

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20600 - L2 Version 2
Chandra X-Ray Center

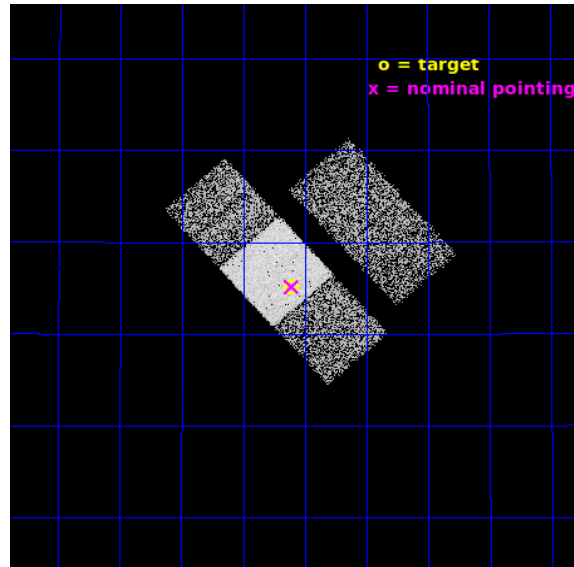
L2 Processing Date : Oct 24 2020

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1 Front

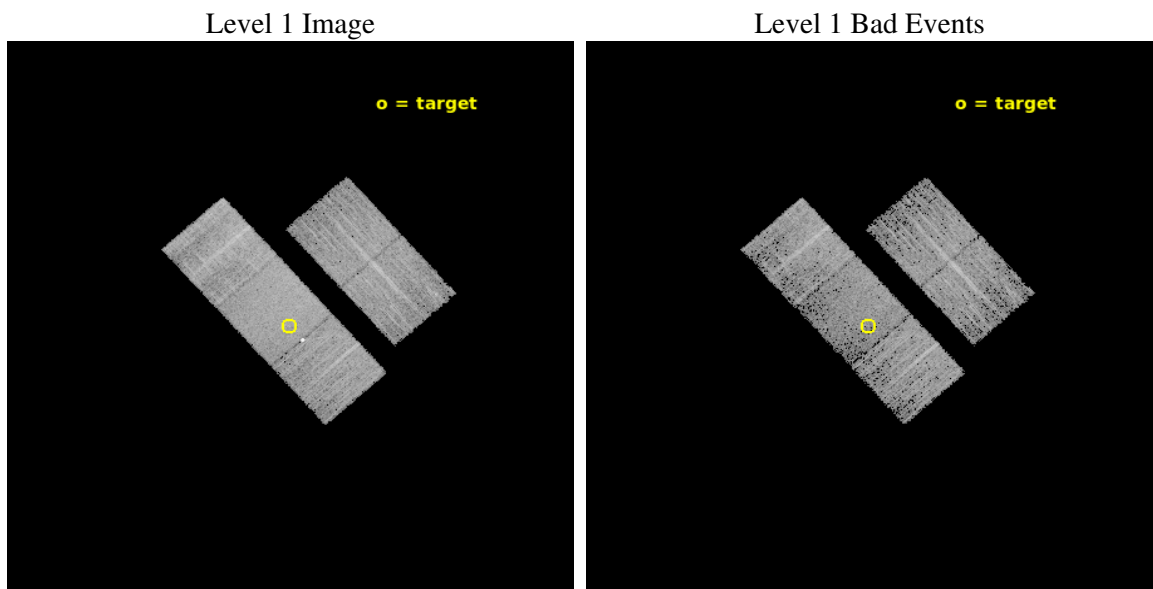
seq_num	703601	Sequence number
obs_id	20600	Observation id
title	Exploratory X-ray Monitoring of z>4 Radio-Quiet Quasars	Proposal t
observer	Ohad Shemmer	Principal investigator
object	PSS 0926+3055	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	141.65125	Observer's specified target RA [deg]
dec_targ	30.918028	Observer's specified target Dec [deg]
ra_nom	141.65118785344	Nominal RA [deg]
dec_nom	30.919524246041	Nominal Dec [deg]
roll_nom	228.15697025398	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5053.0000389814	Sum of GTIs [s]
livetime	4986.9788735076	Livetime [s]
ontime2	5053.0000389814	Sum of GTIs [s]
ontime3	5053.0000389814	Sum of GTIs [s]
ontime6	5053.0000389814	Sum of GTIs [s]
ontime7	5053.0000389814	Sum of GTIs [s]
ontime8	5053.0000389814	Sum of GTIs [s]
l2events	34679	Number of level 2 events



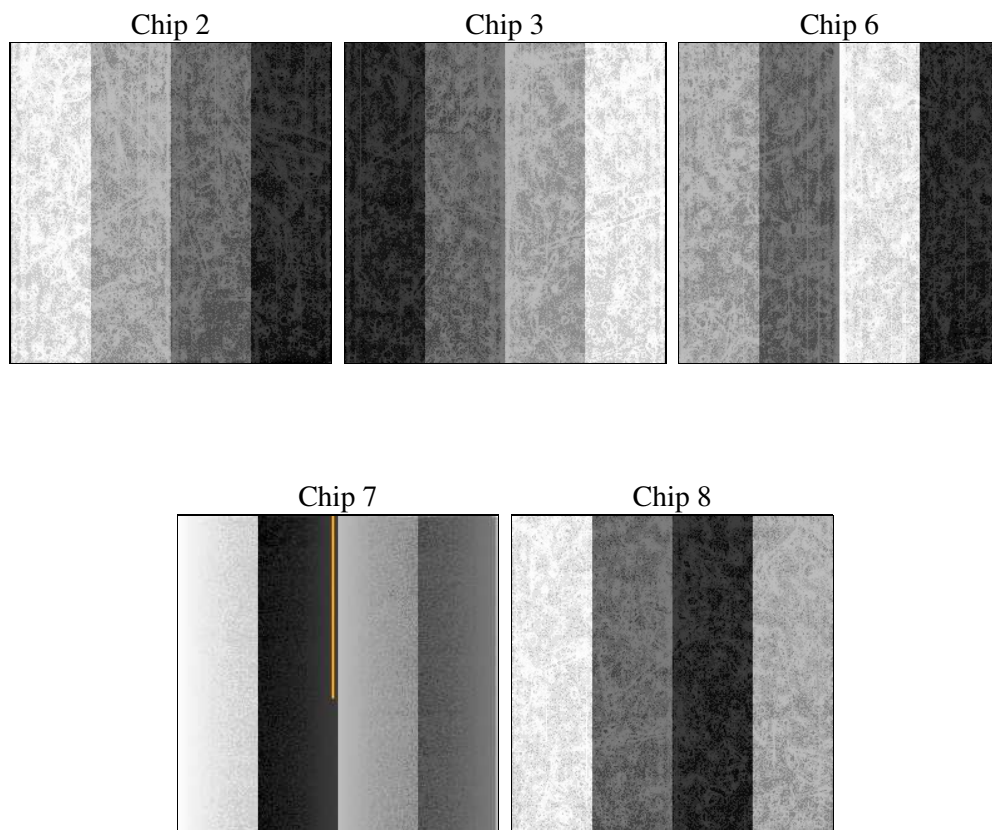
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	5053.0000389814	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	5053.0000389814	Sum of GTIs [s]
date	2020-10-25T02:05:14	Date and time of file creation	ontime3	5053.0000389814	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	5053.0000389814	Sum of GTIs [s]
			ontime7	5053.0000389814	Sum of GTIs [s]
			ontime8	5053.0000389814	Sum of GTIs [s]
			l1events	218090	Number of level 1 events

