

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 21009 - L2 Version 2
Chandra X-Ray Center

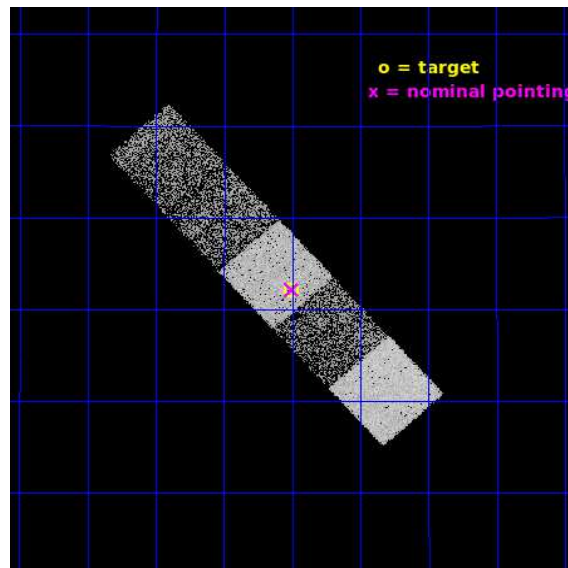
L2 Processing Date : Oct 25 2020

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1 Front

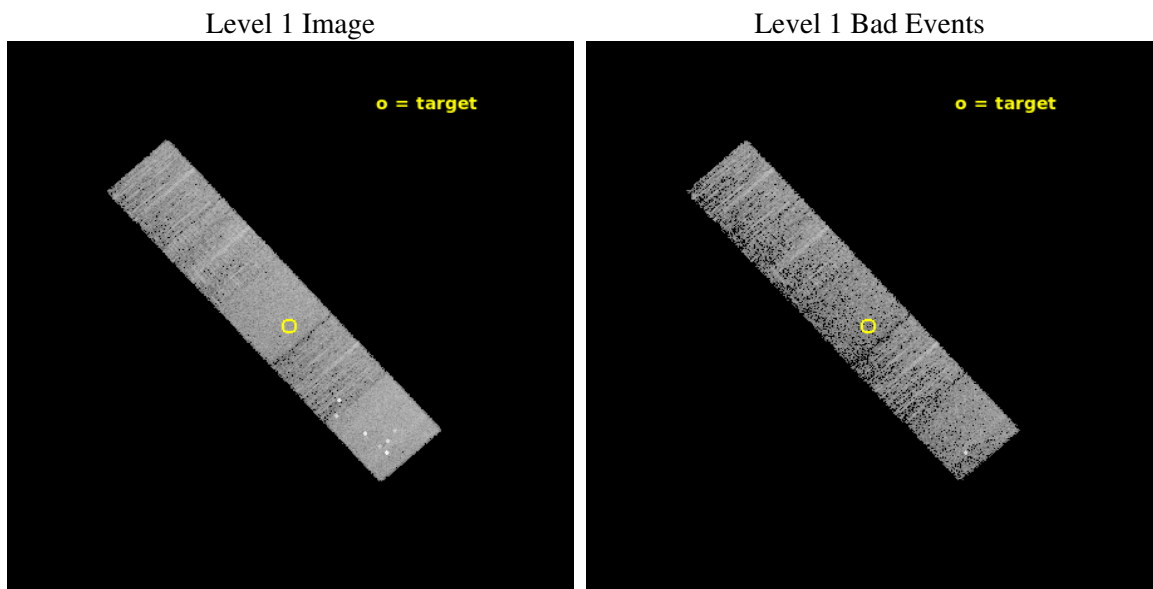
seq_num	703650	Sequence number
obs_id	21009	Observation id
title	LOW SURFACE BRIGHTNESS GALAXIES AND THE BLACK HOLE OCCUPATION FRACTION	Proposal title
observer	Elena Gallo	Principal investigator
object	LSBC F574-07	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	189.875833	Observer's specified target RA [deg]
dec_targ	18.36825	Observer's specified target Dec [deg]
ra_nom	189.87554804576	Nominal RA [deg]
dec_nom	18.369520659931	Nominal Dec [deg]
roll_nom	227.83957209327	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3651.4732279778	Sum of GTIs [s]
livetime	3603.7640420787	Livetime [s]
ontime5	3651.4321880341	Sum of GTIs [s]
ontime6	3651.3911479712	Sum of GTIs [s]
ontime7	3651.4732279778	Sum of GTIs [s]
ontime8	3651.3501080275	Sum of GTIs [s]
ontime9	3651.3090679646	Sum of GTIs [s]
l2events	42231	Number of level 2 events



