

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4632 - L2 Version 4
Chandra X-Ray Center

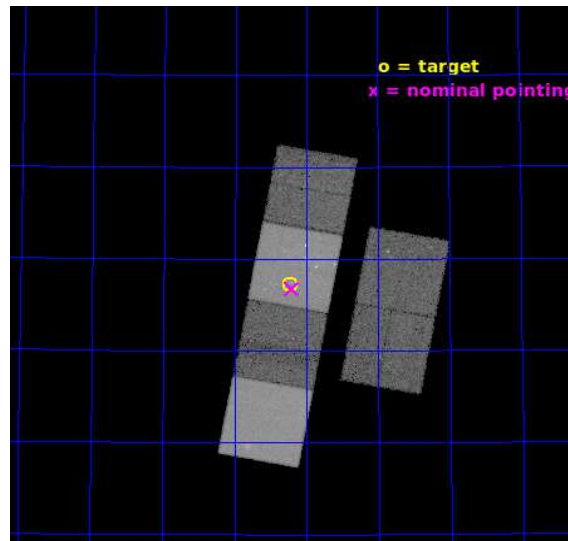
L2 Processing Date : Oct 4 2020

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1 Front

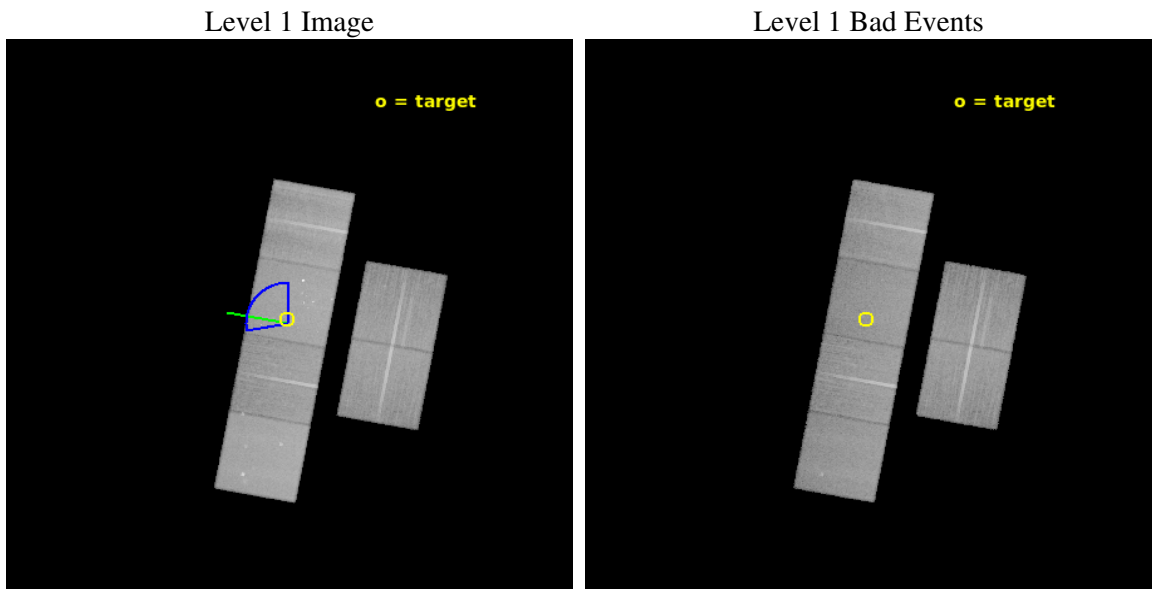
seq_num	500457	Sequence number
obs_id	4632	Observation id
title	Prompt Chandra Observations of Nearby Supernovae	Proposal title
observer	Prof. Walter Lewin	Principal investigator
object	SN 2004et	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	308.805833	Observer's specified target RA [deg]
dec_targ	60.121556	Observer's specified target Dec [deg]
ra_nom	308.80128619701	Nominal RA [deg]
dec_nom	60.112853410485	Nominal Dec [deg]
roll_nom	280.48570203698	Nominal Roll [deg]
revision	4	Processing version of data
ontime	28339.199894428	Sum of GTIs [s]
livetime	27980.351881547	Livetime [s]
ontime2	28339.199894428	Sum of GTIs [s]
ontime3	28335.958914131	Sum of GTIs [s]
ontime5	28339.199894428	Sum of GTIs [s]
ontime6	28339.199894428	Sum of GTIs [s]
ontime7	28339.199894428	Sum of GTIs [s]
ontime8	28339.199894428	Sum of GTIs [s]
l2events	375626	Number of level 2 events



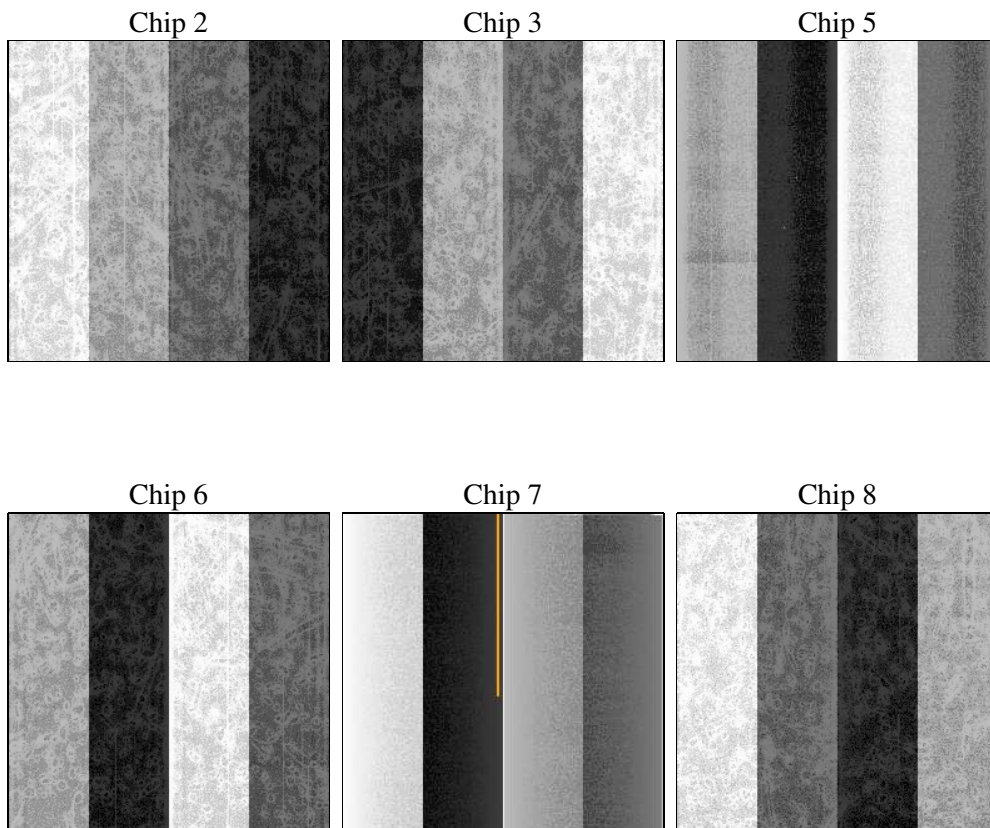
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	28162.024000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	28339.199894428	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	28339.199894428	Sum of GTIs [s]
date	2020-10-04T23:43:13	Date and time of file creation	ontime3	28335.958914131	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	28339.199894428	Sum of GTIs [s]
			ontime6	28339.199894428	Sum of GTIs [s]
			ontime7	28339.199894428	Sum of GTIs [s]
			ontime8	28339.199894428	Sum of GTIs [s]
			l1events	1619037	Number of level 1 events

