

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5626 - L2 Version 4
Chandra X-Ray Center

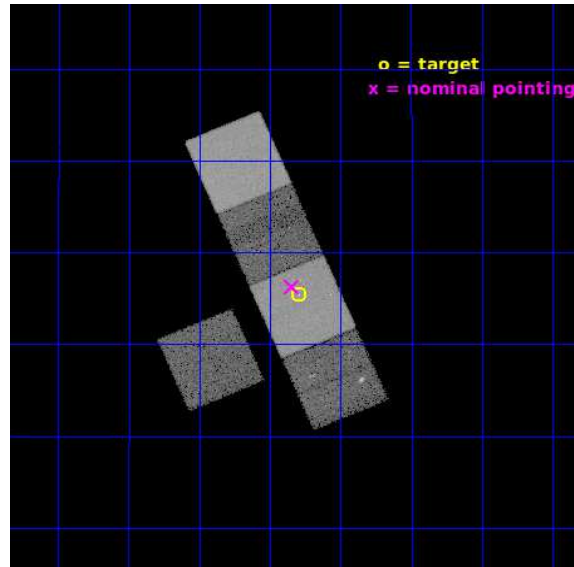
L2 Processing Date : Oct 5 2020

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

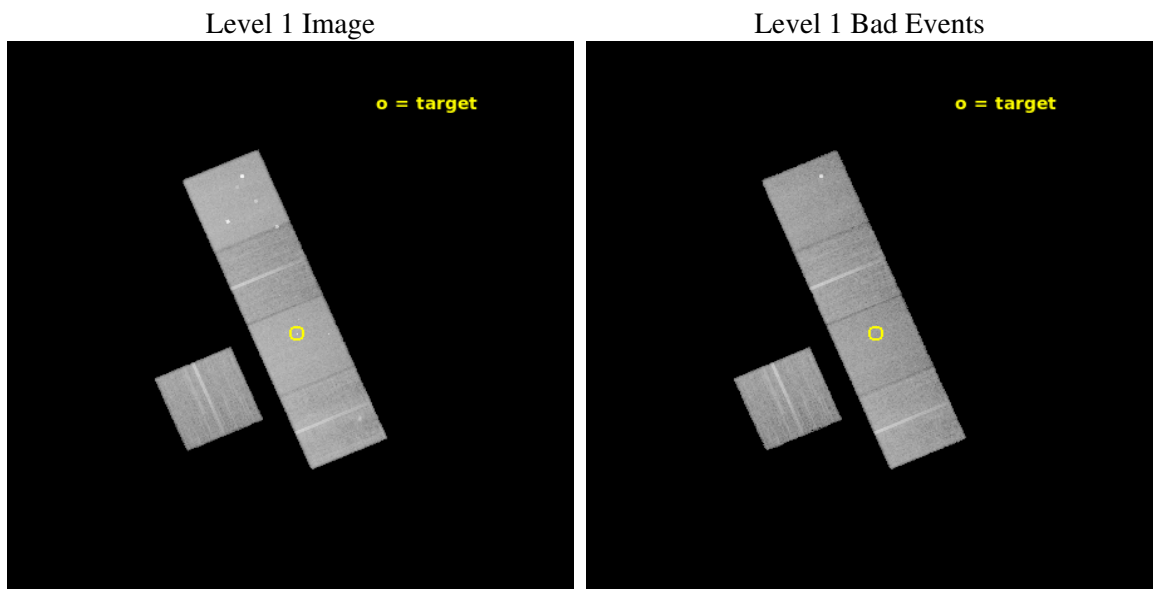
seq_num	701049	Sequence number
obs_id	5626	Observation id
title	Extended inverse Compton emission from distant powerful radio galaxies	Proposal title
observer	Andrew Fabian	Principal investigator
object	3C 191	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	121.199583	Observer's specified target RA [deg]
dec_targ	10.256389	Observer's specified target Dec [deg]
ra_nom	121.21135156303	Nominal RA [deg]
dec_nom	10.271518785353	Nominal Dec [deg]
roll_nom	66.740017591994	Nominal Roll [deg]
revision	4	Processing version of data
ontime	20035.299961448	Sum of GTIs [s]
livetime	19773.524017678	Livetime [s]
ontime3	20032.158981204	Sum of GTIs [s]
ontime5	20035.299961448	Sum of GTIs [s]
ontime6	20035.299961448	Sum of GTIs [s]
ontime7	20035.299961448	Sum of GTIs [s]
ontime8	20032.159050822	Sum of GTIs [s]
l2events	233750	Number of level 2 events



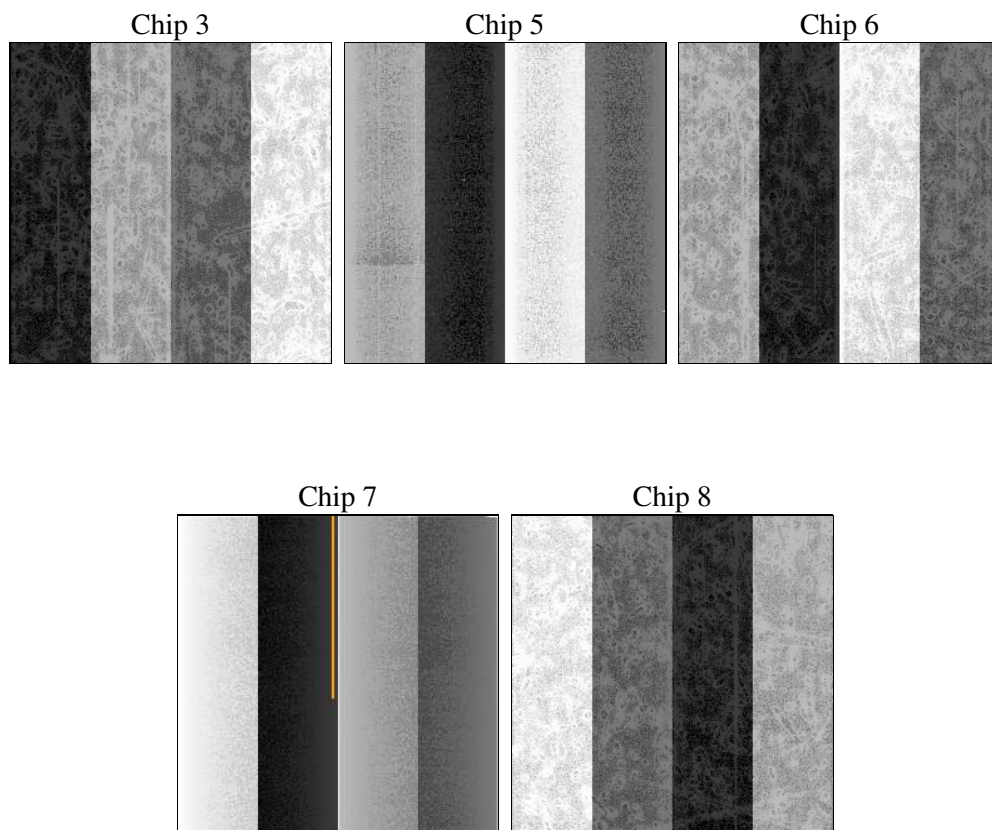
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	20035.299961448	Sum of GTIs [s]
caldsver	4.9.2	 	ontime3	20032.158981204	Sum of GTIs [s]
date	2020-10-05T12:53:26	Date and time of file creation	ontime5	20035.299961448	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	20035.299961448	Sum of GTIs [s]
			ontime7	20035.299961448	Sum of GTIs [s]
			ontime8	20032.159050822	Sum of GTIs [s]
			l1events	938082	Number of level 1 events