2.1.4 Events

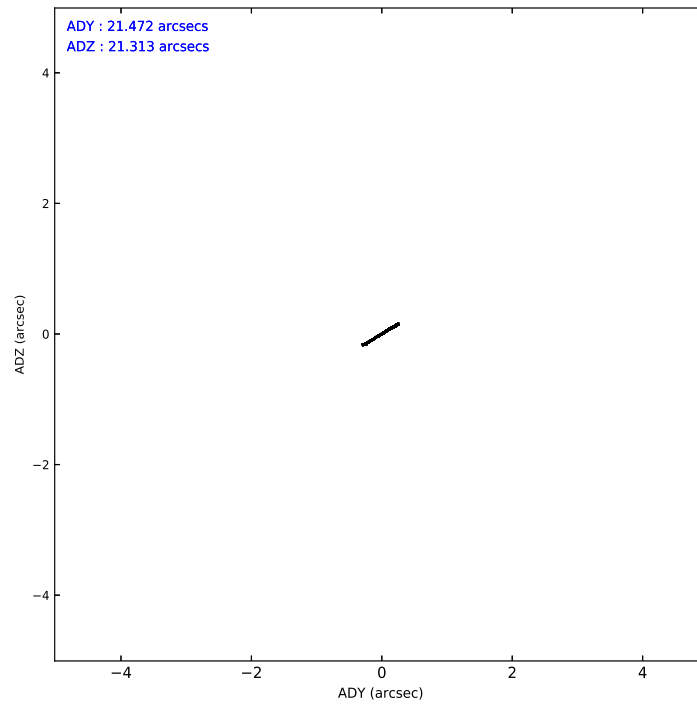
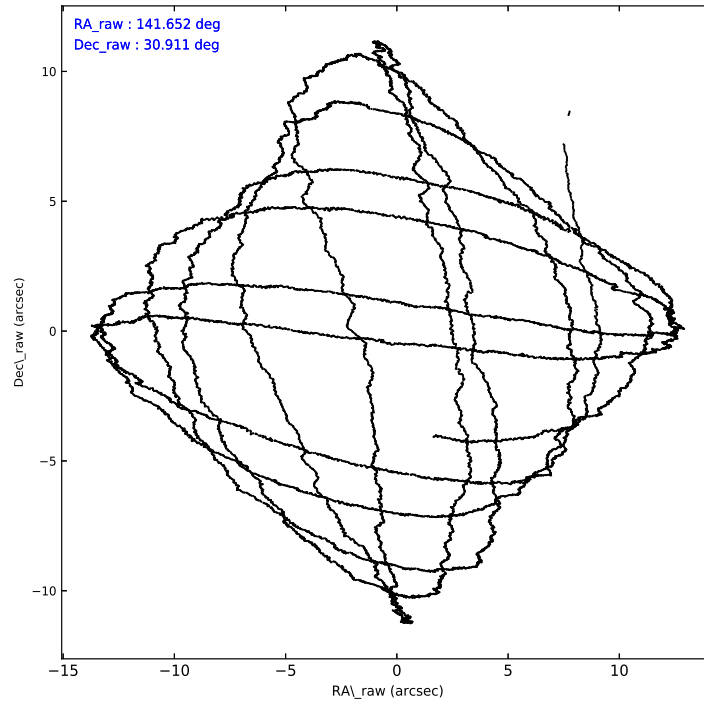
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	38699	36930	41822	49414	51225
rejected events	34723	33130	36264	28227	38433
rejected %	89%	89%	86%	57%	75%

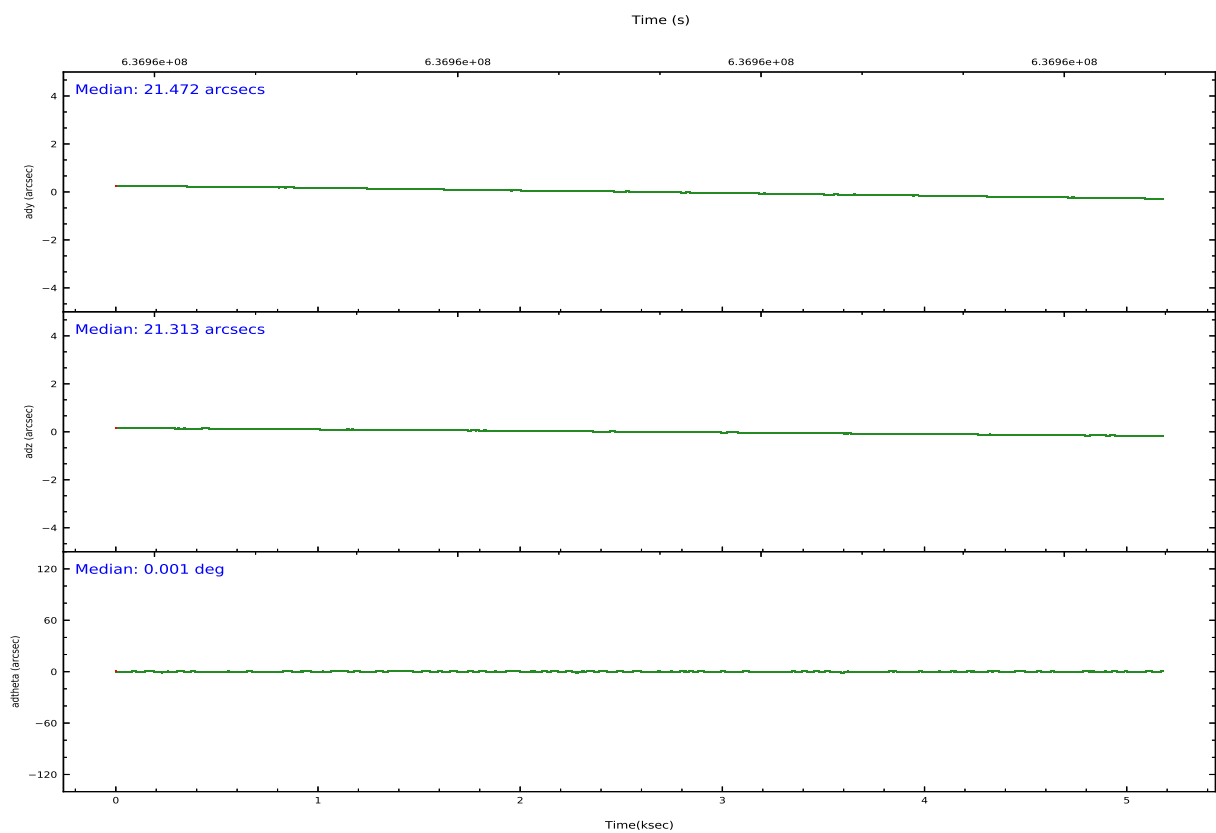
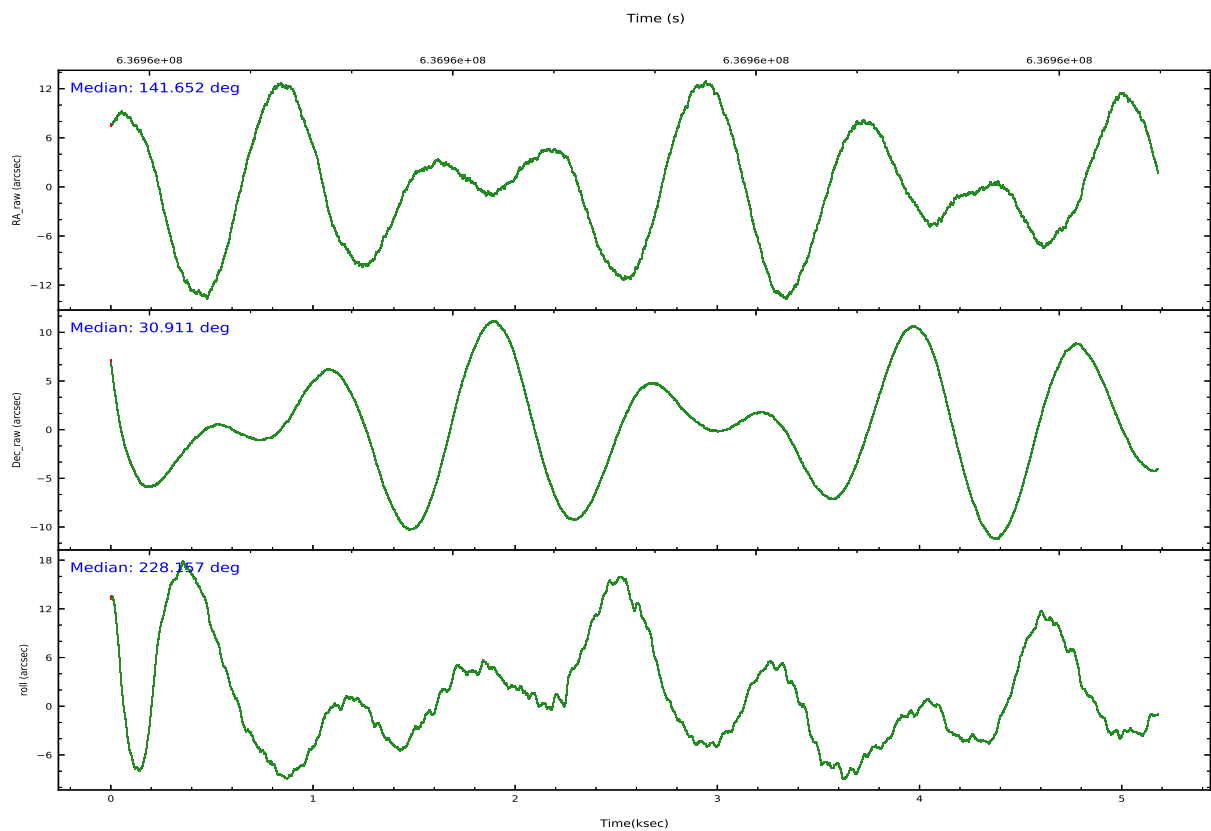
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1454	1300	2659	1770	3566
	3%	3%	6%	3%	6%
grade 1 events	31	21	31	73	32
	0%	0%	0%	0%	0%
grade 2 events	939	805	1041	4404	3039
	2%	2%	2%	8%	5%
grade 3 events	405	410	425	1654	1320
	1%	1%	1%	3%	2%
grade 4 events	404	397	401	1599	1258
	1%	1%	0%	3%	2%
grade 5 events	1390	1769	1746	4677	2622
	3%	4%	4%	9%	5%
grade 6 events	778	889	1038	11773	3616
	2%	2%	2%	23%	7%
grade 7 events	33298	31339	34481	23464	35772
	86%	84%	82%	47%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	141.657737	141.65118785344	CCD I2 on	O2	Y
[deg] Pointing Dec	30.937790	30.919524246041	CCD I3 on	O3	Y
[deg] Pointing Roll	227.996664	228.15697025398	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	636954988.184000	636953404.84367	CCD S5 on	N	N
Observation start date	2018-03-09T03:55:19	2018-03-09T03:30:04	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	636959988.184000	636960878.11911	On-chip summing requested	N	N
Observation end date	2018-03-09T05:18:39	2018-03-09T05:34:38	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



