

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5181 - L2 Version 4
Chandra X-Ray Center

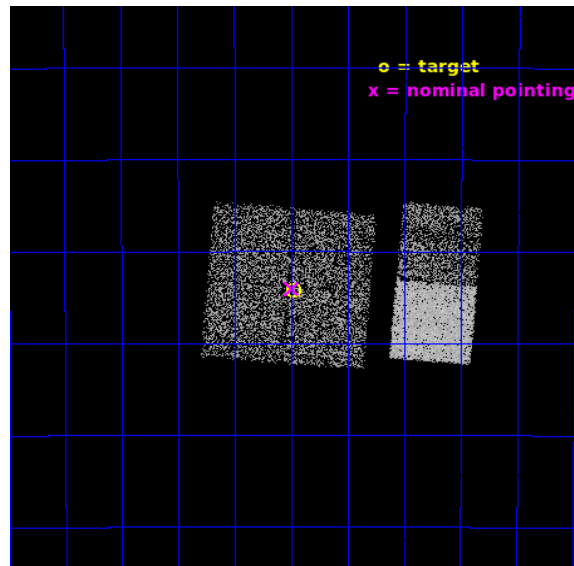
L2 Processing Date : Sep 24 2020

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1 Front

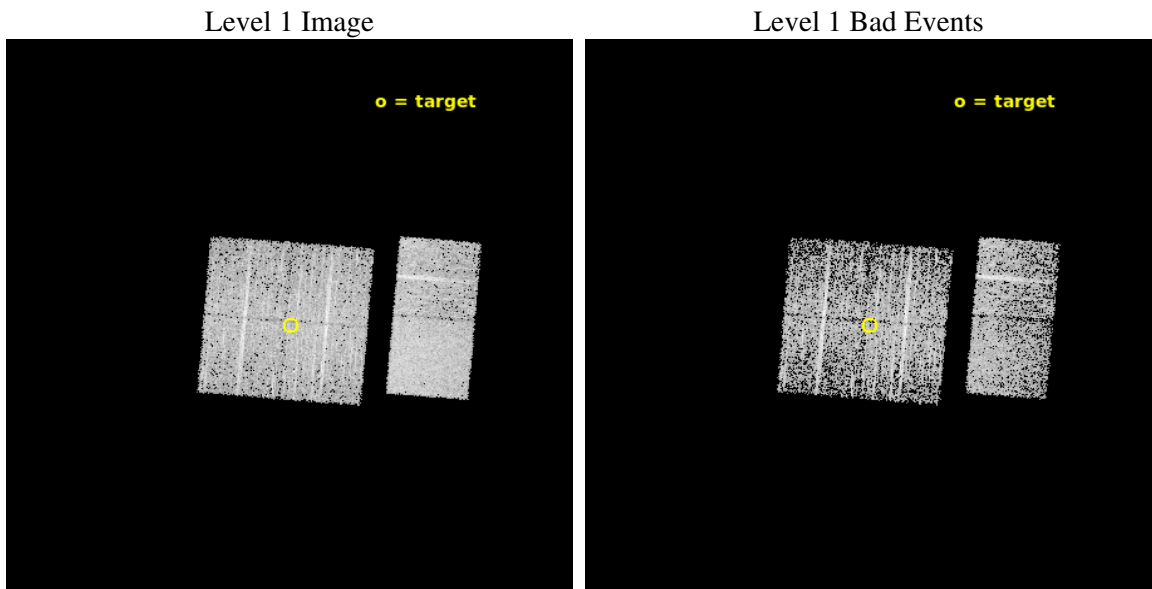
seq_num	200289	Sequence number
obs_id	5181	Observation id
title	Alternate - Search for beta Pic analogs extension	Proposal title
observer	Gordon Garmire	Principal investigator
object	alpha CrA	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.367917	Observer's specified target RA [deg]
dec_targ	-37.904167	Observer's specified target Dec [deg]
ra_nom	287.37333850613	Nominal RA [deg]
dec_nom	-37.901234598866	Nominal Dec [deg]
roll_nom	94.727628739954	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3183.9999881387	Sum of GTIs [s]
livetime	3143.6822631142	Livetime [s]
ontime0	3183.9999881387	Sum of GTIs [s]
ontime1	3183.9999881387	Sum of GTIs [s]
ontime2	3183.9999881387	Sum of GTIs [s]
ontime3	3183.9999881387	Sum of GTIs [s]
ontime6	3183.9999881387	Sum of GTIs [s]
ontime7	3183.9999881387	Sum of GTIs [s]
l2events	24547	Number of level 2 events



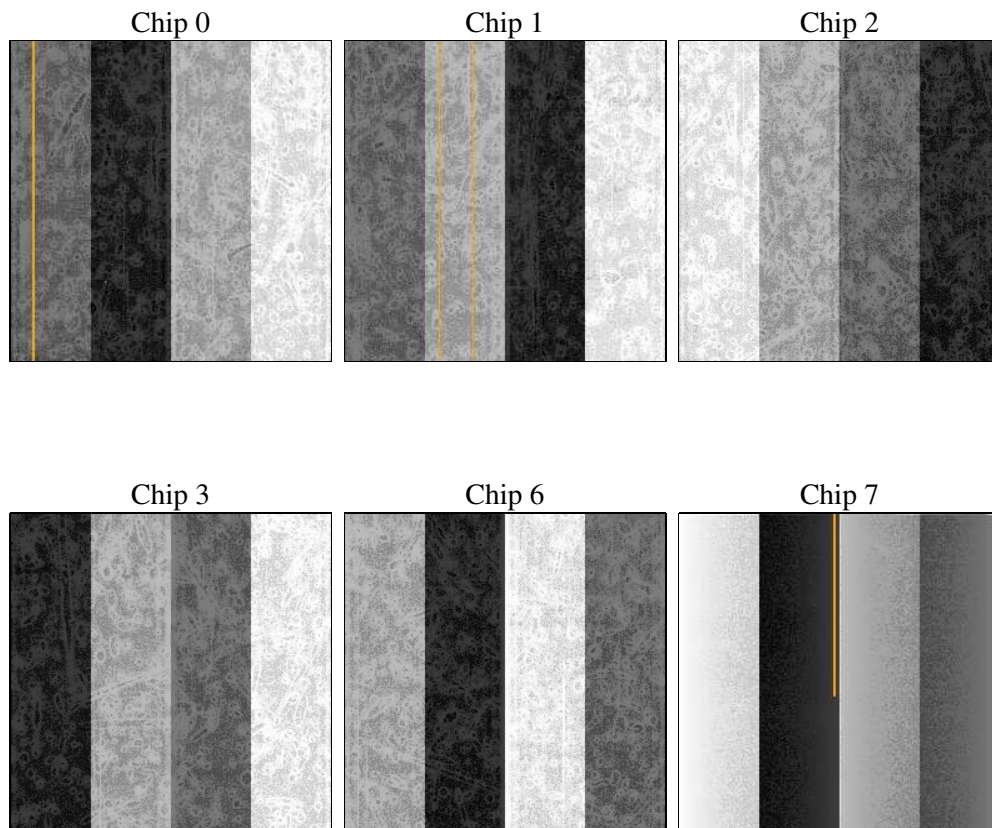
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	3183.9999881387	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	3183.9999881387	Sum of GTIs [s]
date	2020-09-25T02:01:47	Date and time of file creation	ontime1	3183.9999881387	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	3183.9999881387	Sum of GTIs [s]
			ontime3	3183.9999881387	Sum of GTIs [s]
			ontime6	3183.9999881387	Sum of GTIs [s]
			ontime7	3183.9999881387	Sum of GTIs [s]
			l1events	155250	Number of level 1 events