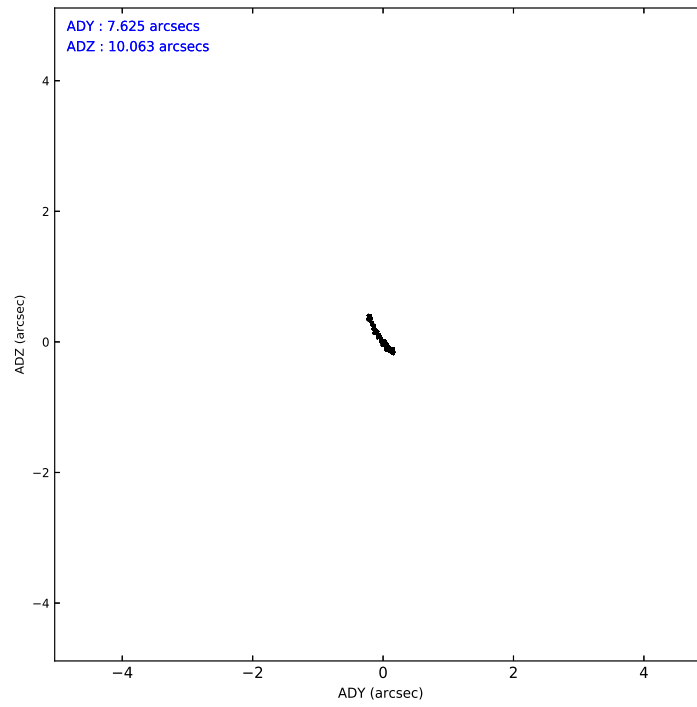
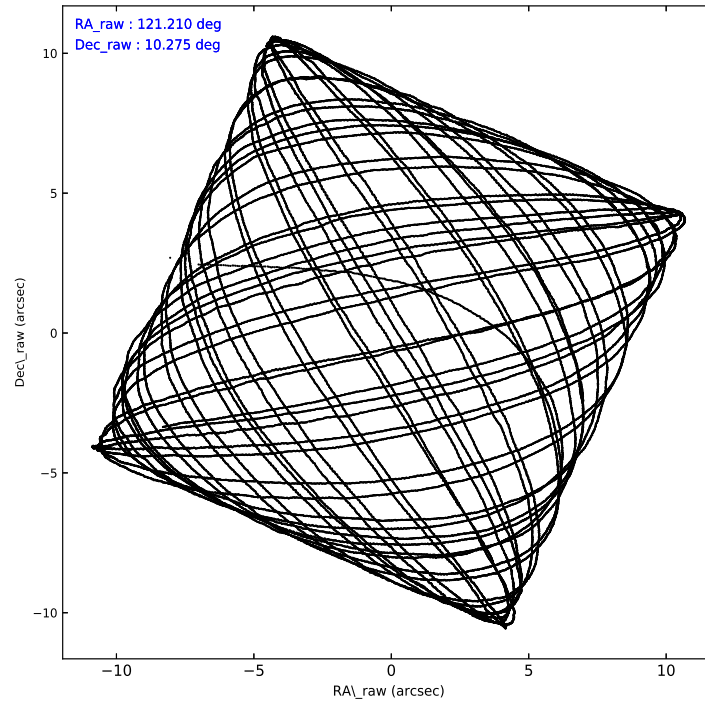
2.1.4 Events

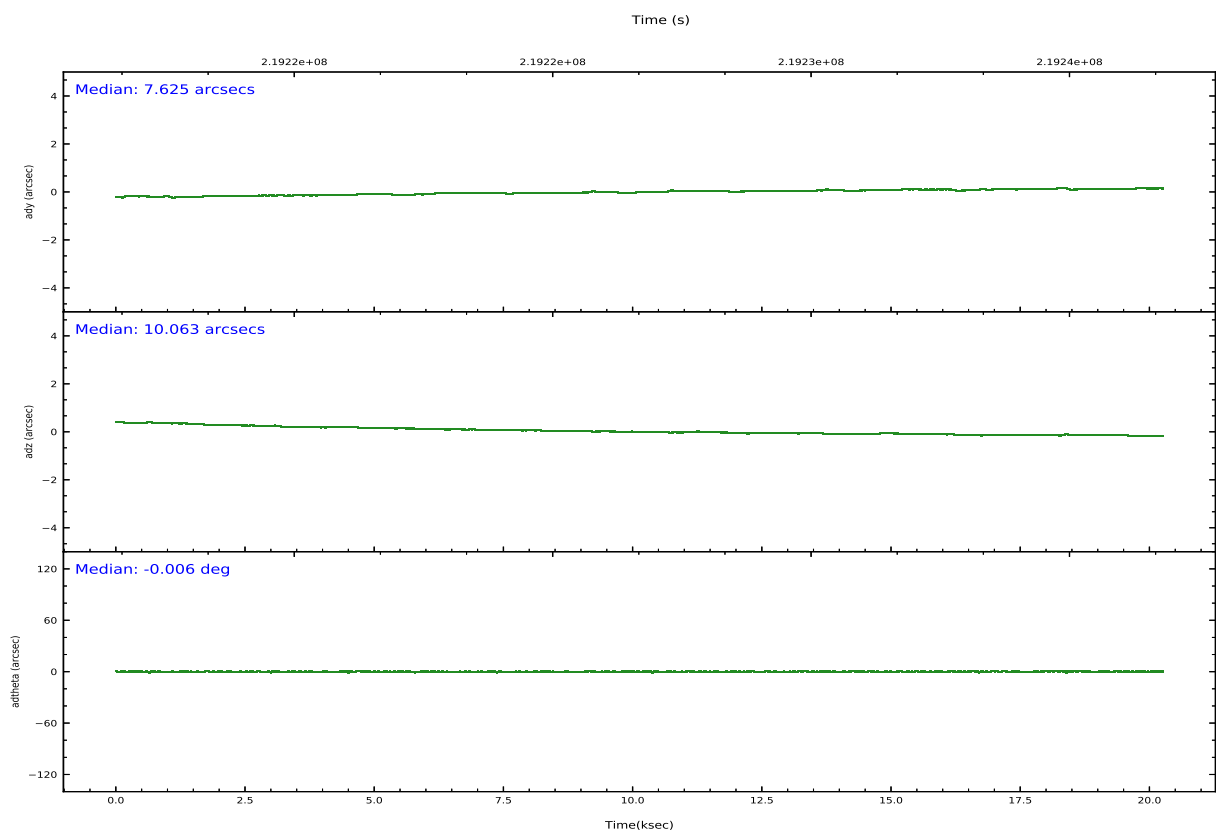
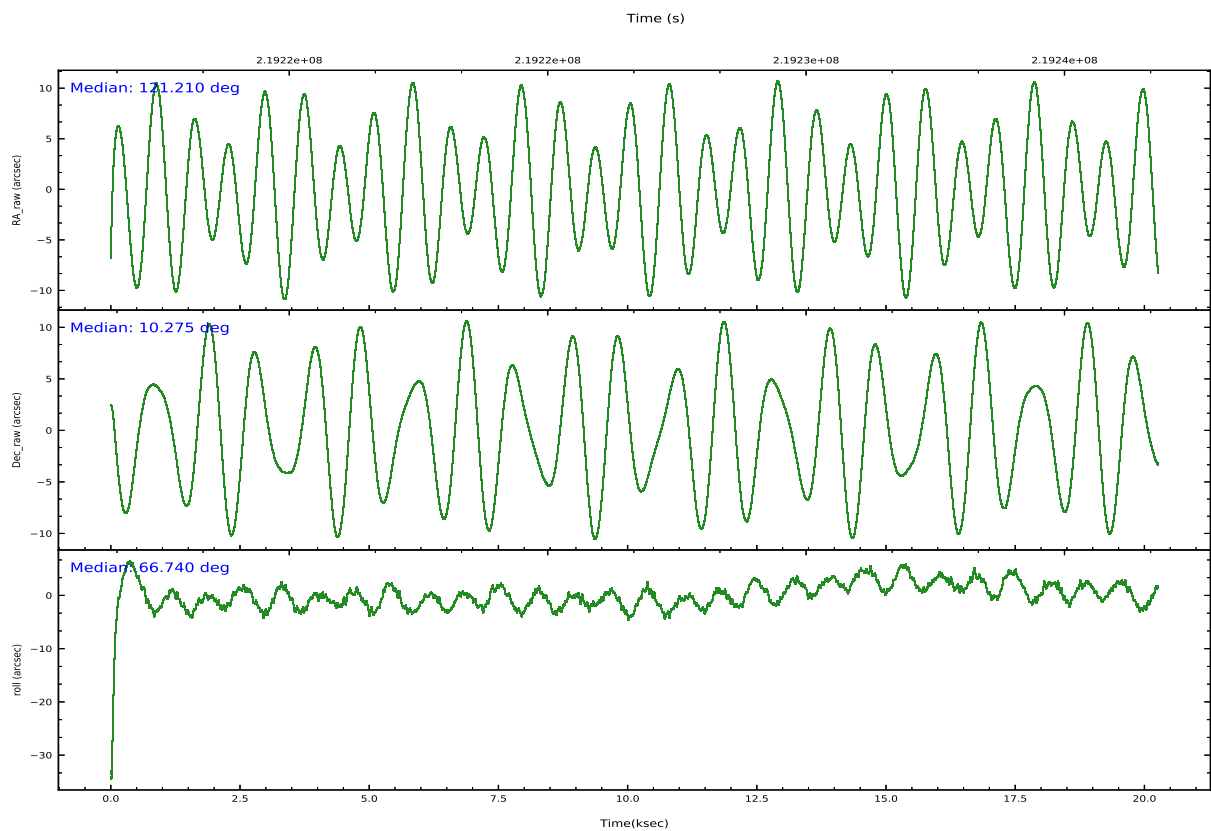
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	145933	233732	153482	208741	196194	grade 0 events	7773	12747	7453	8331	14450
rejected events	128310	125376	134863	120576	153858		5%	5%	4%	3%	7%
rejected %	87%	53%	87%	57%	78%	grade 1 events	79	290	82	220	135
							0%	0%	0%	0%	0%
						grade 2 events	3421	31972	3941	17591	9018
							2%	13%	2%	8%	4%
						grade 3 events	1719	4663	1759	7863	4430
							1%	1%	1%	3%	2%
						grade 4 events	1738	3970	1787	7652	4199
							1%	1%	1%	3%	2%
						grade 5 events	6556	17859	7070	19745	8956
							4%	7%	4%	9%	4%
						grade 6 events	2975	55021	3682	46740	10259
							2%	23%	2%	22%	5%
						grade 7 events	121672	107210	127708	100599	144747
							83%	45%	83%	48%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-35678	ACIS-35678	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	121.213118	121.21135156303	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.247714	10.271518785353	Alternating exposures requested	N	N
[deg] Pointing Roll	66.580492	66.740017591994	[s] Primary exposure time	0.000000	3.1
[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)	219216812.184000	219215836.48503			
Observation start date	2004-12-12T05:32:28	2004-12-12T05:17:16			
[s] Observation end time (MET)	219236812.184000	219237163.14849			
Observation end date	2004-12-12T11:05:48	2004-12-12T11:12:43			
Read mode	TIMED	TIMED			