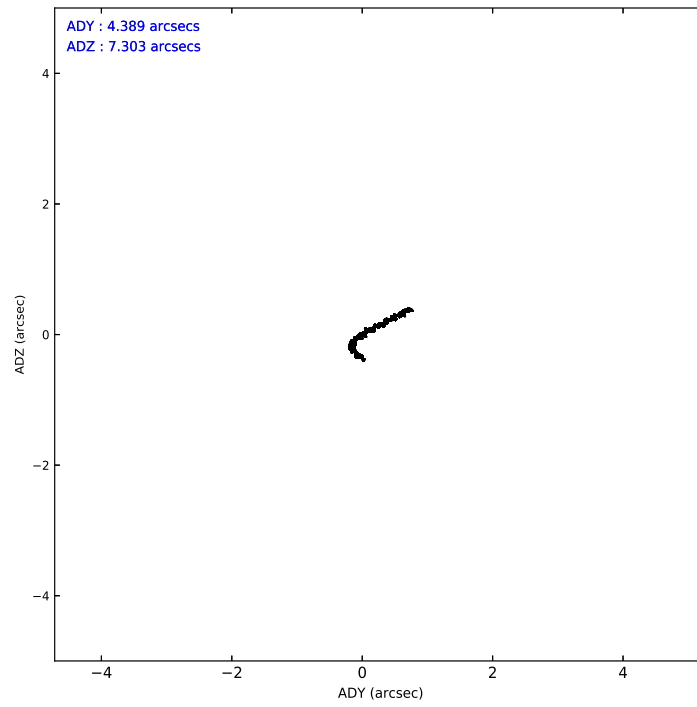
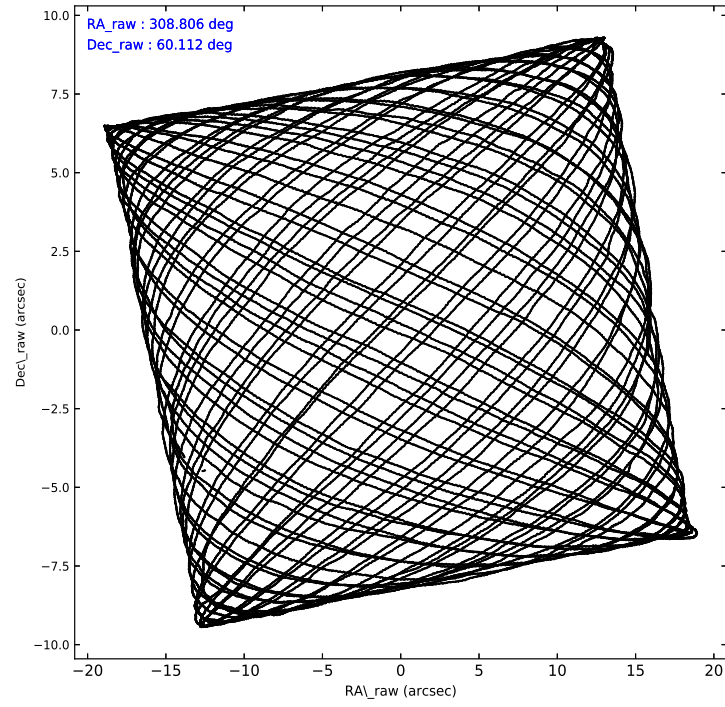
2.1.4 Events

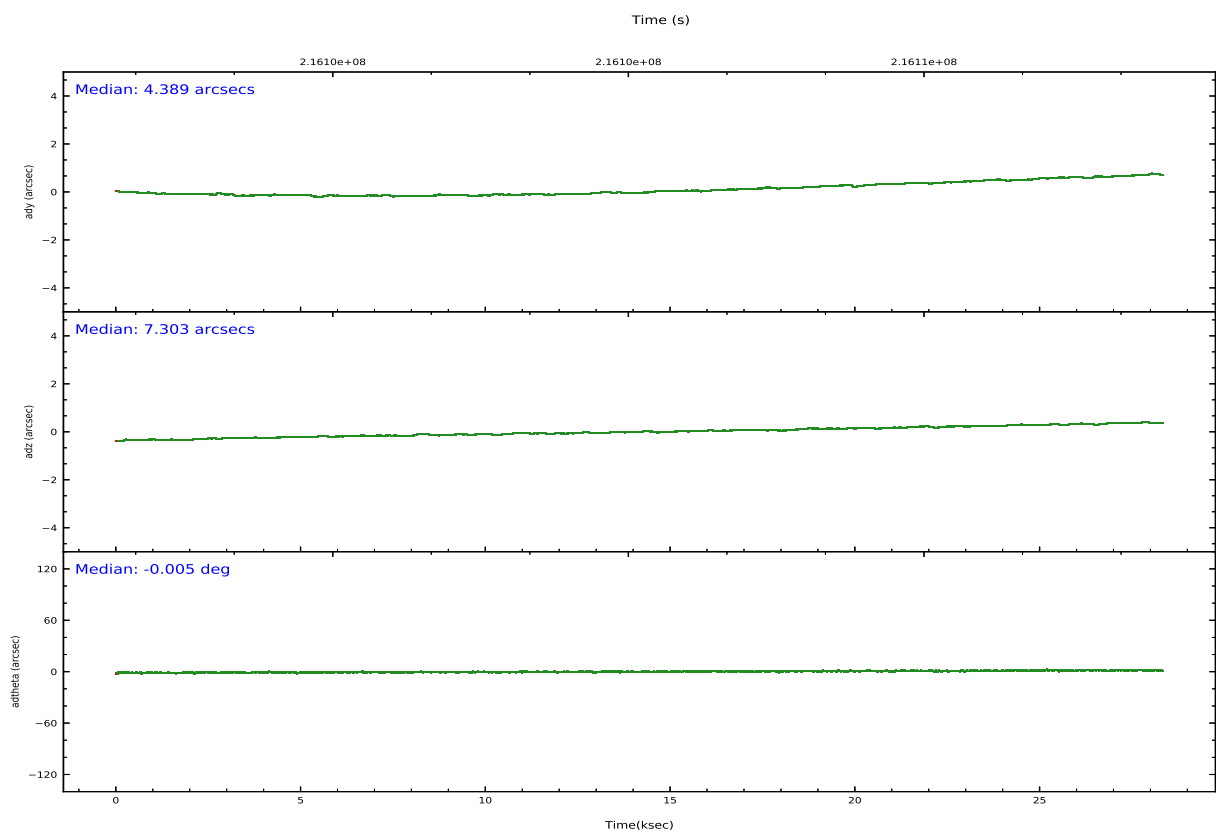
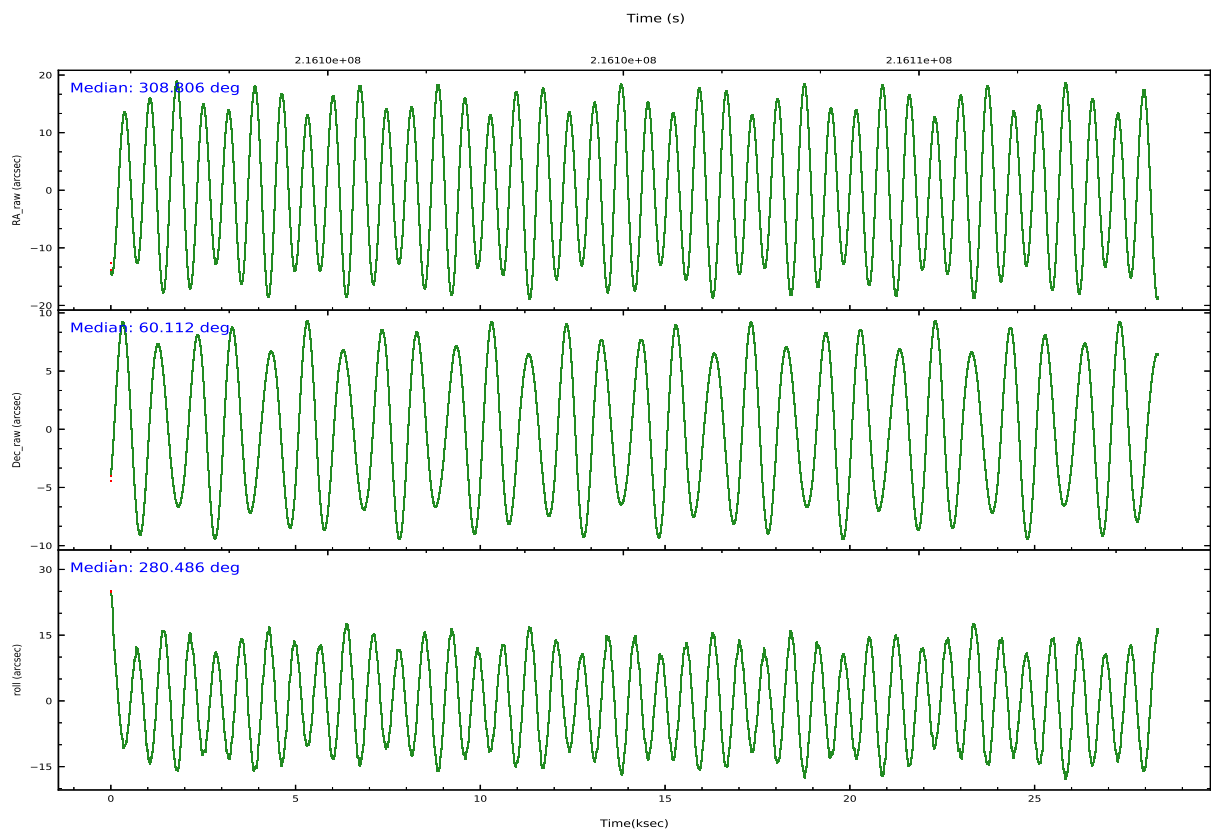
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	232364	222896	327080	230843	307790	298064	grade 0 events	13012	12503	11735	11423	13712	25214
rejected events	202927	193859	179170	201621	175068	222921		5%	5%	3%	4%	4%	8%
rejected %	87%	86%	54%	87%	56%	74%	grade 1 events	150	133	544	100	295	253
								0%	0%	0%	0%	0%	0%
							grade 2 events	6265	6126	45255	6620	26889	14860
								2%	2%	13%	2%	8%	4%
							grade 3 events	2489	2617	5663	2606	11536	9162
								1%	1%	1%	1%	3%	3%
							grade 4 events	2615	2642	5417	2582	11646	8371
								1%	1%	1%	1%	3%	2%
							grade 5 events	8694	9790	23269	9998	28094	13480
								3%	4%	7%	4%	9%	4%
							grade 6 events	5084	5196	80000	6020	69068	17599
								2%	2%	24%	2%	22%	5%
							grade 7 events	194055	183889	155197	191494	146550	209125
								83%	82%	47%	82%	47%	70%