2.1.4 Events

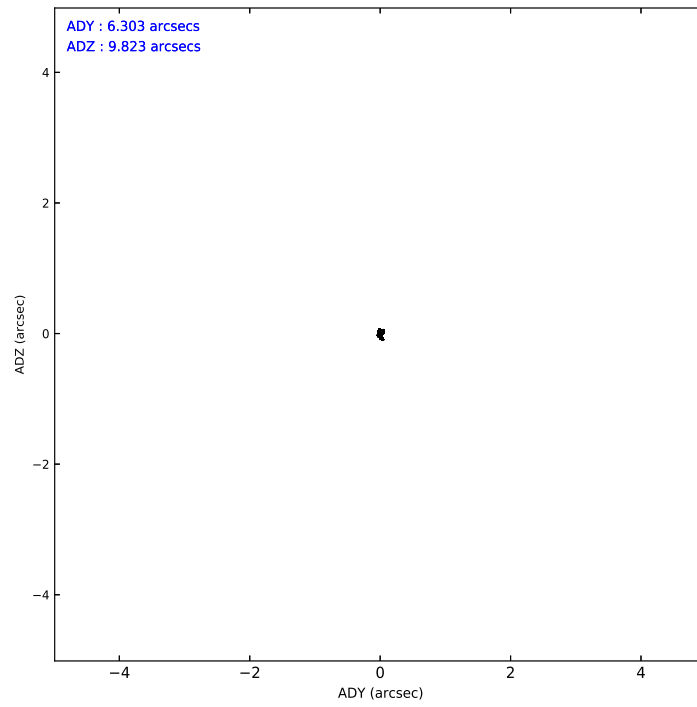
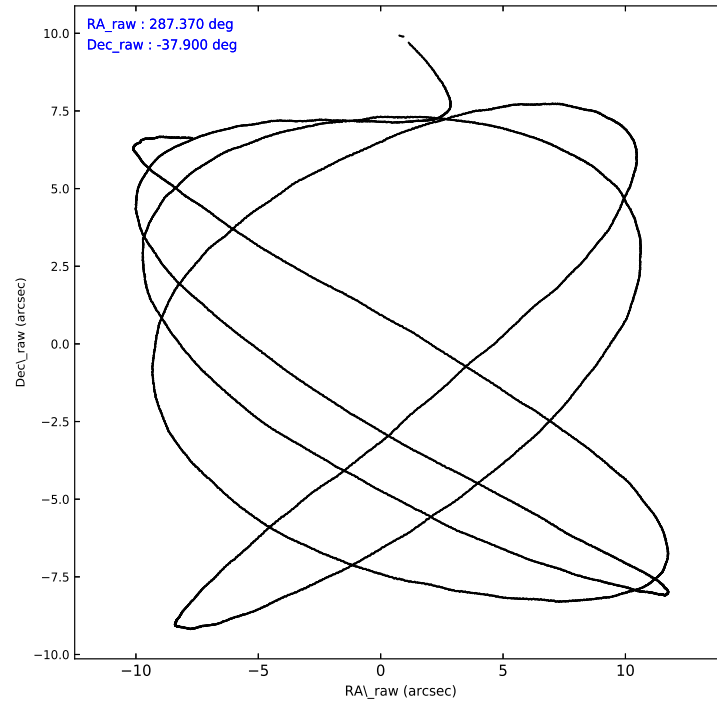
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	21944	23655	24661	26191	25253	33546	grade 0 events	1448	1324	1443	1385	1289	1209
rejected events	18958	20686	21854	23325	22466	20962		6%	5%	5%	5%	5%	3%
rejected %	86%	87%	88%	89%	88%	62%	grade 1 events	13	10	14	19	8	23
								0%	0%	0%	0%	0%	0%
							grade 2 events	724	769	650	611	691	2893
								3%	3%	2%	2%	2%	8%
							grade 3 events	308	274	267	302	257	1325
								1%	1%	1%	1%	1%	3%
							grade 4 events	278	300	264	307	271	1262
								1%	1%	1%	1%	1%	3%
							grade 5 events	955	1043	987	1111	1136	3177
								4%	4%	4%	4%	4%	9%
							grade 6 events	582	647	509	563	600	7256
								2%	2%	2%	2%	2%	21%
							grade 7 events	17636	19288	20527	21893	21001	16401
								80%	81%	83%	83%	83%	48%

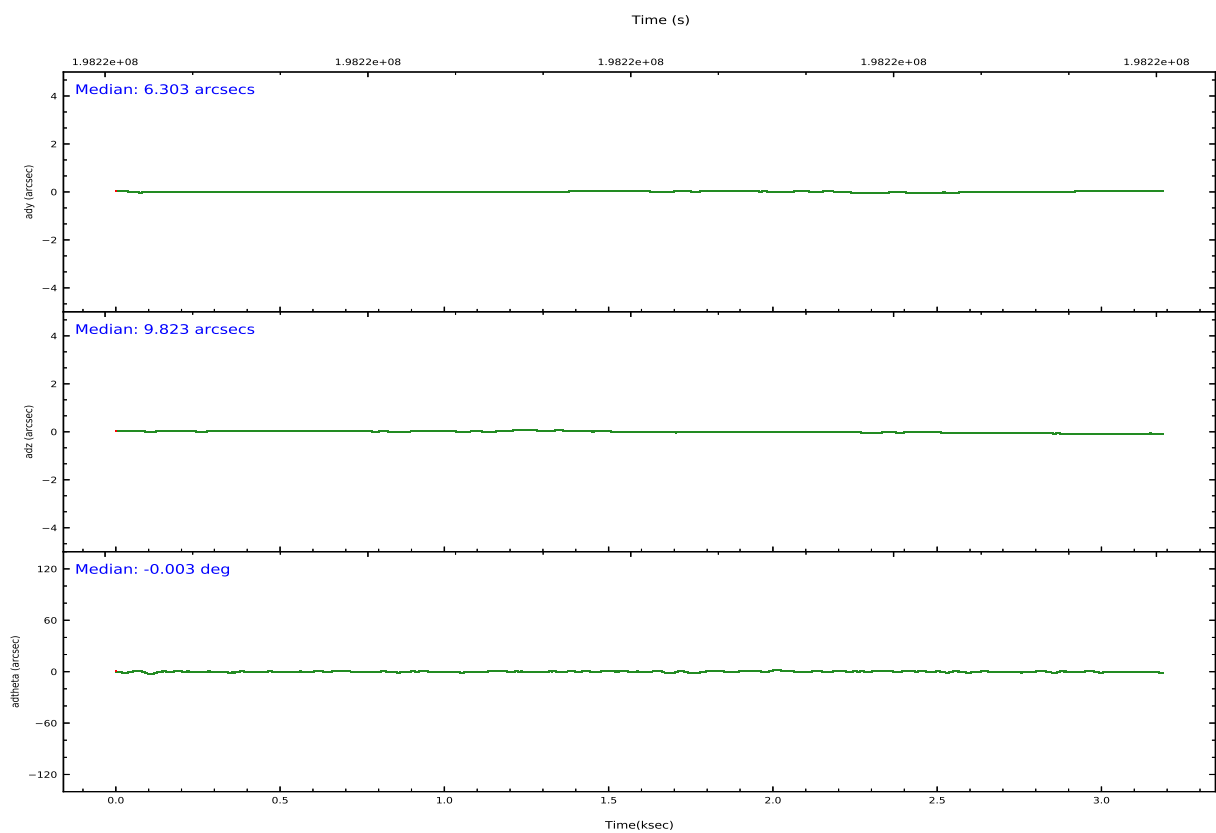
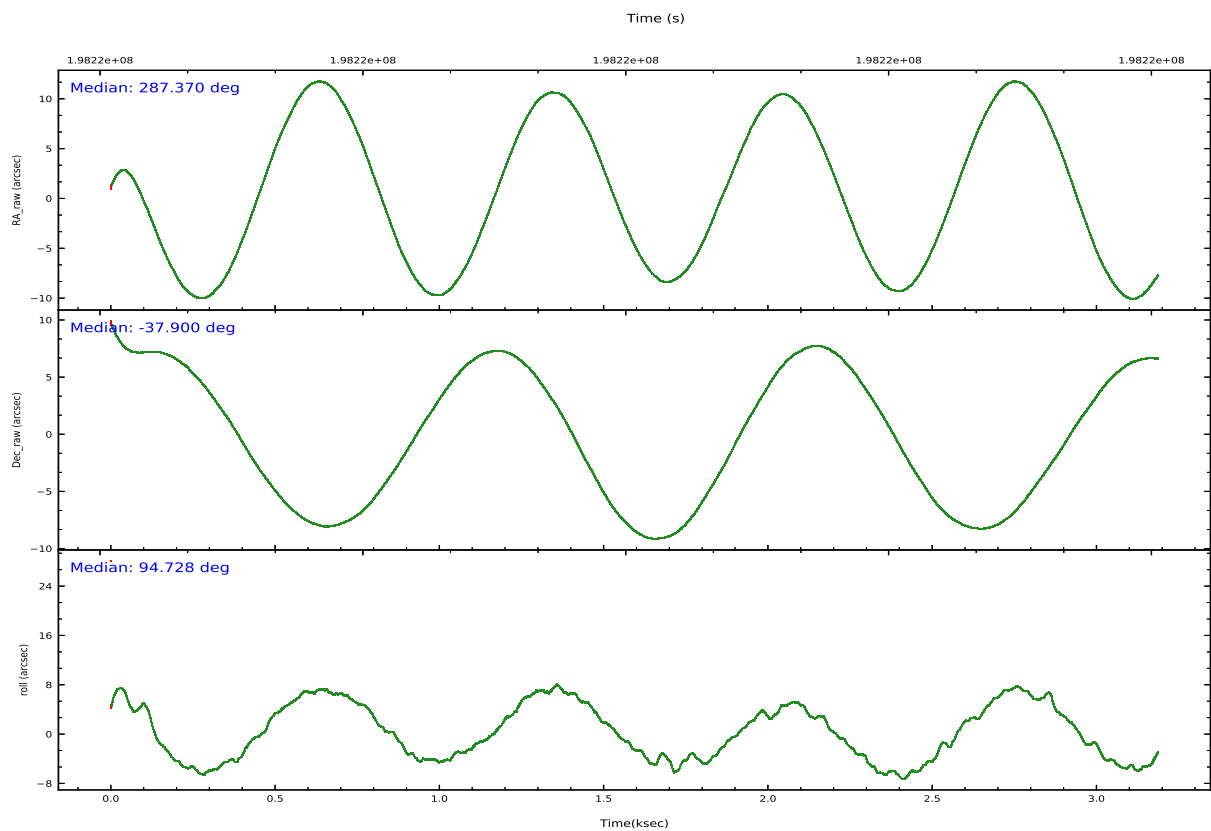
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	287.389645	287.37333850613
[deg] Pointing Dec	-37.922202	-37.901234598866
[deg] Pointing Roll	94.536904	94.727628739954
[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)	198218622.184000	198215988.1506
Observation start date	2004-04-13T04:42:38	2004-04-13T03:59:48
[s] Observation end time (MET)	198221622.184000	198222711.6384
Observation end date	2004-04-13T05:32:38	2004-04-13T05:51:51
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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	3.2