2.3 Aspect



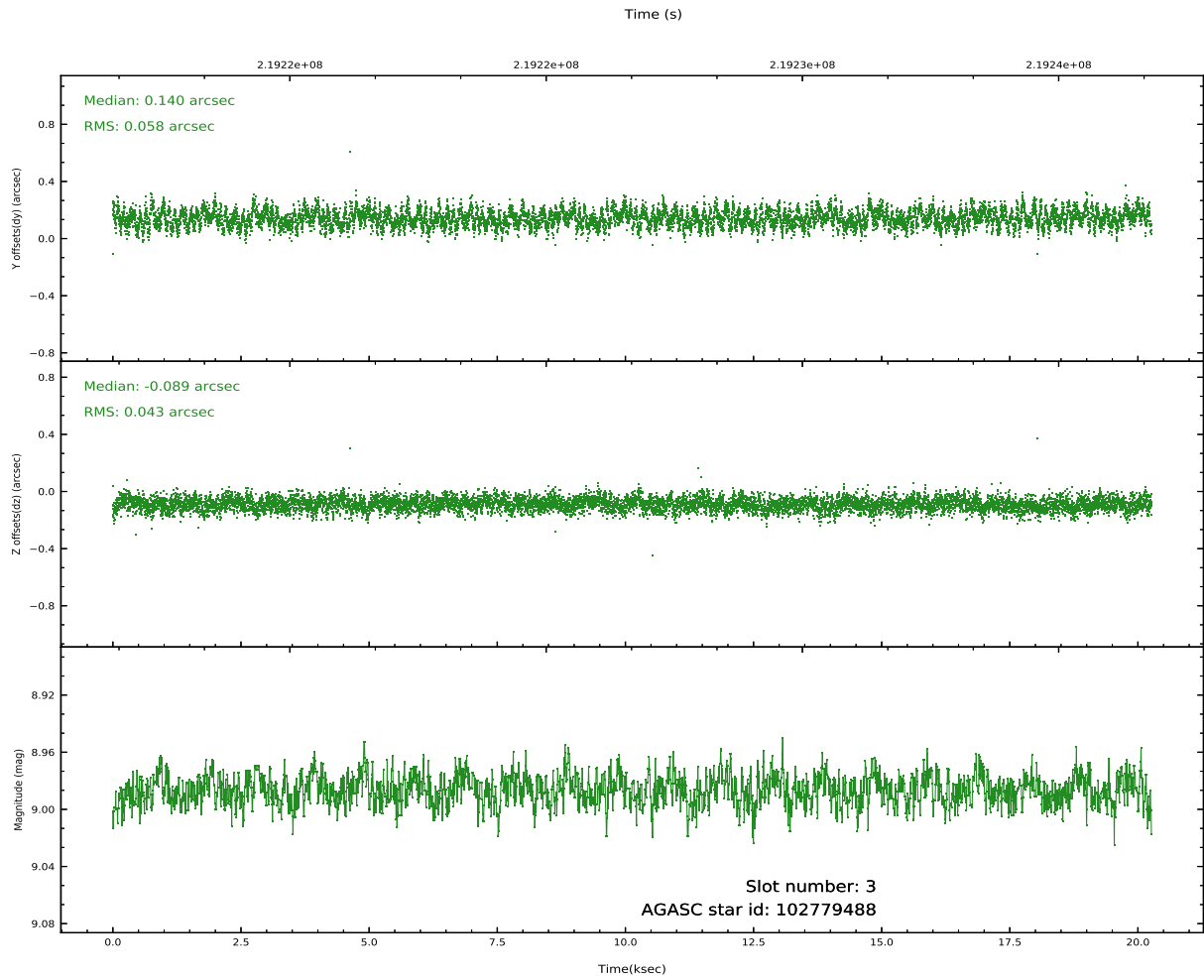
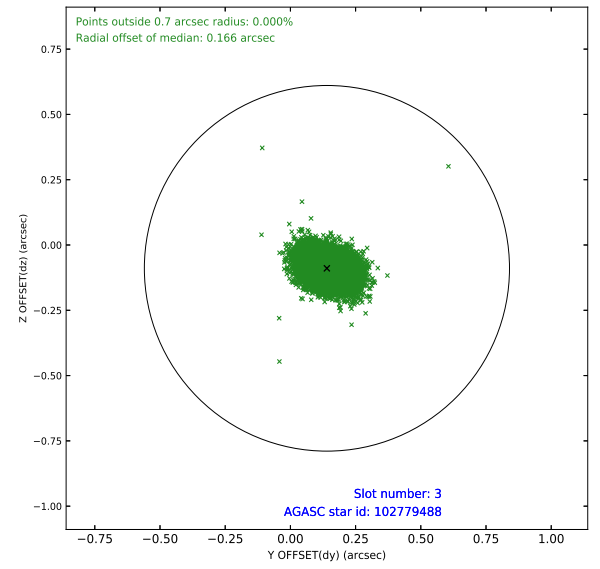
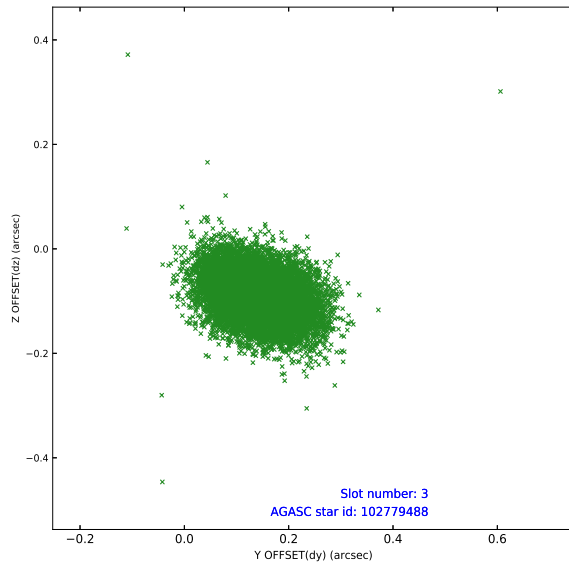