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	308.769904	308.80128619701	Subarray requested	NONE	NONE
[deg] Pointing Dec	60.132348	60.112853410485	Alternating exposures requested	N	N
[deg] Pointing Roll	280.360800	280.48570203698	[s] Primary exposure time	0.000000	3.2
[deg] Roll angle	310.000000	310.000000			
[deg] Roll tolerance	50.000000	50.000000			
Roll constraint allows 180D rotation	N	N			
[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)	216090310.184000	216089228.61961			
Observation start date	2004-11-06T01:04:06	2004-11-06T00:47:08			
[s] Observation end time (MET)	216118472.184000	216118693.78343			
Observation end date	2004-11-06T08:53:28	2004-11-06T08:58:13			
Read mode	TIMED	TIMED			

2.3 Aspect



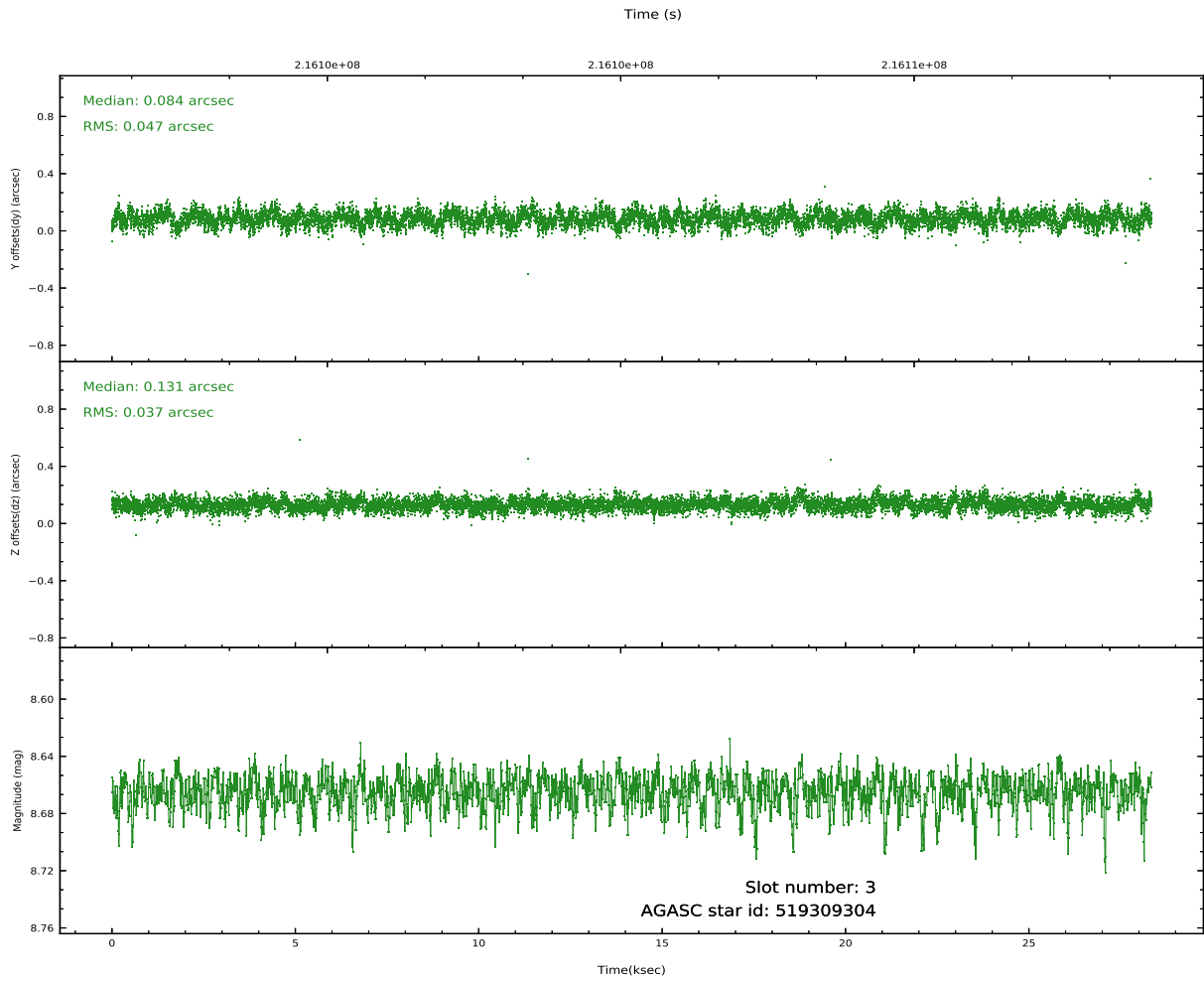
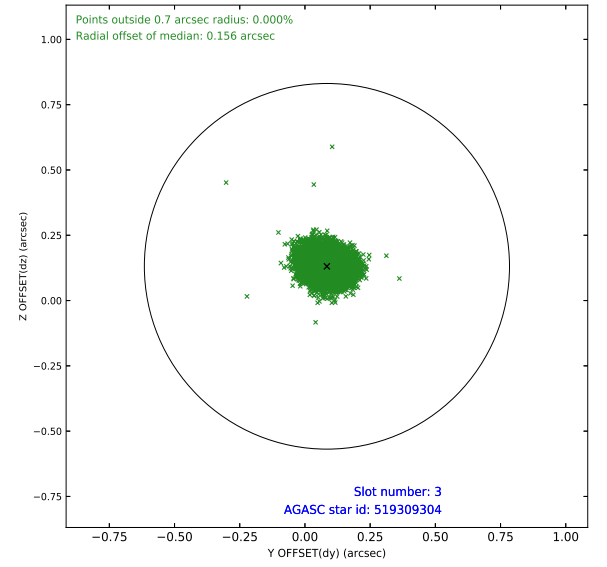
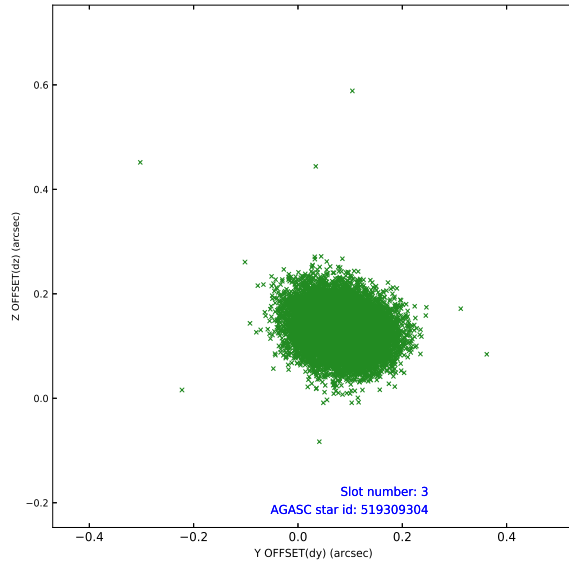