2.3 Aspect



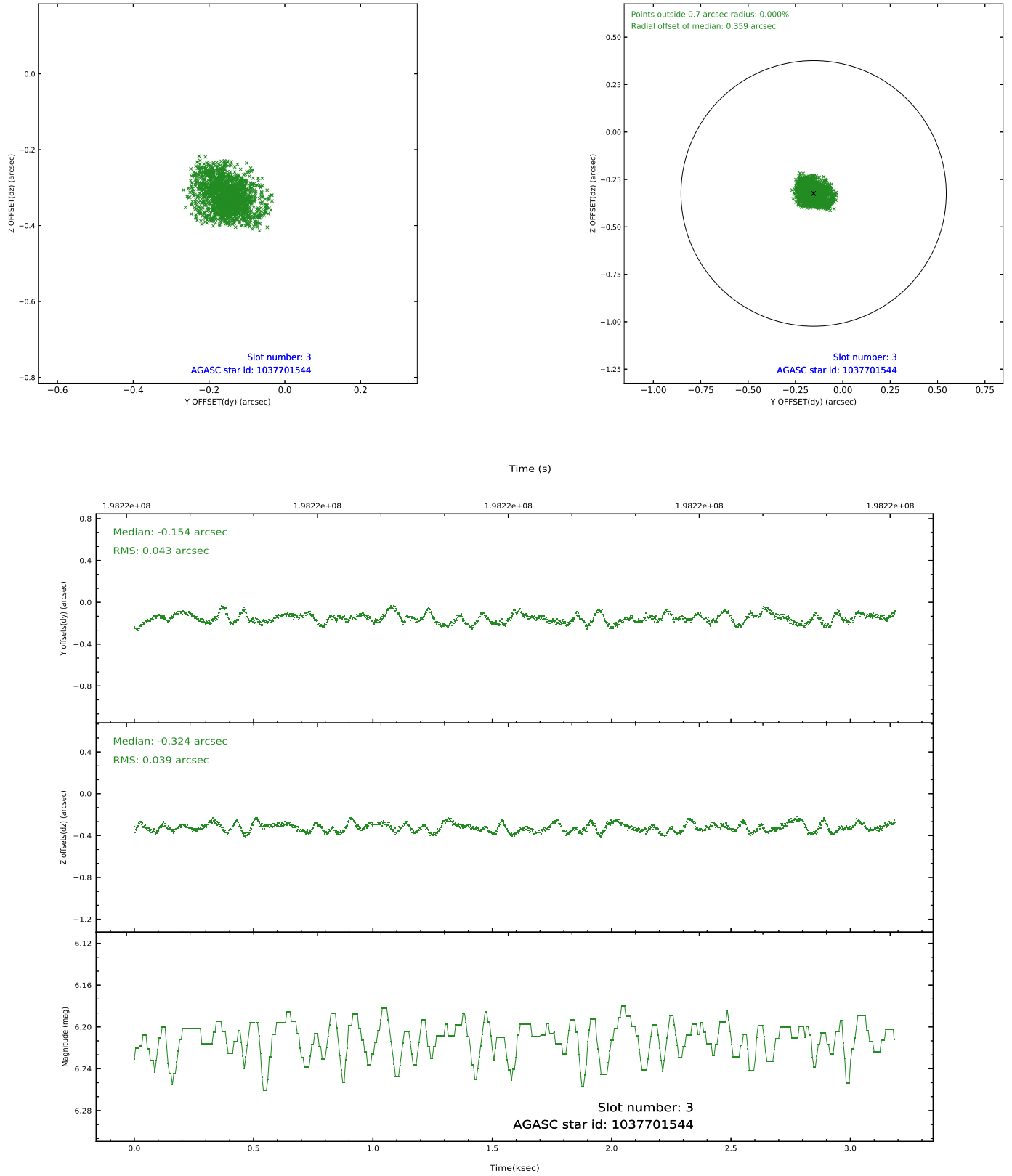


Slot Statistics

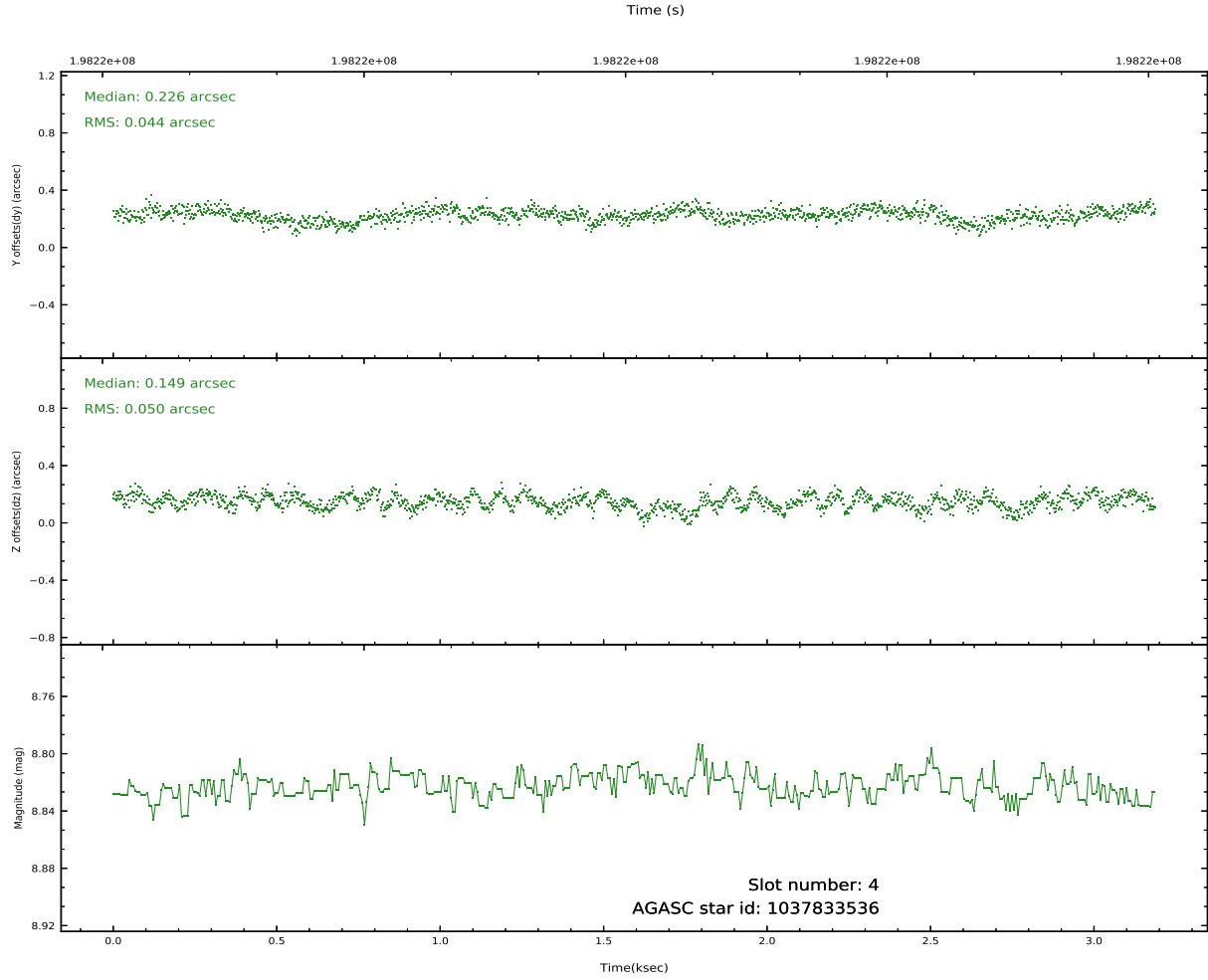
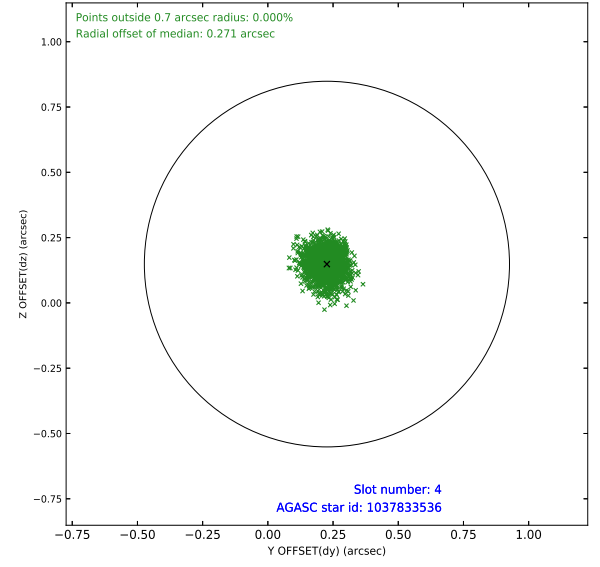
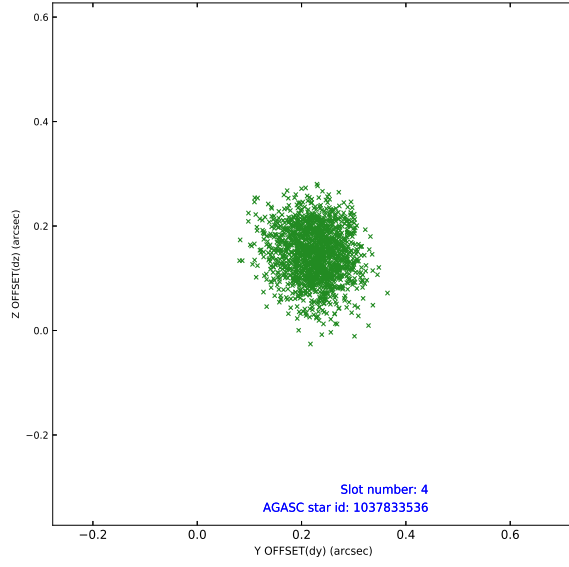
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	778	1.000	-0.029	0.008	0.008	0.016	0.000000	0.000000	933.38	-833
1	FID		ACIS-I-4	7.18	778	1.000	0.122	0.032	0.007	0.014	0.000000	0.000000	2154.66	1065
2	FID		ACIS-I-5	7.22	778	1.000	-0.191	0.031	0.007	0.013	0.000000	0.000000	-1812.24	1065
3	GUIDE	used	1037701544	6.21	1556	1.000	-0.154	-0.324	0.063	0.100	286.718603	-37.810655	542.24	1871
