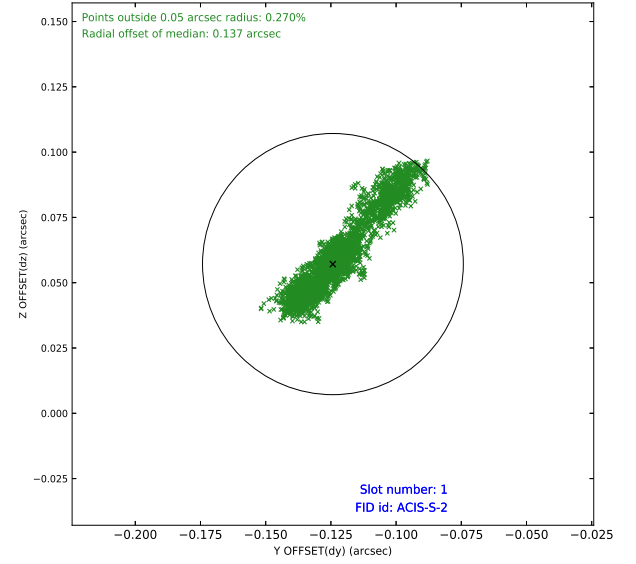
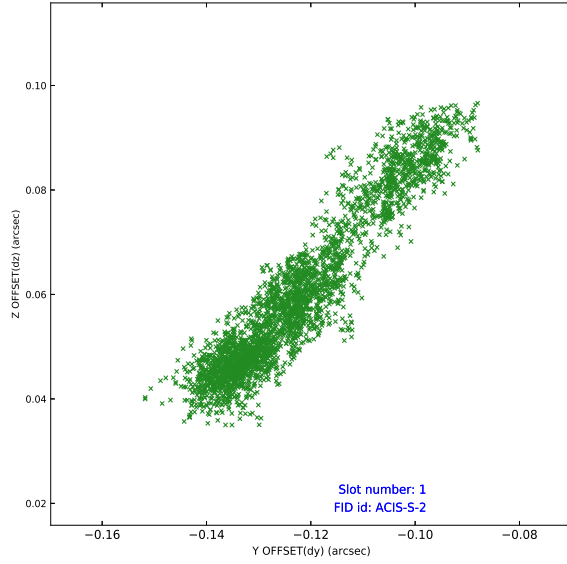