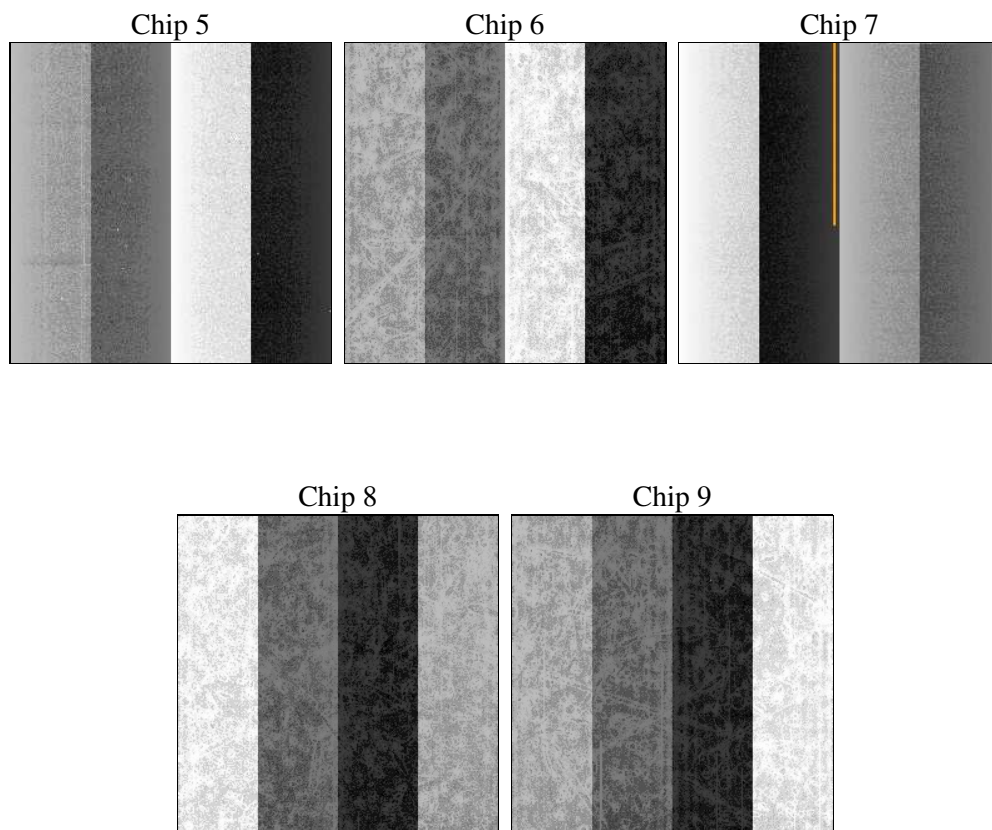
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3600.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	3651.4732279778	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	3651.4321880341	Sum of GTIs [s]
date	2020-10-25T21:55:07	Date and time of file creation	ontime6	3651.3911479712	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	3651.4732279778	Sum of GTIs [s]
			ontime8	3651.3501080275	Sum of GTIs [s]
			ontime9	3651.3090679646	Sum of GTIs [s]
			l1events	174183	Number of level 1 events

