

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4751 - L2 Version 4
Chandra X-Ray Center

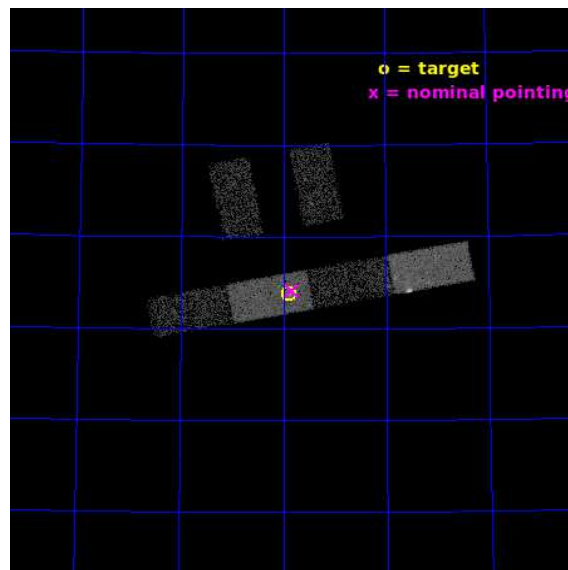
L2 Processing Date : Sep 23 2020

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1 Front

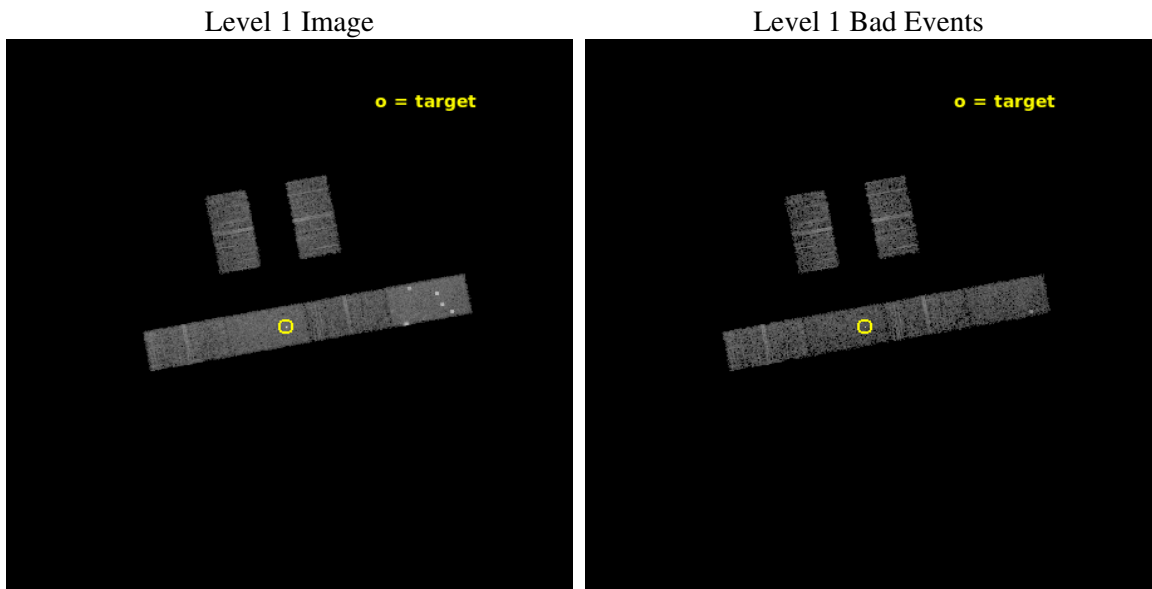
seq_num	600406	Sequence number
obs_id	4751	Observation id
title	Observations of Intermediate Mass Black Hole Candidate Ultra-Luminous X-ray Sources	Proposal title
observer	Jon Miller	Principal investigator
object	M81	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	149.47625	Observer's specified target RA [deg]
dec_targ	69.062889	Observer's specified target Dec [deg]
ra_nom	149.45853691933	Nominal RA [deg]
dec_nom	69.069039024521	Nominal Dec [deg]
roll_nom	169.32410888705	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5077.8000336289	Sum of GTIs [s]
livetime	4964.6069941621	Livetime [s]
ontime2	5077.8000336289	Sum of GTIs [s]
ontime3	5077.8000336289	Sum of GTIs [s]
ontime5	5077.8000336289	Sum of GTIs [s]
ontime6	5077.8000336289	Sum of GTIs [s]
ontime7	5077.8000336289	Sum of GTIs [s]
ontime8	5077.8000336289	Sum of GTIs [s]
l2events	30732	Number of level 2 events



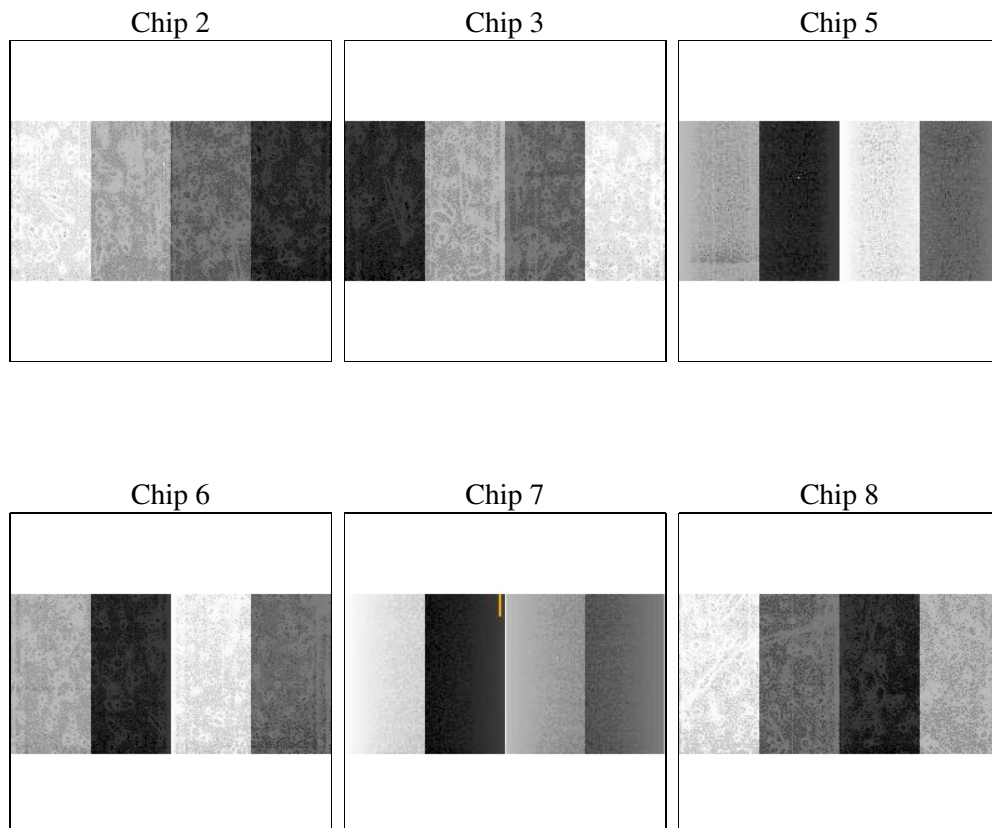
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4934.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5077.8000336289	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	5077.8000336289	Sum of GTIs [s]
date	2020-09-23T03:38:37	Date and time of file creation	ontime3	5077.8000336289	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	5077.8000336289	Sum of GTIs [s]
			ontime6	5077.8000336289	Sum of GTIs [s]
			ontime7	5077.8000336289	Sum of GTIs [s]
			ontime8	5077.8000336289	Sum of GTIs [s]
			l1events	169205	Number of level 1 events