2.5 FID Slots

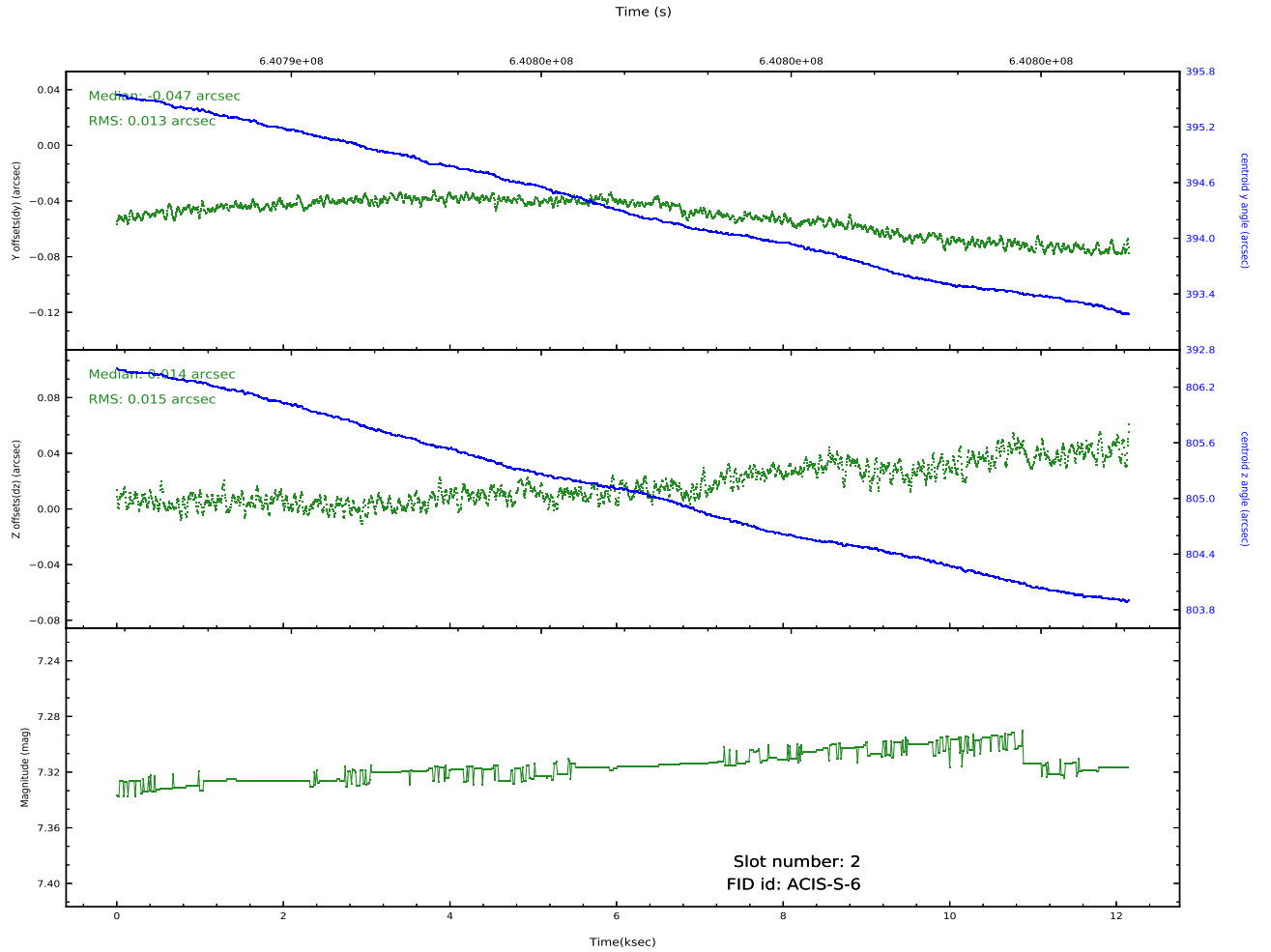
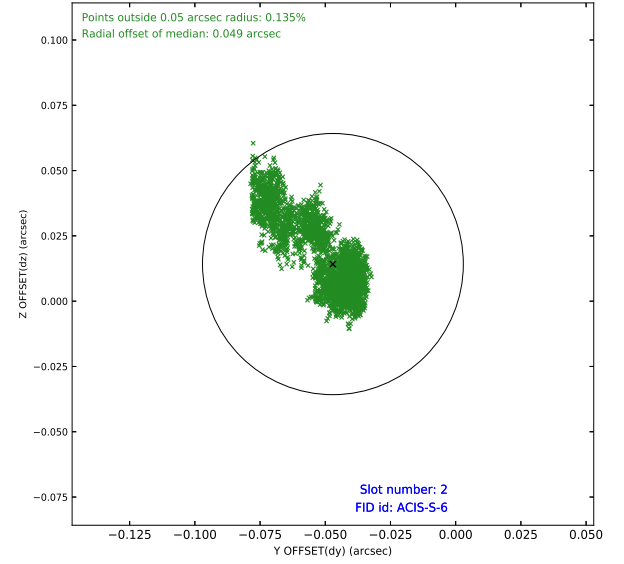
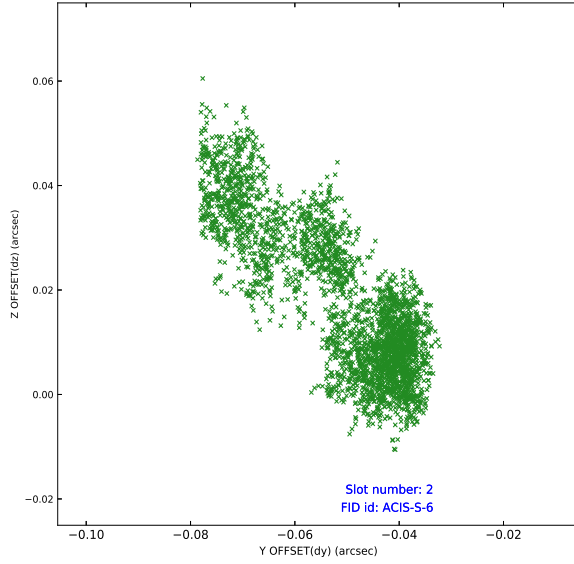
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.05590009284

A.2 Comments