2.1.4 Events

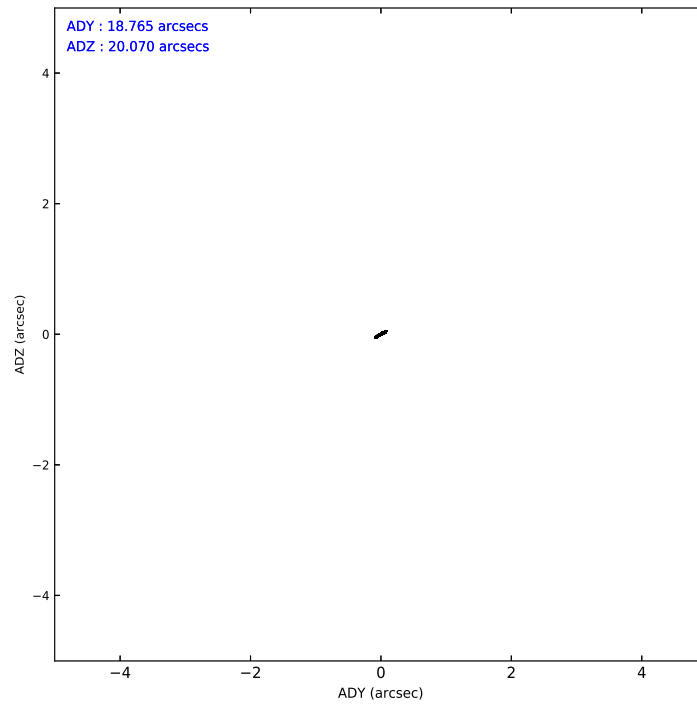
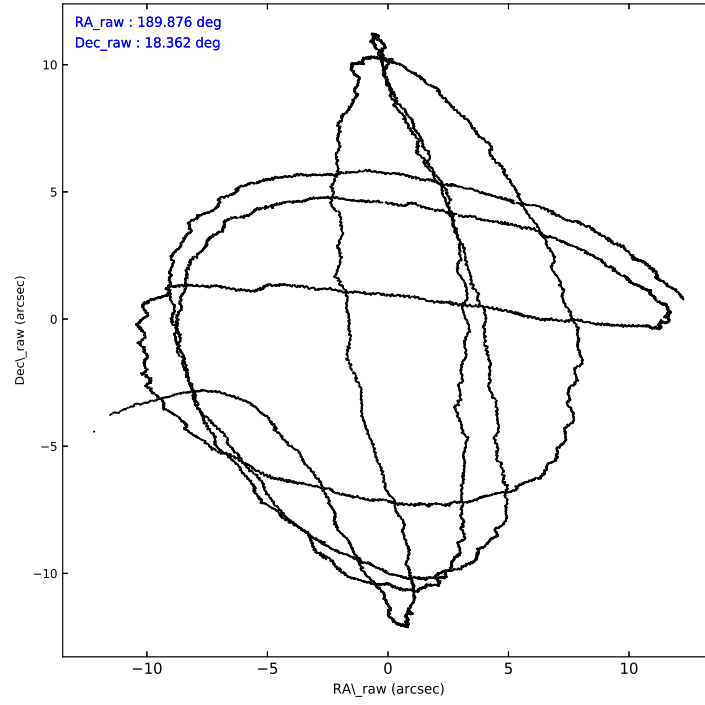
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	47009	28377	34759	34625	29413
rejected events	23491	24207	19972	26232	26127
rejected %	49%	85%	57%	75%	88%

