

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5389 - L2 Version 4
Chandra X-Ray Center

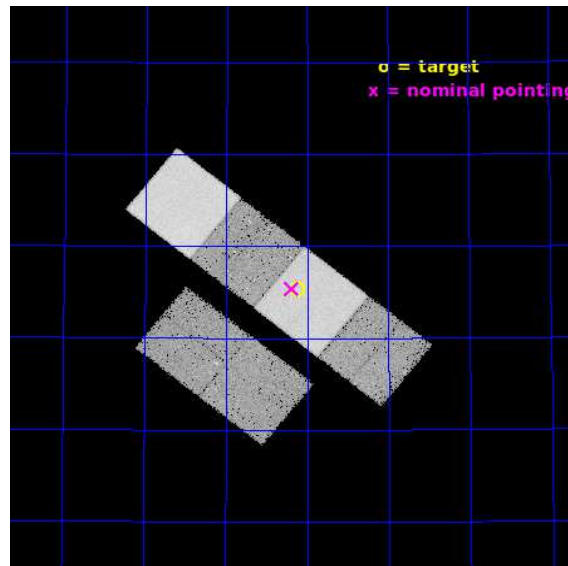
L2 Processing Date : Oct 7 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

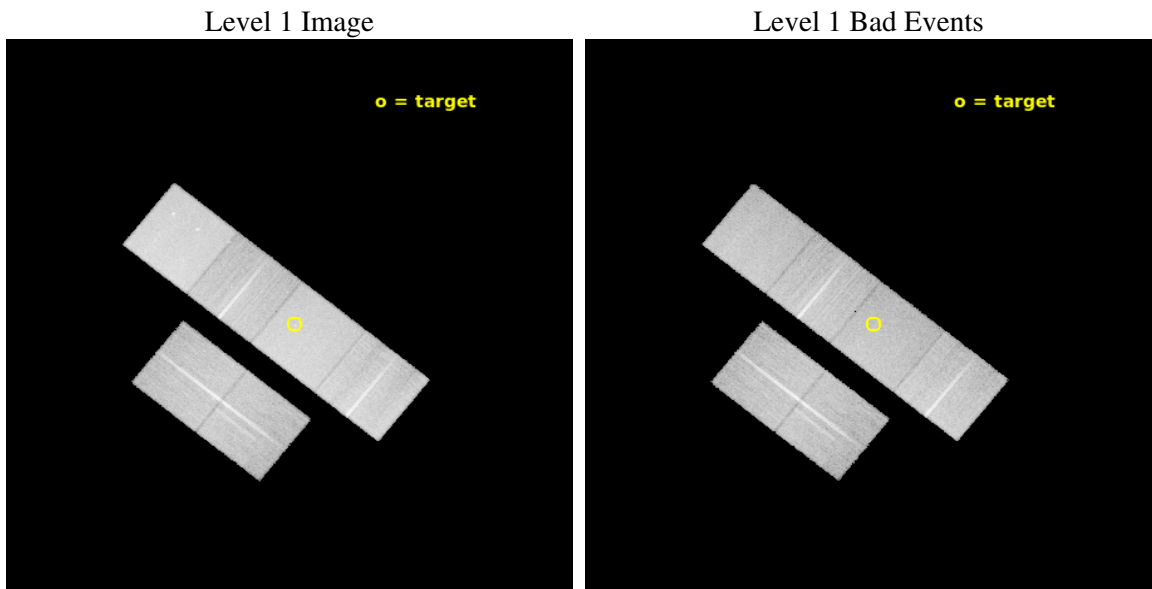
seq_num	200324	Sequence number
obs_id	5389	Observation id
title	The puzzle of X-ray emission from magnetic stars without convective envelopes	Proposal title
observer	J rgen Schmitt	Principal investigator
object	HD 215441	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	341.03125	Observer's specified target RA [deg]
dec_targ	55.589222	Observer's specified target Dec [deg]
ra_nom	341.04699923535	Nominal RA [deg]
dec_nom	55.590010685641	Nominal Dec [deg]
roll_nom	38.724230787439	Nominal Roll [deg]
revision	4	Processing version of data
ontime	20499.199923635	Sum of GTIs [s]
livetime	20239.626711065	Livetime [s]
ontime2	20499.199923635	Sum of GTIs [s]
ontime3	20499.199923635	Sum of GTIs [s]
ontime5	20499.199923635	Sum of GTIs [s]
ontime6	20499.199923635	Sum of GTIs [s]
ontime7	20499.199923635	Sum of GTIs [s]
ontime8	20499.199923635	Sum of GTIs [s]
l2events	253482	Number of level 2 events



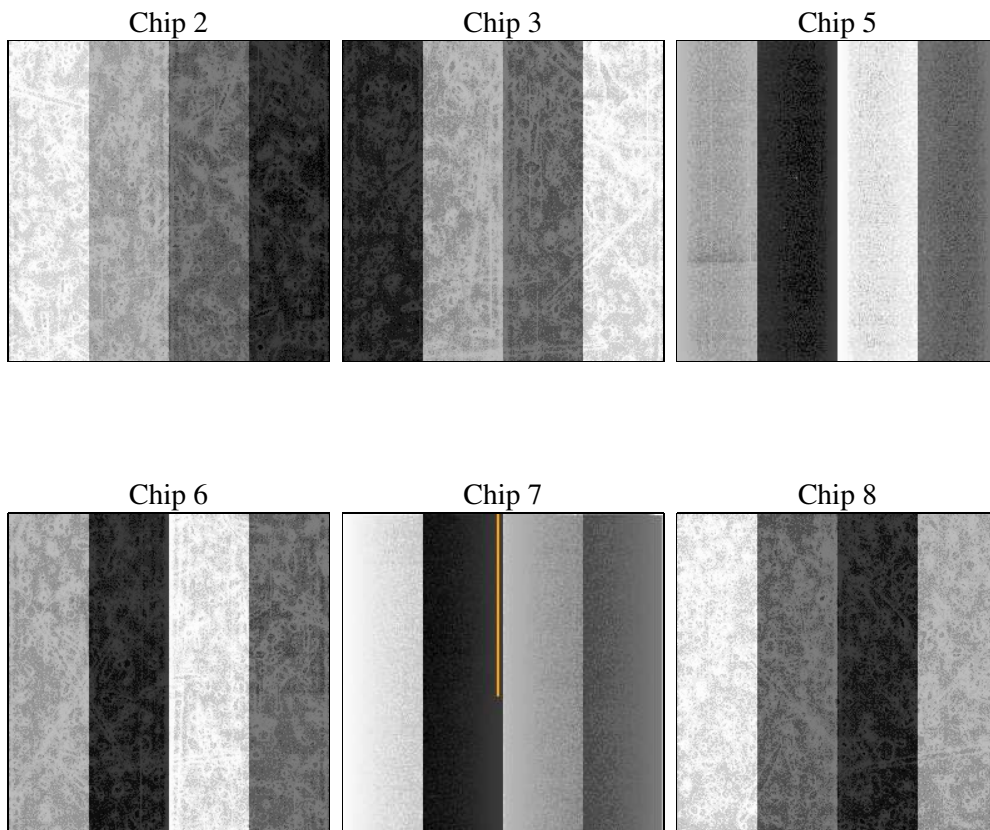
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20375.437000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	20499.199923635	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	20499.199923635	Sum of GTIs [s]
date	2020-10-07T16:21:47	Date and time of file creation	ontime3	20499.199923635	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	20499.199923635	Sum of GTIs [s]
			ontime6	20499.199923635	Sum of GTIs [s]
			ontime7	20499.199923635	Sum of GTIs [s]
			ontime8	20499.199923635	Sum of GTIs [s]
			l1events	1109070	Number of level 1 events