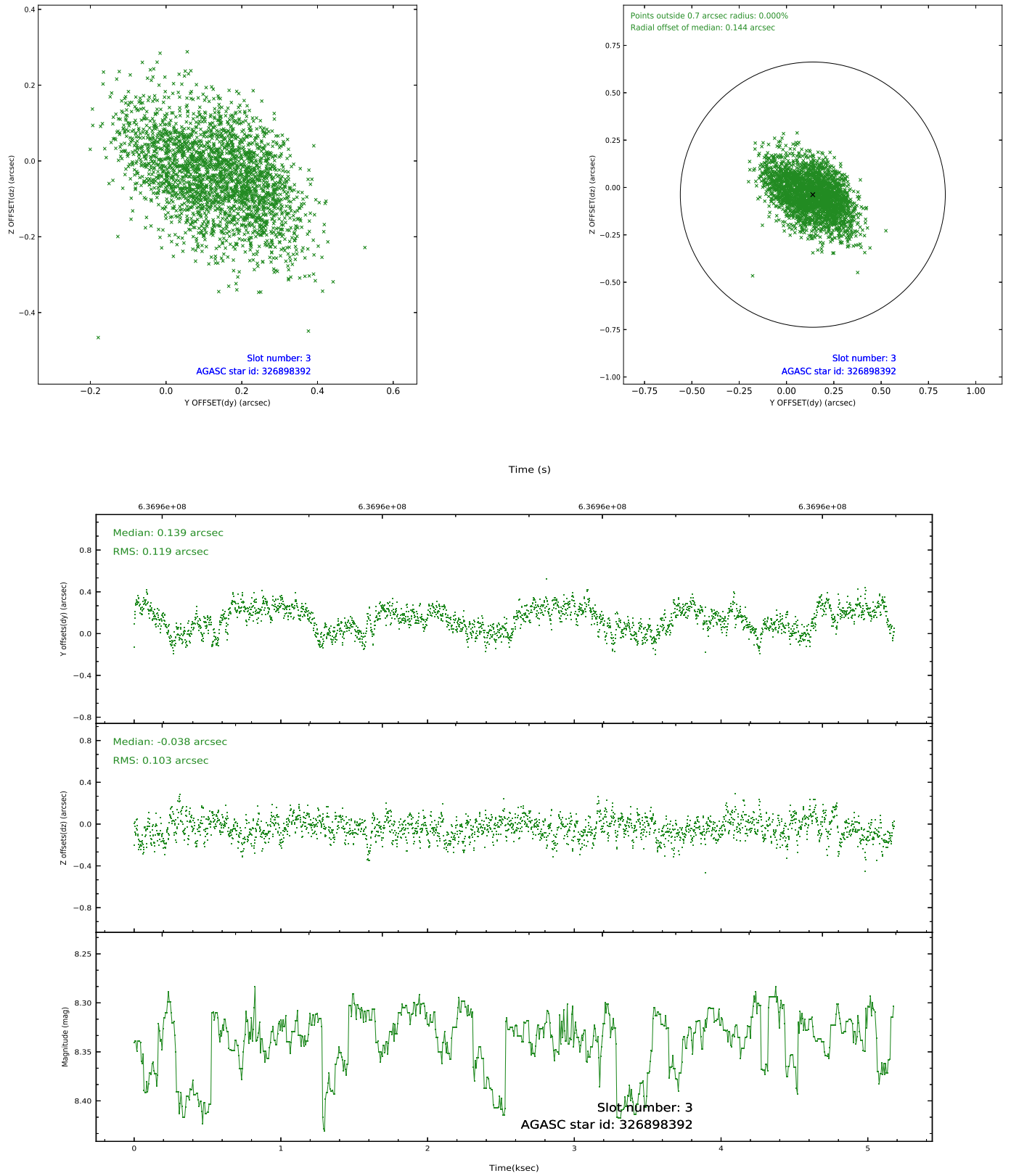


Slot Statistics

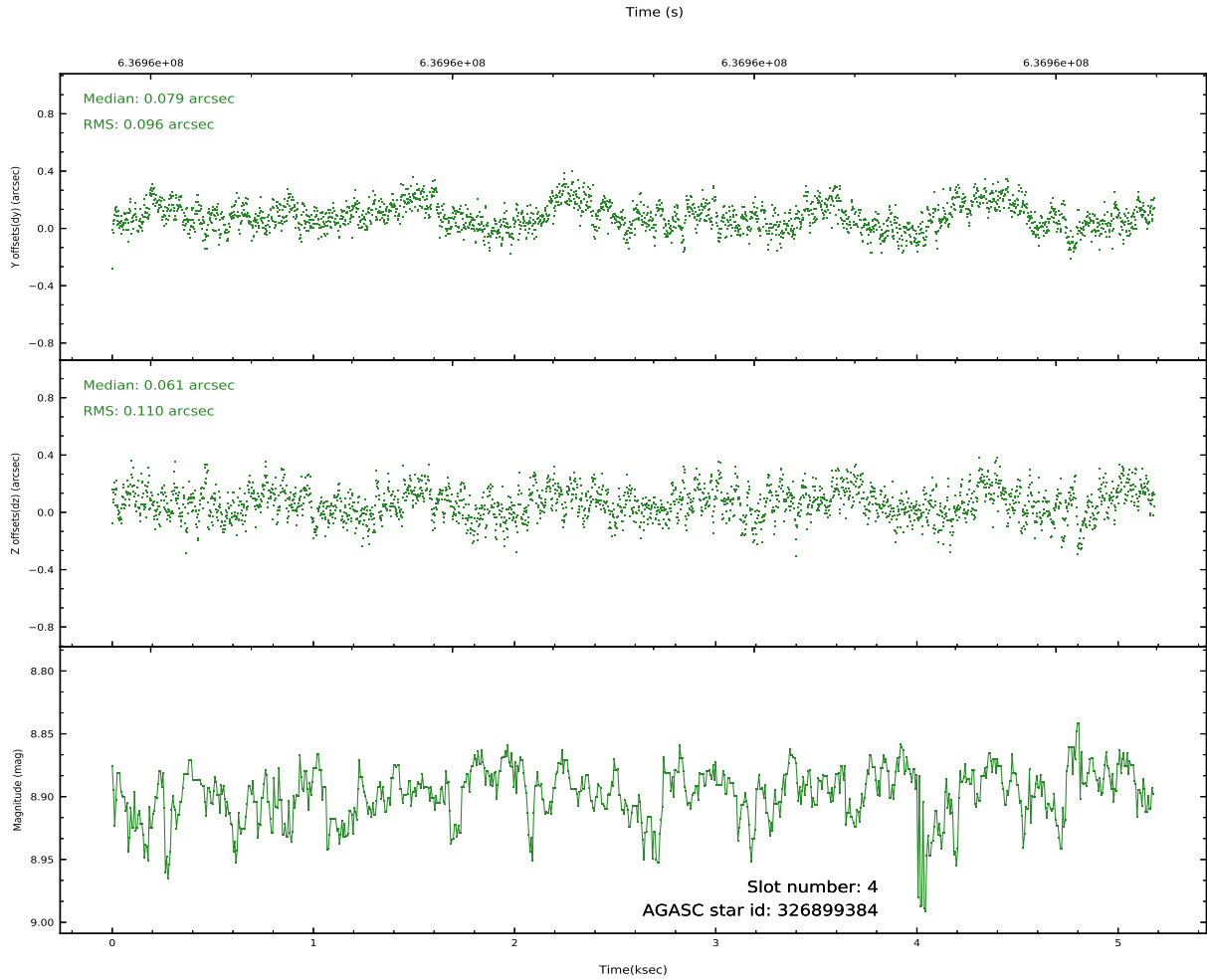
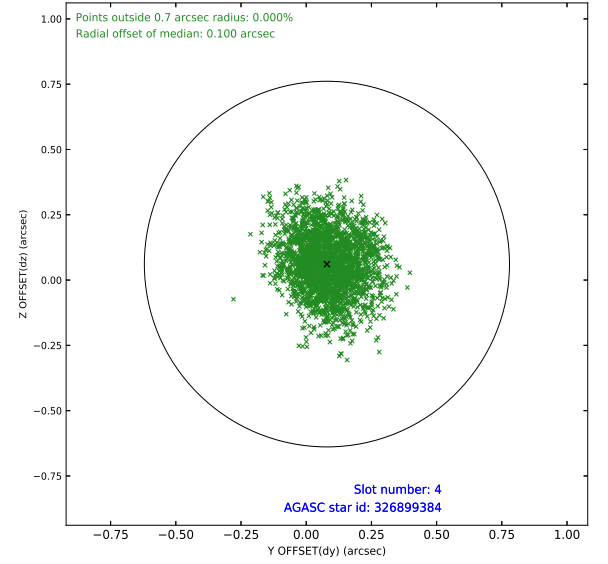
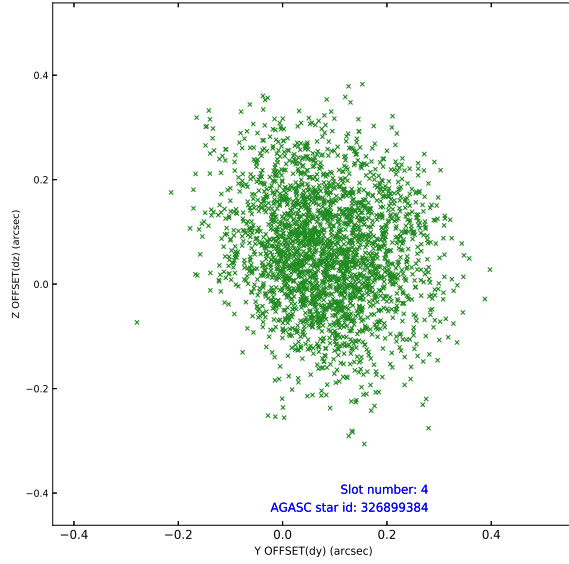
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.07	1264	1.000	0.046	0.018	0.007	0.013	0.000000	0.000000	-774.73	-1742
1	FID		ACIS-S-4	7.19	1264	1.000	0.064	-0.089	0.009	0.015	0.000000	0.000000	2138.20	164
2	FID		ACIS-S-6	7.33	1264	1.000	-0.136	0.078	0.008	0.014	0.000000	0.000000	388.79	803
3	GUIDE	used	326898392	8.33	2523	1.000	0.139	-0.038	0.165	0.276	141.640946	31.182886	-620.56	-628
4	GUIDE	used	326899384	8.89	2524	1.000	0.079	0.061	0.158	0.251	141.976290	31.465042	-2064.68	-543
5	GUIDE	used	326899696	9.47	2525	1.000	0.034	0.078	0.203	0.329	142.091565	31.387499	-2097.32	-94
6	GUIDE	used	326903944	7.61	2528	1.000	-0.071	-0.169	0.160	0.286	141.372366	30.493208	1782.25	415
7	GUIDE	used	326894960	8.92	2522	1.000	-0.179	0.077	0.148	0.250	141.736989	30.296358	1552.71	1729