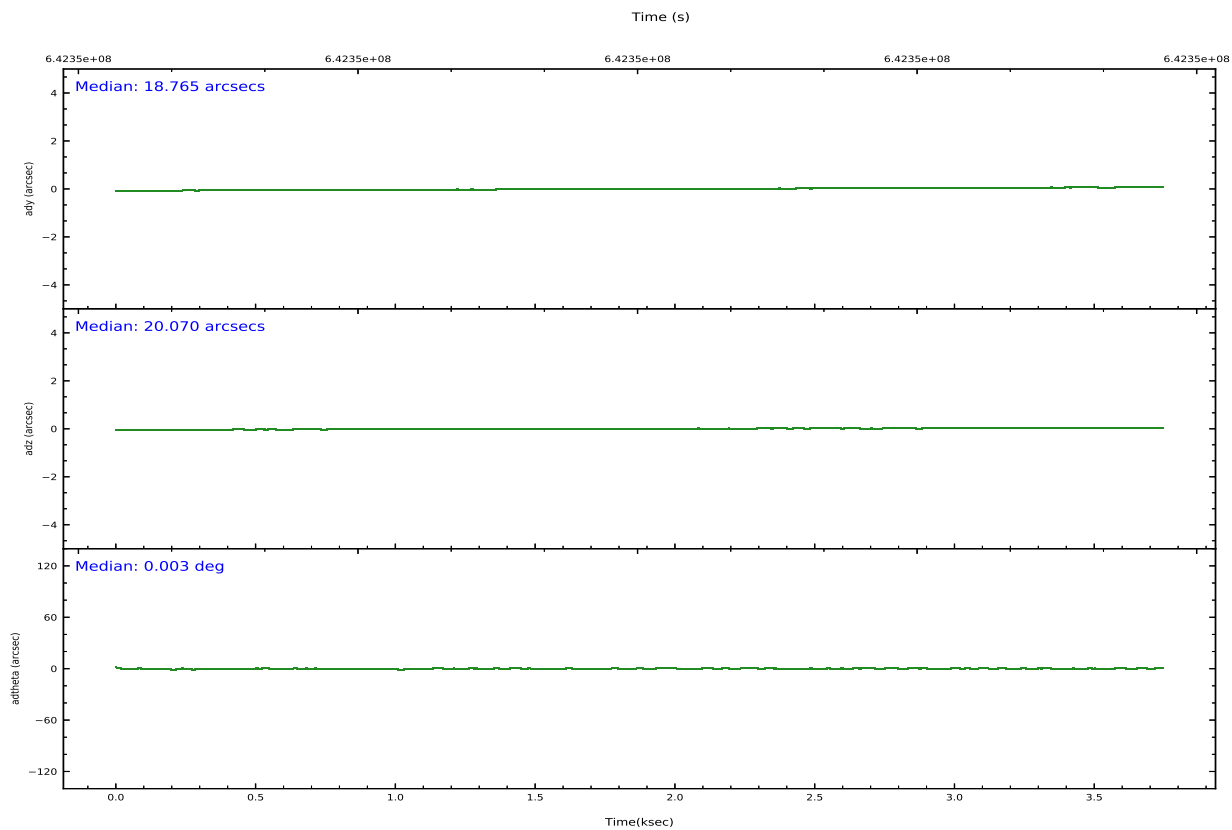
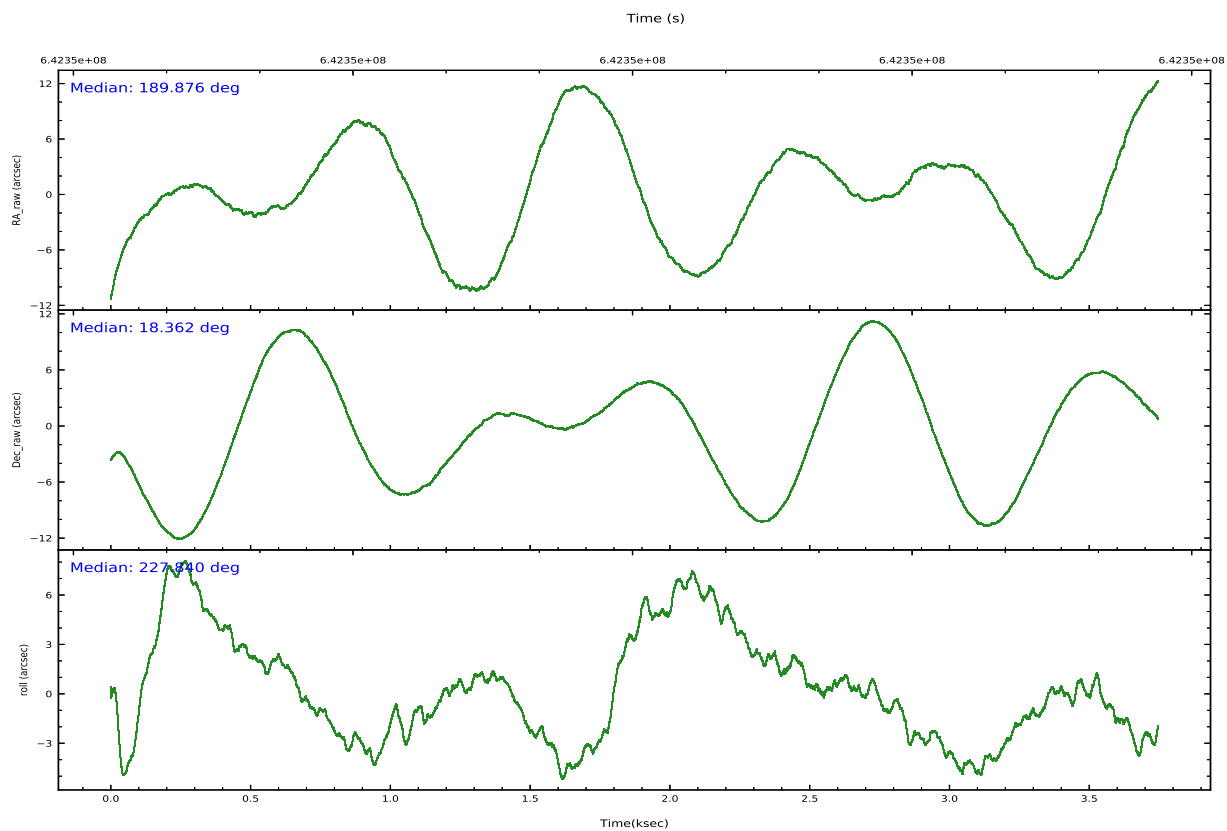
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	3889	2003	1278	2286	1070
	8%	7%	3%	6%	3%
grade 1 events	625	15	52	20	15
	1%	0%	0%	0%	0%
grade 2 events	6614	841	3089	2126	855
	14%	2%	8%	6%	2%
grade 3 events	645	251	1149	791	329
	1%	0%	3%	2%	1%
grade 4 events	637	263	1137	723	285
	1%	0%	3%	2%	0%
grade 5 events	2745	1169	3438	1818	1290
	5%	4%	9%	5%	4%
grade 6 events	11769	819	8166	2473	757
	25%	2%	23%	7%	2%
grade 7 events	20085	23016	16450	24388	24812
	42%	81%	47%	70%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-56789	ACIS-56789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	189.882016	189.87554804576	CCD I2 on	N	N
[deg] Pointing Dec	18.388608	18.369520659931	CCD I3 on	N	N
[deg] Pointing Roll	227.692169	227.83957209327	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	642349281.184000	642347732.62453	CCD S5 on	O2	Y
Observation start date	2018-05-10T14:20:12	2018-05-10T13:55:32	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	642352881.184000	642353202.53736	On-chip summing requested	N	N
Observation end date	2018-05-10T15:20:12	2018-05-10T15:26:42	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