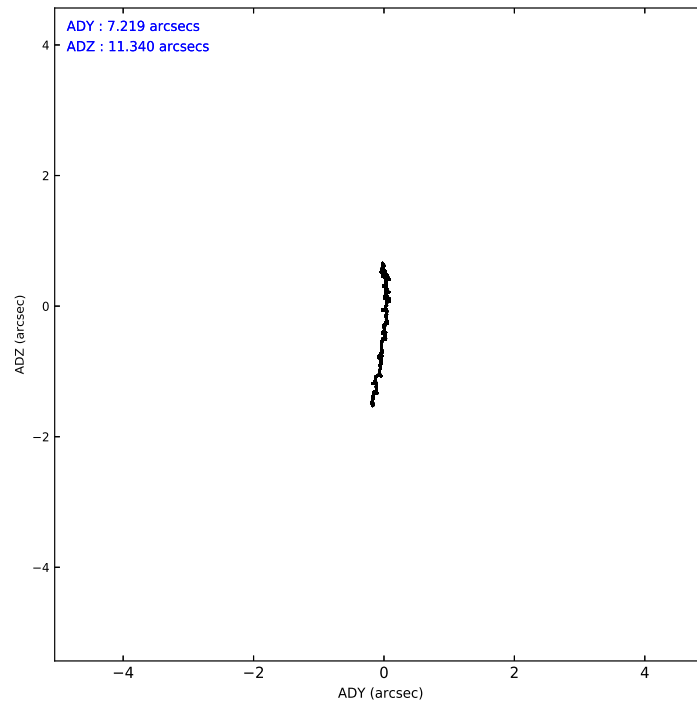
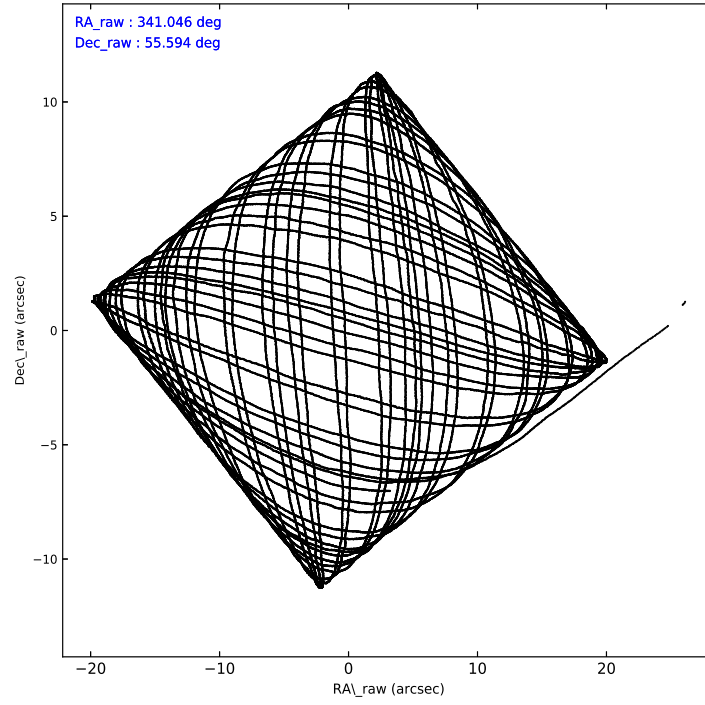
2.1.4 Events

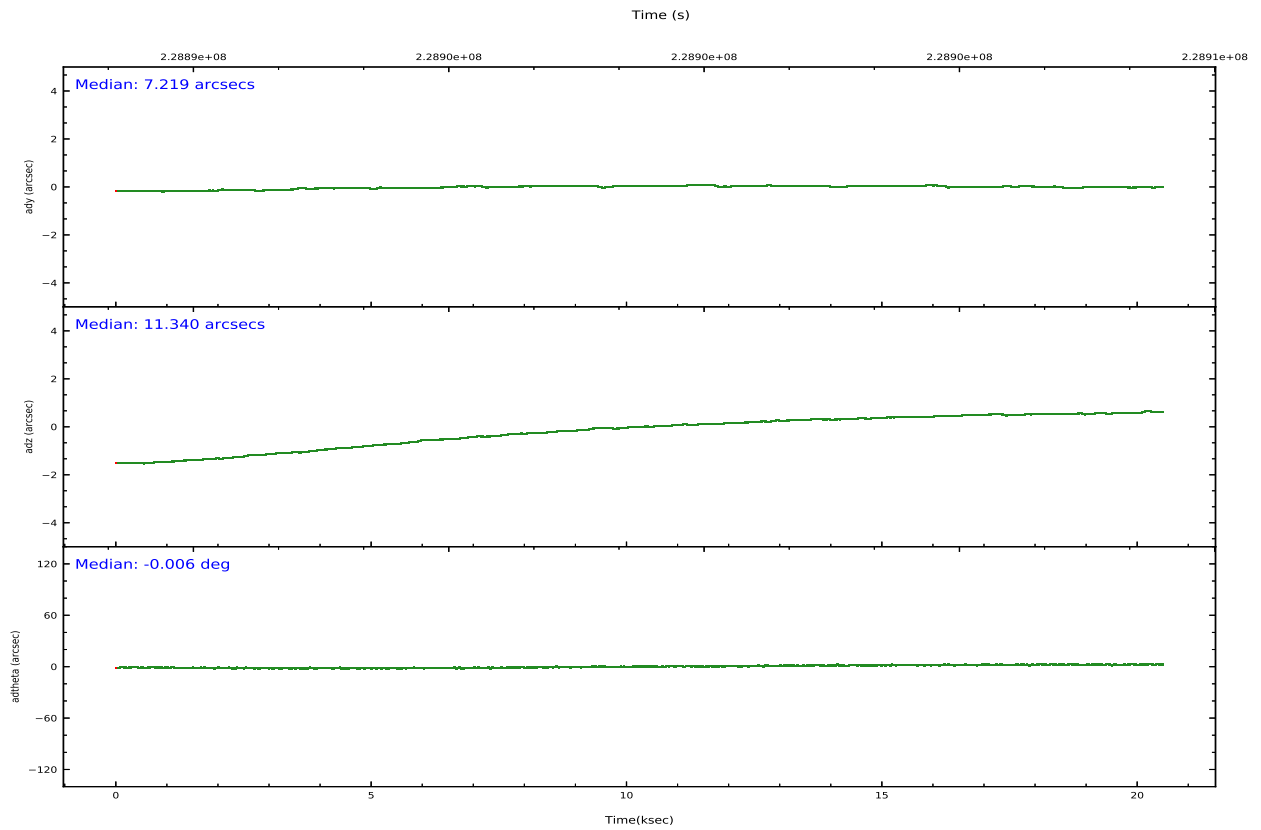
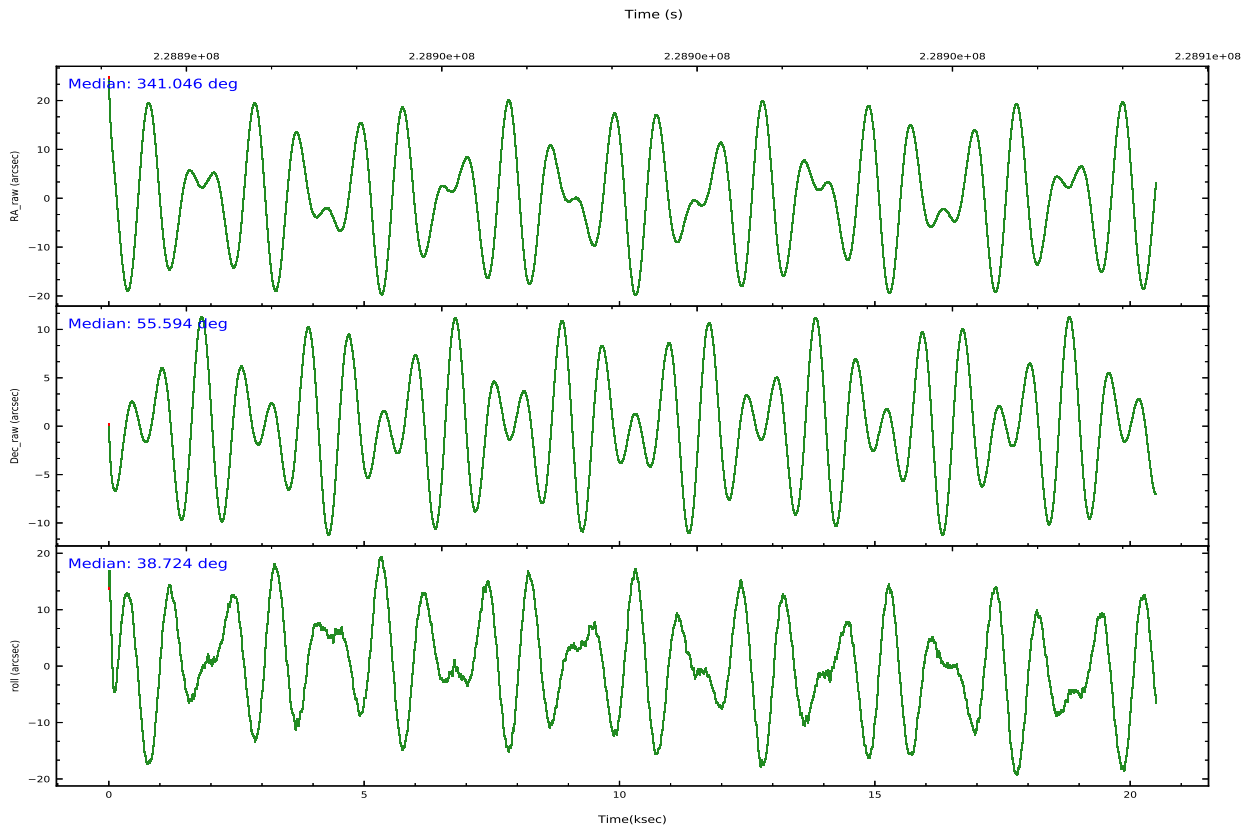
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	157256	147629	230562	161855	211972	199796	grade 0 events	8954	8424	7557	8332	7765	14193
rejected events	138041	129199	127422	142093	123701	156923		5%	5%	3%	5%	3%	7%
rejected %	87%	87%	55%	87%	58%	78%	grade 1 events	106	87	286	73	197	147
								0%	0%	0%	0%	0%	0%
							grade 2 events	3783	3532	31346	4149	18026	9296
								2%	2%	13%	2%	8%	4%
							grade 3 events	1746	1794	4160	1757	7590	4476
								1%	1%	1%	1%	3%	2%
							grade 4 events	1781	1765	4008	1892	7707	4239
								1%	1%	1%	1%	3%	2%
							grade 5 events	6139	6850	16988	7097	20155	9538
								3%	4%	7%	4%	9%	4%
							grade 6 events	3185	3123	57269	3839	48236	11163
								2%	2%	24%	2%	22%	5%
							grade 7 events	131562	122054	108948	134716	102296	146744
								83%	82%	47%	83%	48%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	341.029394	341.04699923535	Subarray requested	NONE	NONE
[deg] Pointing Dec	55.568357	55.590010685641	Alternating exposures requested	N	N
[deg] Pointing Roll	38.582937	38.724230787439	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	228888613.184000	228887453.50975			
Observation start date	2005-04-03T04:09:09	2005-04-03T03:50:53			
[s] Observation end time (MET)	228908988.184000	228909208.11074			
Observation end date	2005-04-03T09:48:44	2005-04-03T09:53:28			
Read mode	TIMED	TIMED			