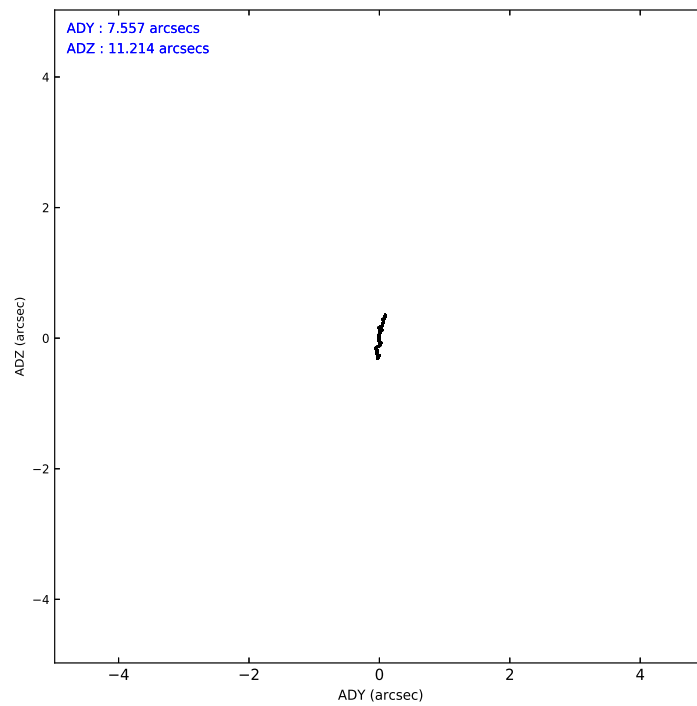
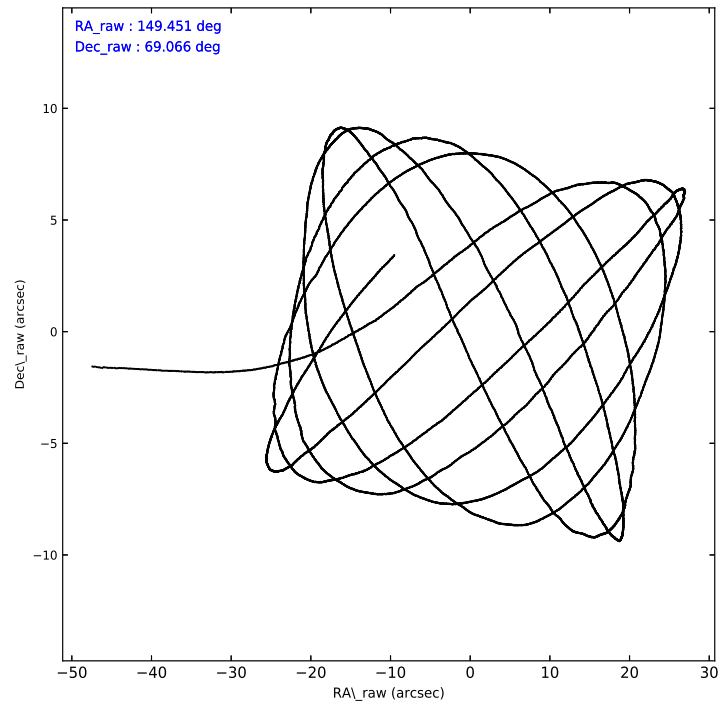
2.1.4 Events

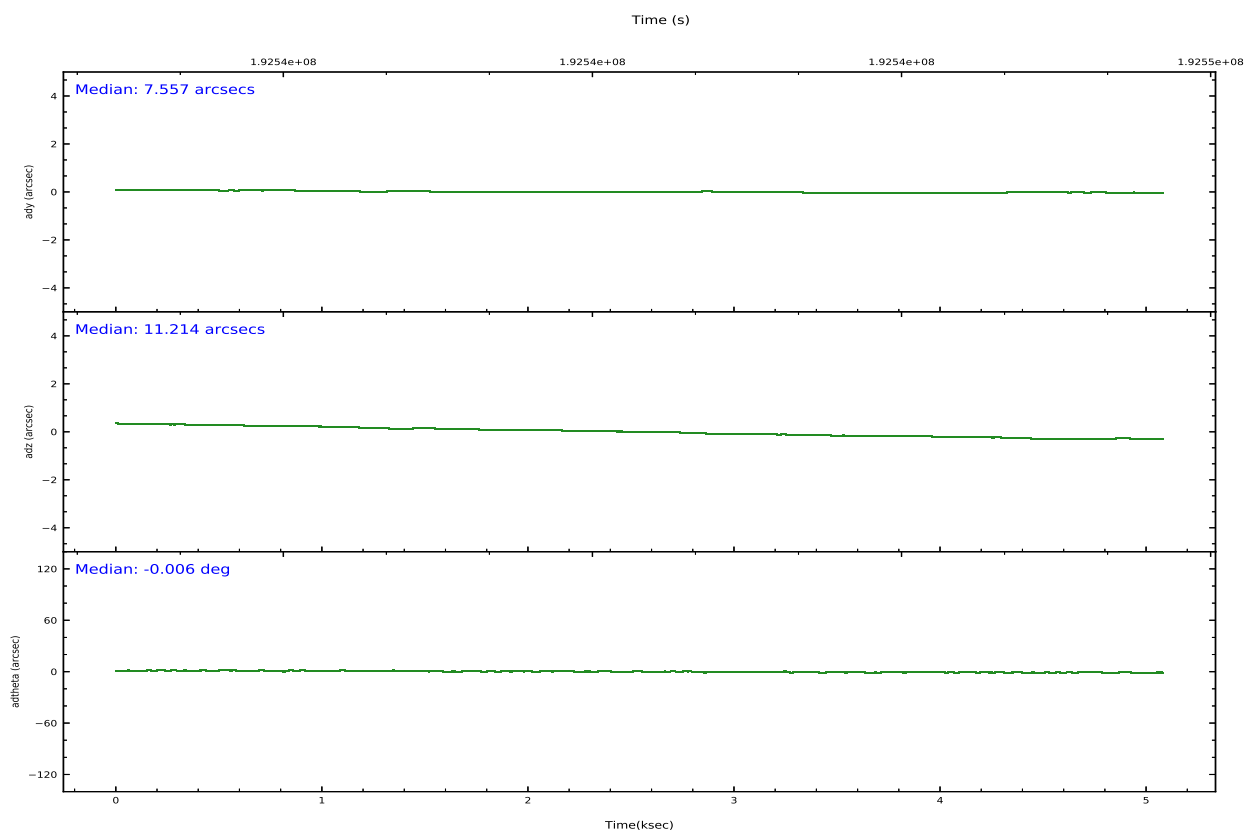
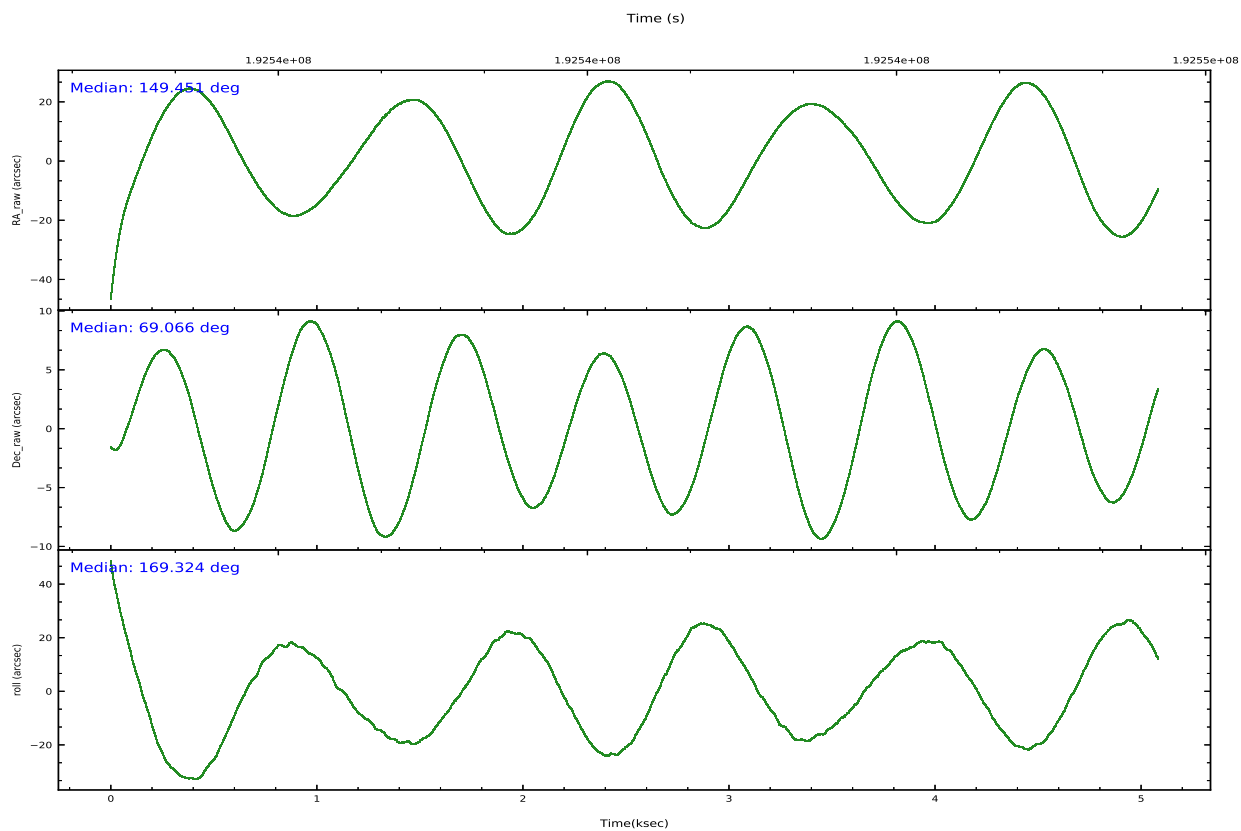
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	23426	21350	42097	22326	32546	27460	grade 0 events	1153	1082	8966	1104	1579	1654
rejected events	21290	19436	23050	20230	20969	23405		4%	5%	21%	4%	4%	6%
rejected %	90%	91%	54%	90%	64%	85%	grade 1 events	7	9	47	8	101	13
								0%	0%	0%	0%	0%	0%
							grade 2 events	543	487	5998	536	2953	1198
								2%	2%	14%	2%	9%	4%
							grade 3 events	327	299	936	316	1466	672
								1%	1%	2%	1%	4%	2%
							grade 4 events	316	276	902	288	1410	639
								1%	1%	2%	1%	4%	2%
							grade 5 events	821	966	2537	993	3107	1252
								3%	4%	6%	4%	9%	4%
							grade 6 events	440	430	7671	524	7168	1427
								1%	2%	18%	2%	22%	5%
							grade 7 events	19819	17801	15040	18557	14762	20605
								84%	83%	35%	83%	45%	75%