2.4 Star Slots

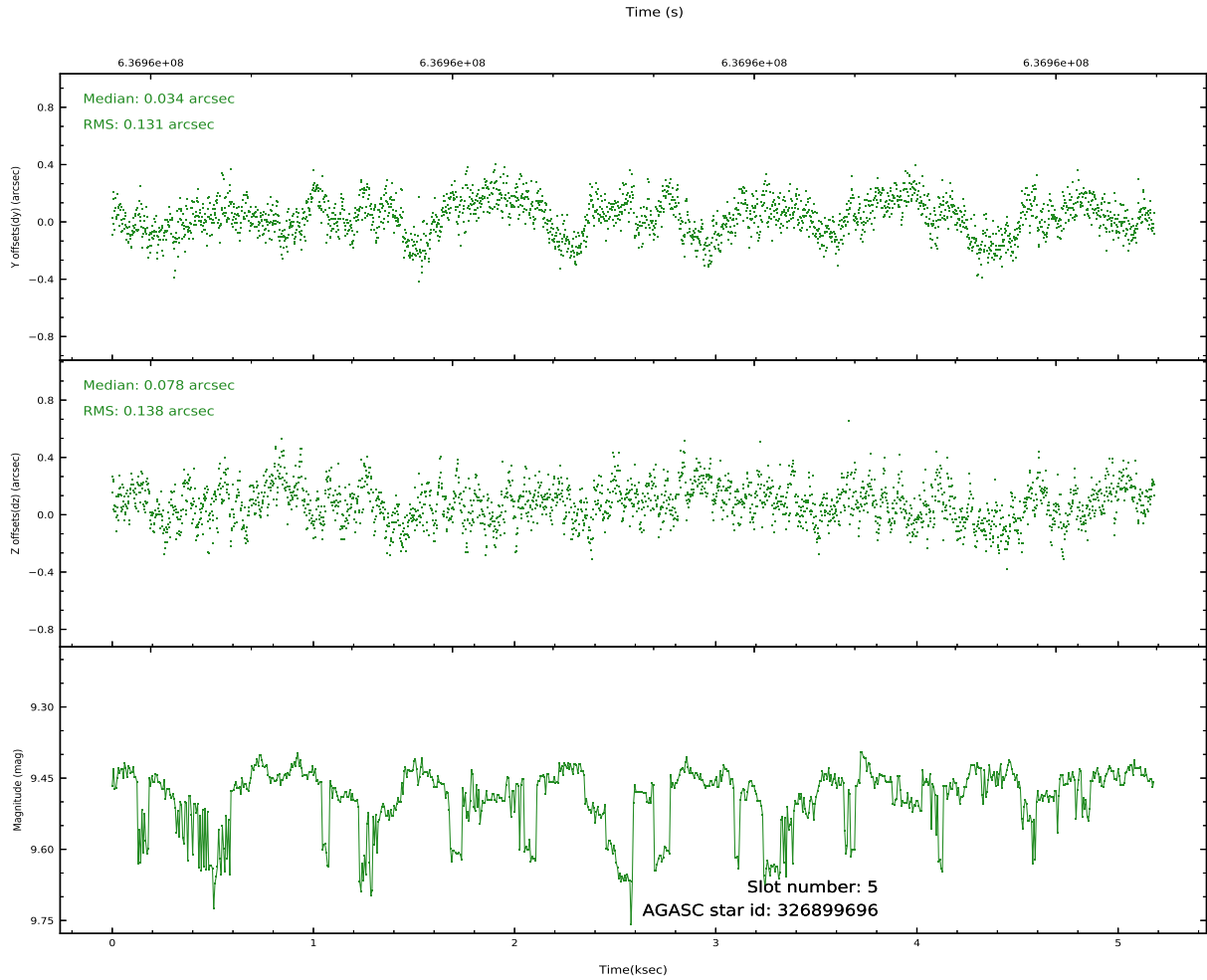
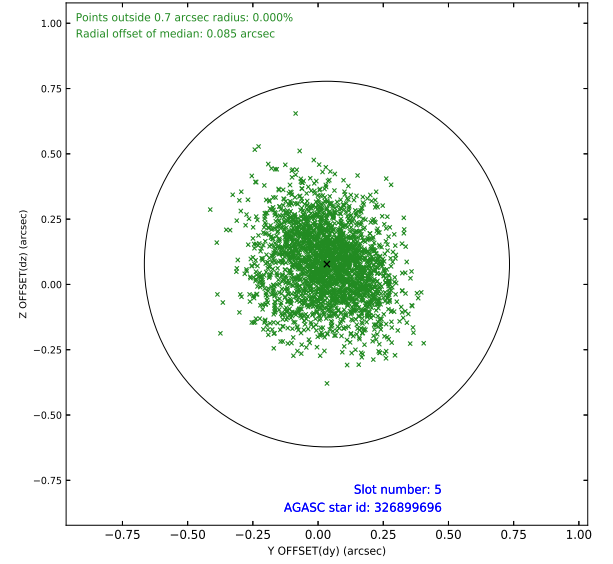
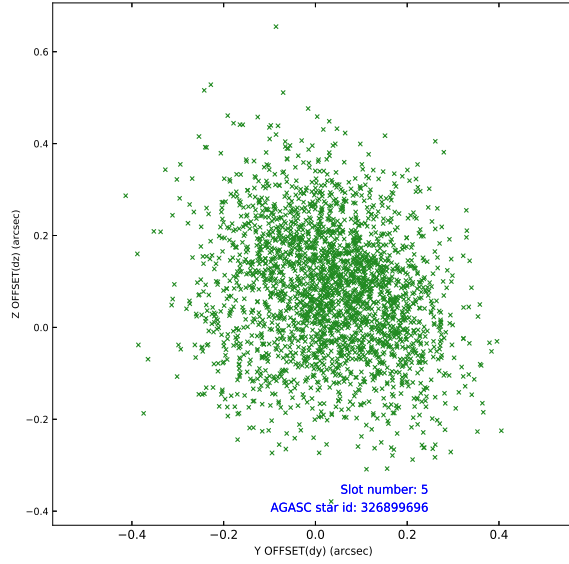