4	GUIDE	used	1037833536	8.82	1556	1.000	0.226	0.149	0.070	0.115	287.675522	-38.433308	-1898.84	-657
5	GUIDE	used	1037834448	7.53	1556	1.000	-0.122	0.257	0.075	0.109	288.143933	-37.524035	1248.59	-2259
6	GUIDE	used	1037835640	9.00	1554	1.000	0.117	0.149	0.074	0.122	287.861941	-38.242921	-1259.13	-1241
7	GUIDE	used	1037697328	9.53	1553	1.000	-0.068	-0.232	0.126	0.195	286.775739	-37.836556	438.31	1714

2.4 Star Slots

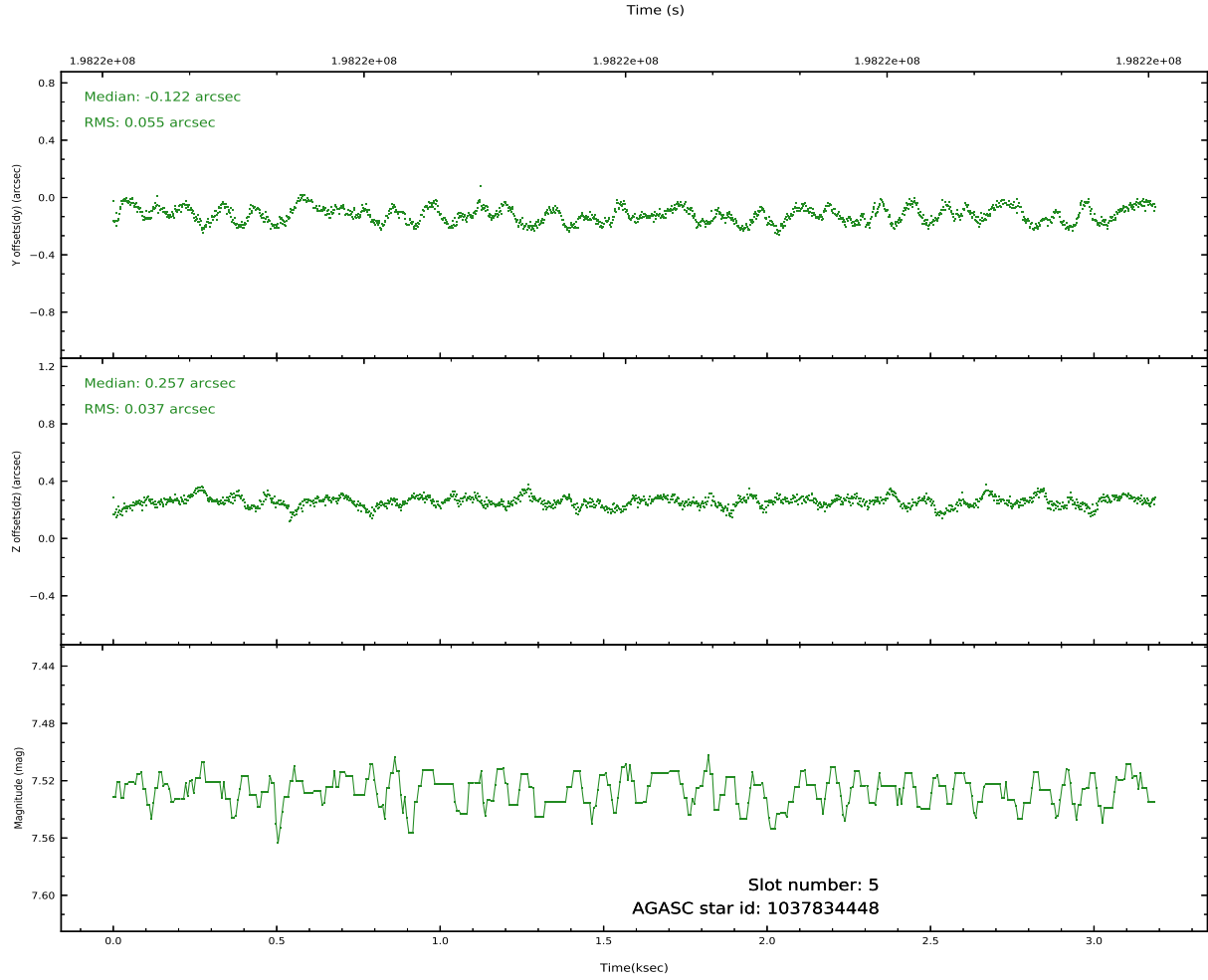
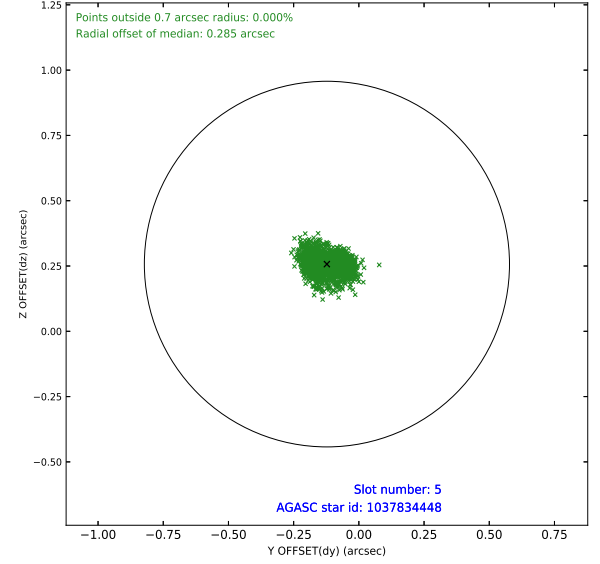
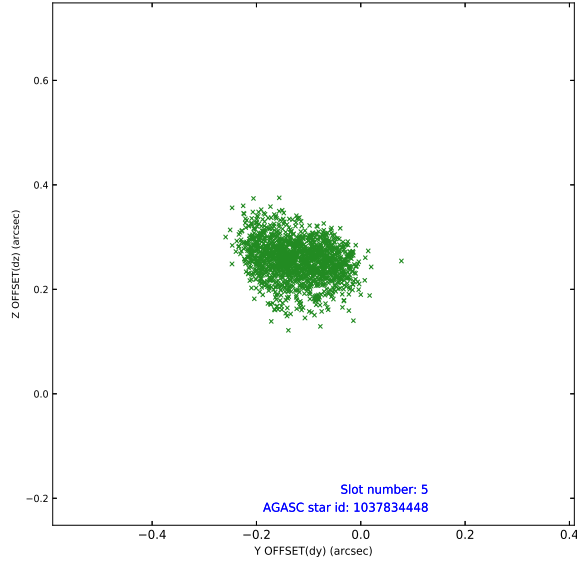
2.4.1 Slot 3