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	149.522569	149.45853691933	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	69.075678	69.069039024521	Subarray start row	257	257
[deg] Pointing Roll	169.103054	169.32410888705	Subarray row count	512	512
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1.8
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	192540336.184000	192538508.80159			
Observation start date	2004-02-07T11:24:32	2004-02-07T10:55:08			
[s] Observation end time (MET)	192545270.184000	192546183.48942			
Observation end date	2004-02-07T12:46:46	2004-02-07T13:03:03			
Read mode	TIMED	TIMED			

2.3 Aspect



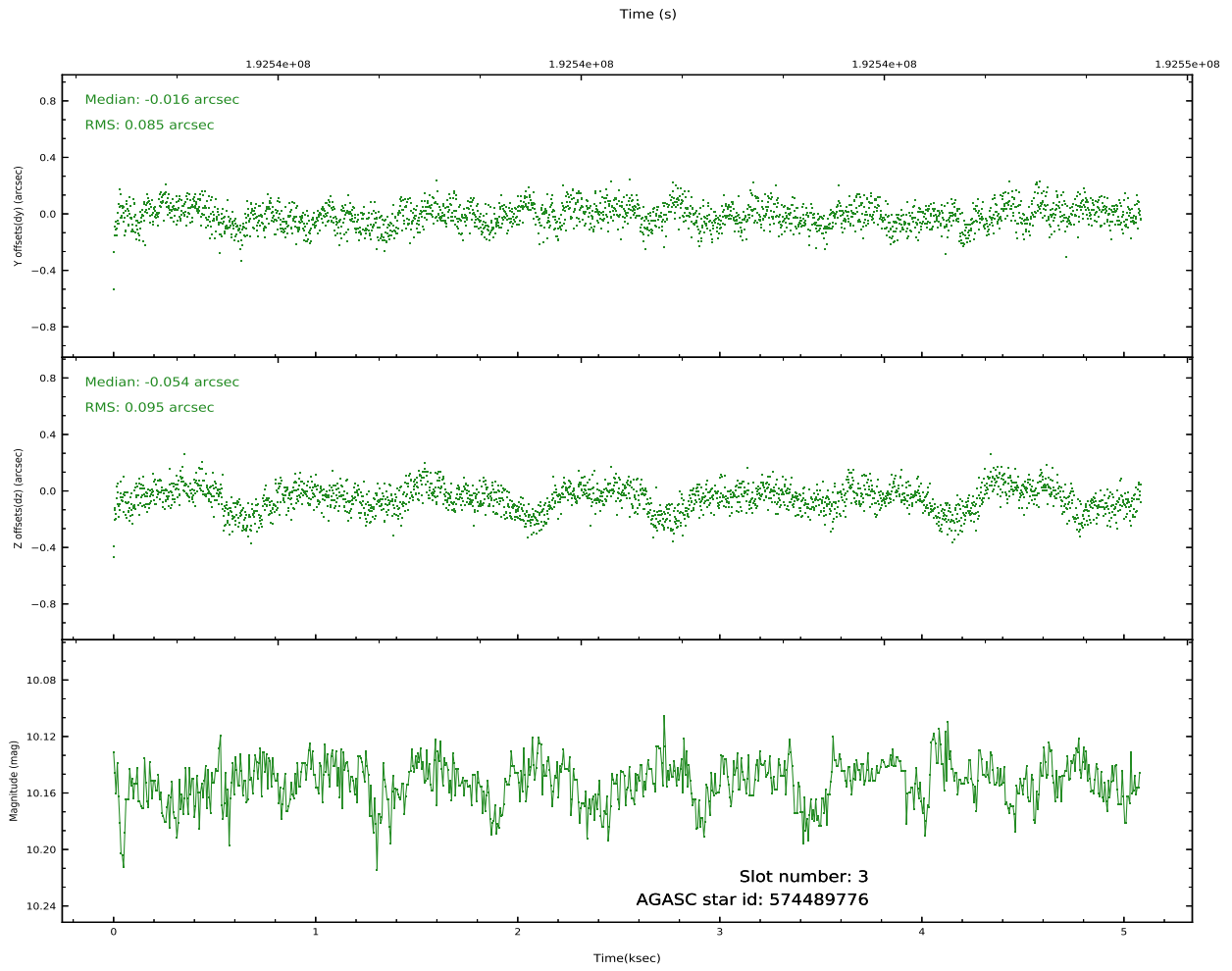
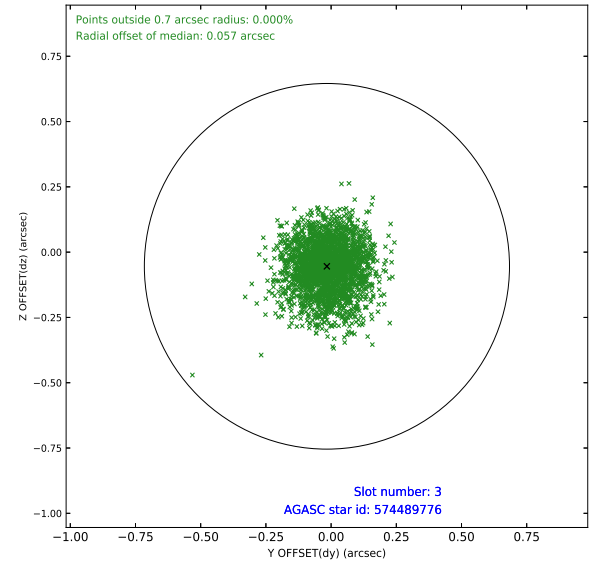
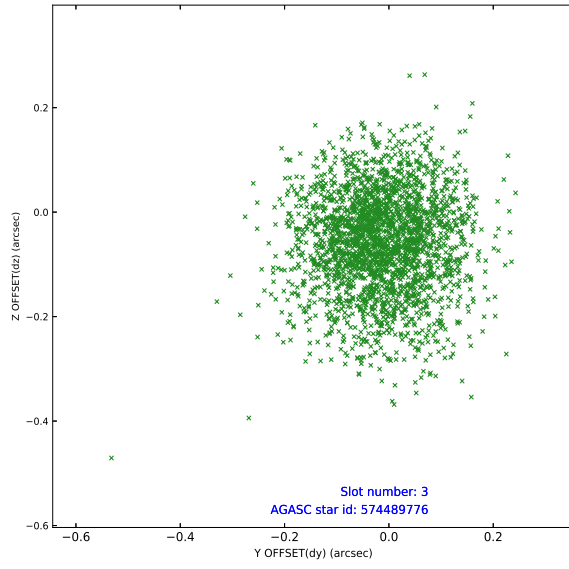