2.3 Aspect





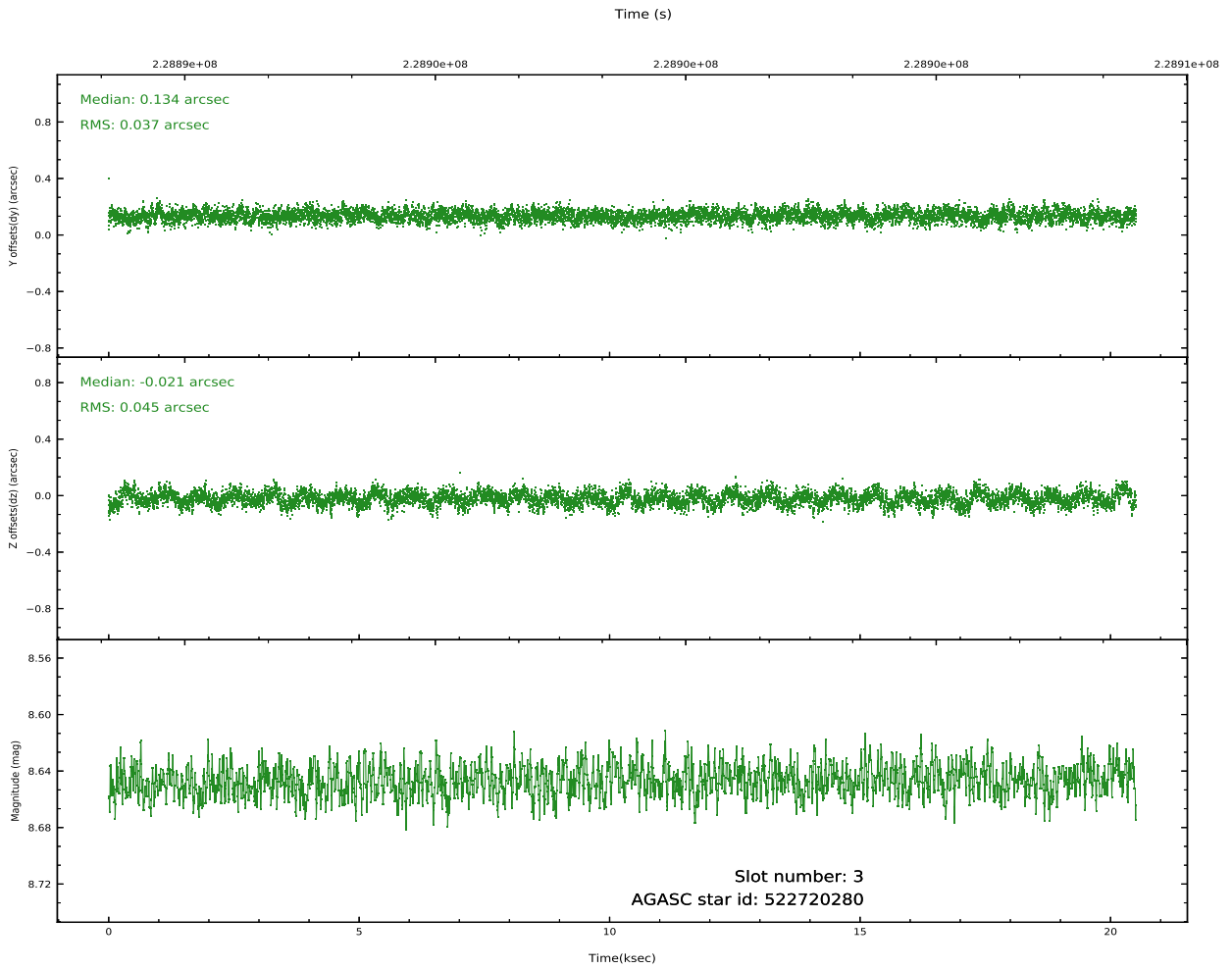
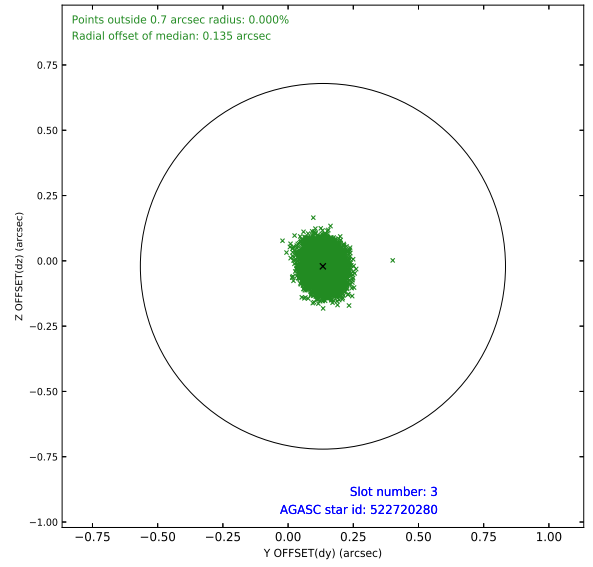
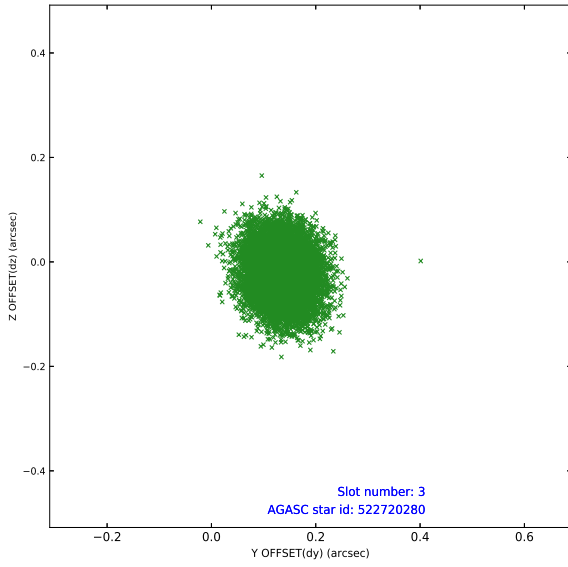
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	5003	1.000	-0.075	-0.065	0.013	0.019	0.000000	0.000000	-759.98	-1732
1	FID		ACIS-S-4	7.20	5003	1.000	0.150	0.053	0.013	0.023	0.000000	0.000000	2153.39	176
2	FID		ACIS-S-5	7.23	5002	1.000	-0.107	0.019	0.010	0.015	0.000000	0.000000	-1812.68	169
3	GUIDE	used	522720280	8.65	10001	1.000	0.134	-0.021	0.063	0.100	341.147176	55.856789	833.90	663
4	GUIDE	used	522727344	8.58	10003	1.000	0.023	0.029	0.075	0.121	340.072680	55.624980	-1384.36	1382
5	GUIDE	used	522605336	8.80	9999	1.000	-0.089	0.021	0.080	0.127	339.553484	55.565557	-2335.08	1890
6	GUIDE	used	522729416	6.92	10005	1.000	-0.096	-0.087	0.047	0.077	340.716317	54.757406	-2328.09	-1875
7	GUIDE	used	522719984	8.59	9999	1.000	0.029	0.054	0.070	0.112	341.599464	54.990609	-373.49	-2356