Slot Statistics

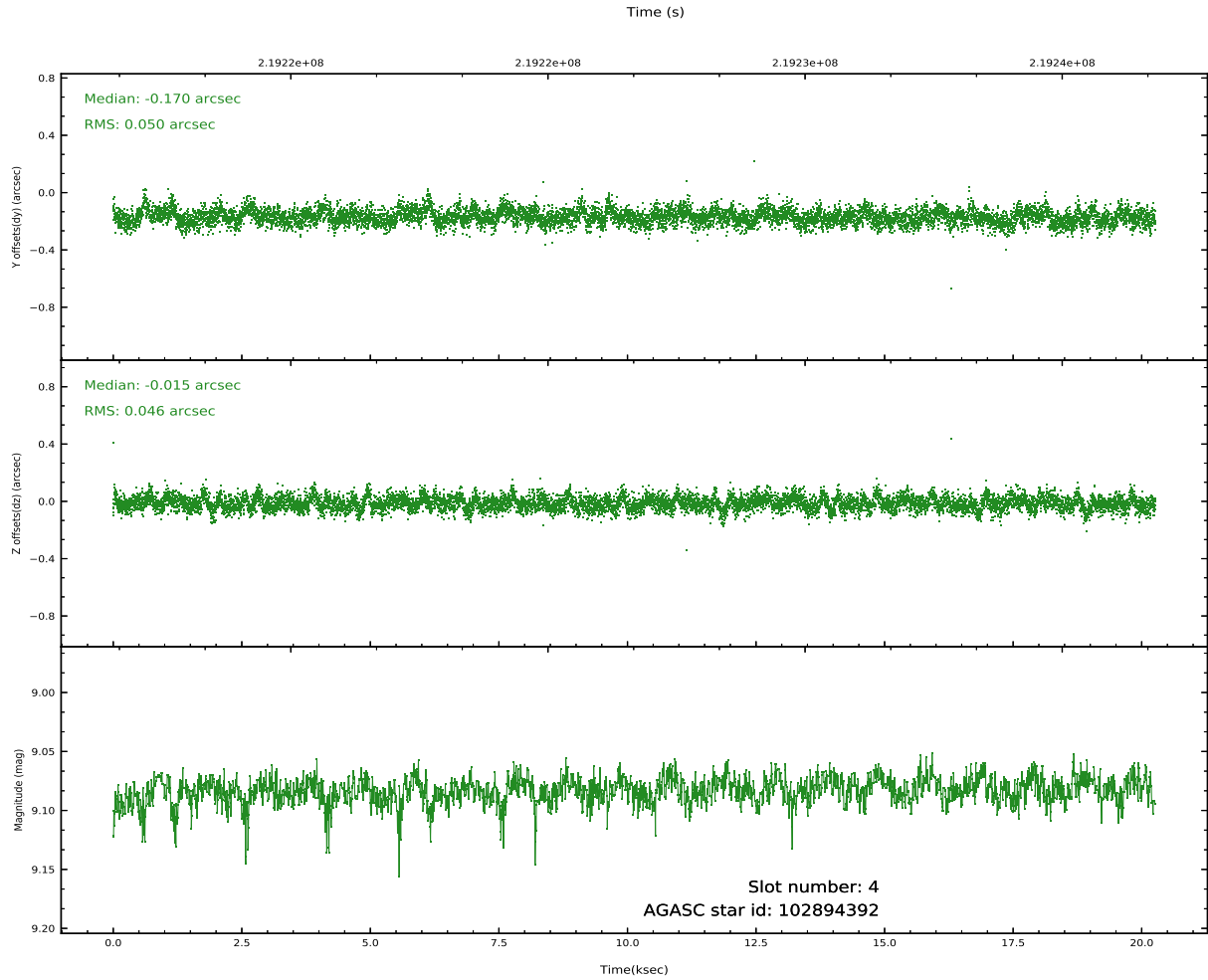
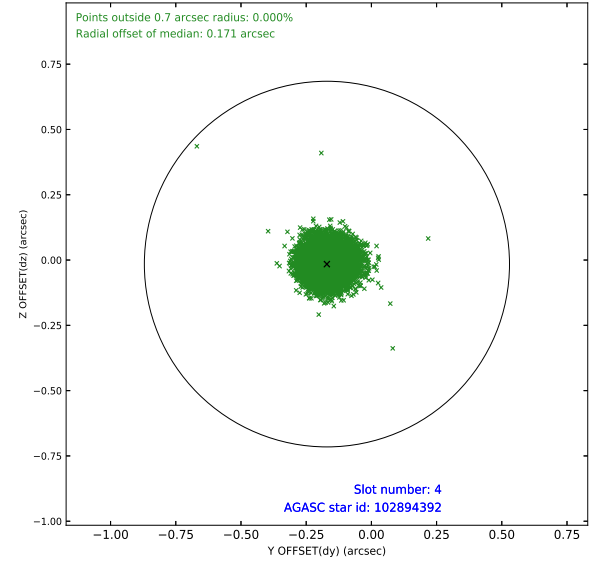
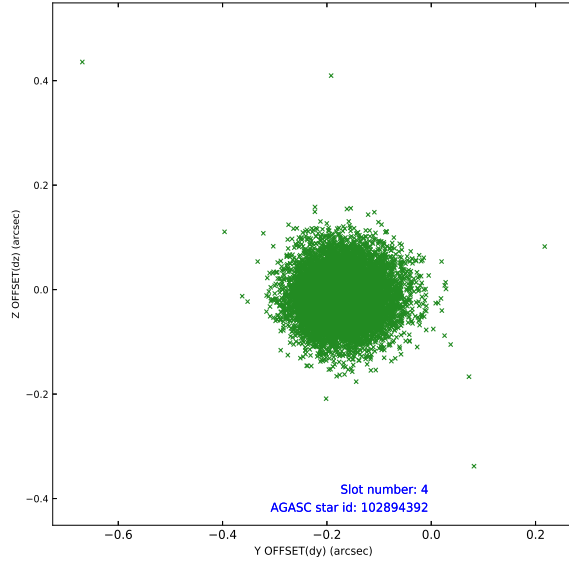
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	4943	1.000	-0.077	-0.061	0.008	0.013	0.000000	0.000000	-760.38	-1731
1	FID		ACIS-S-4	7.21	4943	1.000	0.157	0.053	0.007	0.012	0.000000	0.000000	2152.97	177
2	FID		ACIS-S-5	7.24	4944	1.000	-0.112	0.017	0.008	0.015	0.000000	0.000000	-1813.10	170
3	GUIDE	used	102779488	8.99	9884	1.000	0.140	-0.089	0.076	0.125	120.488040	10.011003	-1800.92	2021
4	GUIDE	used	102894392	9.08	9882	1.000	-0.170	-0.015	0.072	0.117	121.311792	10.844838	2111.06	534
5	GUIDE	used	102900008	8.44	9884	1.000	0.046	0.154	0.073	0.118	121.701170	9.767302	-897.09	-2275
6	GUIDE	used	102906648	7.79	9886	1.000	0.069	-0.053	0.081	0.124	121.088001	10.249590	-169.75	409
7	GUIDE	used	102893184	8.41	9882	1.000	-0.086	0.004	0.058	0.093	121.068238	10.856757	1808.40	1342

2.4 Star Slots

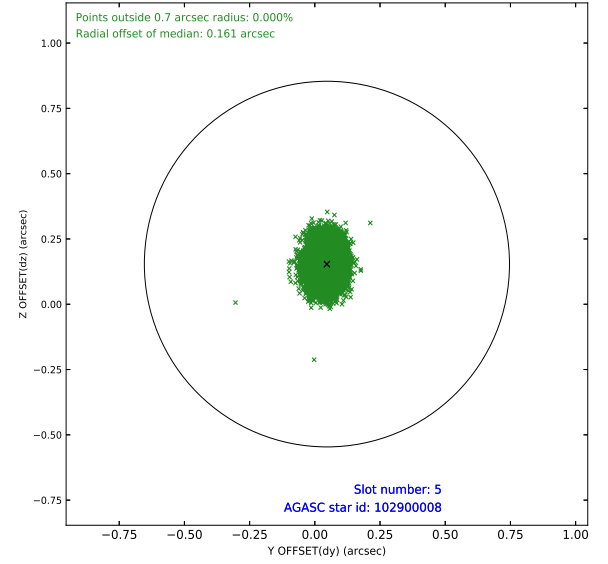
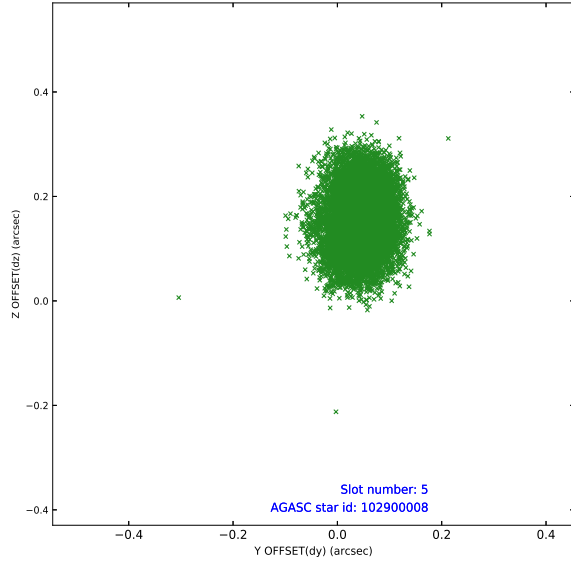
2.4.1 Slot 3