Slot Statistics

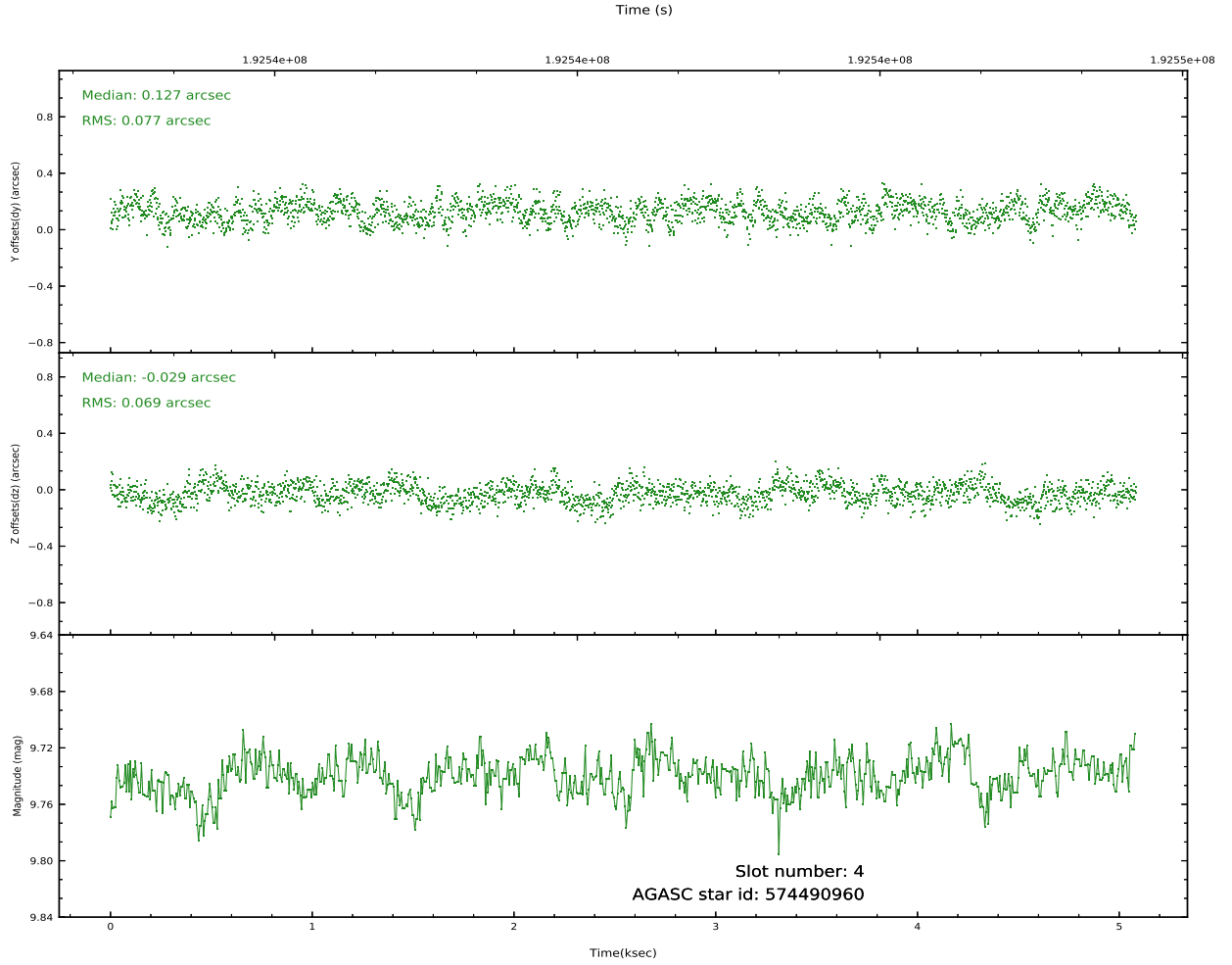
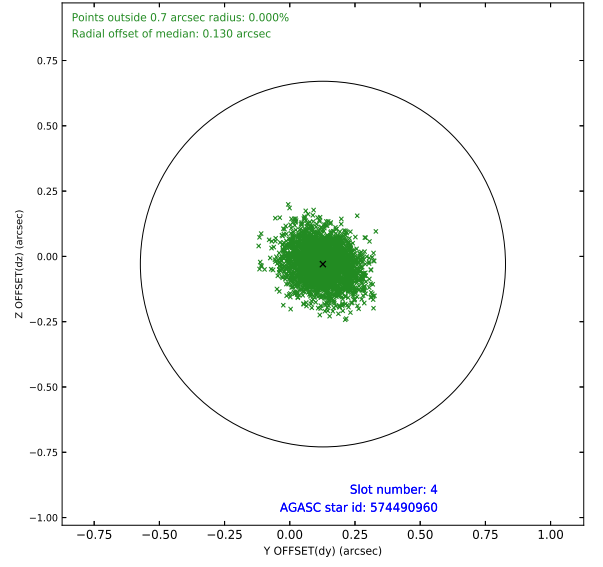
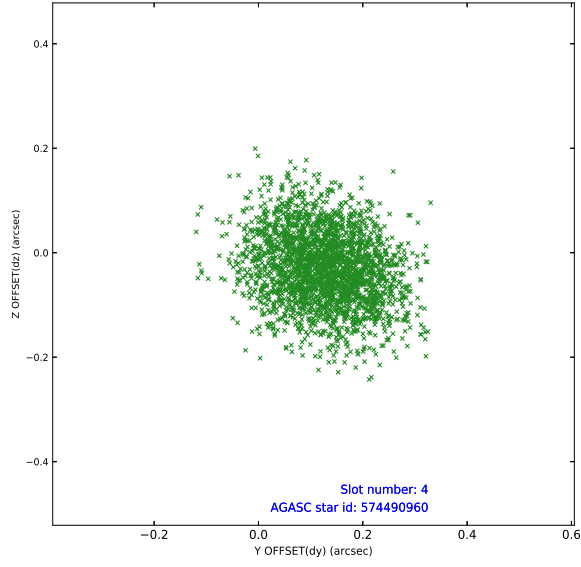
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1240	1.000	-0.058	-0.042	0.007	0.012	0.000000	0.000000	-760.34	-1732
1	FID		ACIS-S-4	7.20	1240	1.000	0.123	0.039	0.006	0.010	0.000000	0.000000	2152.52	174
2	FID		ACIS-S-5	7.23	1241	1.000	-0.097	0.011	0.007	0.014	0.000000	0.000000	-1811.74	169
3	GUIDE	used	574489776	10.15	2479	1.000	-0.016	-0.054	0.135	0.219	148.323662	69.046710	1498.66	379
4	GUIDE	used	574490960	9.74	2479	1.000	0.127	-0.029	0.111	0.176	148.185918	69.658768	2043.85	-1762
5	GUIDE	used	574491184	9.07	2479	1.000	-0.065	-0.012	0.090	0.145	148.582453	69.768699	1623.79	-2238
6	GUIDE	used	574491280	9.34	2457	1.000	0.005	0.058	0.091	0.149	148.611567	69.450135	1388.19	-1114
7	GUIDE	used	574496360	9.45	2480	1.000	-0.054	0.043	0.093	0.149	150.806604	68.529829	-2029.16	1591