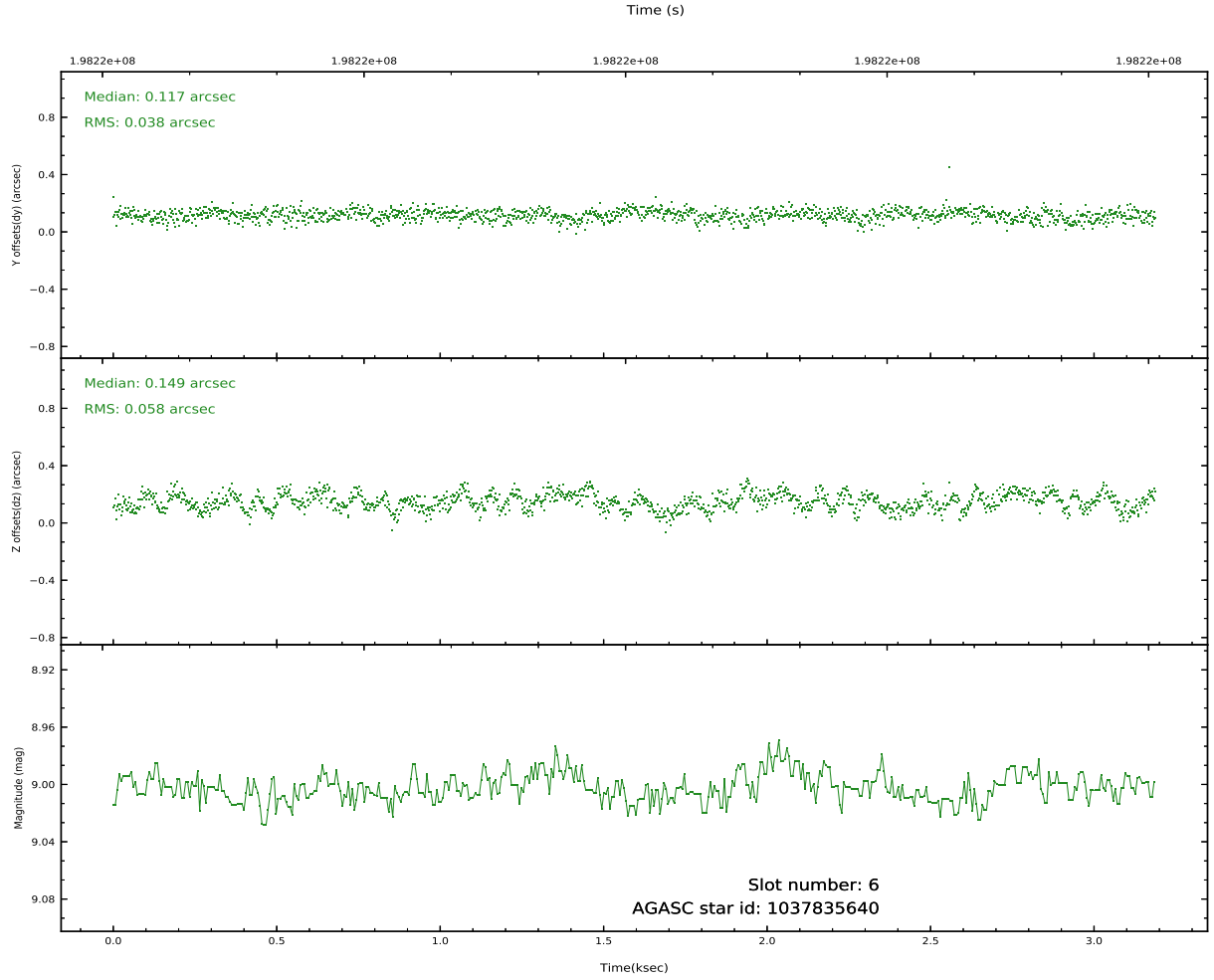
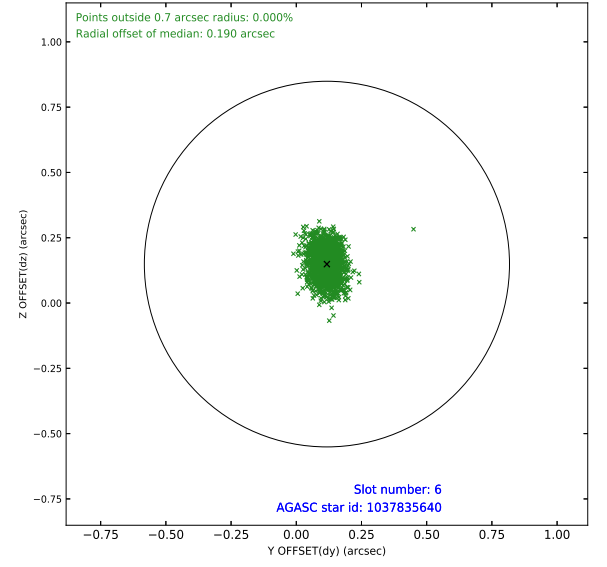
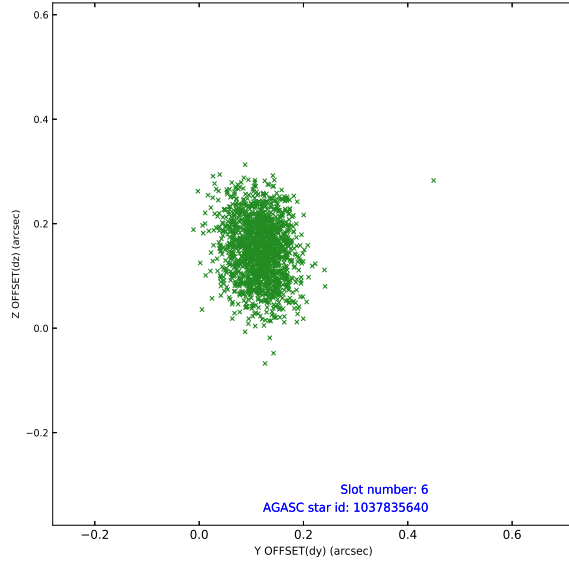
2.4.2 Slot 4