Slot Statistics

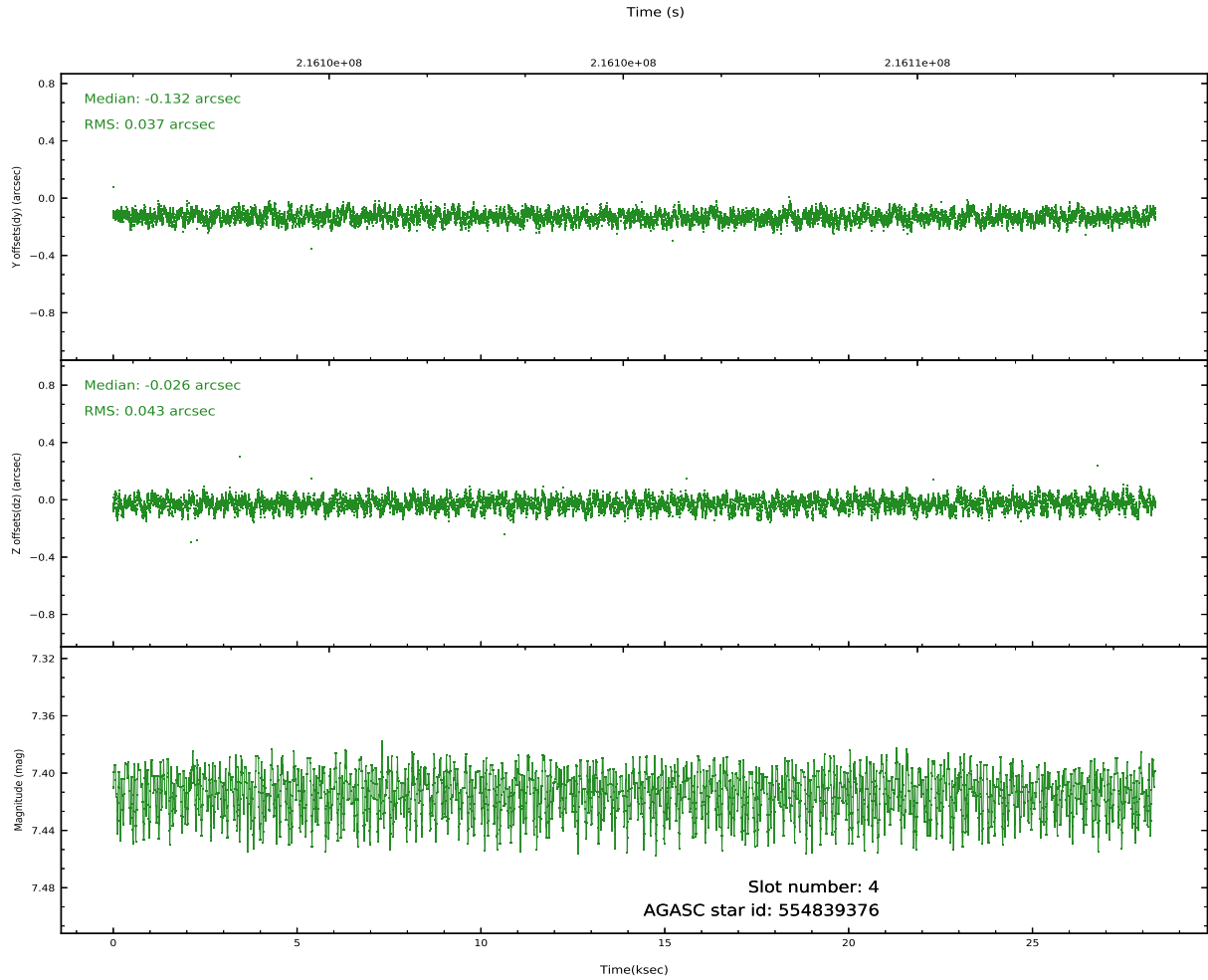
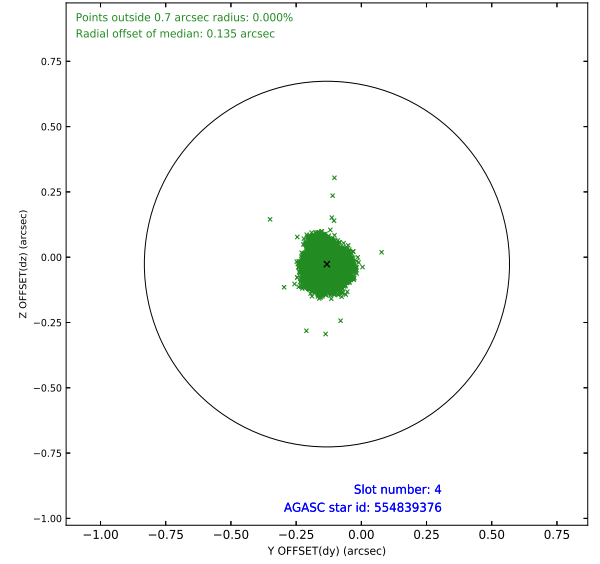
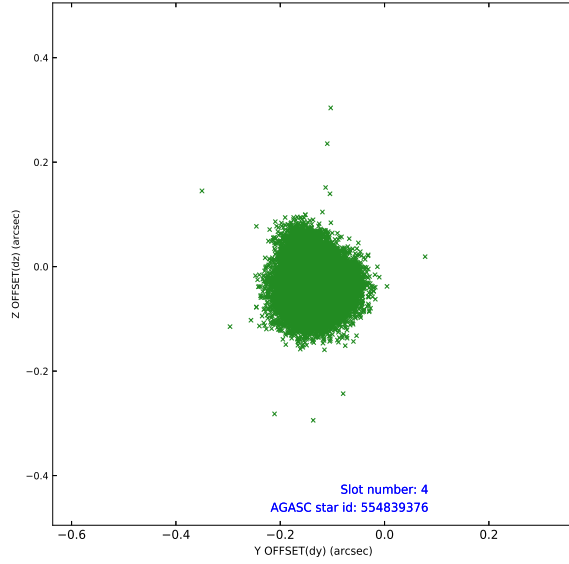
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	6913	1.000	0.036	-0.109	0.009	0.015	0.000000	0.000000	938.86	-1724
1	FID		ACIS-S-4	7.20	6914	1.000	0.116	0.062	0.007	0.012	0.000000	0.000000	2156.41	180
2	FID		ACIS-S-5	7.23	6913	1.000	-0.178	0.059	0.008	0.016	0.000000	0.000000	-1810.10	173
3	GUIDE	used	519309304	8.66	13824	1.000	0.084	0.131	0.063	0.104	309.978425	59.702936	1896.12	1885
4	GUIDE	used	554839376	7.41	13822	1.000	-0.132	-0.026	0.062	0.094	308.018563	60.422364	-1273.75	-1124
5	GUIDE	used	554842440	8.18	13825	1.000	0.011	-0.069	0.066	0.110	307.970960	60.063321	-21.90	-1454
6	GUIDE	used	556537192	9.21	13818	1.000	-0.047	0.014	0.094	0.152	309.975880	60.344309	-383.49	2253
7	GUIDE	used	519311352	8.74	13822	1.000	0.084	-0.046	0.072	0.117	309.050952	59.661888	1757.32	198