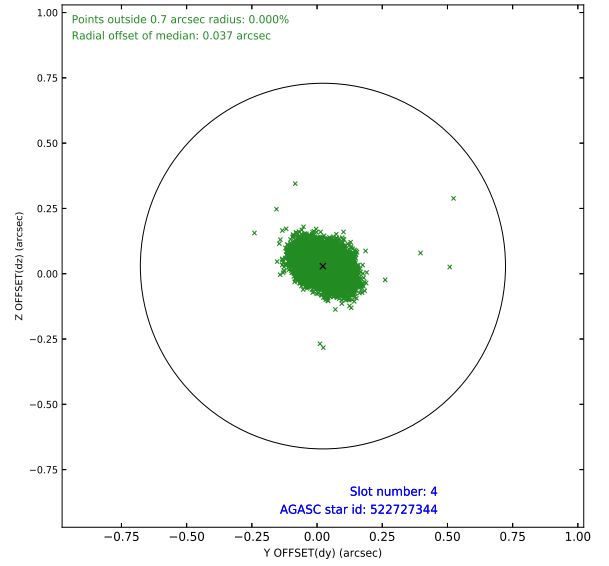
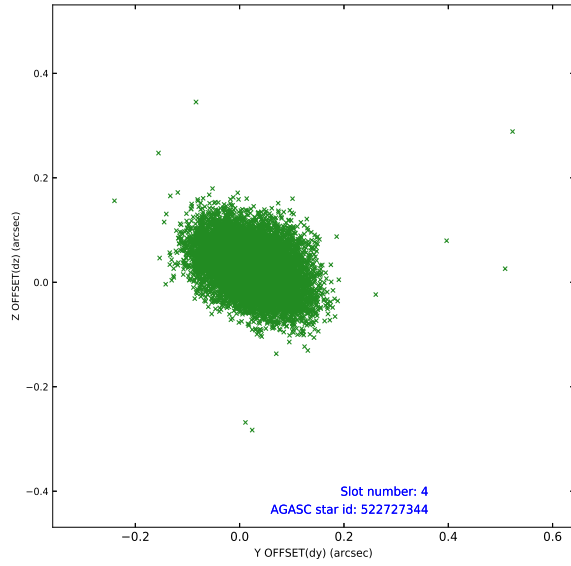
∞

2.4 Star Slots

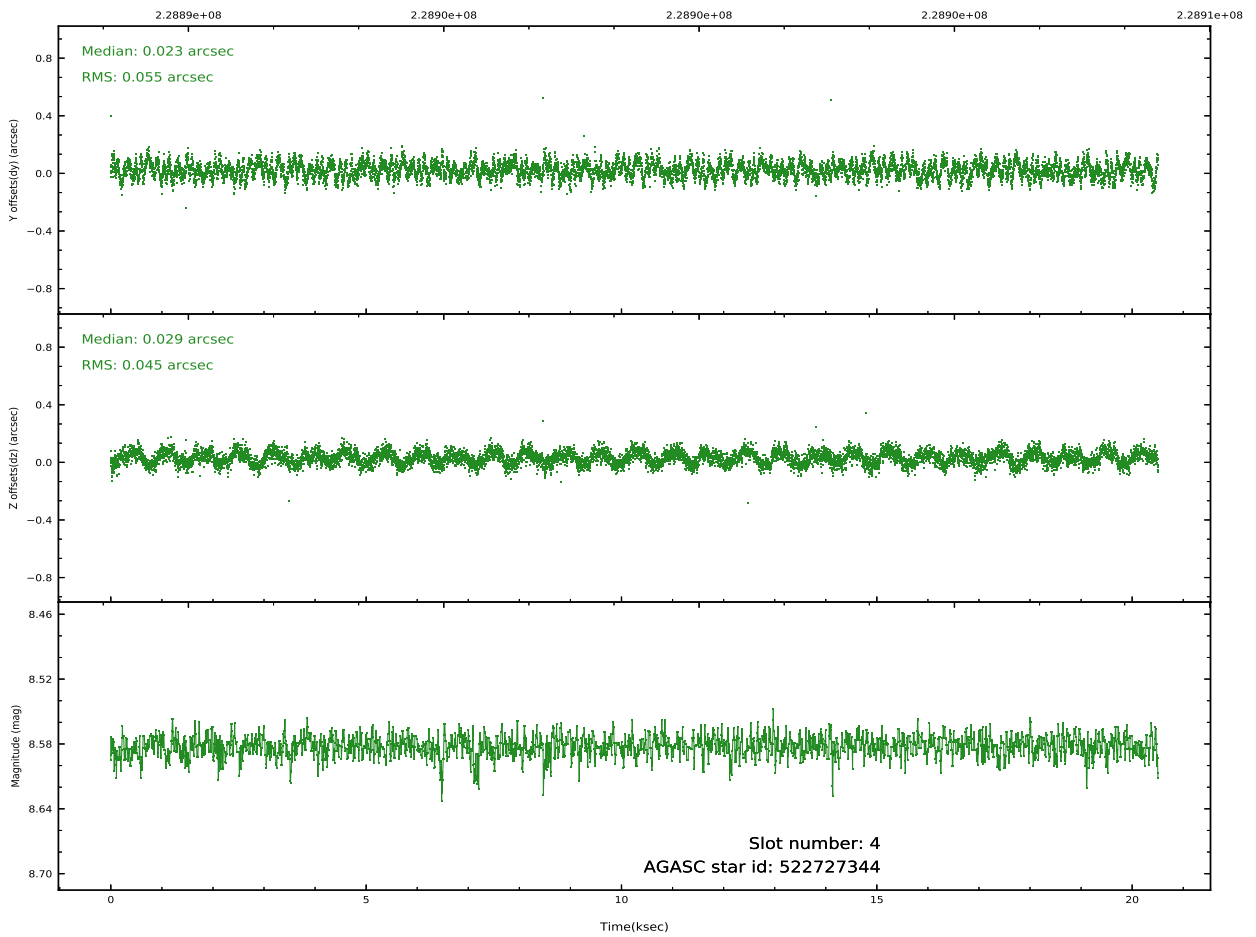
2.4.1 Slot 3



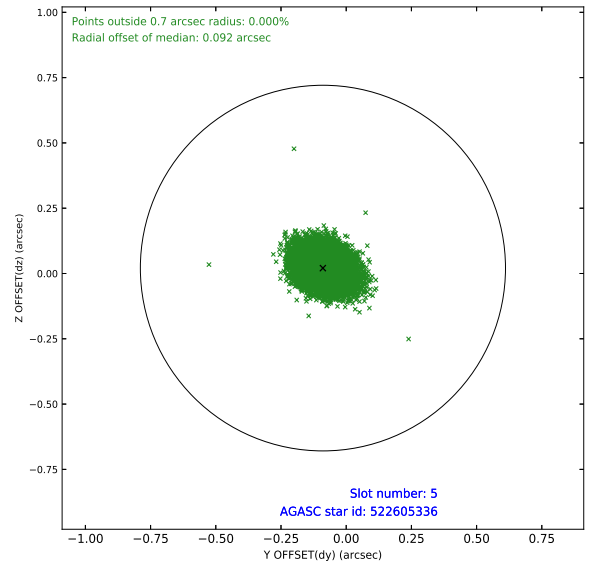
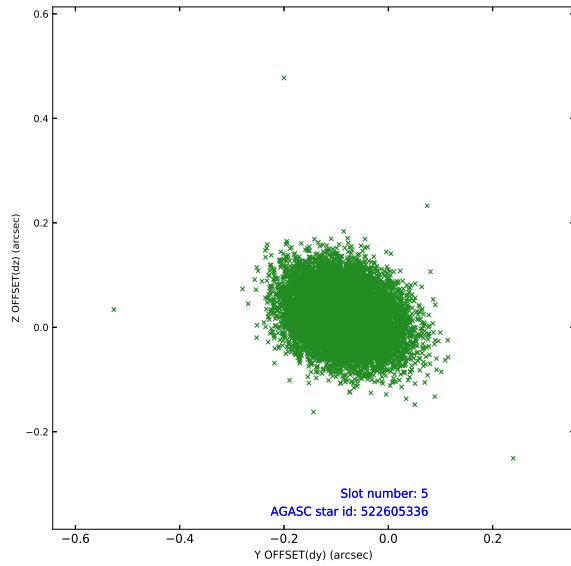
2.4.2 Slot 4