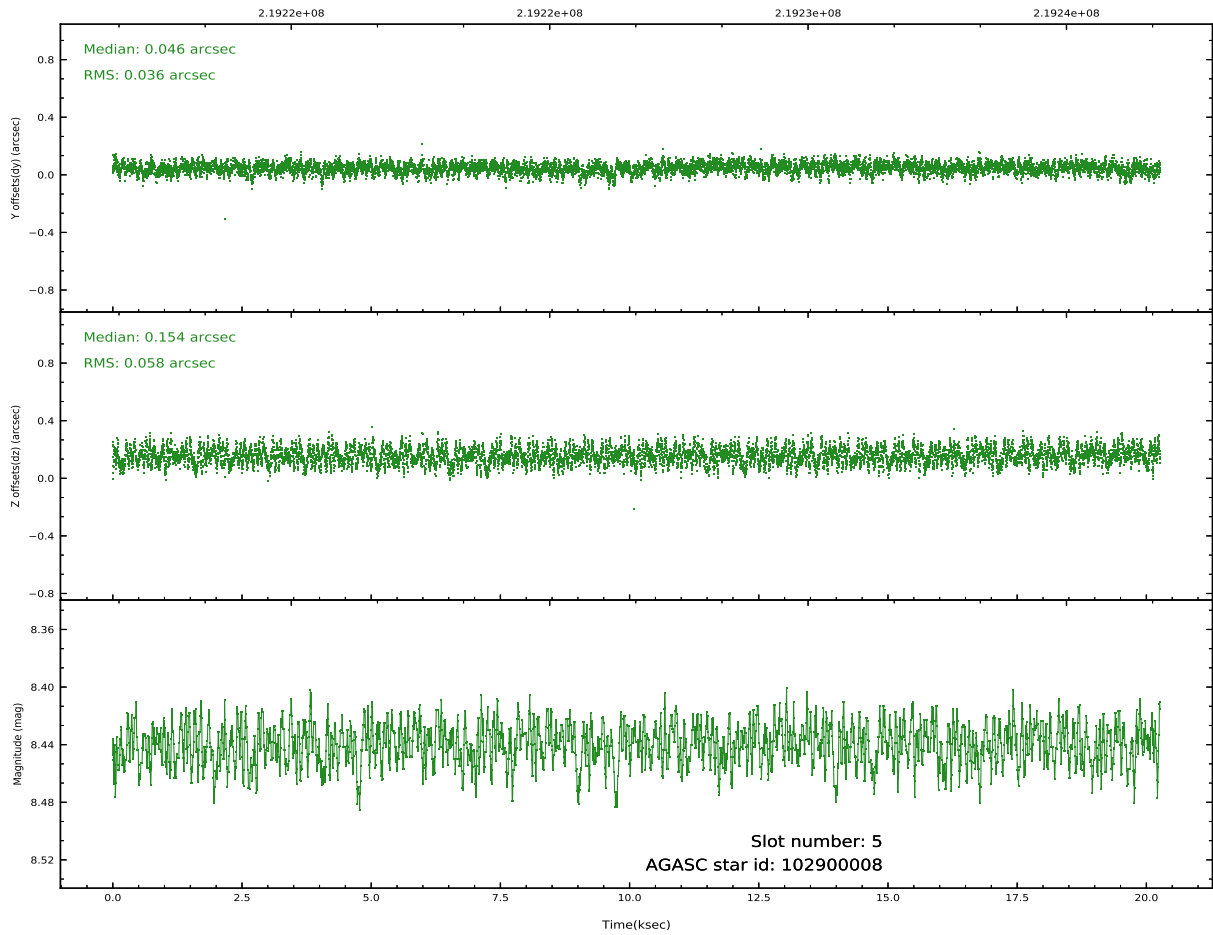
2.4.2 Slot 4



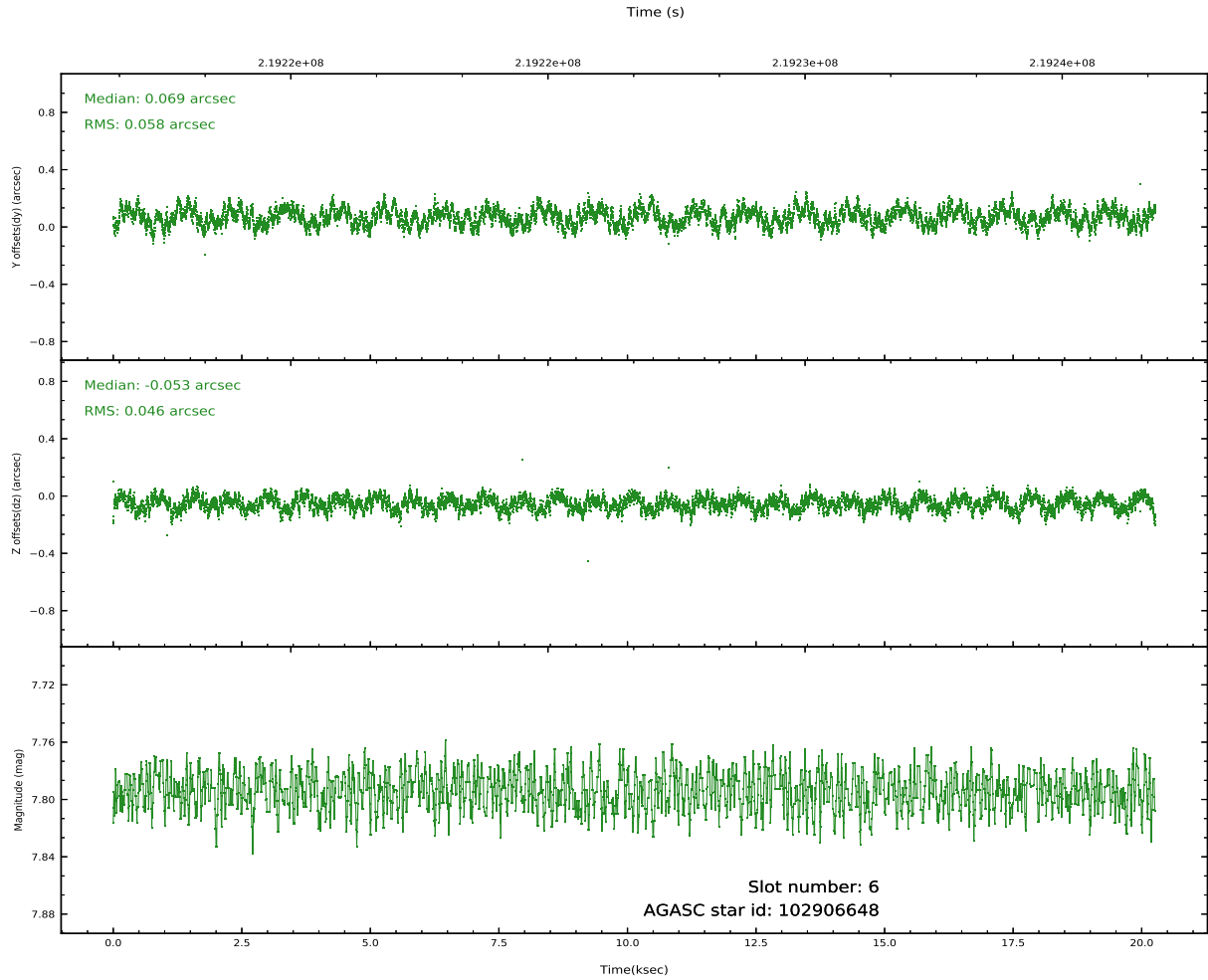
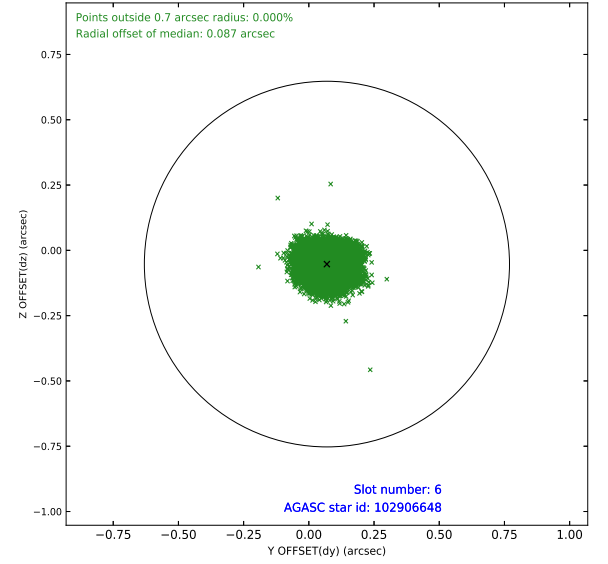
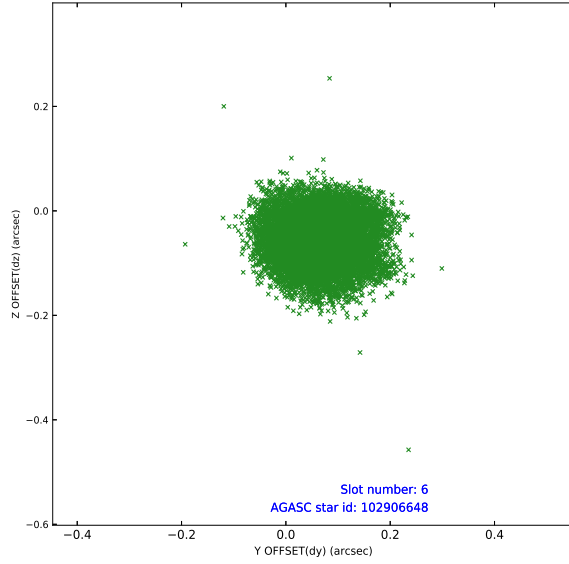
2.4.3 Slot 5