2.4 Star Slots

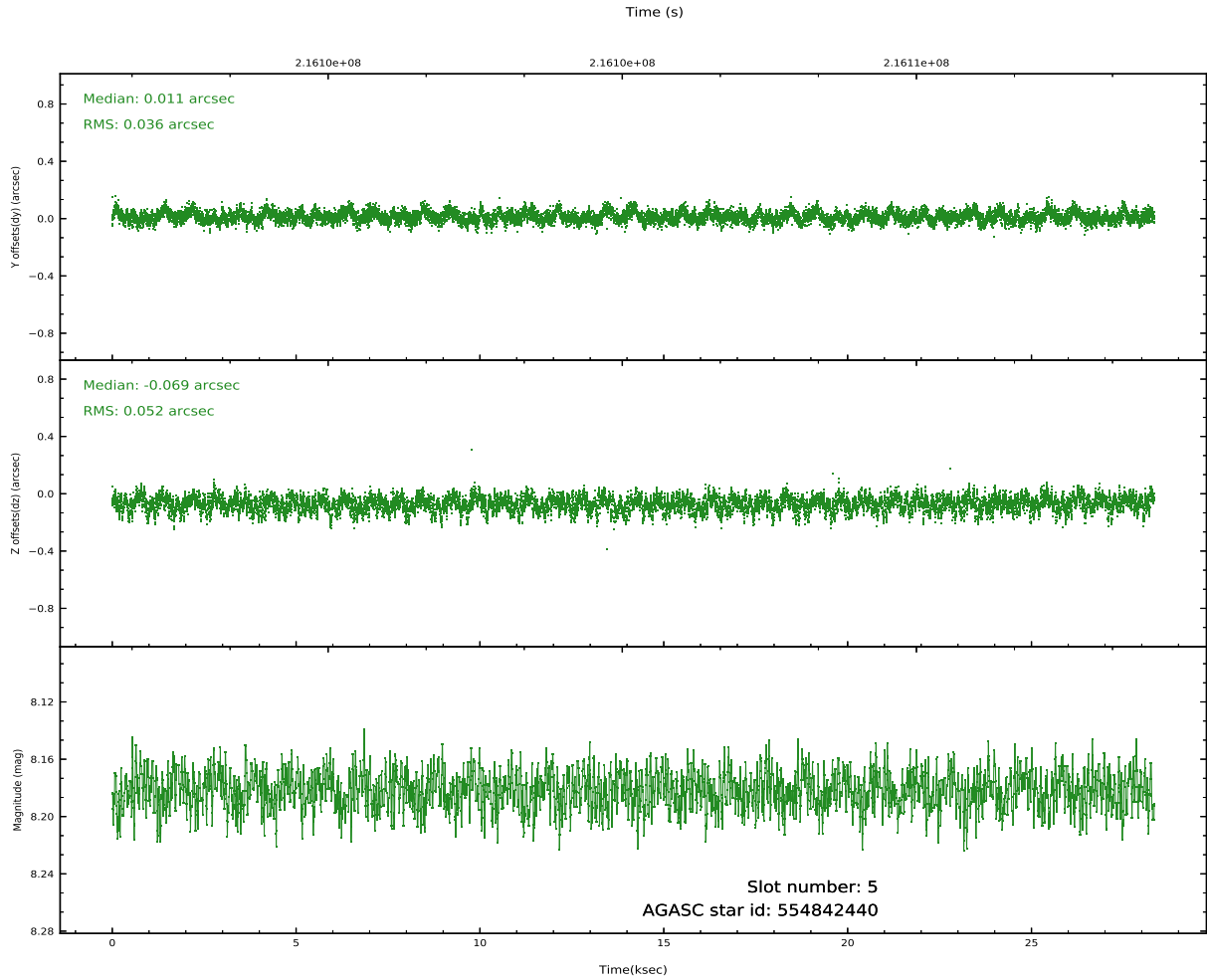
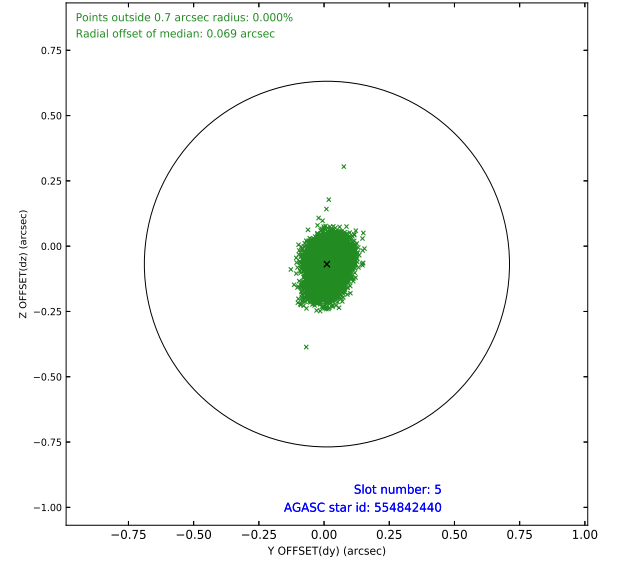
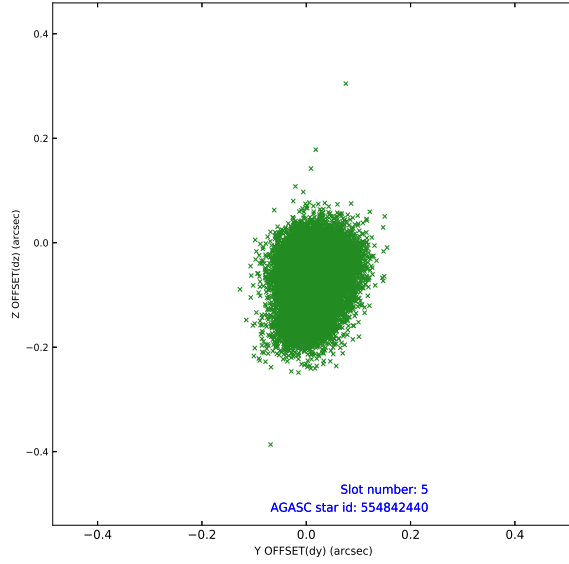
2.4.1 Slot 3



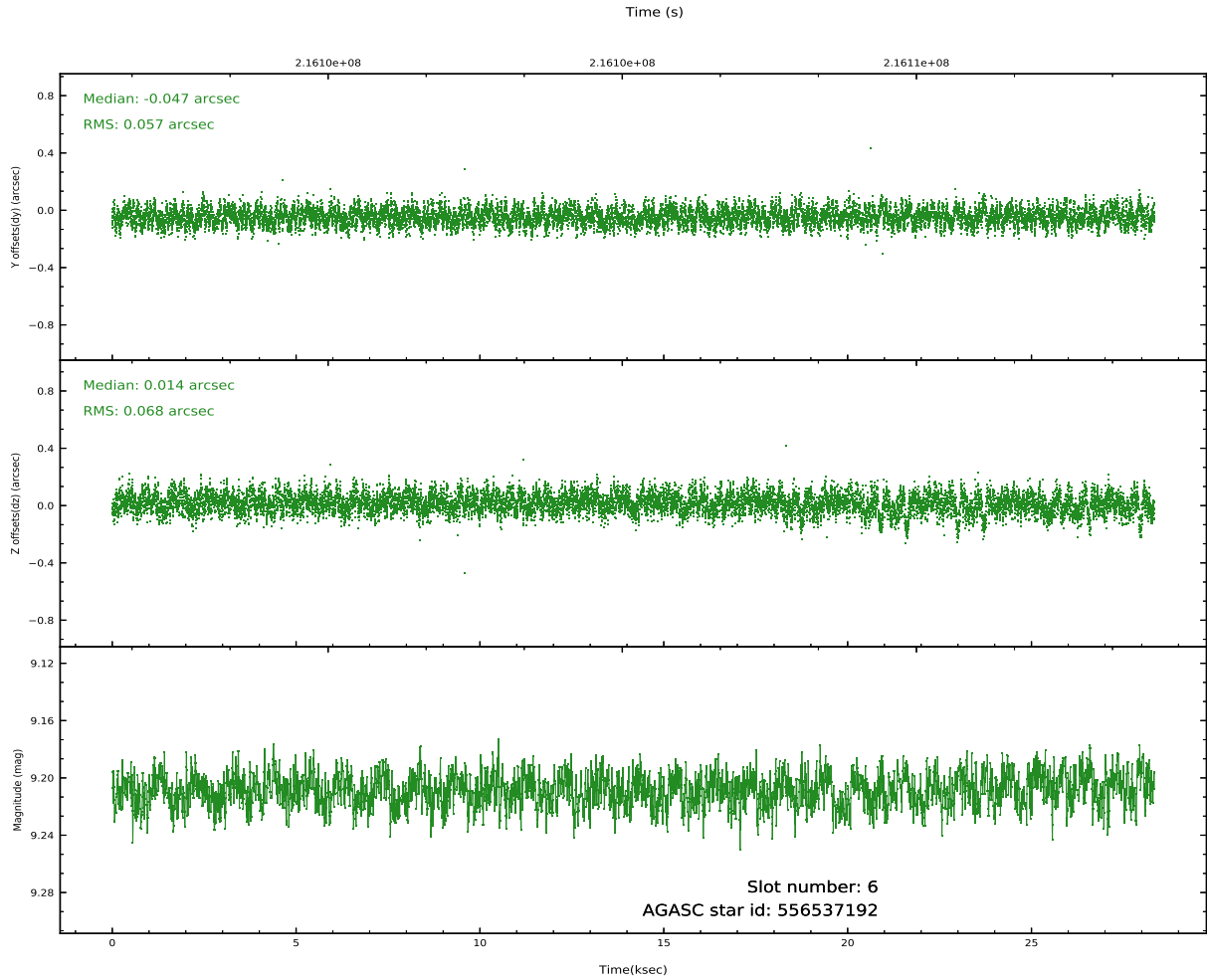
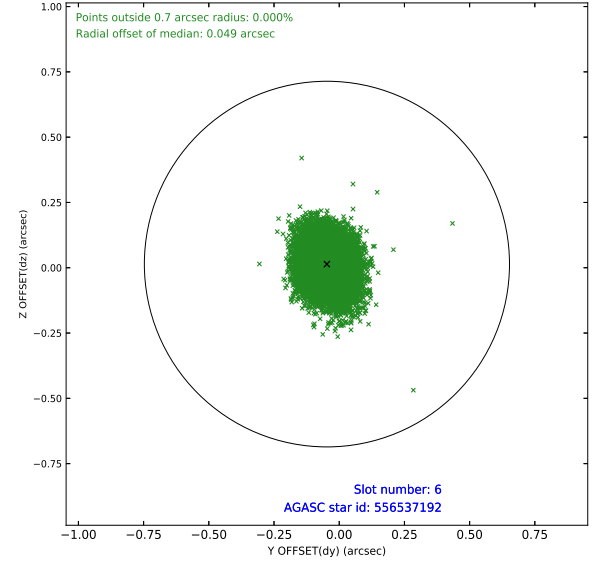
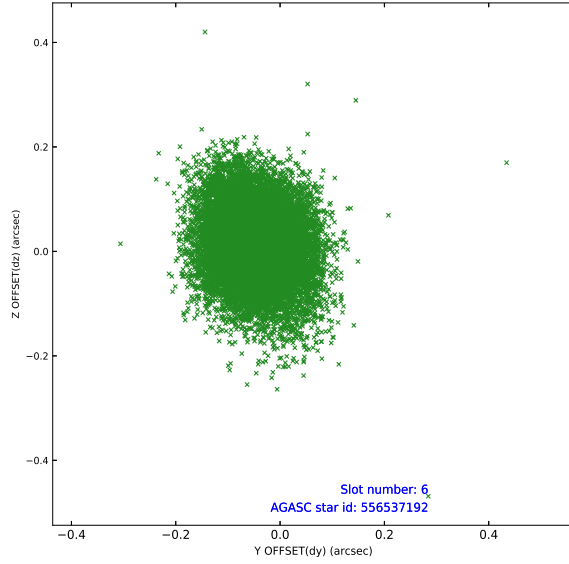
2.4.2 Slot 4