2.4 Star Slots

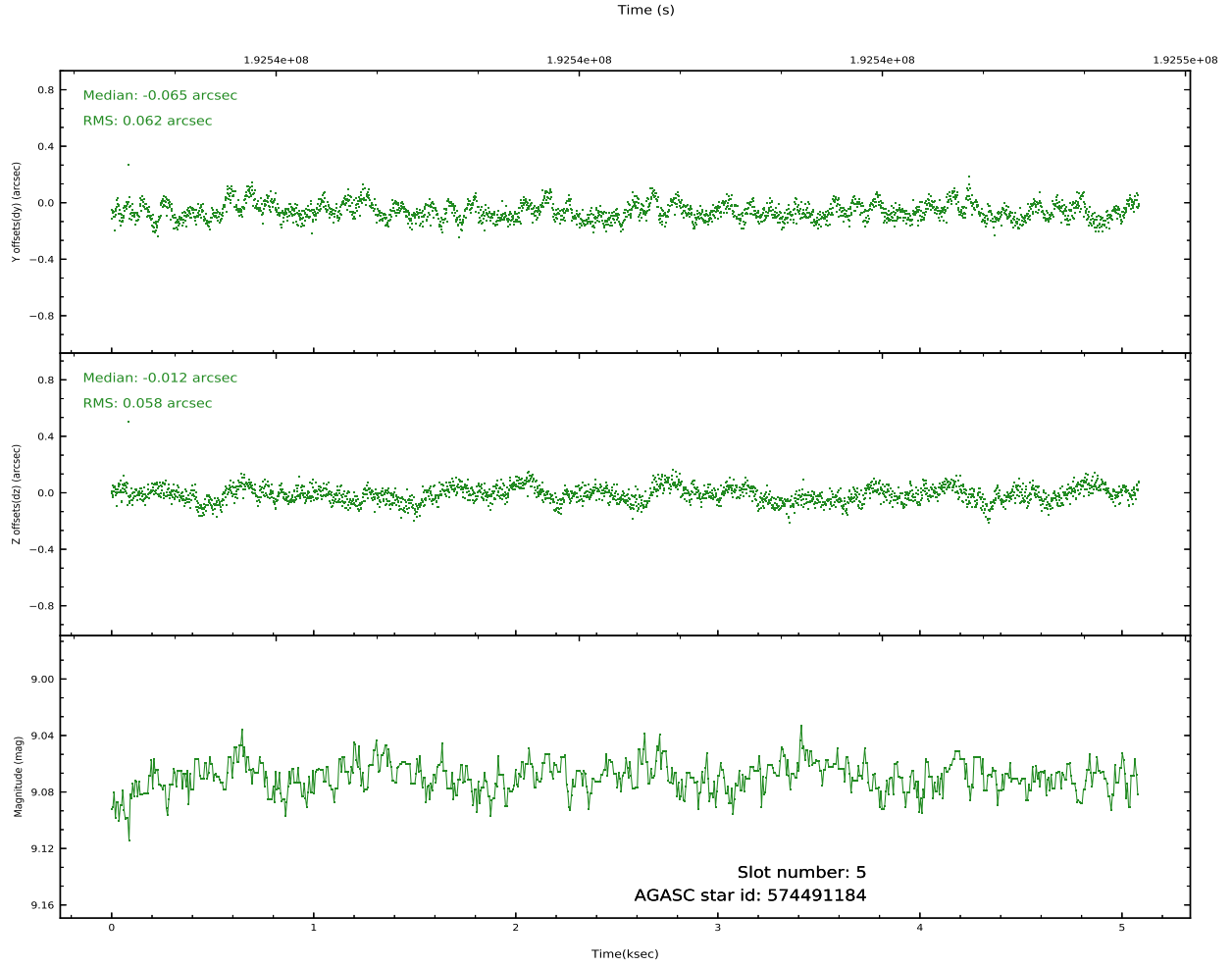
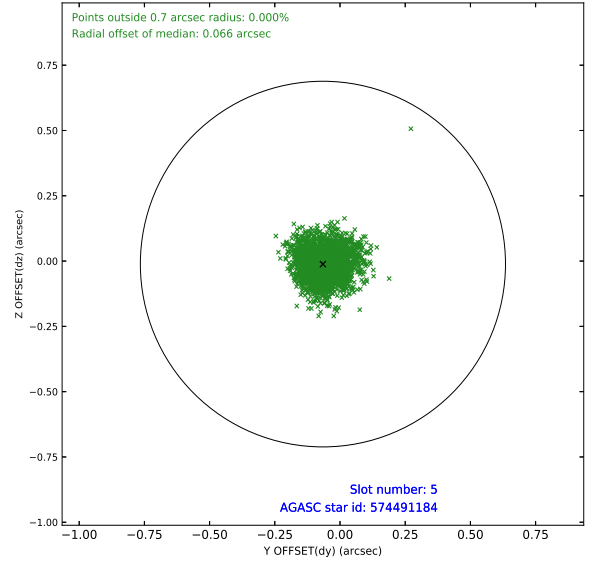
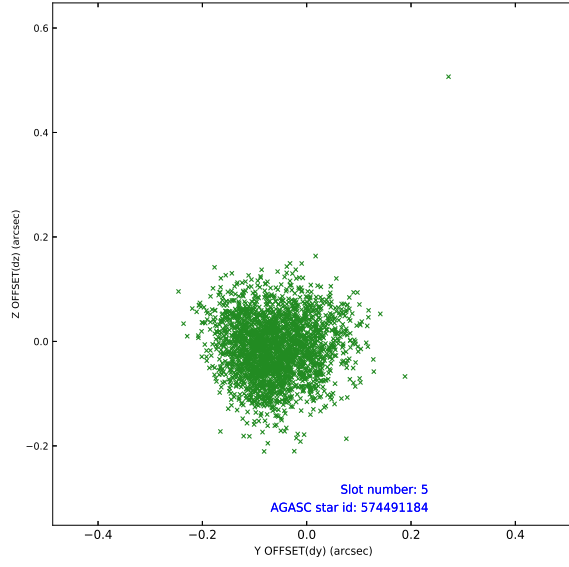
2.4.1 Slot 3



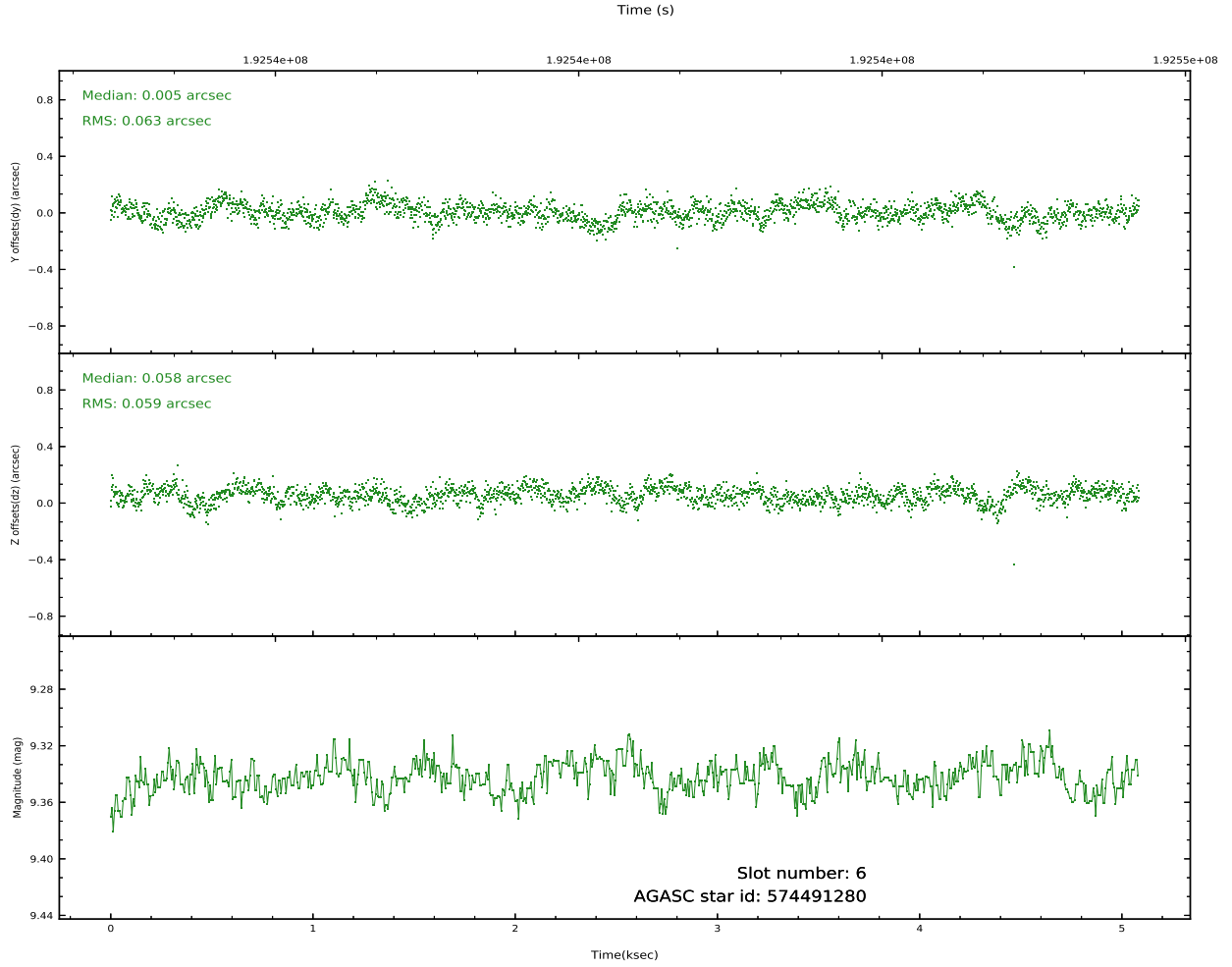
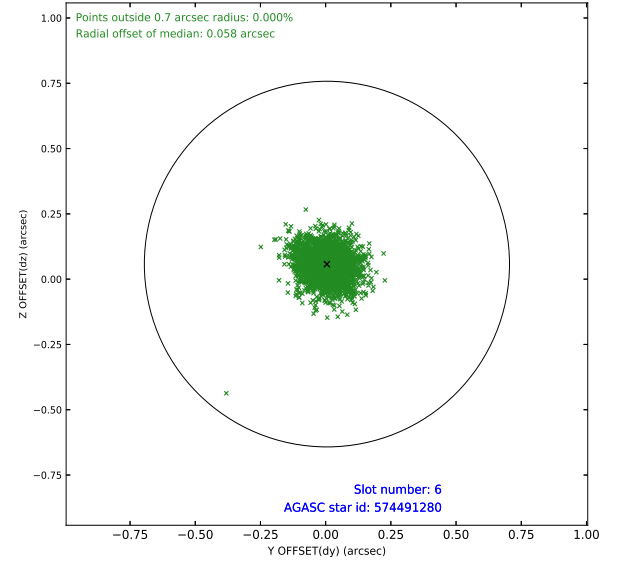
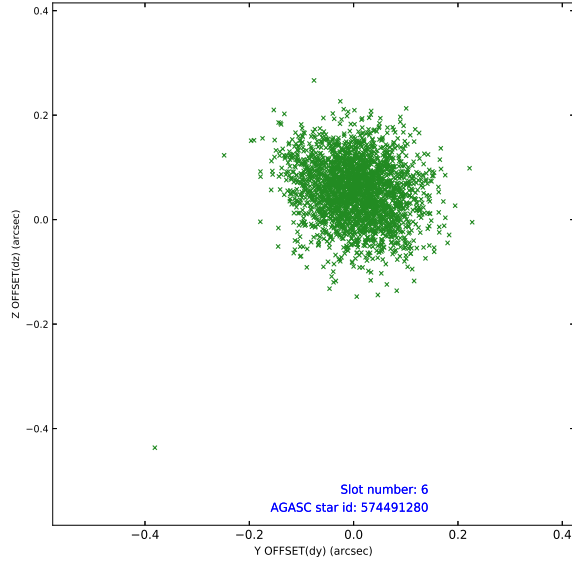
2.4.2 Slot 4