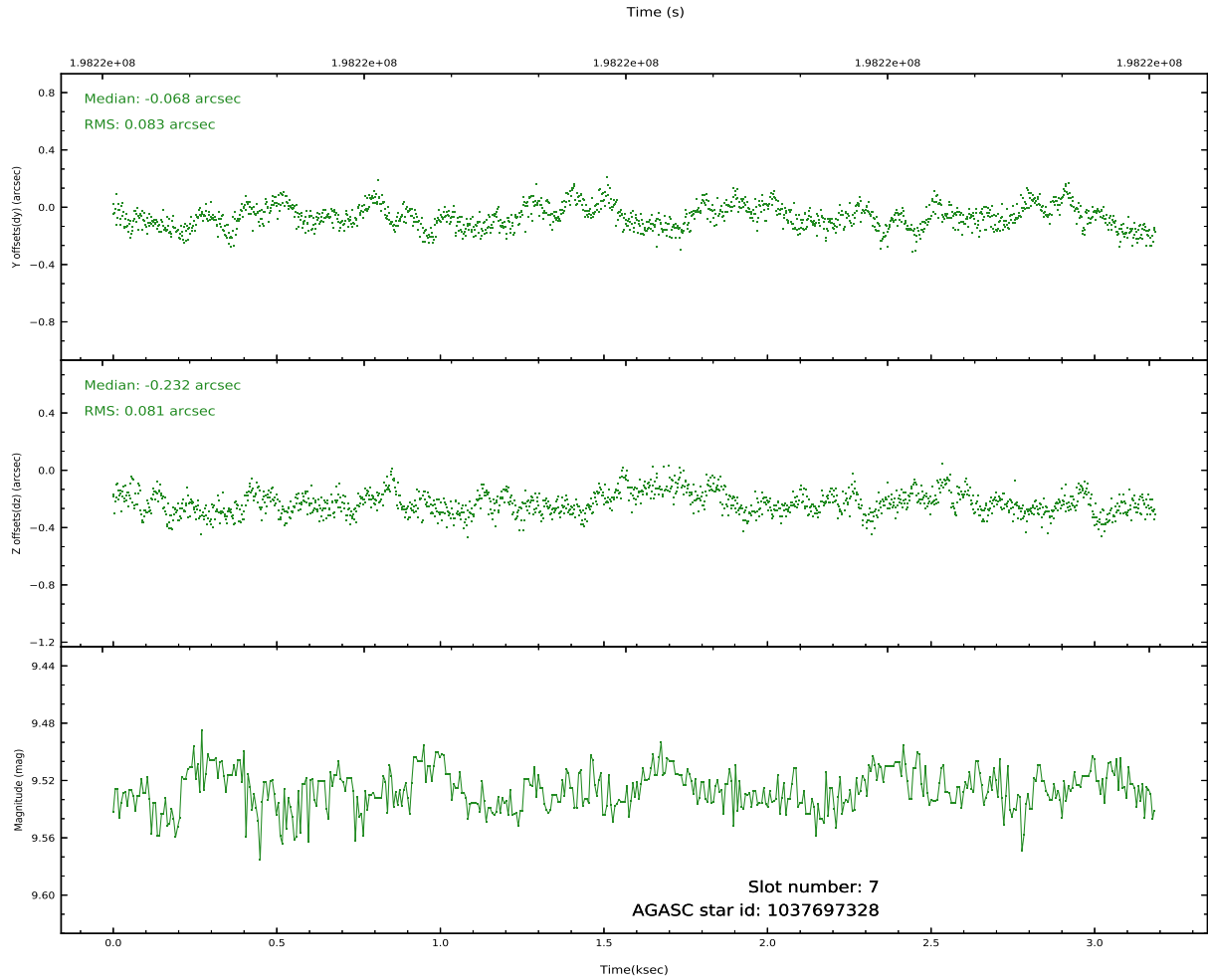
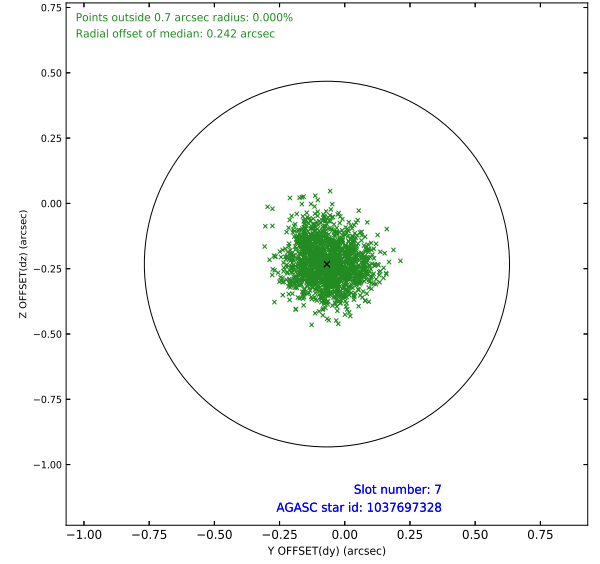
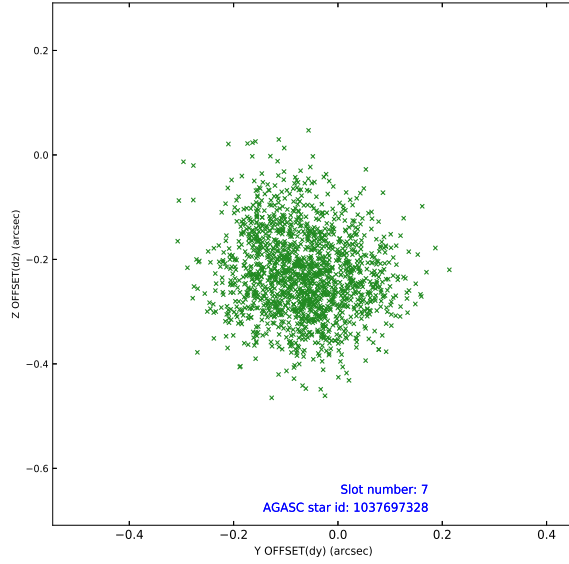
2.4.3 Slot 5