2.4.1 Slot 3



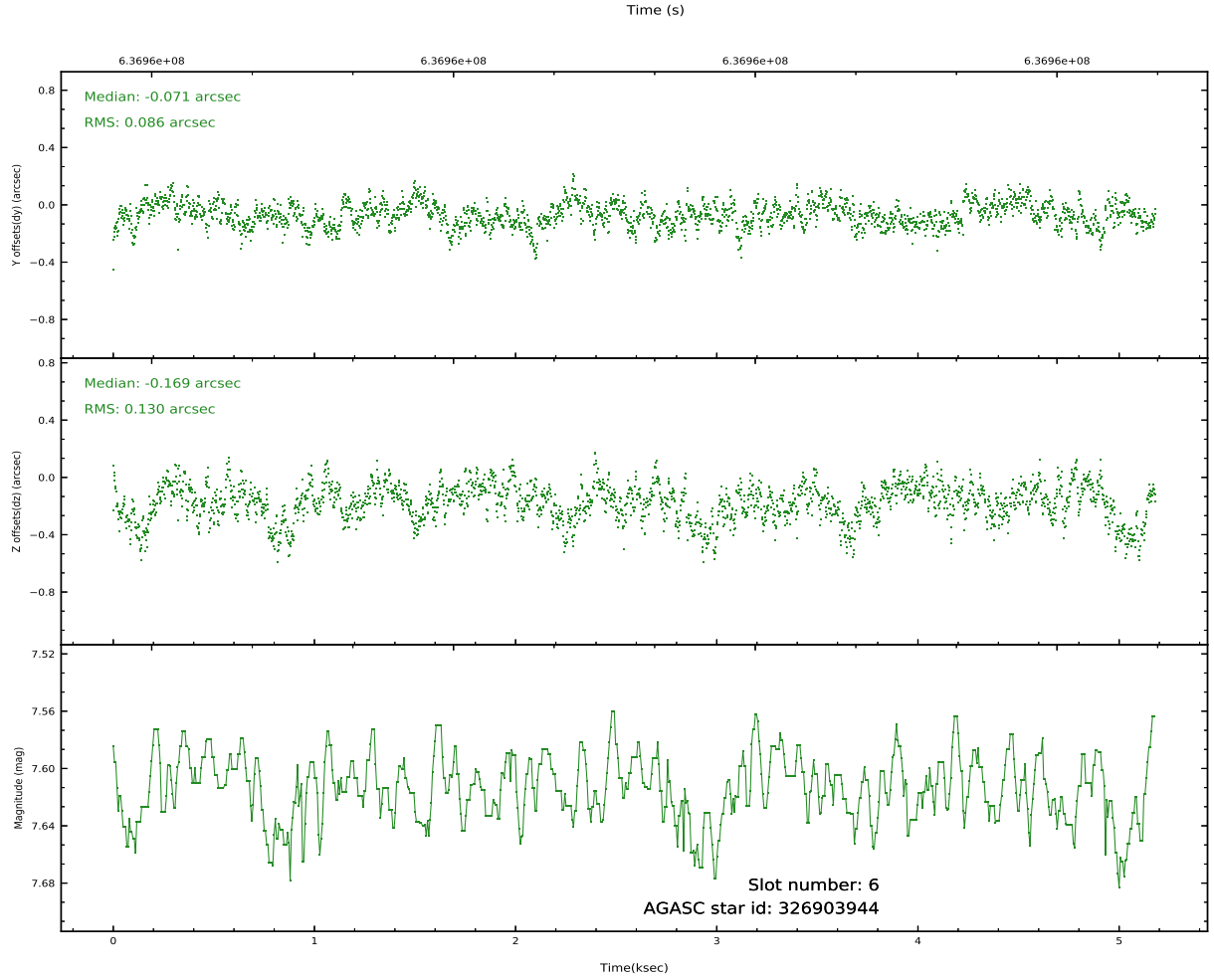
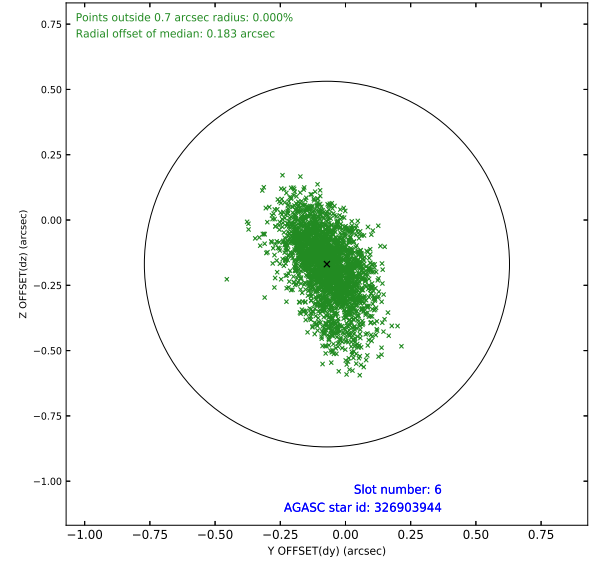
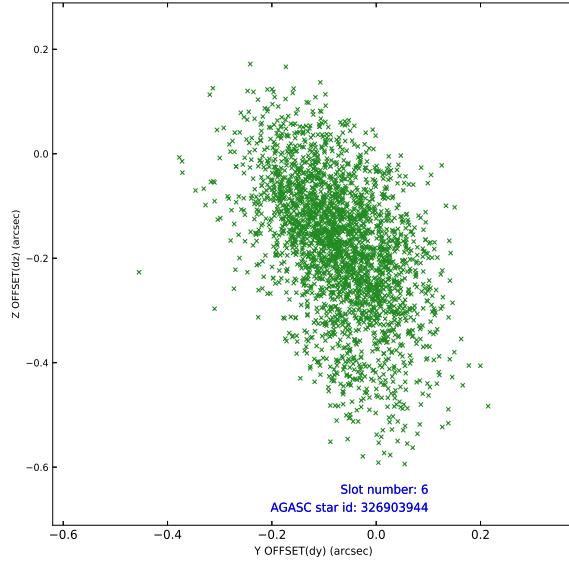
2.4.2 Slot 4