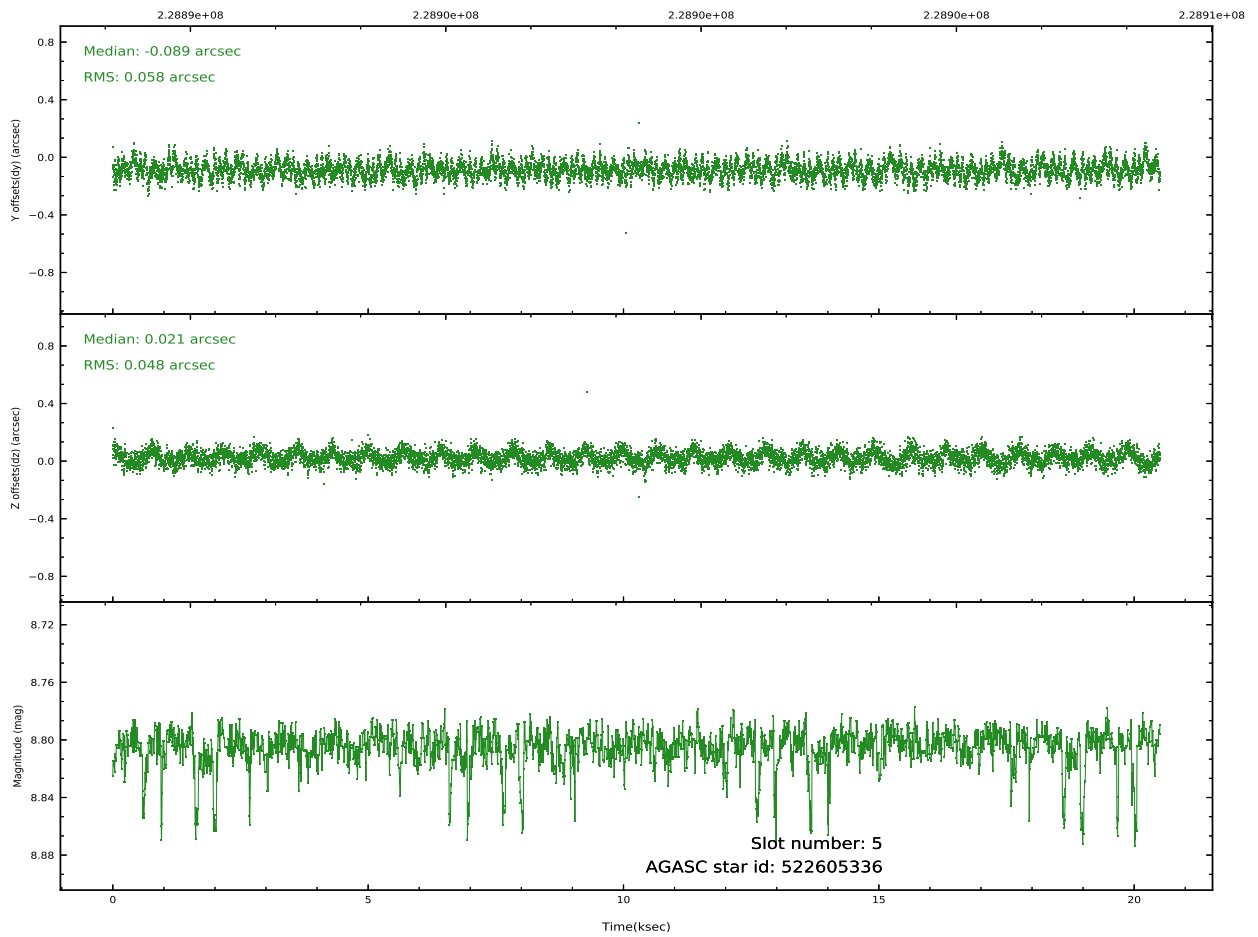
Time (s)



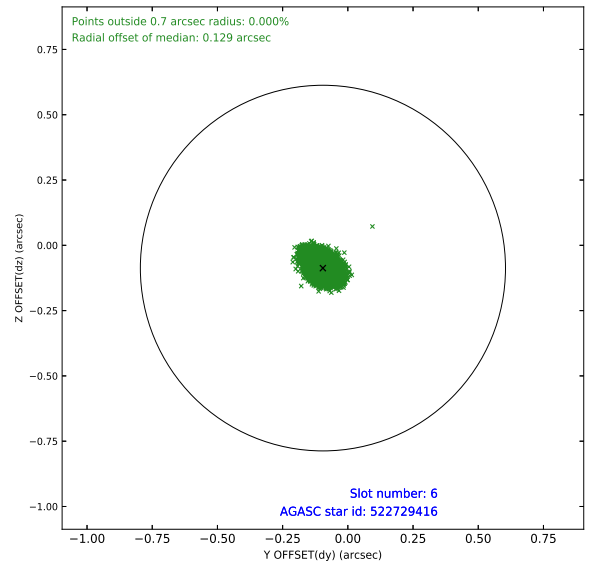
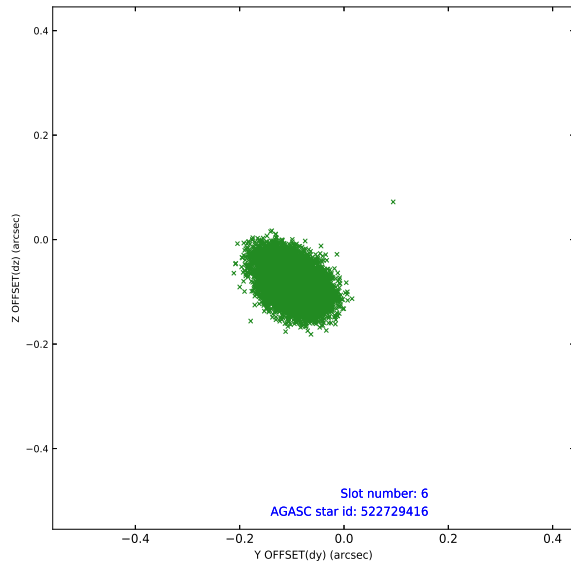
2.4.3 Slot 5



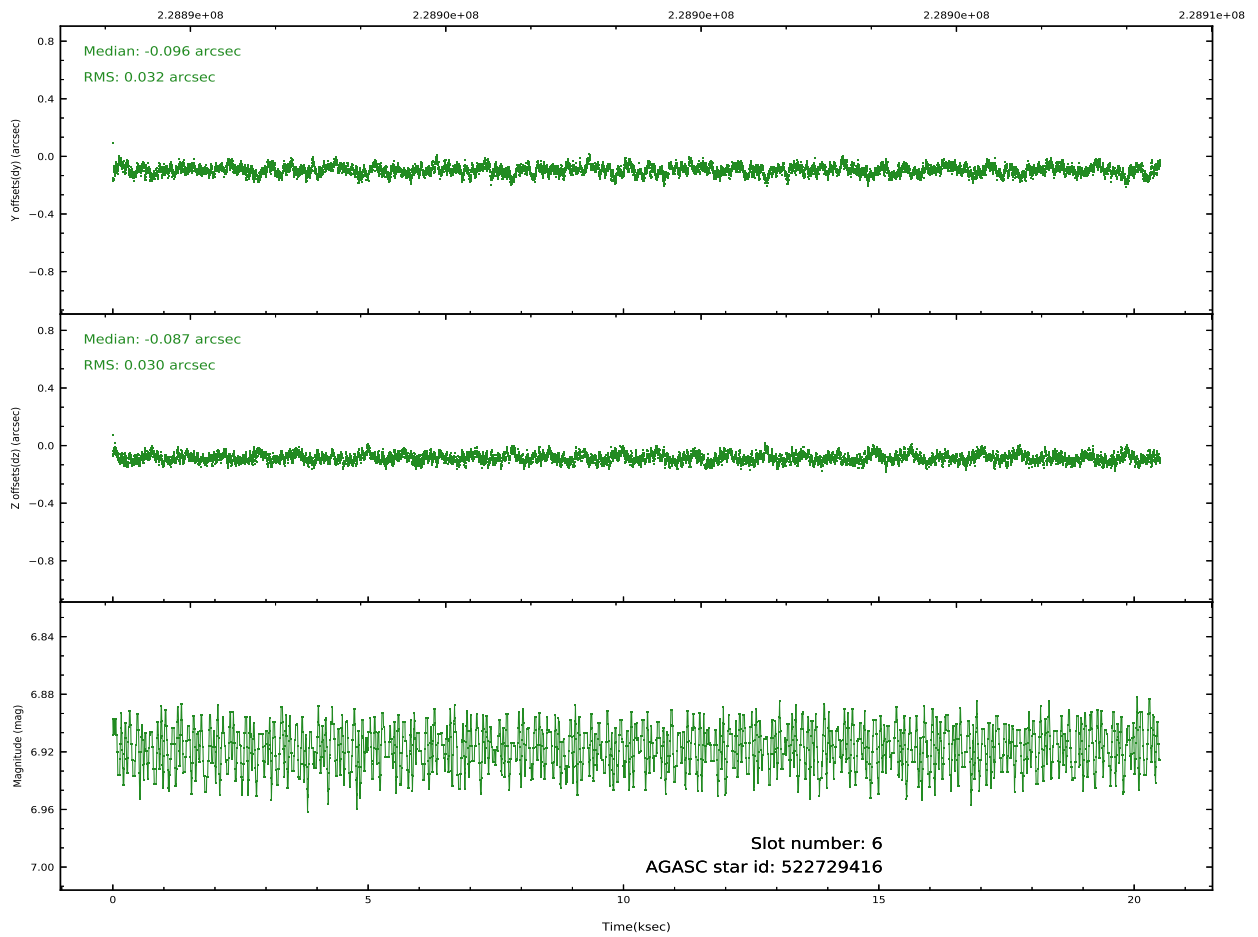
Time (s)