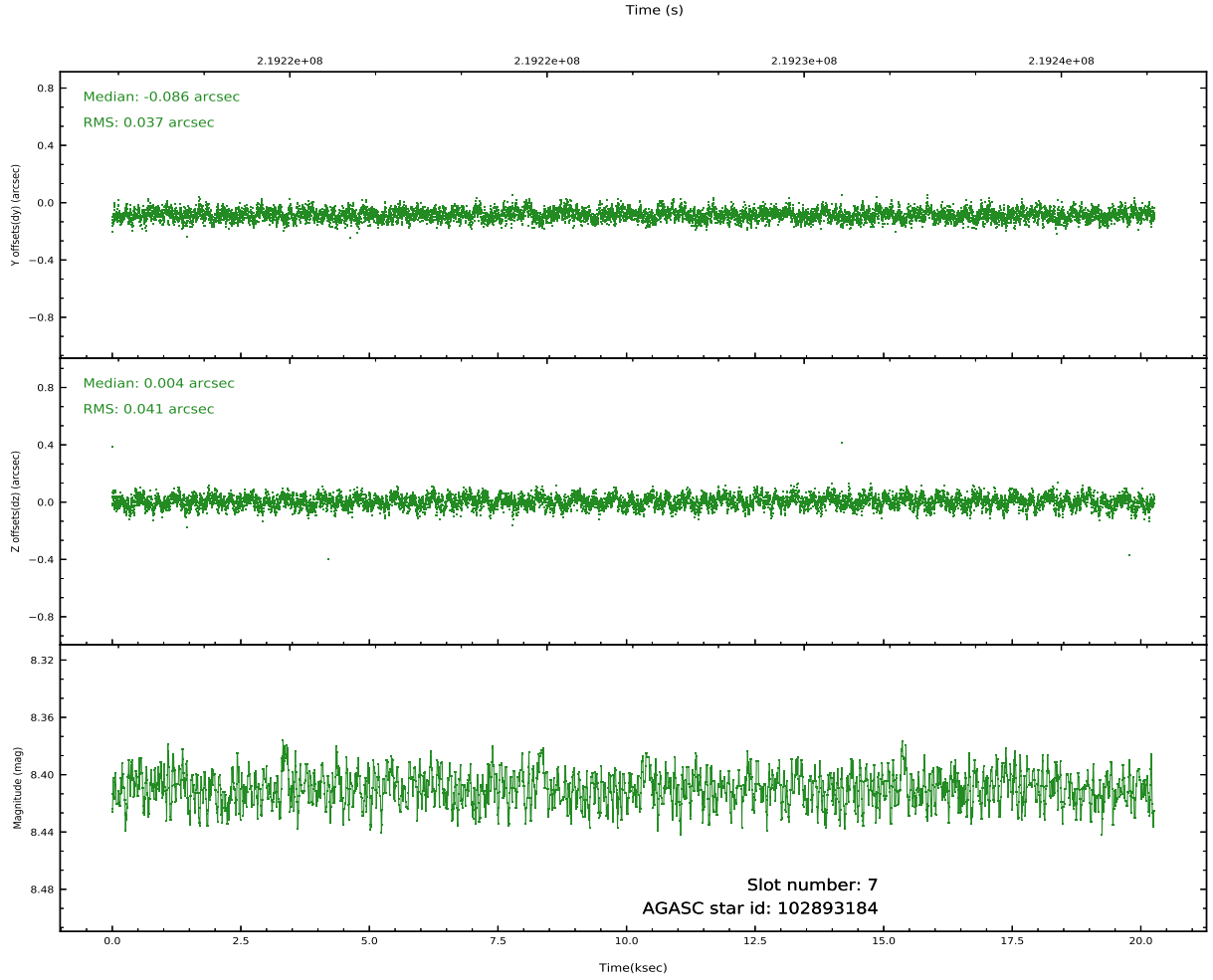
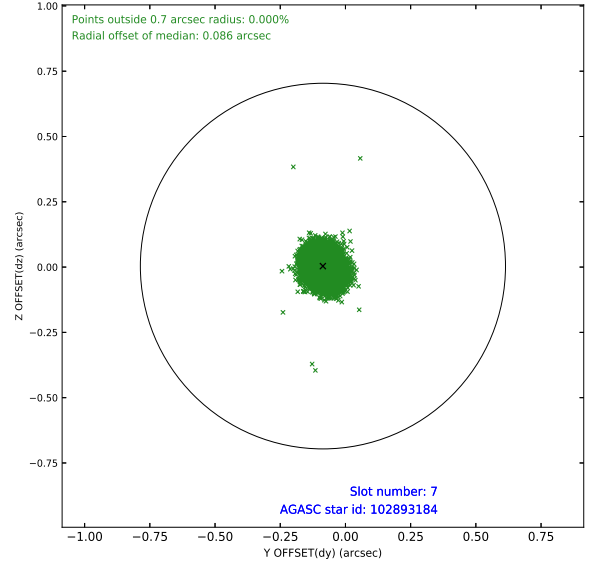
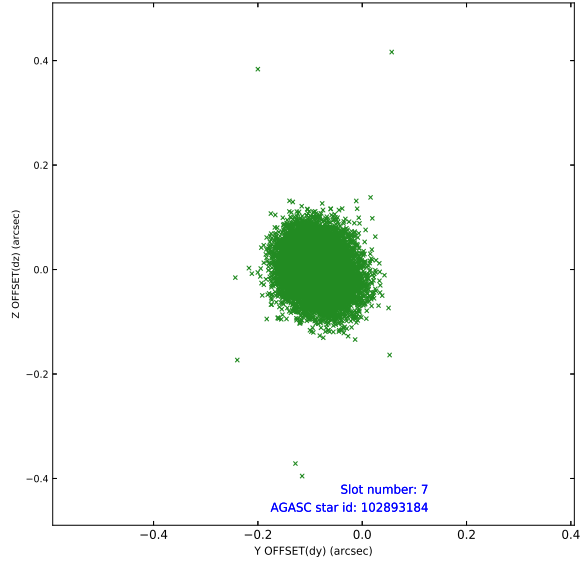
Time (s)