2.4.4 Slot 6

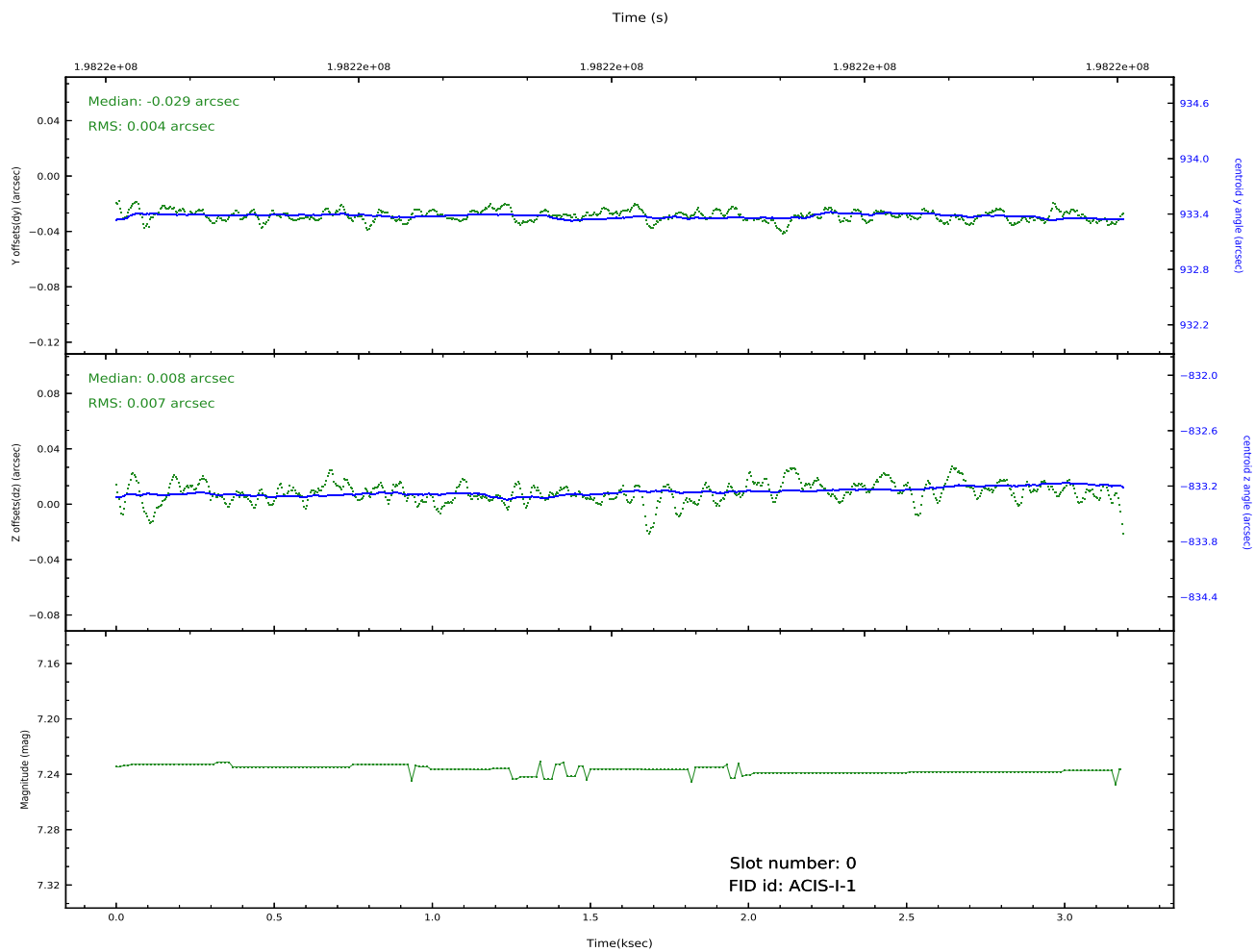
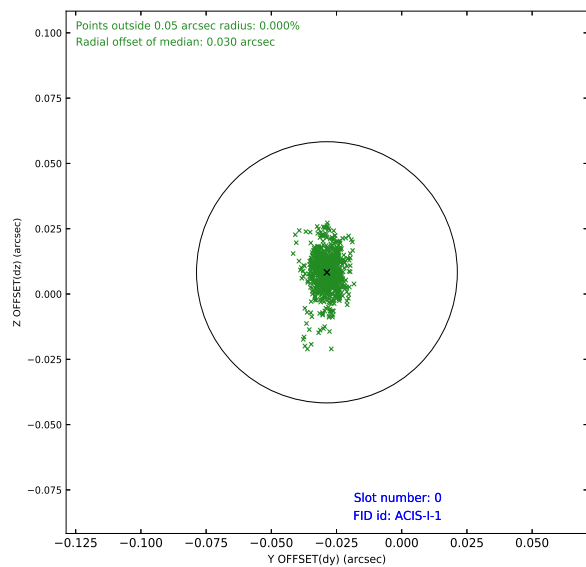
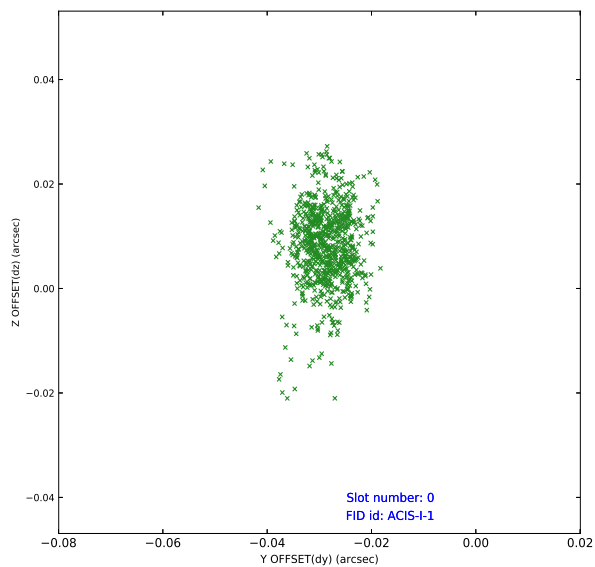


2.4.5 Slot 7

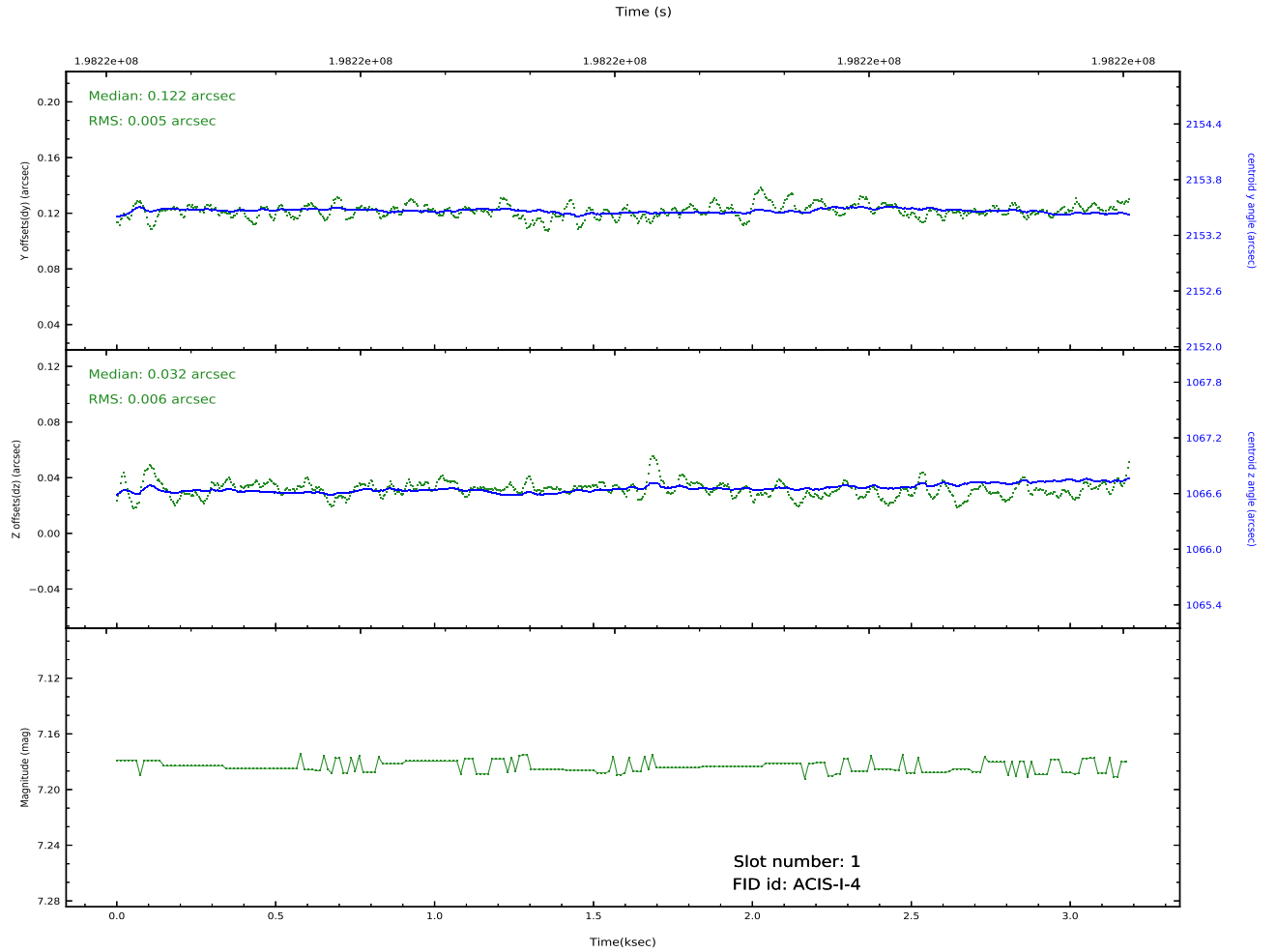
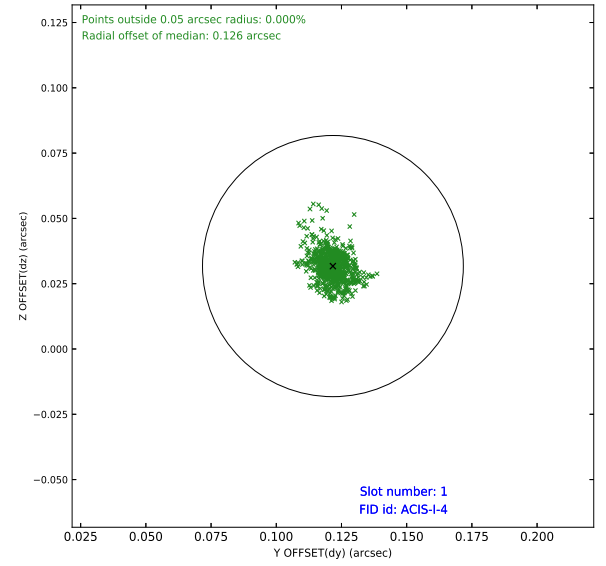
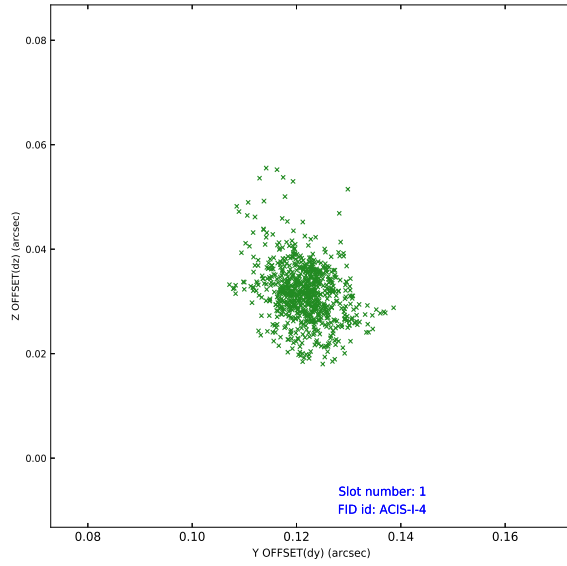