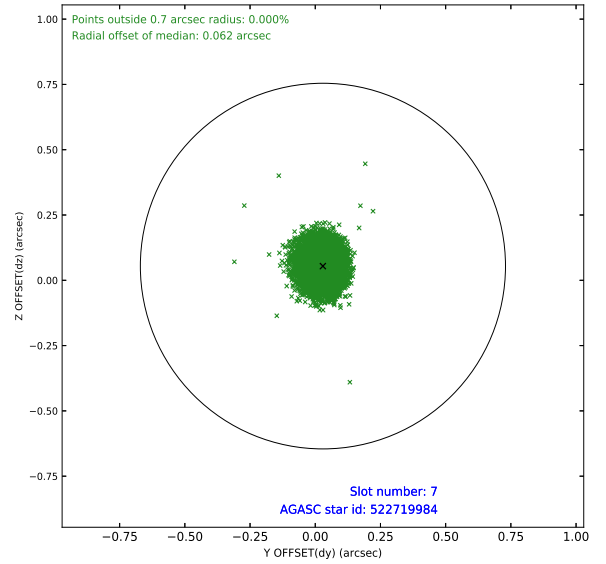
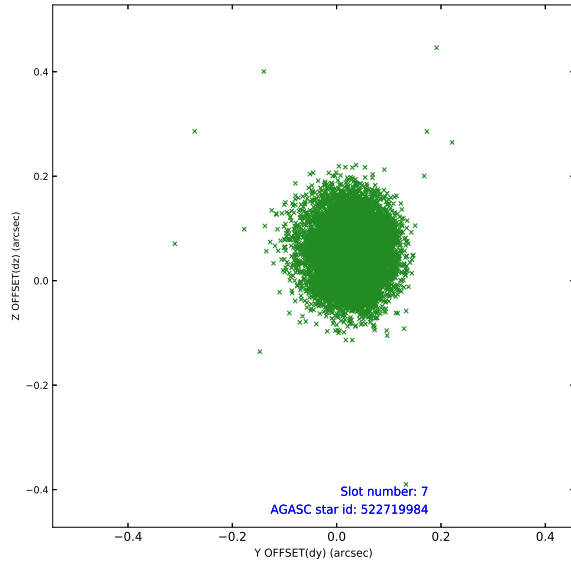
2.4.4 Slot 6



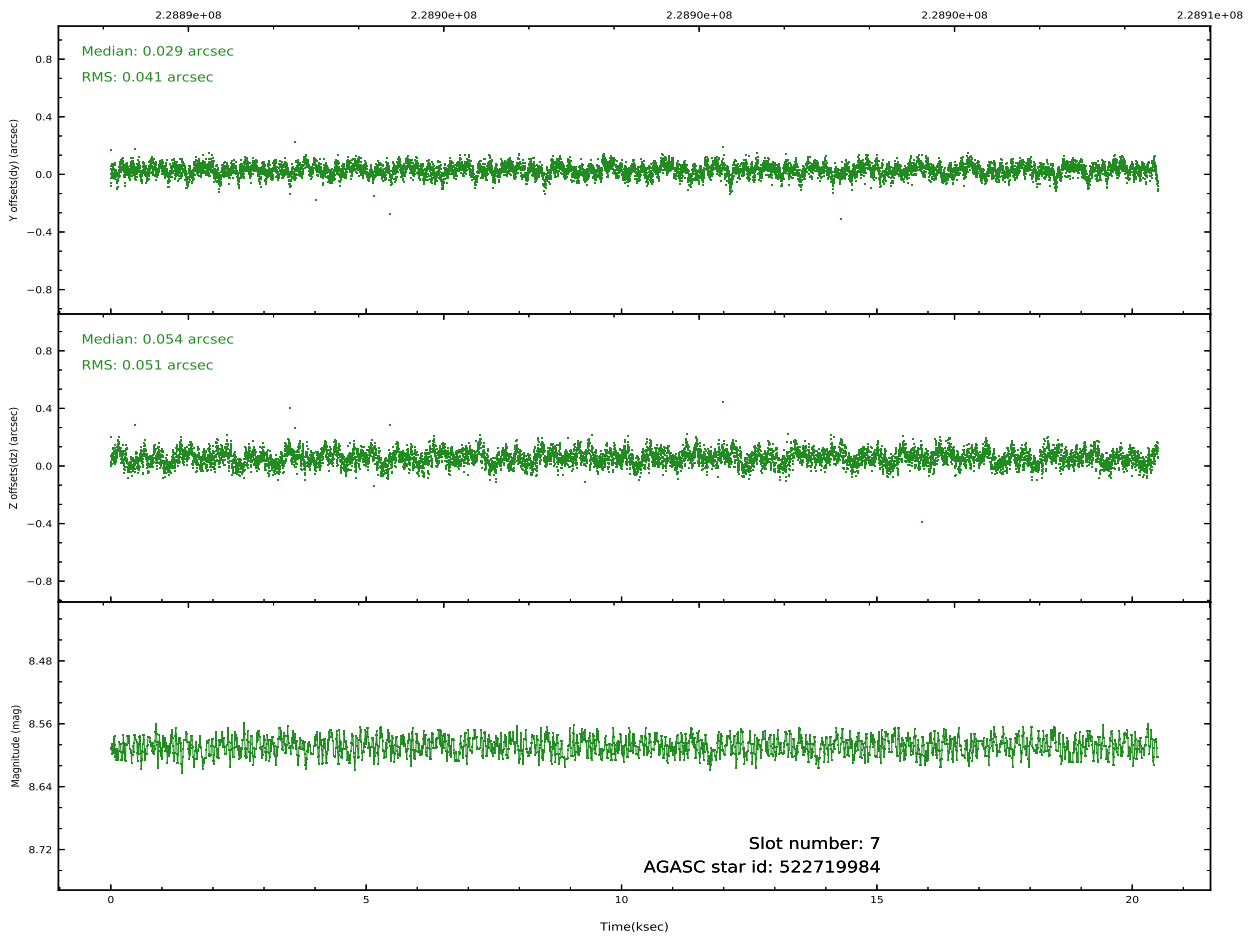
Time (s)