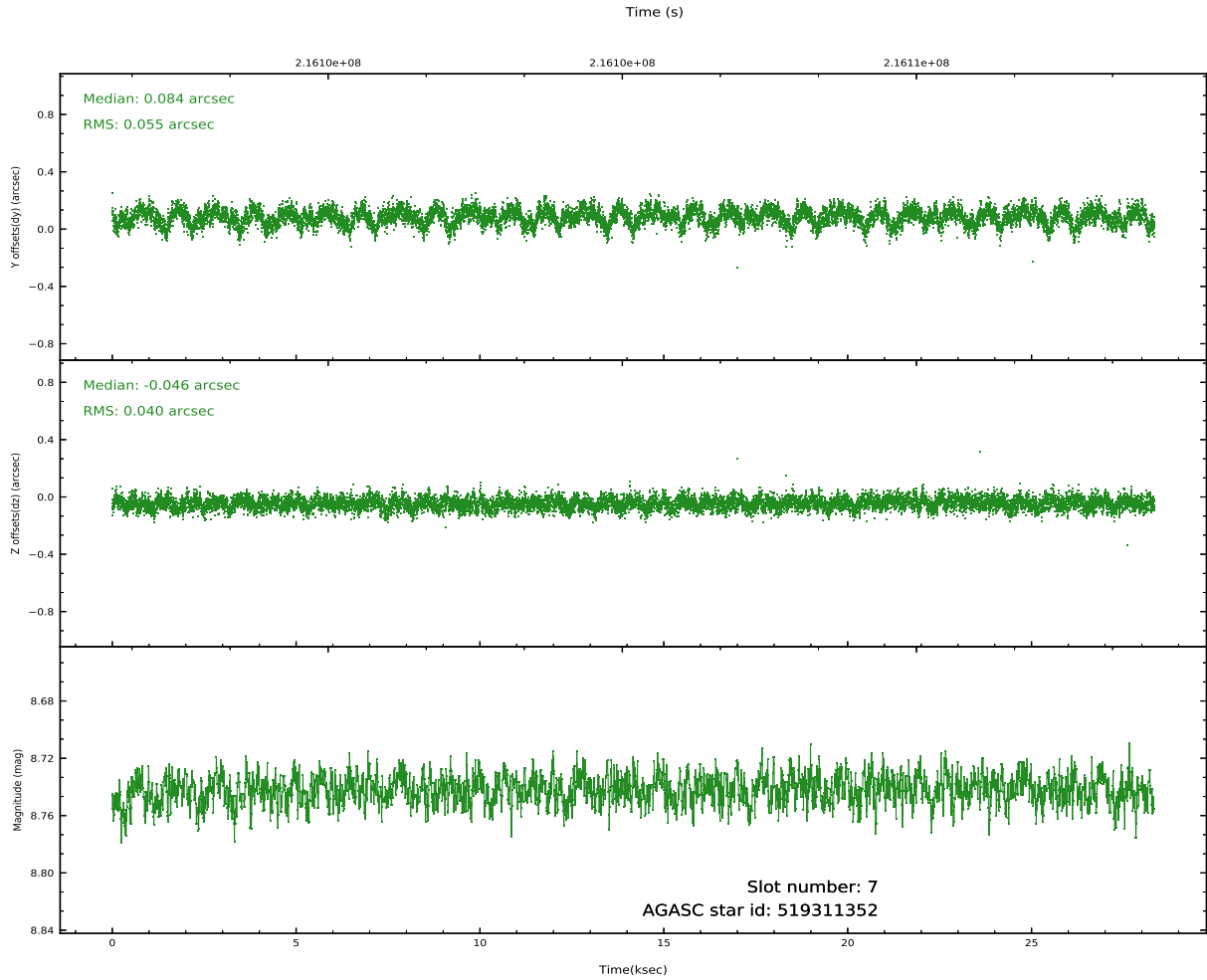
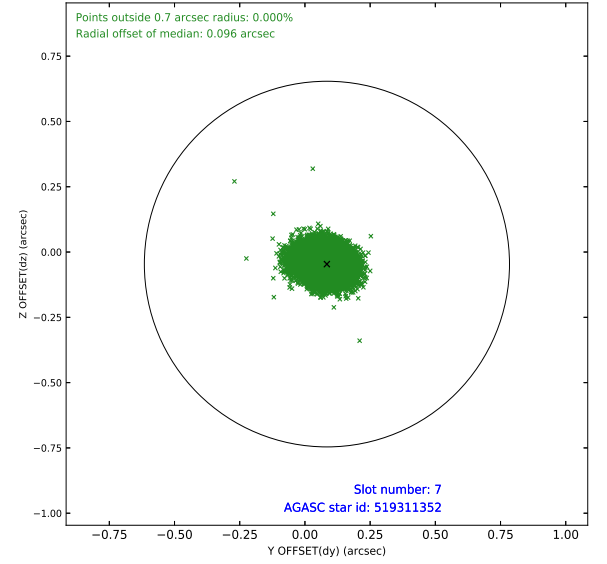
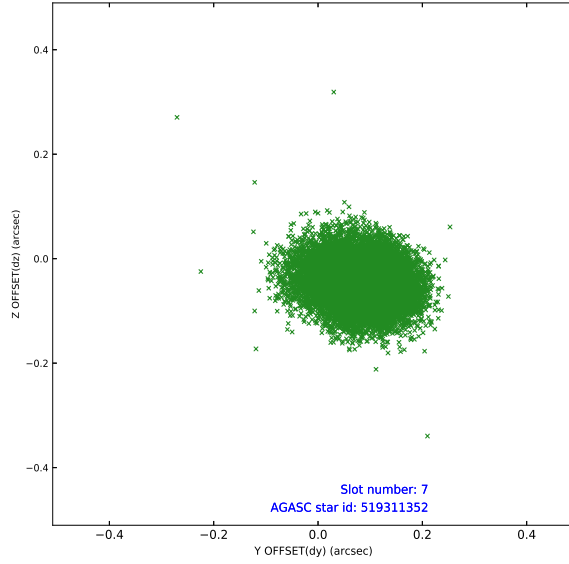
2.4.3 Slot 5