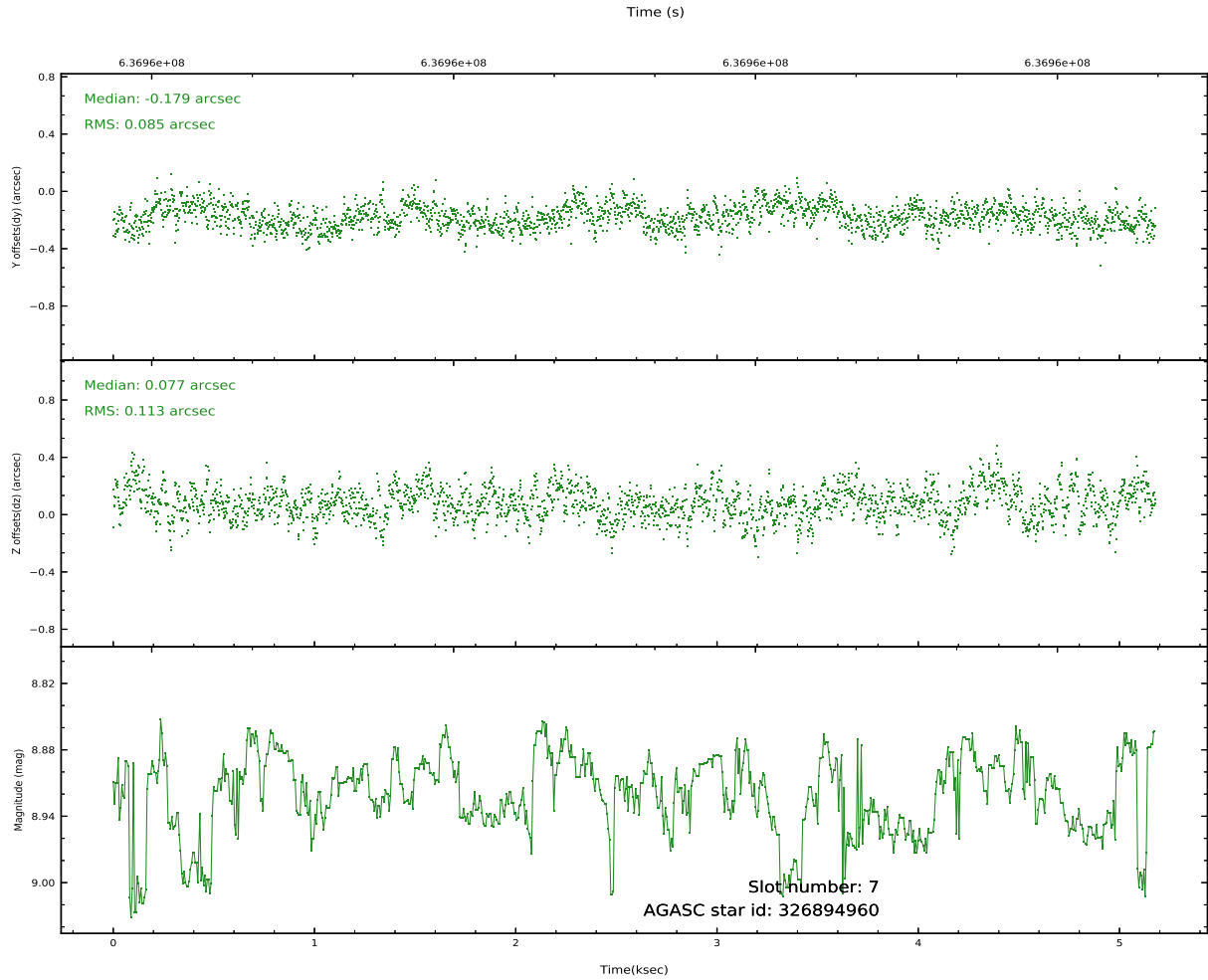
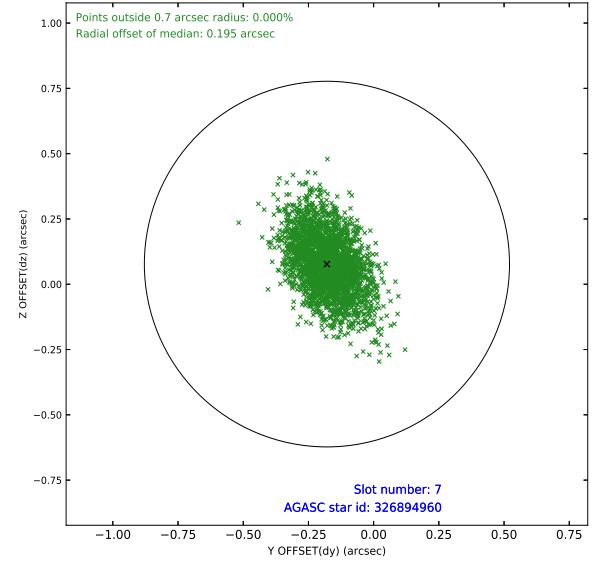
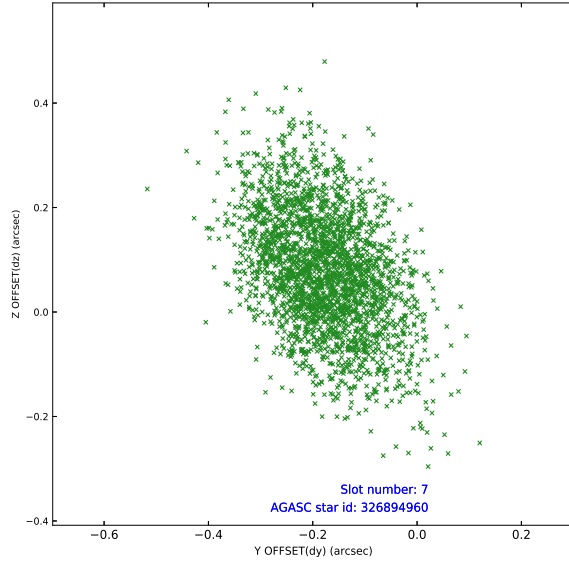
2.4.3 Slot 5