2.4.4 Slot 6

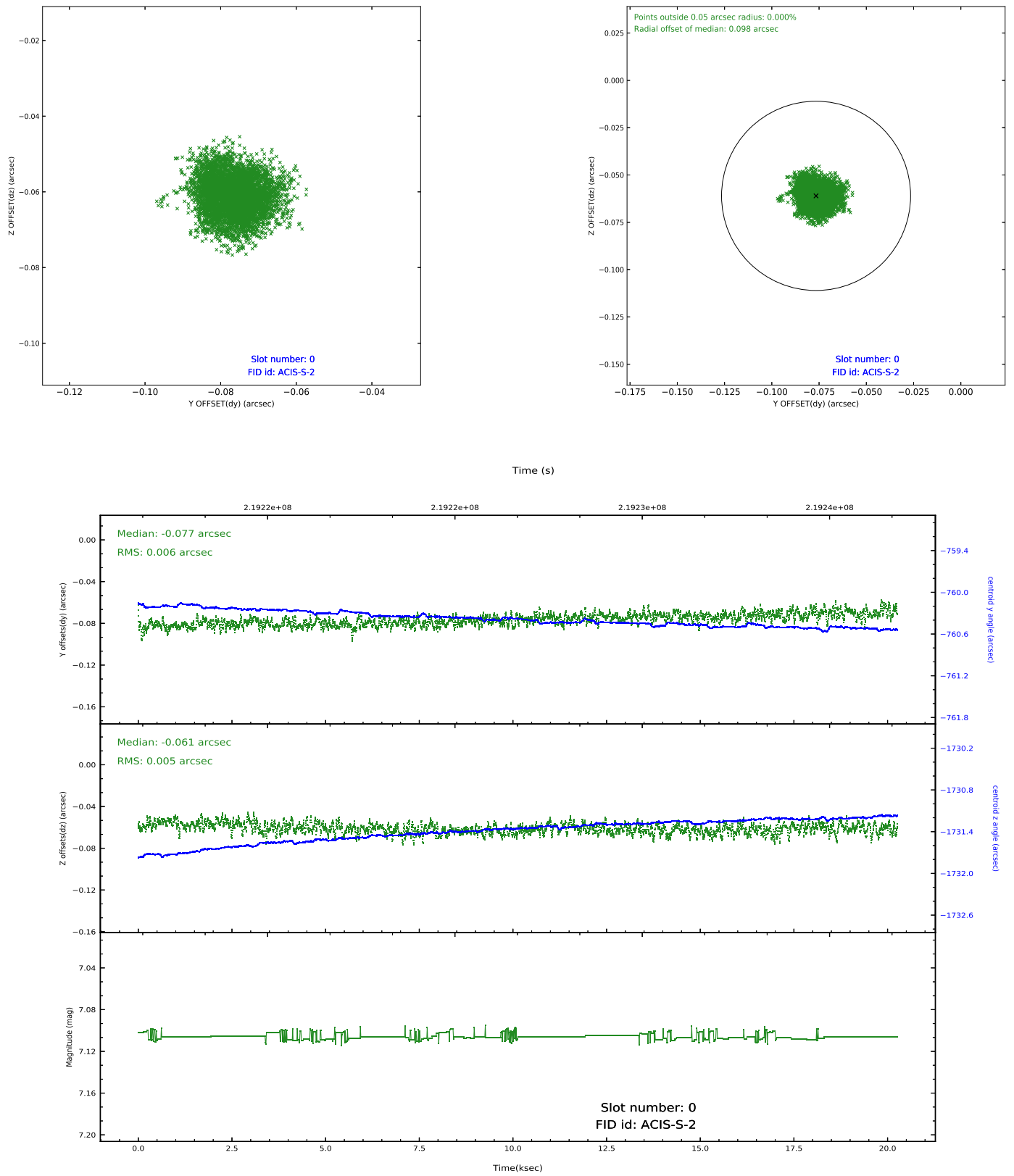


2.4.5 Slot 7

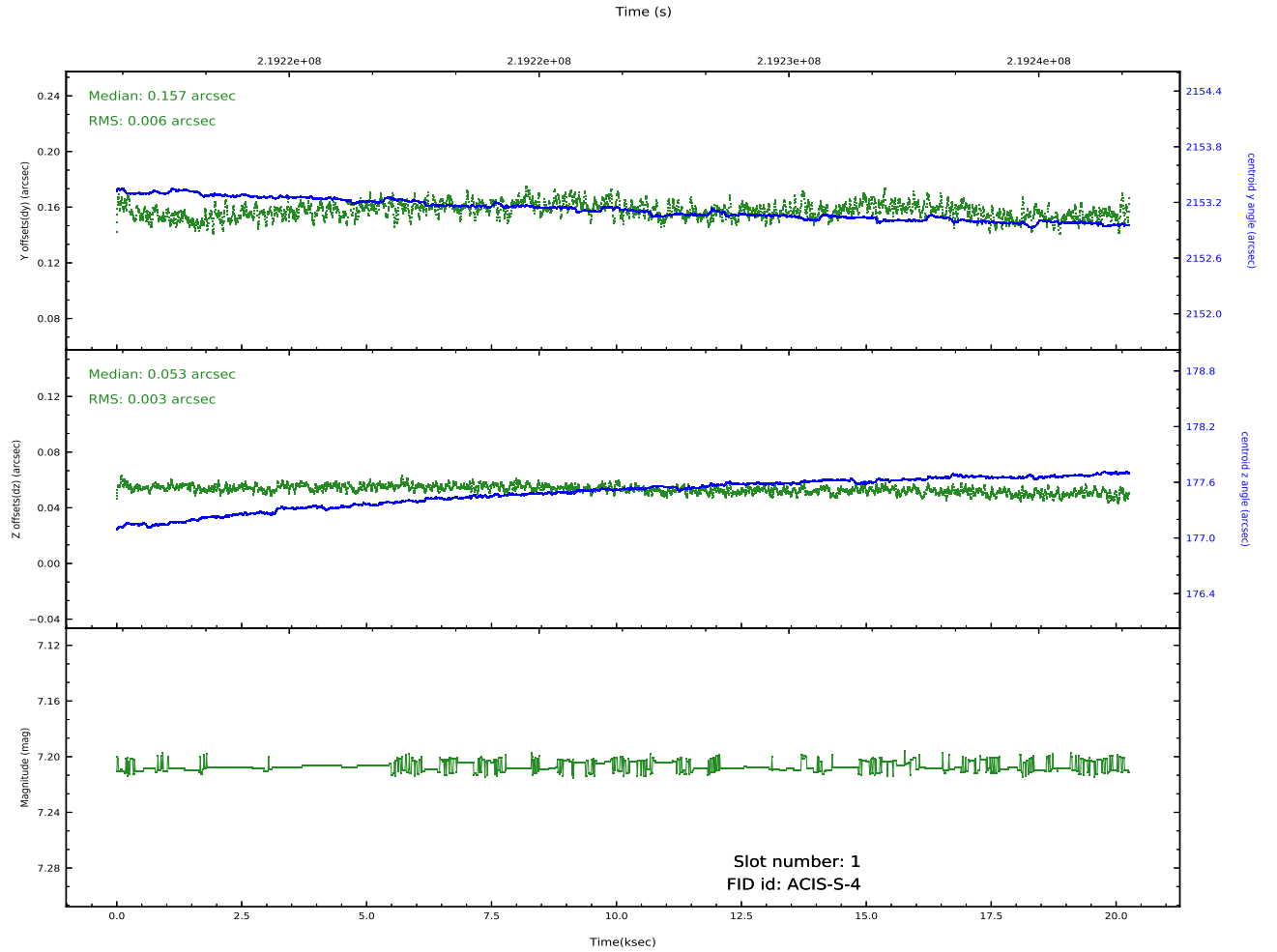
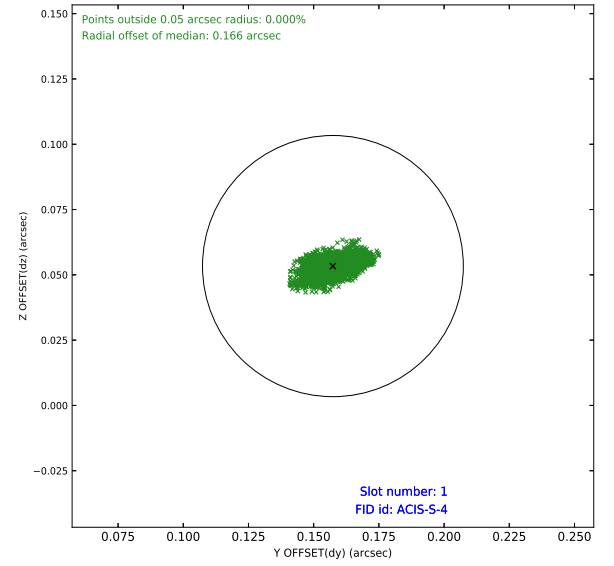
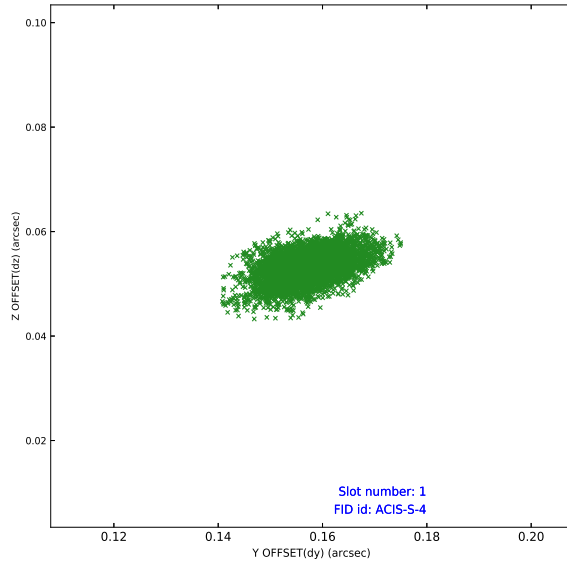