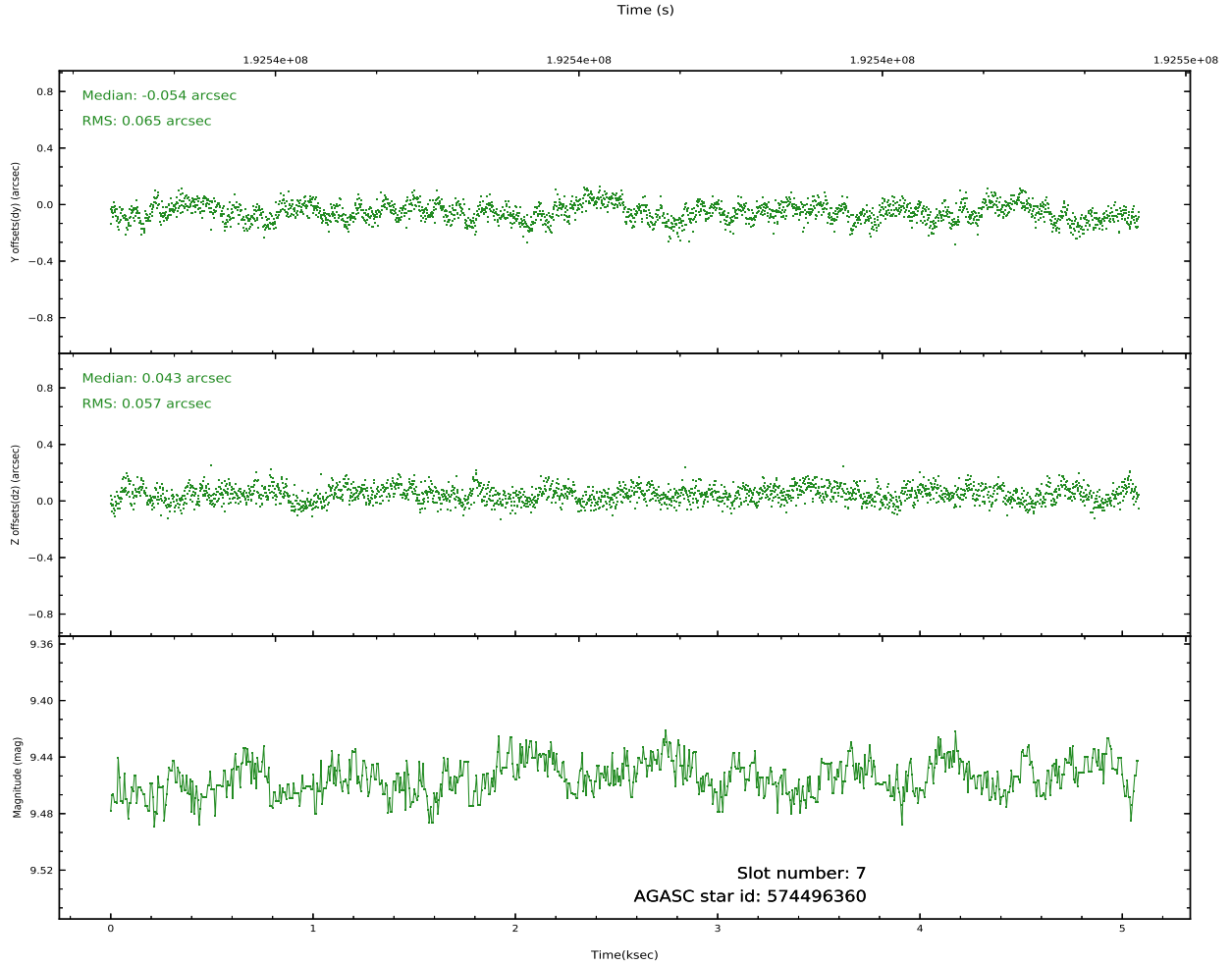
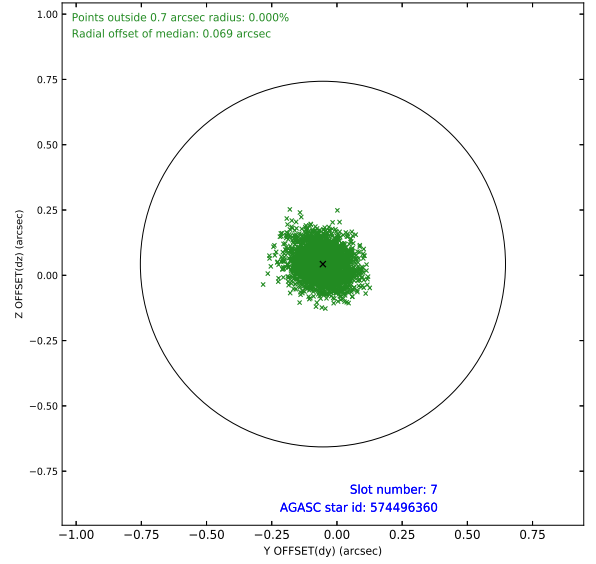
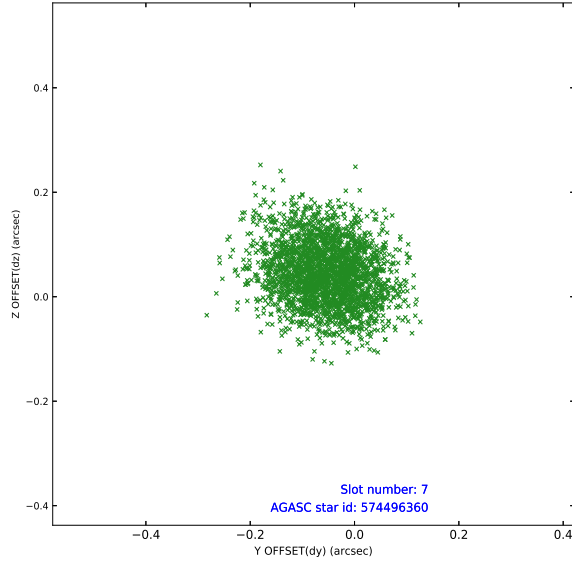
2.4.3 Slot 5