2.4.5 Slot 7

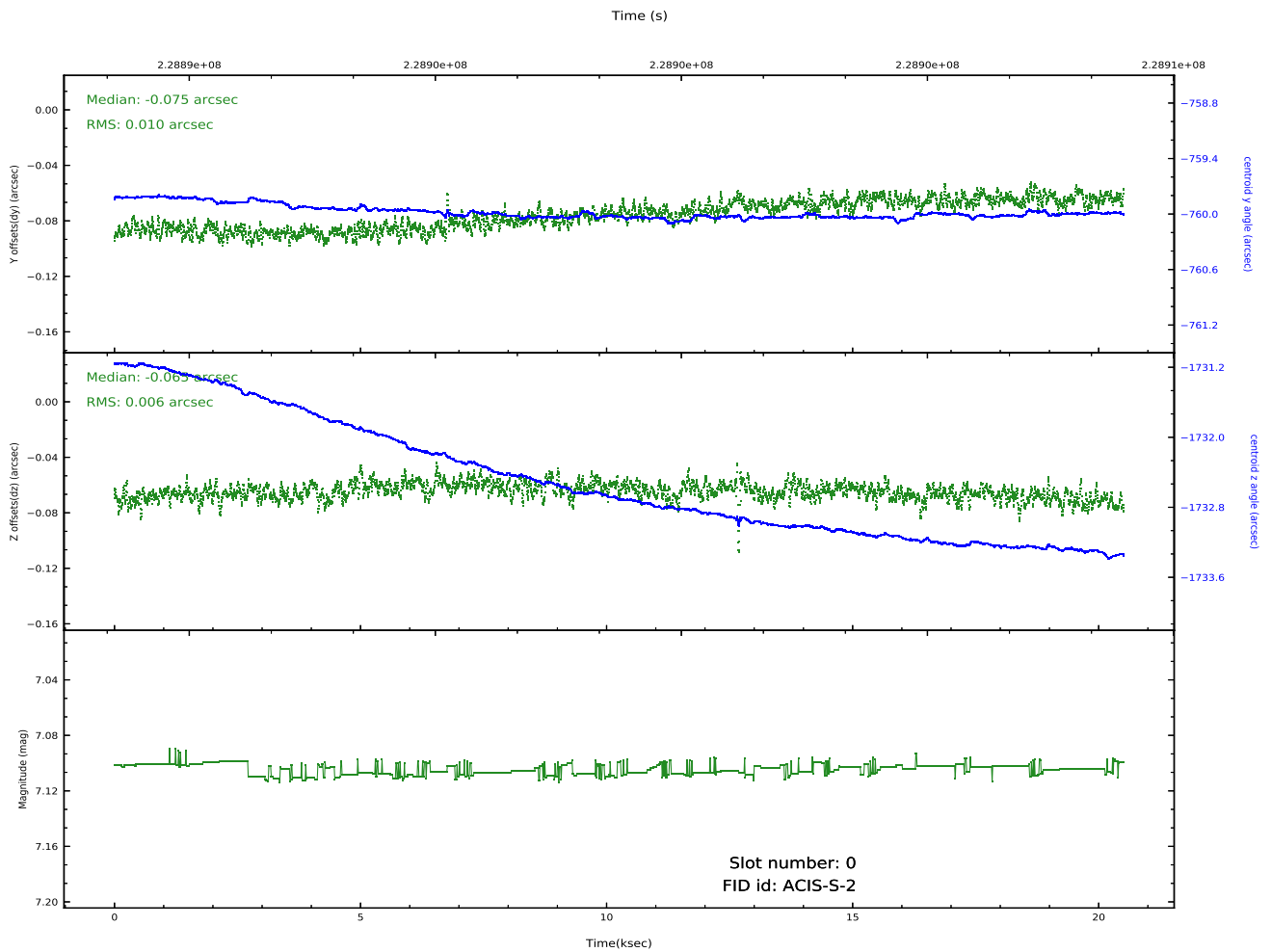
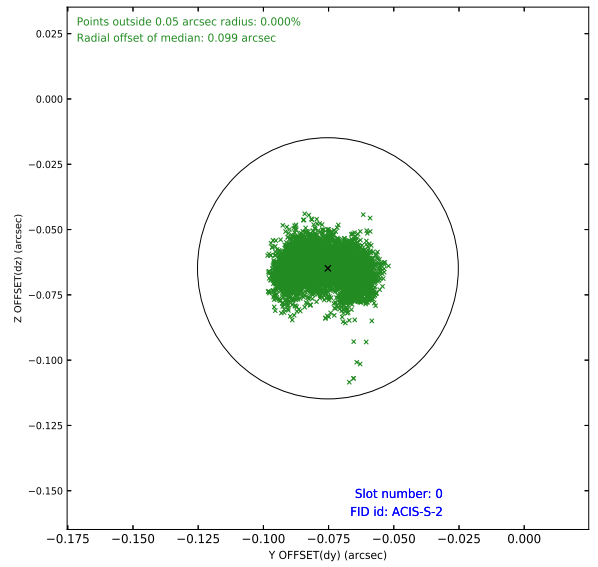
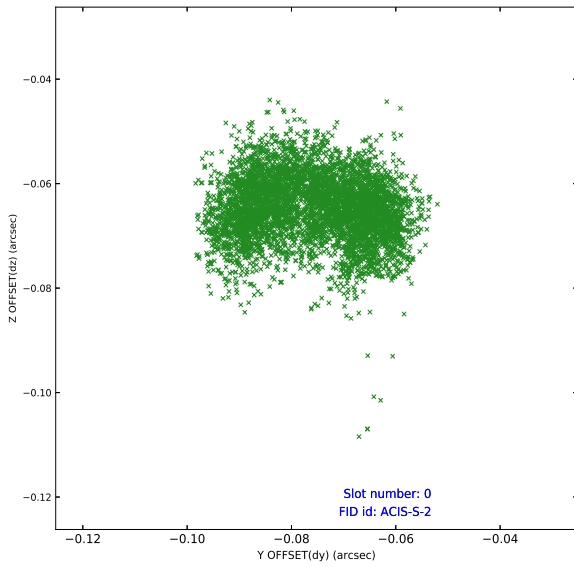


Time (s)

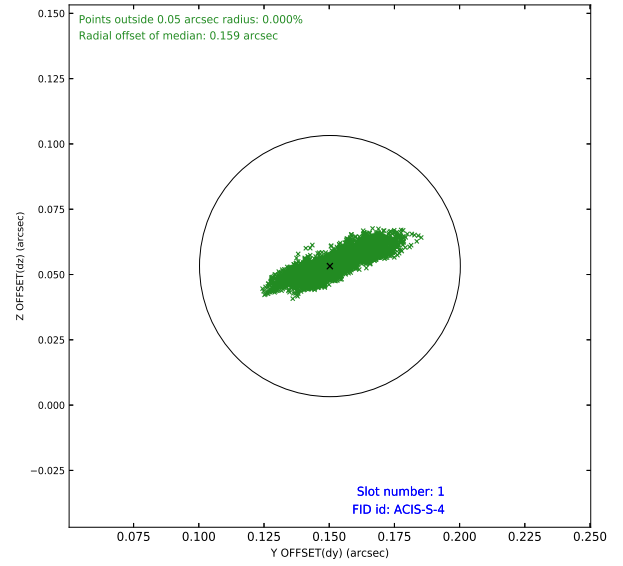
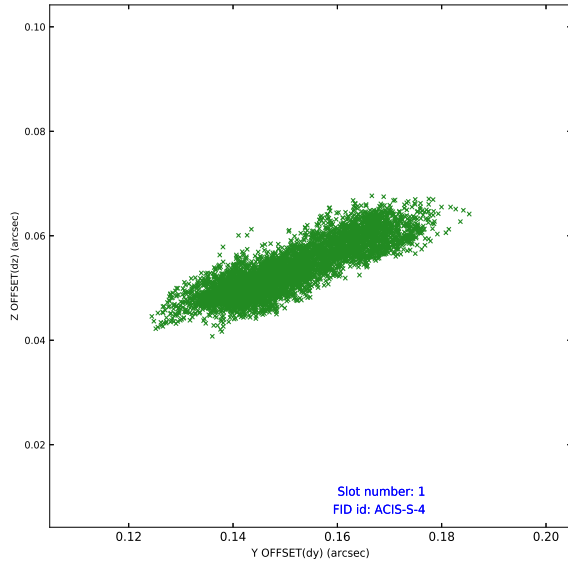