2.5 FID Slots

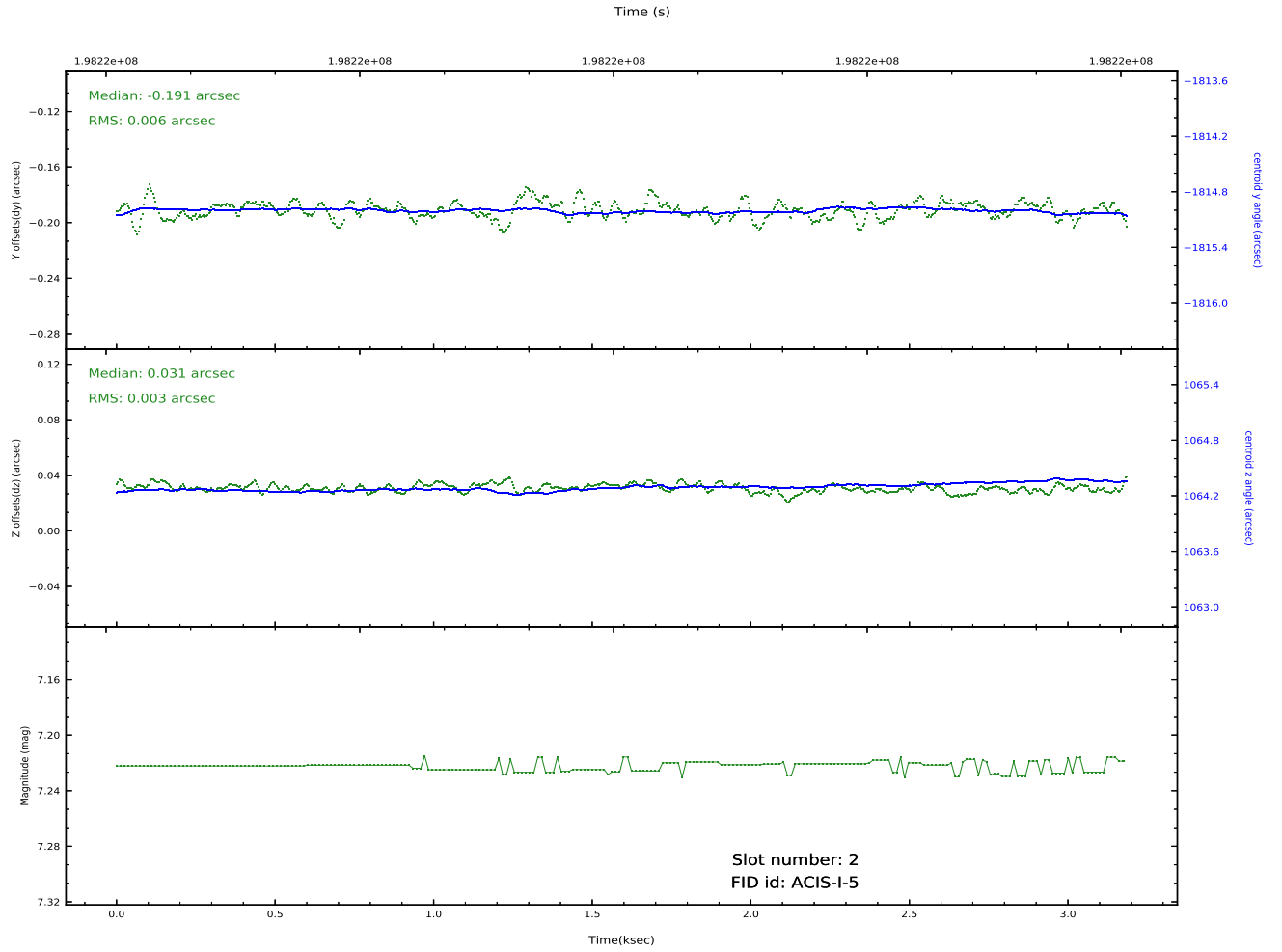
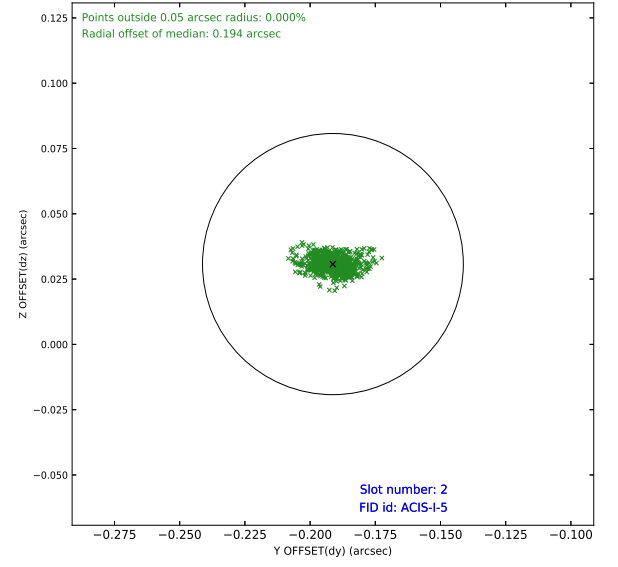
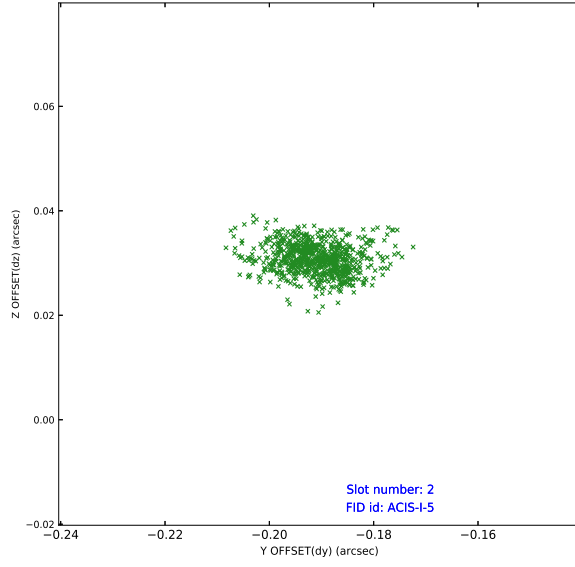
2.5.1 Slot 0



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)	2020.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.183

A.2 Comments