2.5 FID Slots

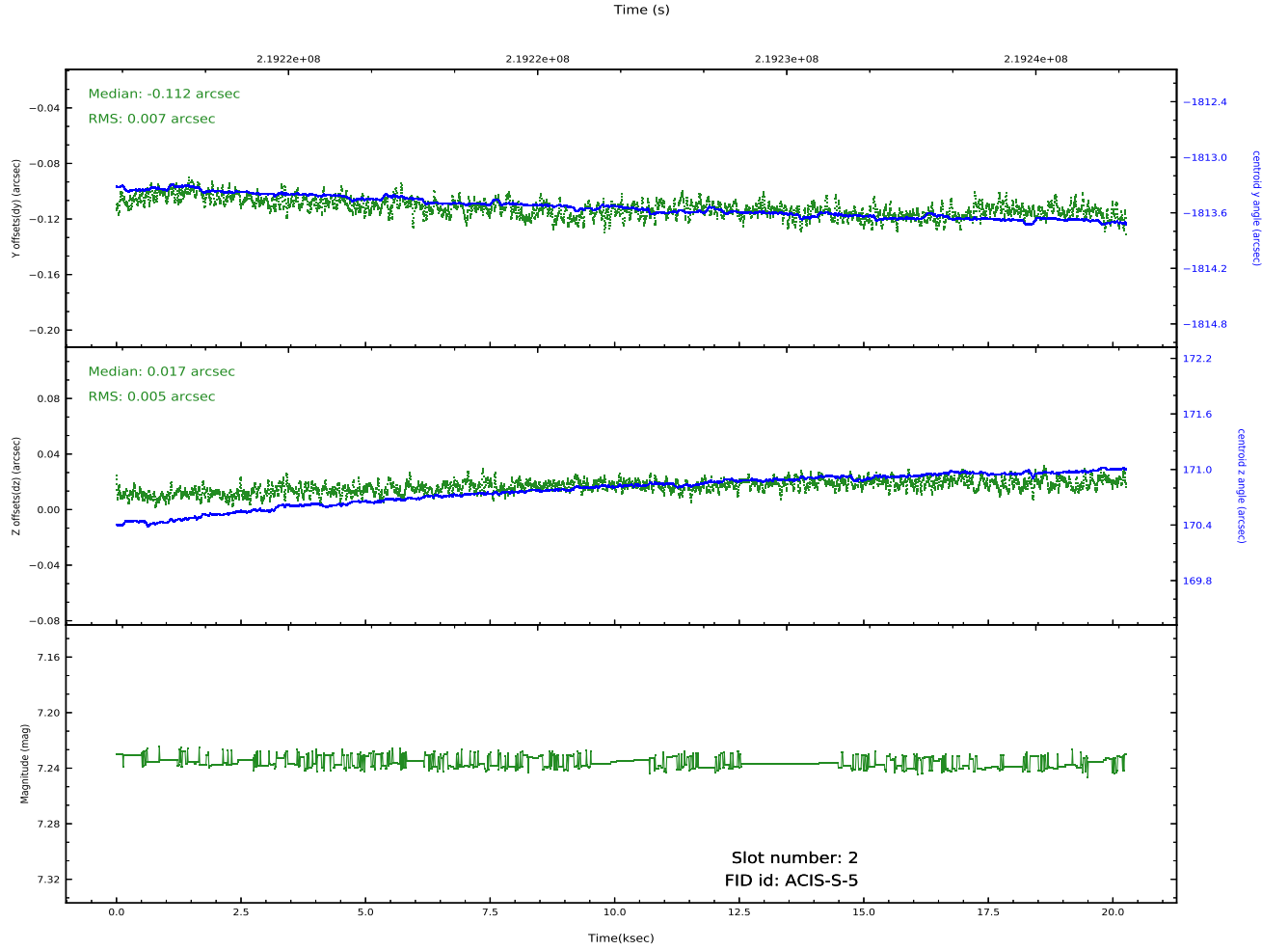
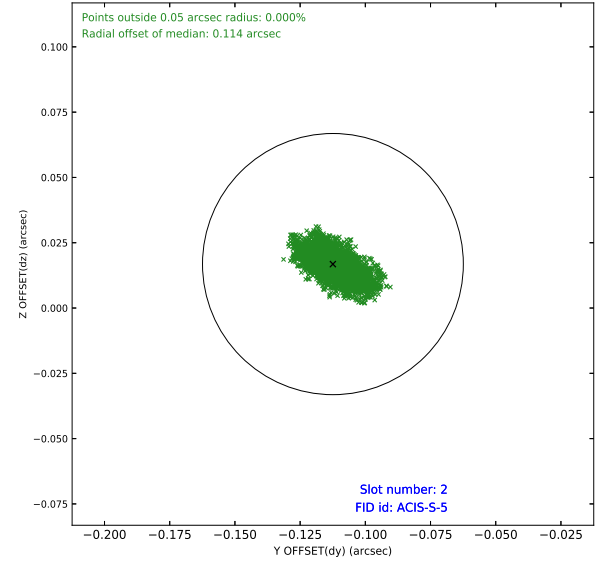
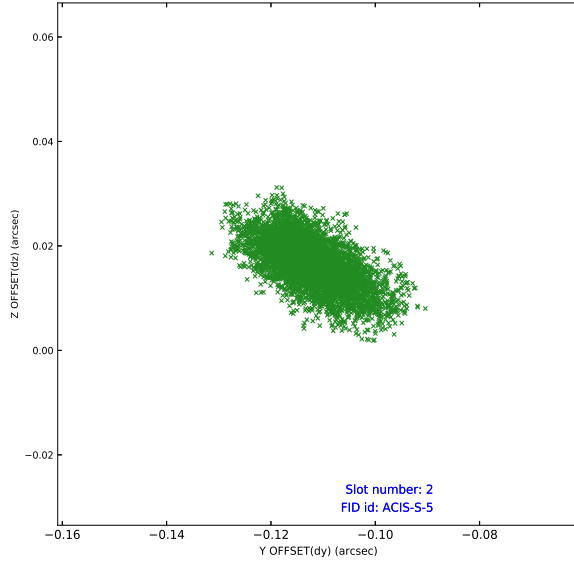
2.5.1 Slot 0



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)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.03529

A.2 Comments