2.5 FID Slots

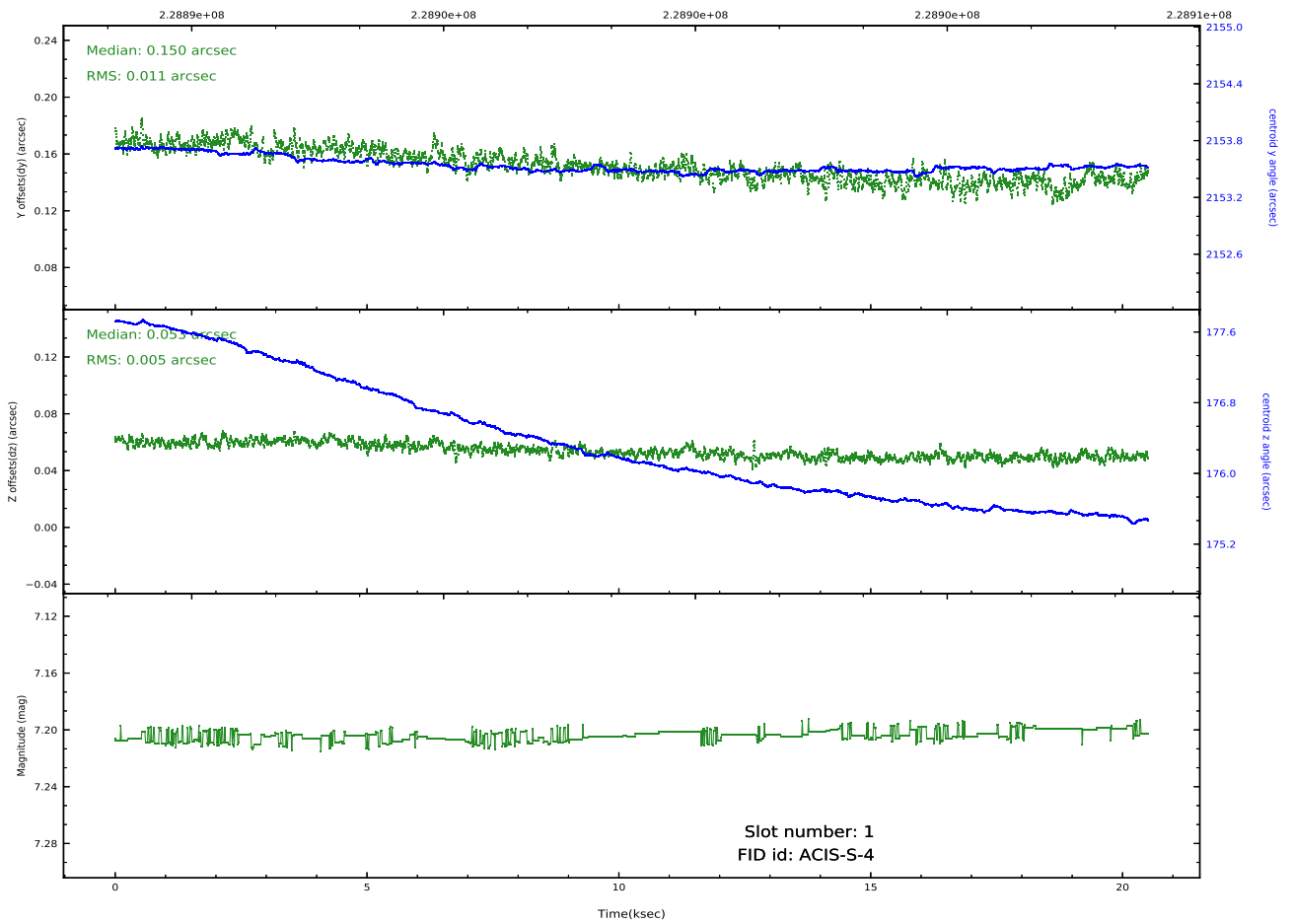
2.5.1 Slot 0



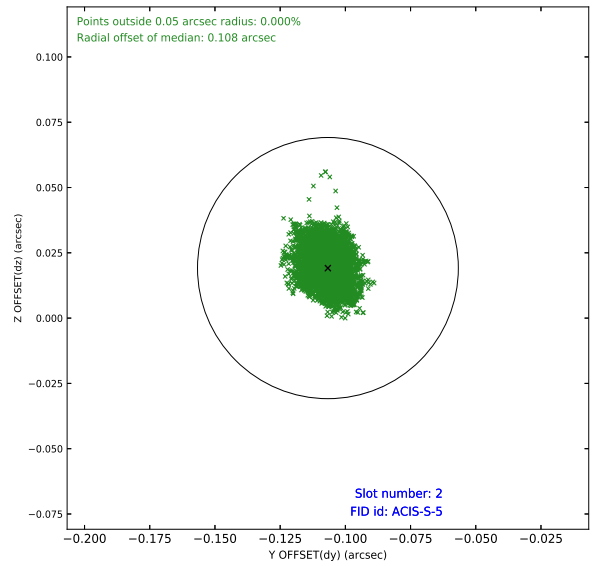
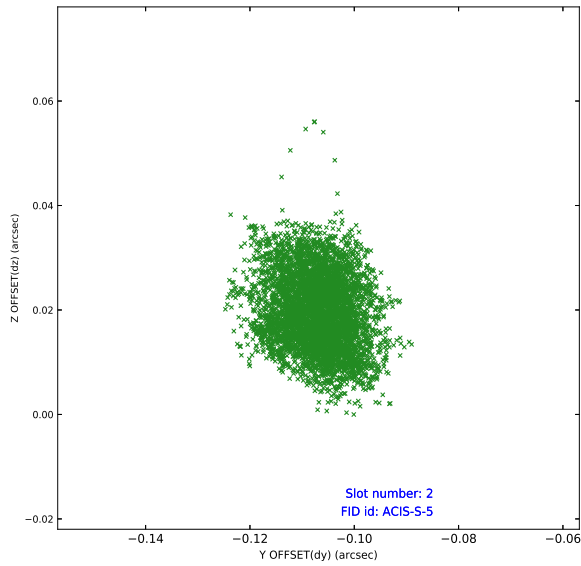
2.5.2 Slot 1



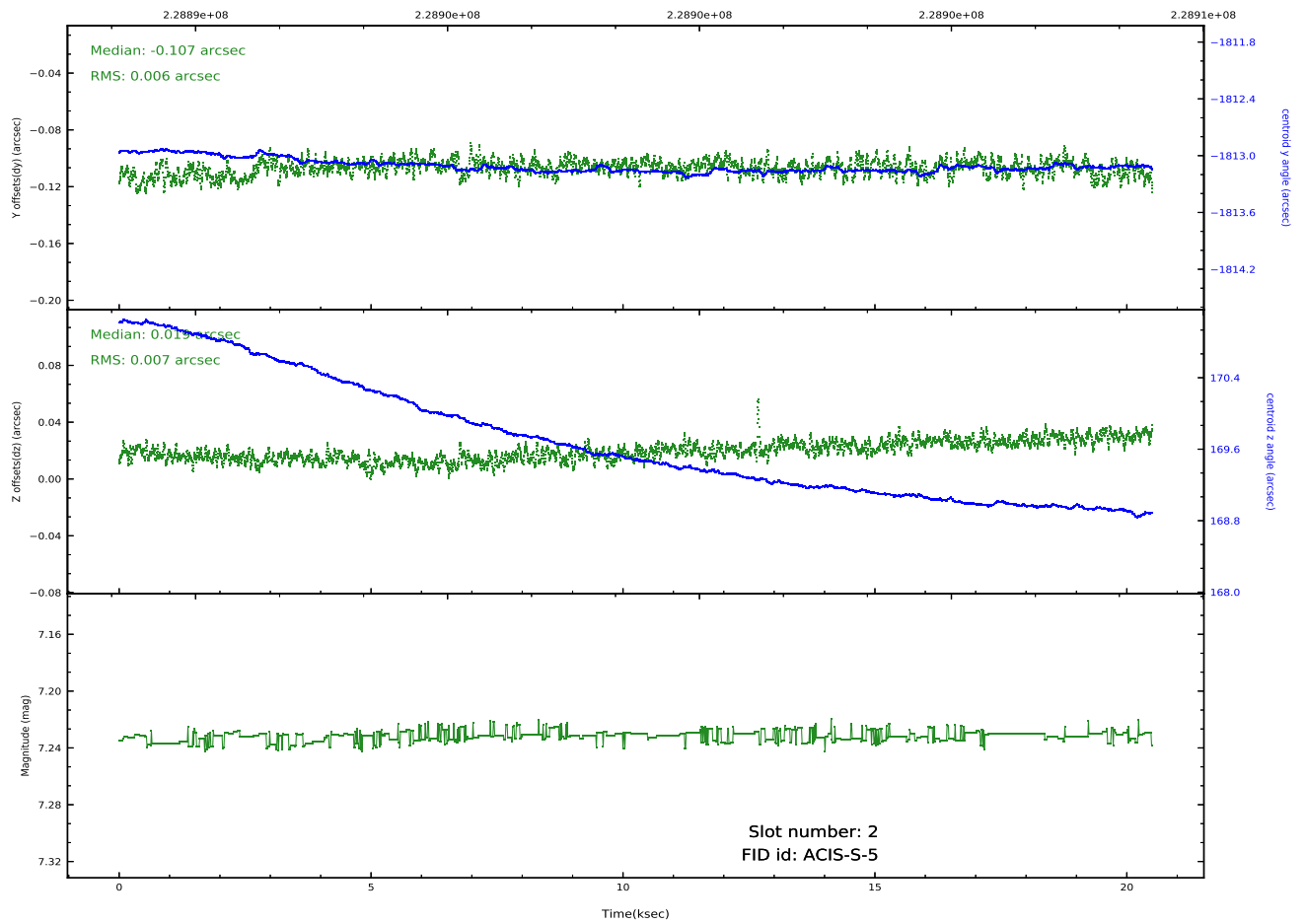
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.49919

A.2 Comments