2.4.4 Slot 6

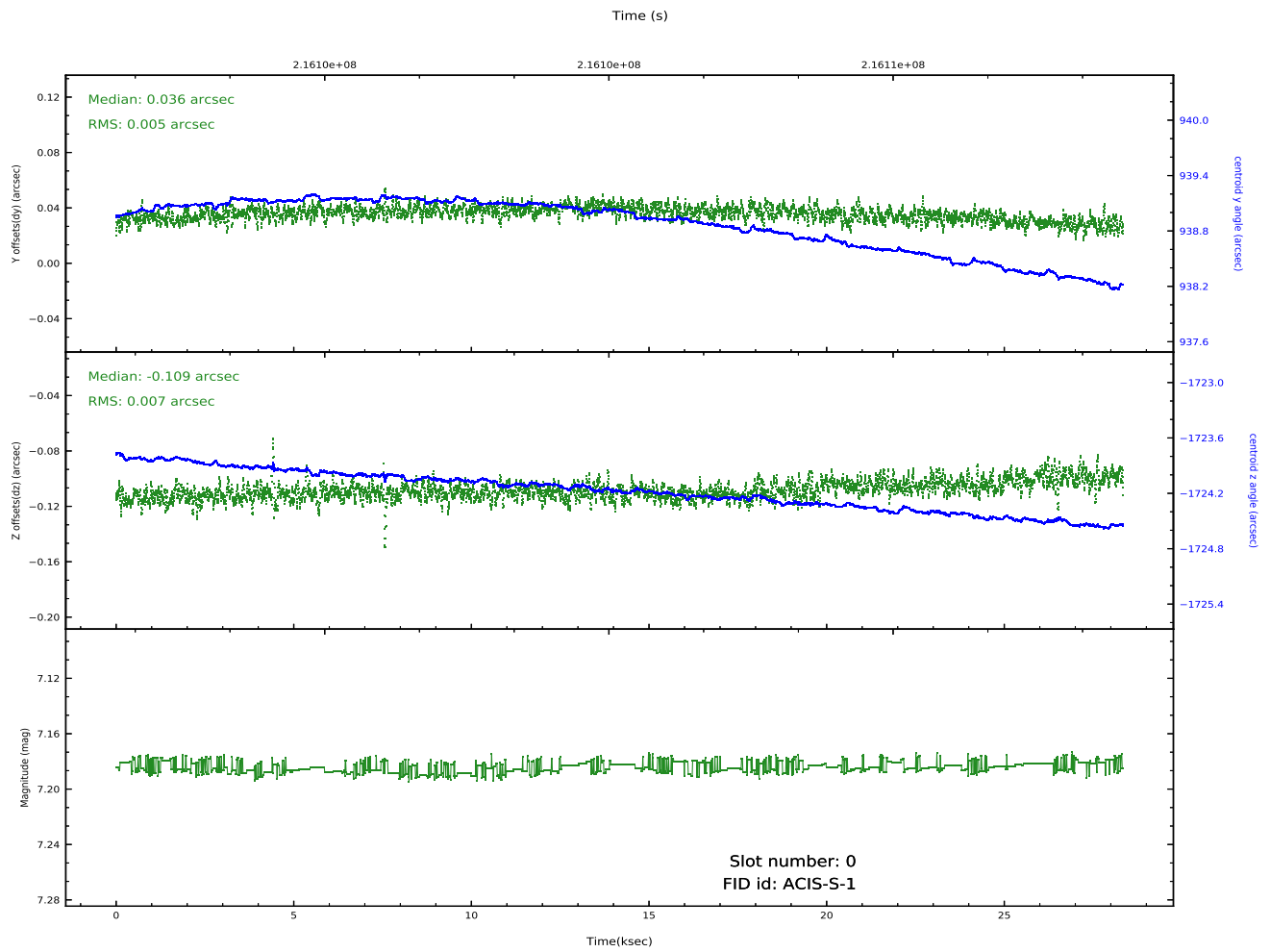
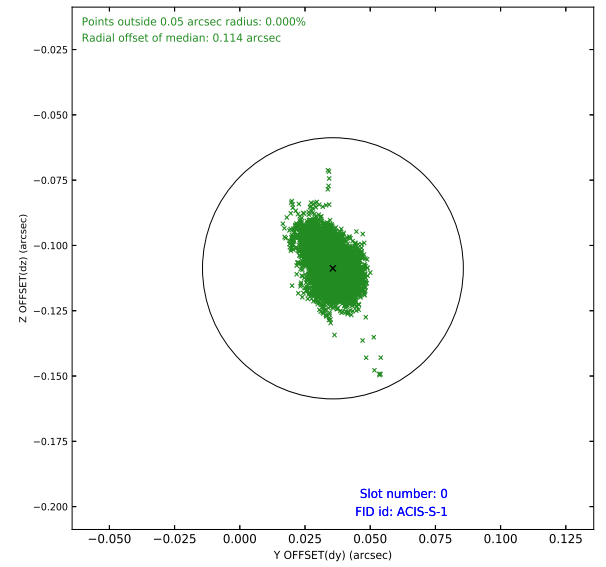
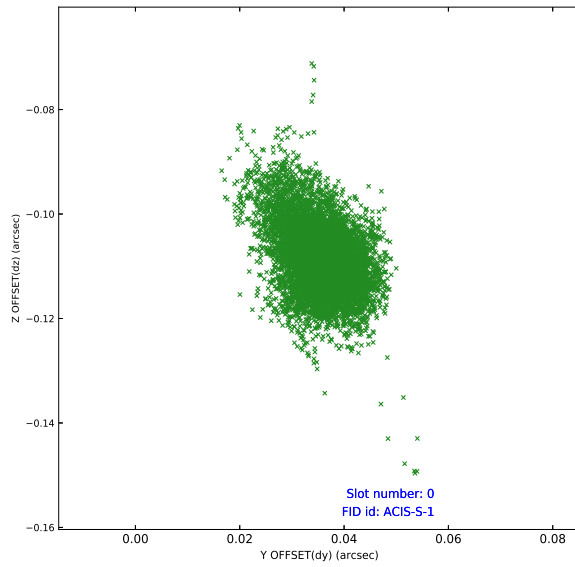


2.4.5 Slot 7

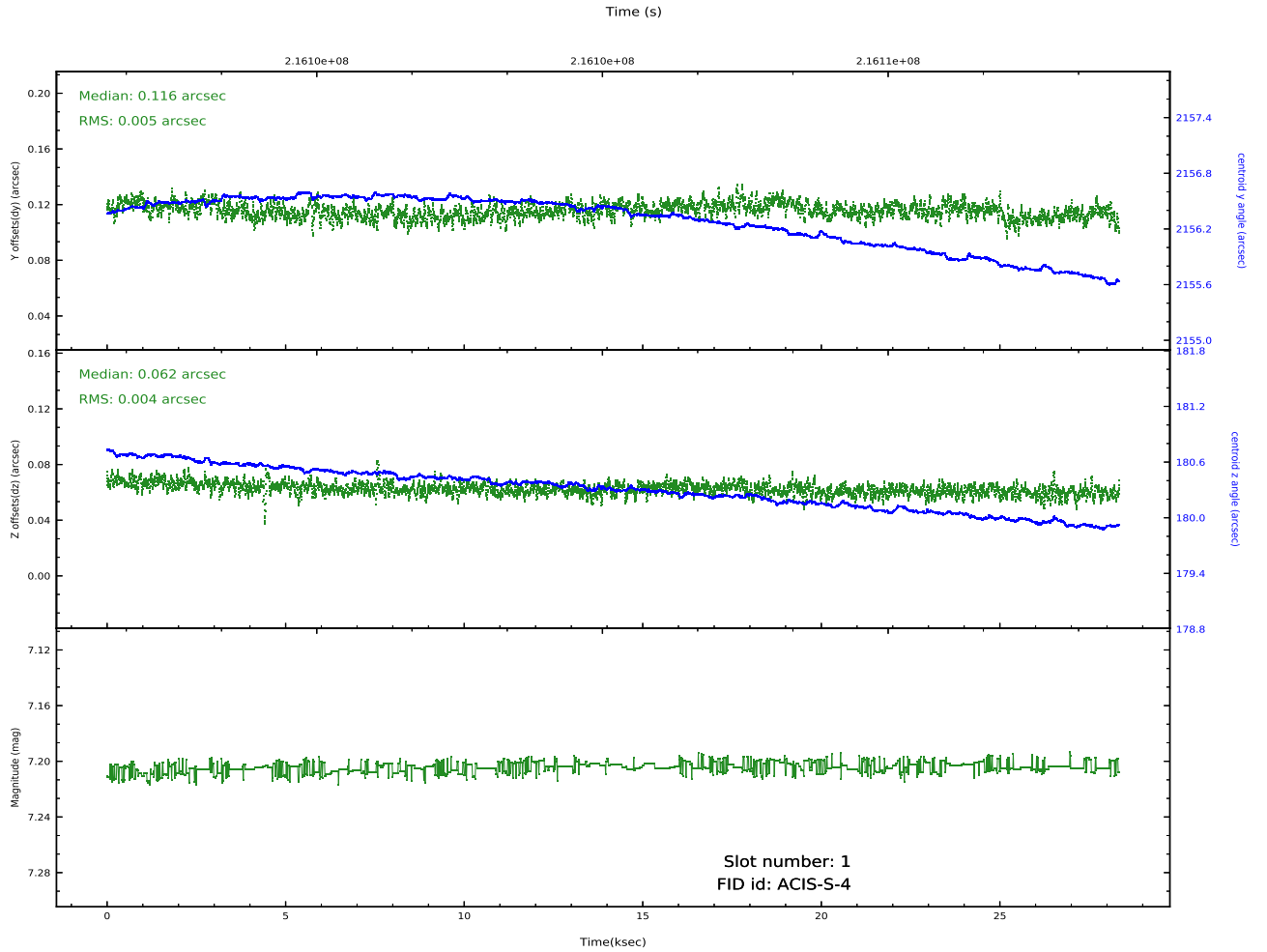
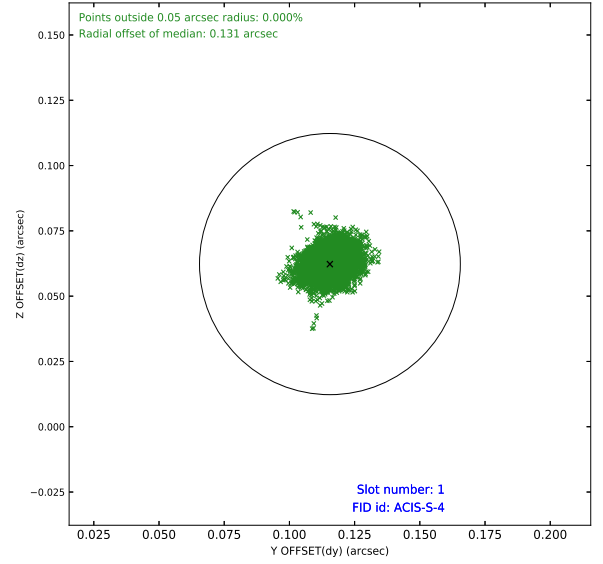
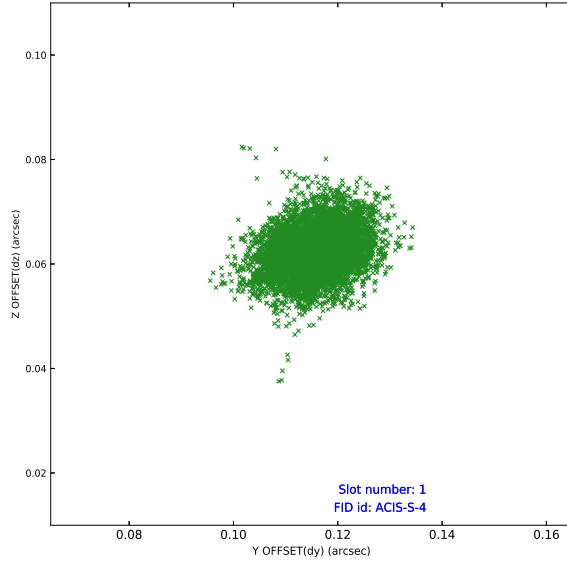