2.4.4 Slot 6

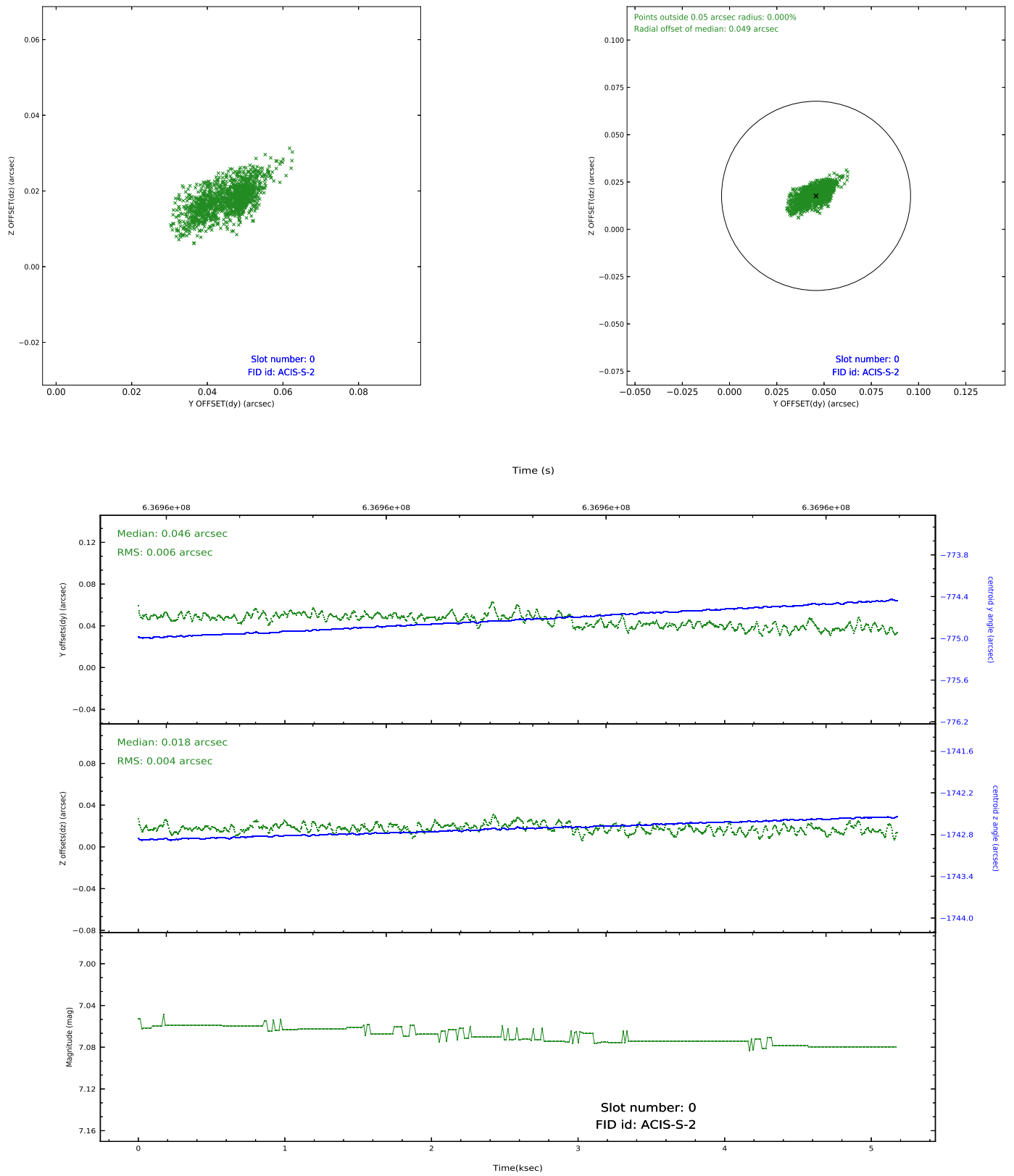


2.4.5 Slot 7

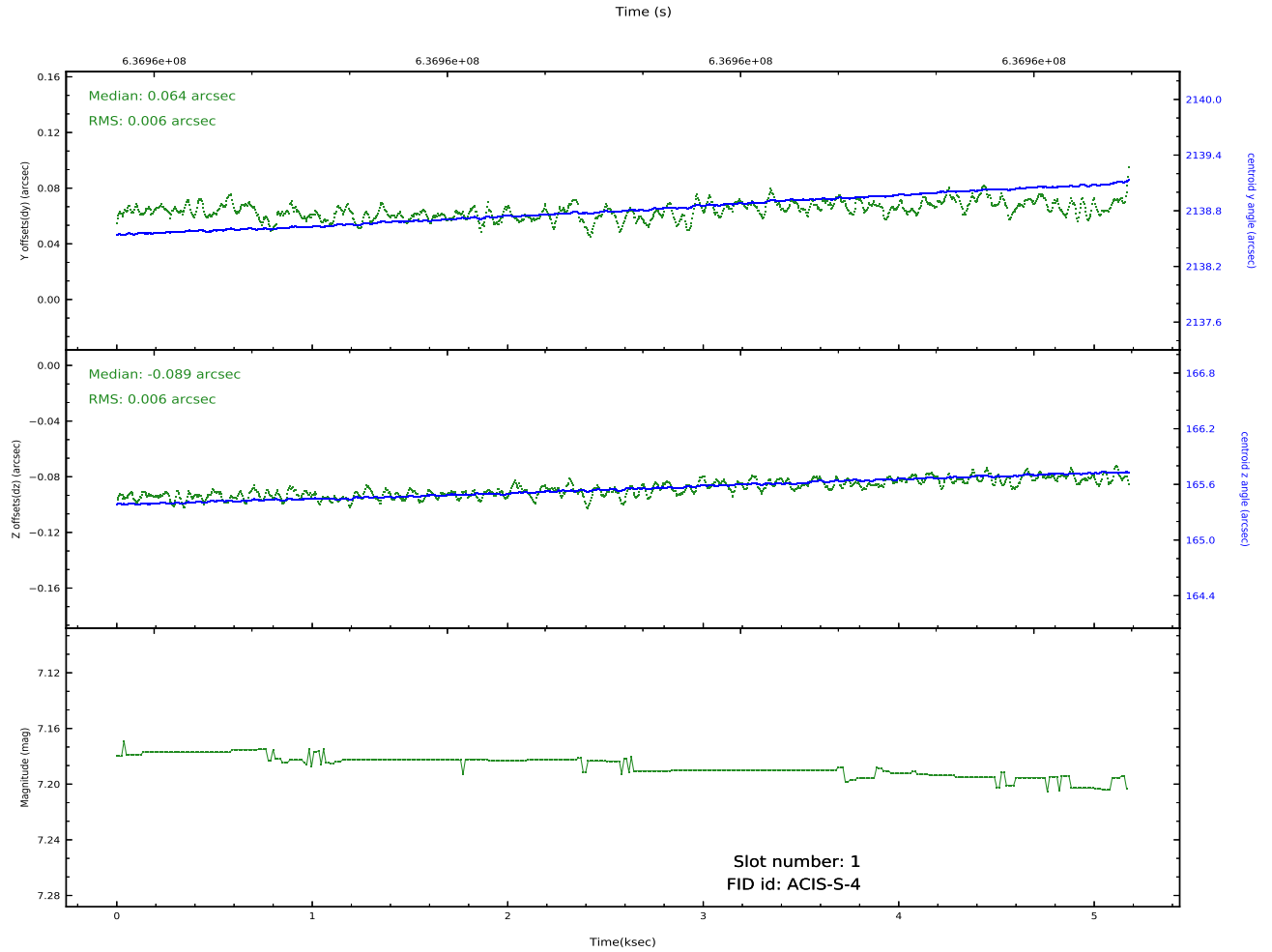
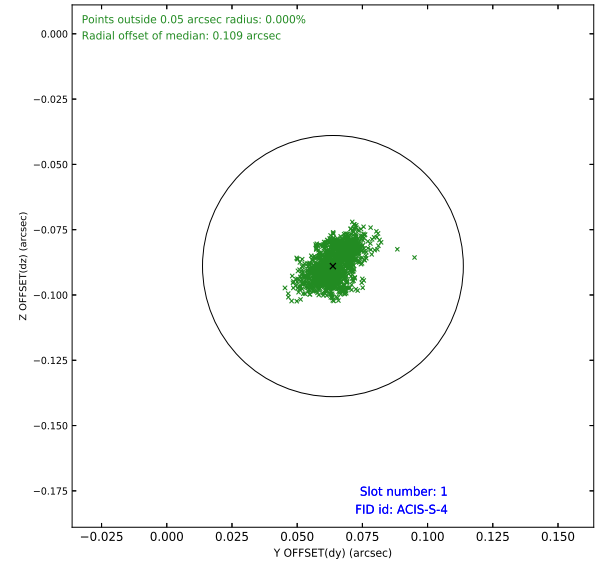
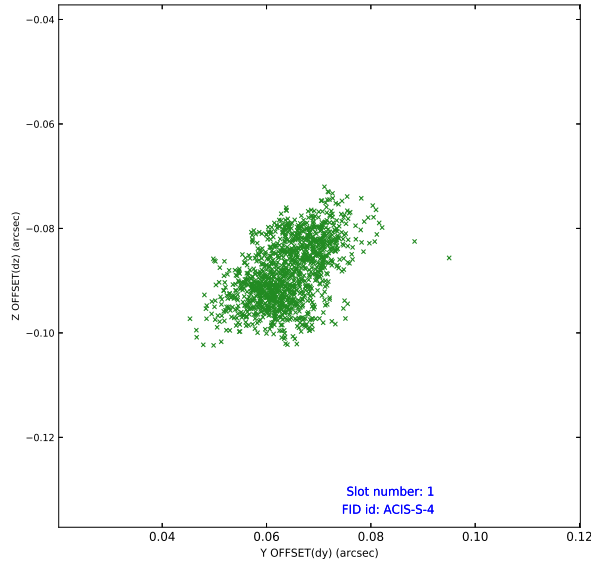