2.4.4 Slot 6

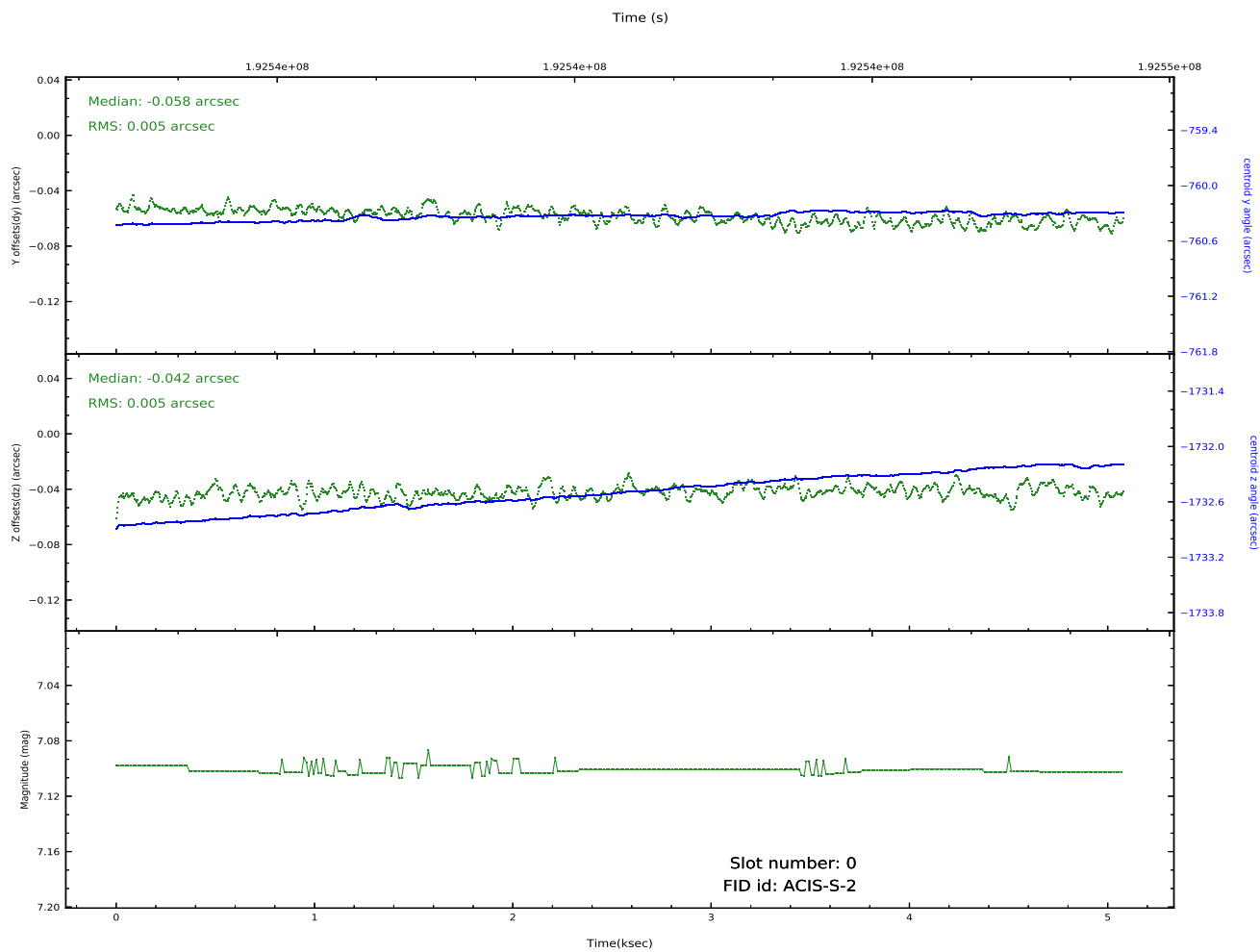
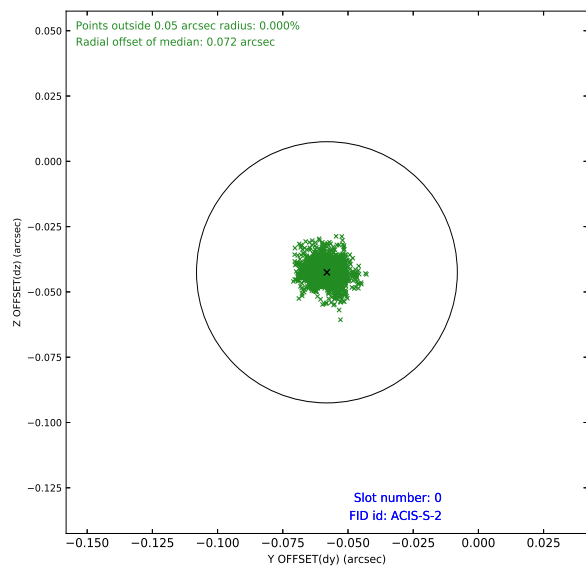
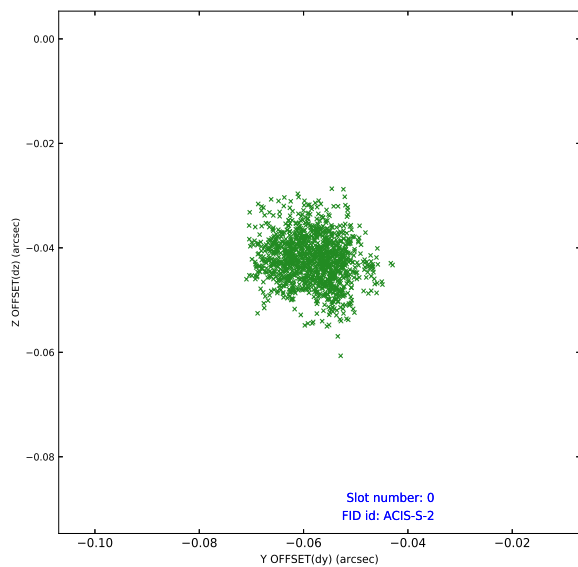


2.4.5 Slot 7

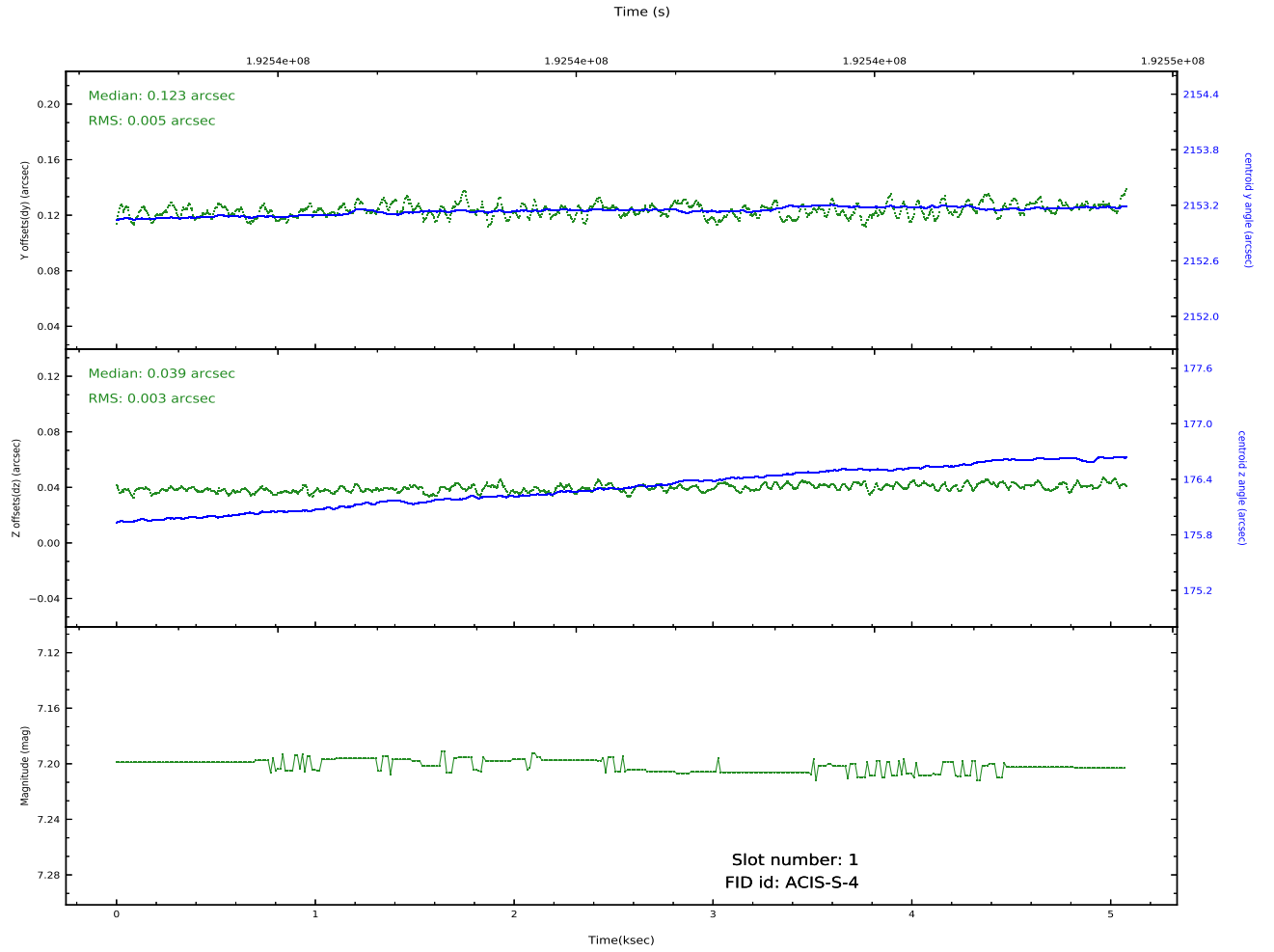
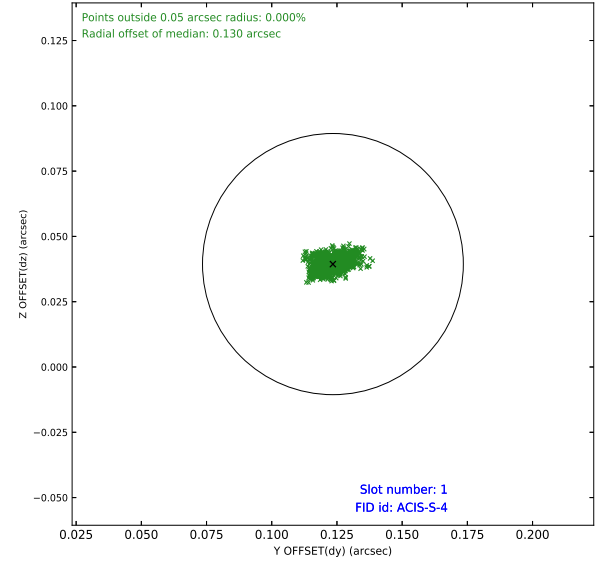
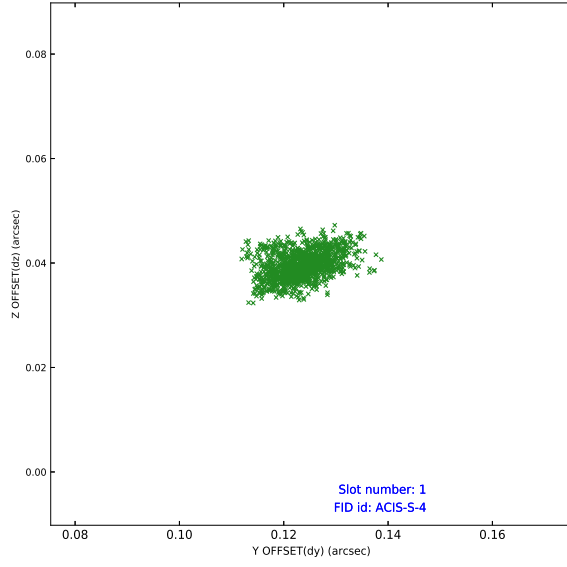