2.5 FID Slots

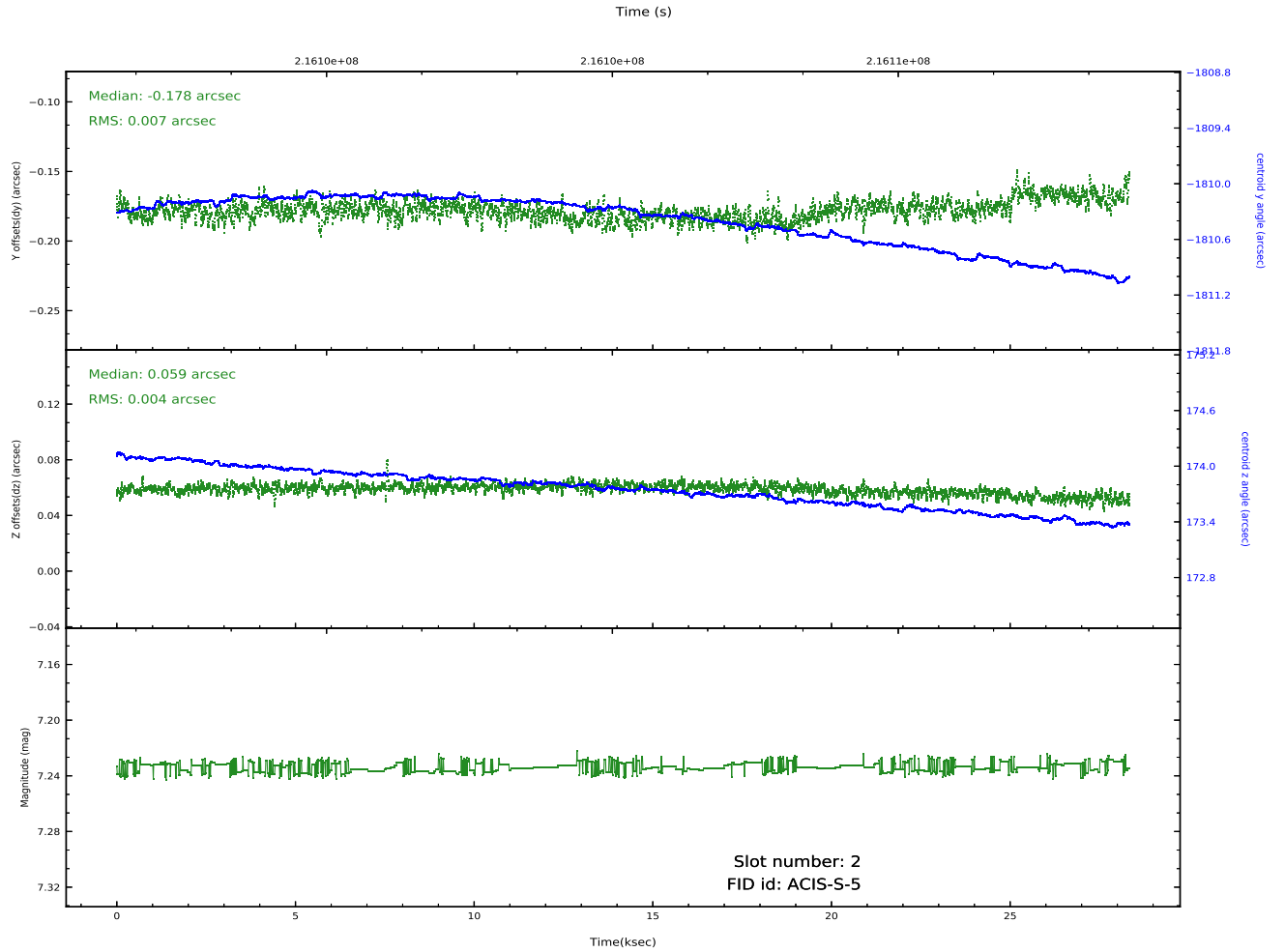
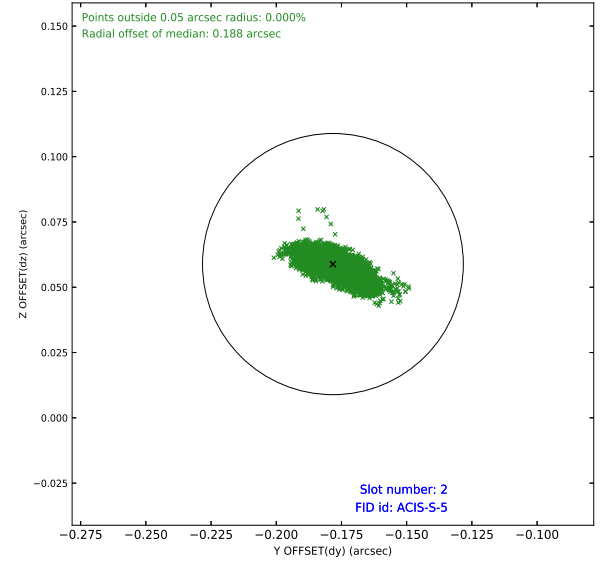
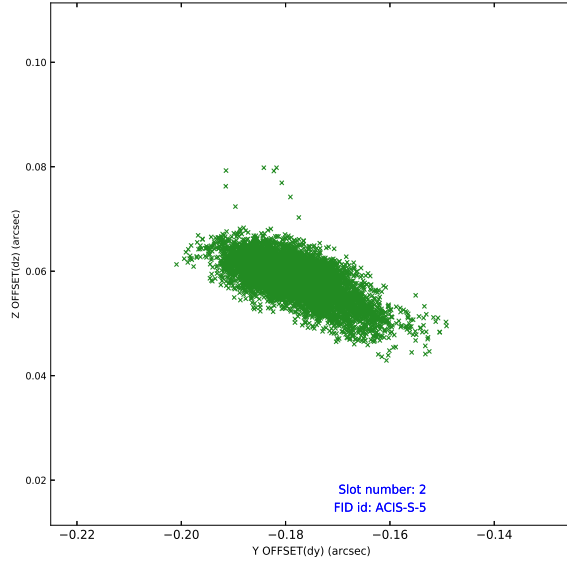
2.5.1 Slot 0



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)	2020.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.339

A.2 Comments

Roll constraint met. Monitor constraint met.