2.5 FID Slots

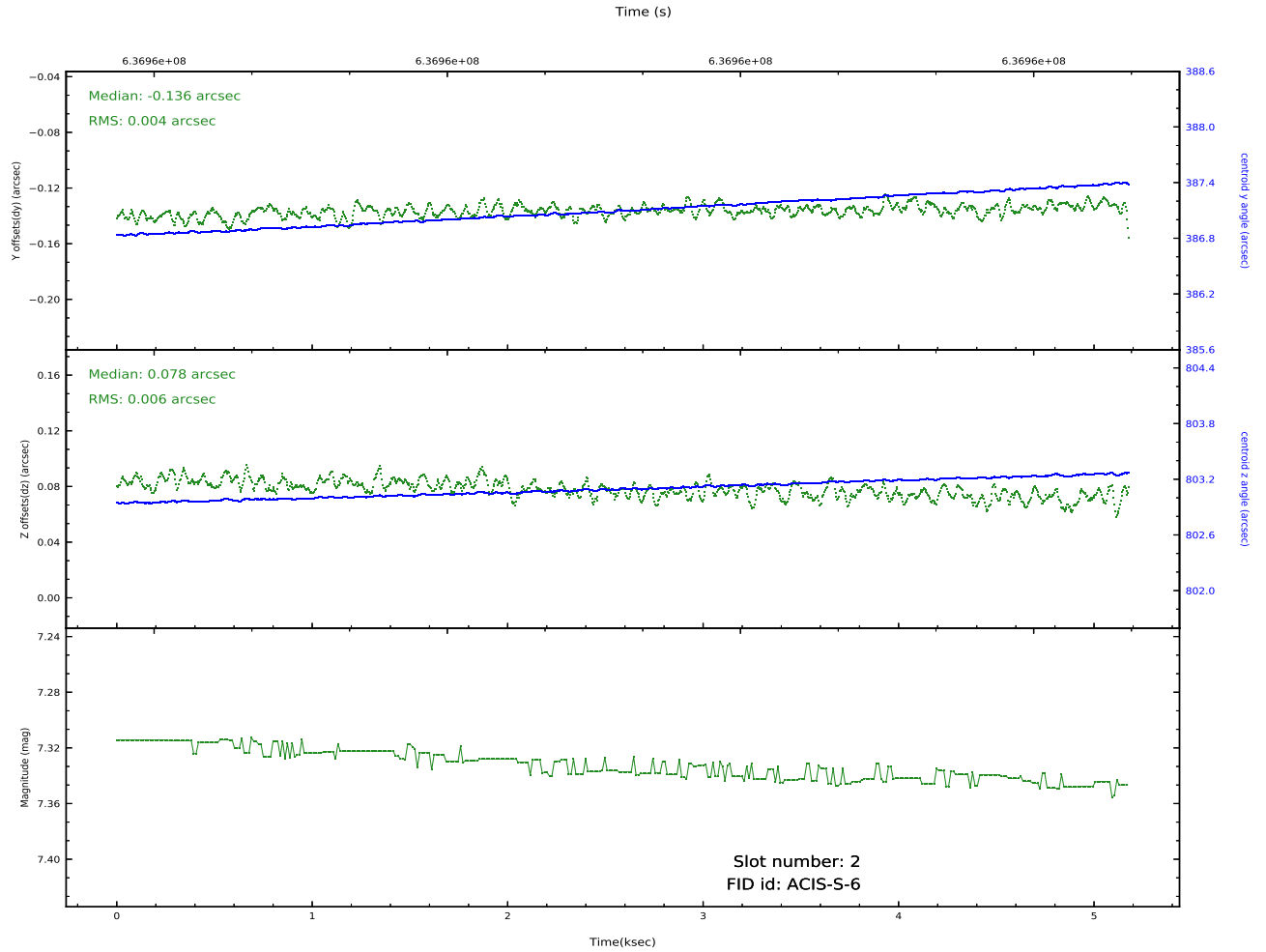
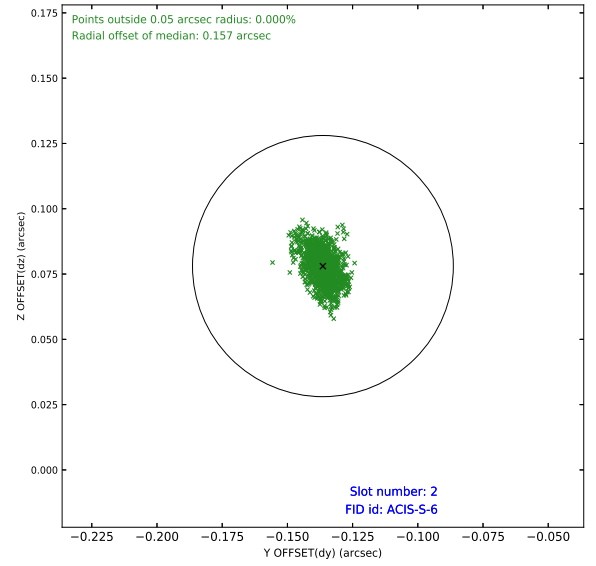
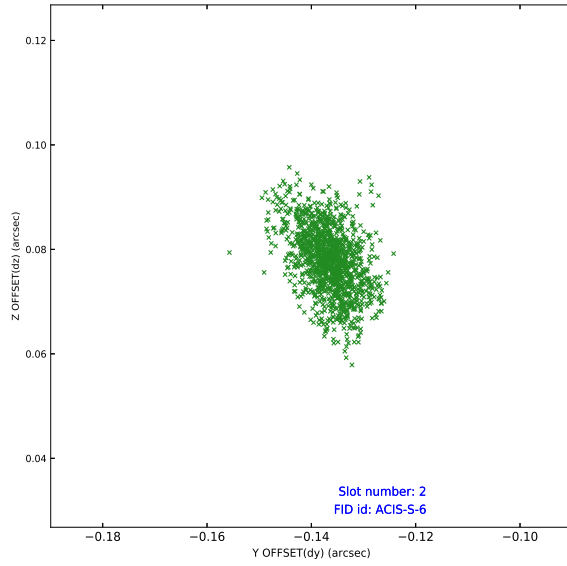
2.5.1 Slot 0



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)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0530000389814

A.2 Comments

One optional chip was dropped.