2.5 FID Slots

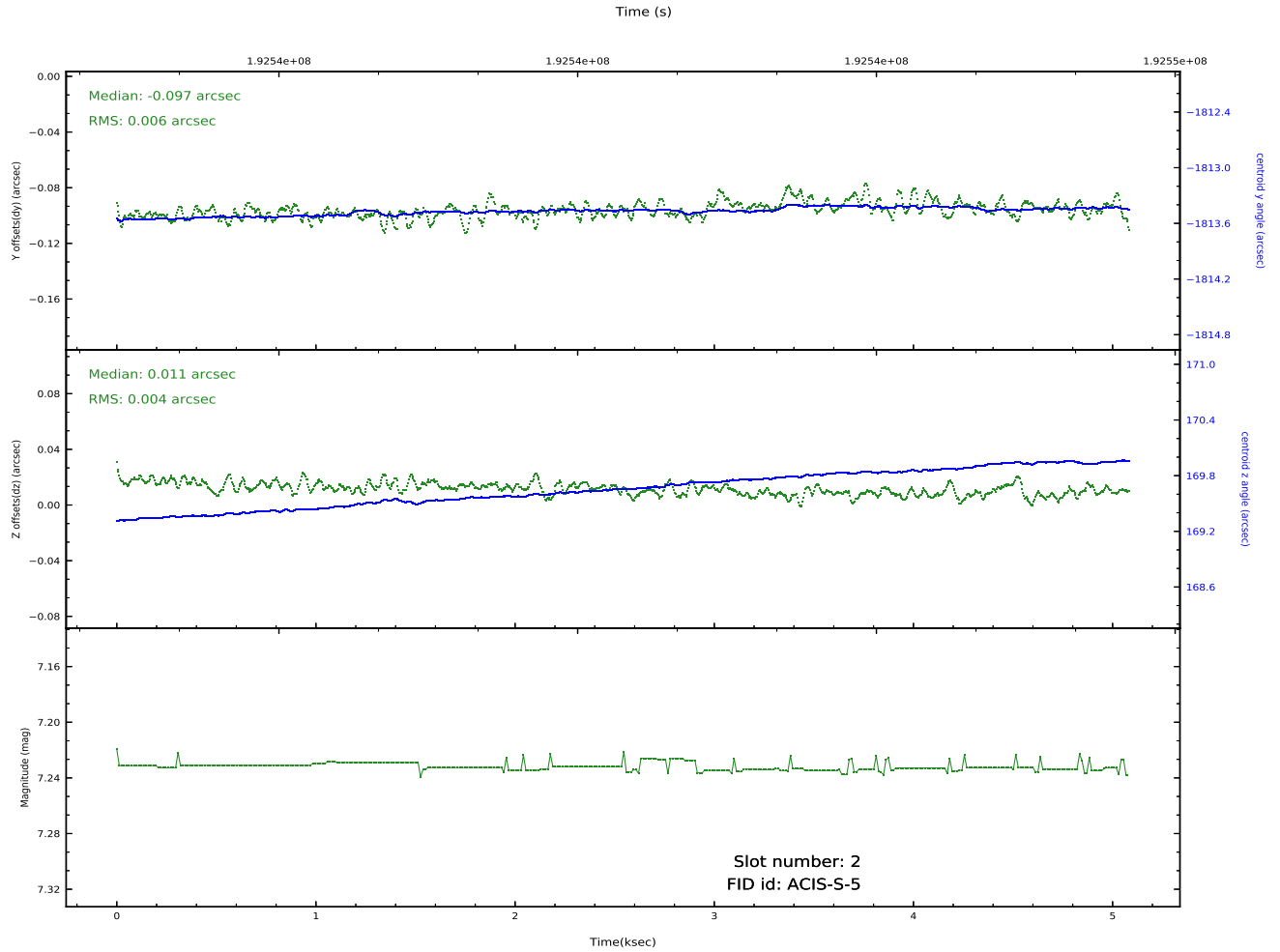
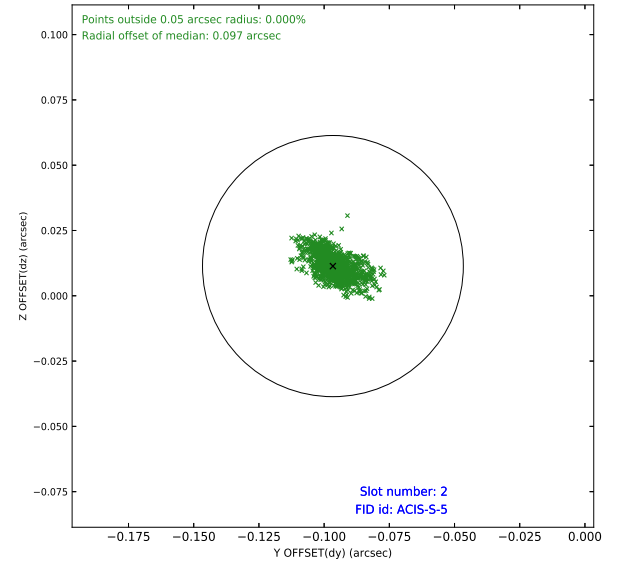
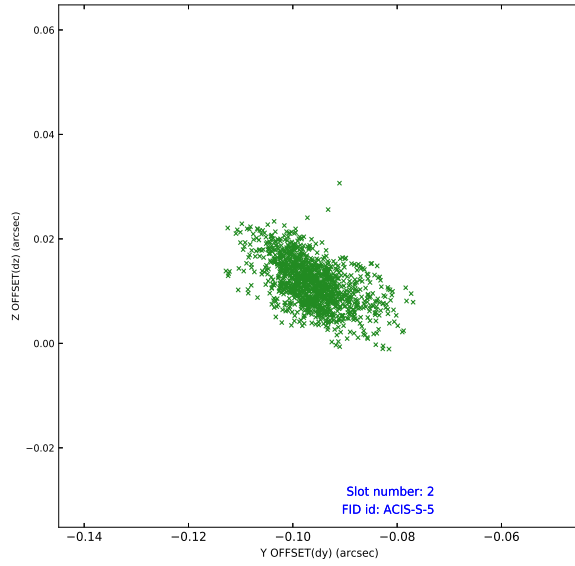
2.5.1 Slot 0



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)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.077

A.2 Comments

Joint Proposal: CX0-HST