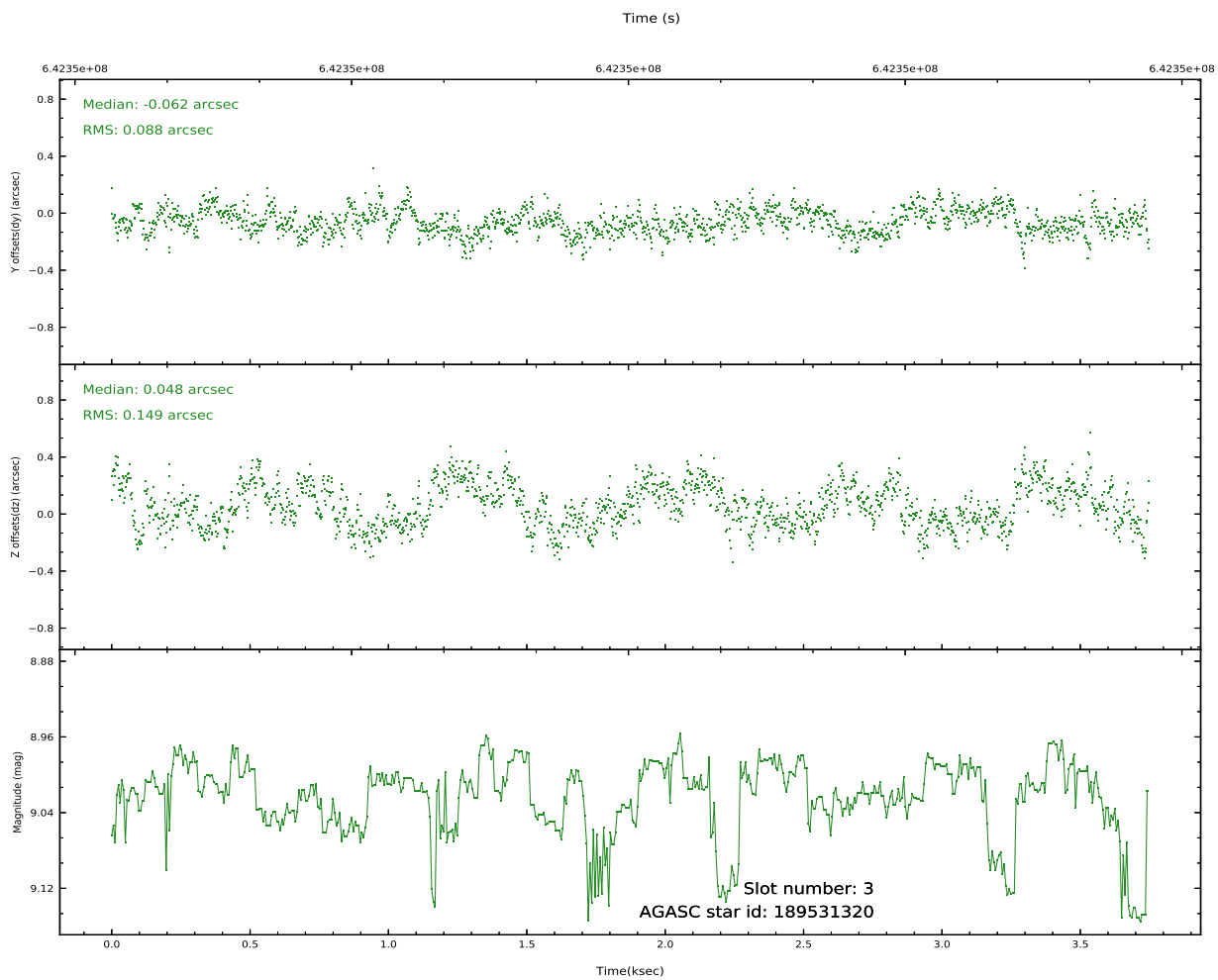
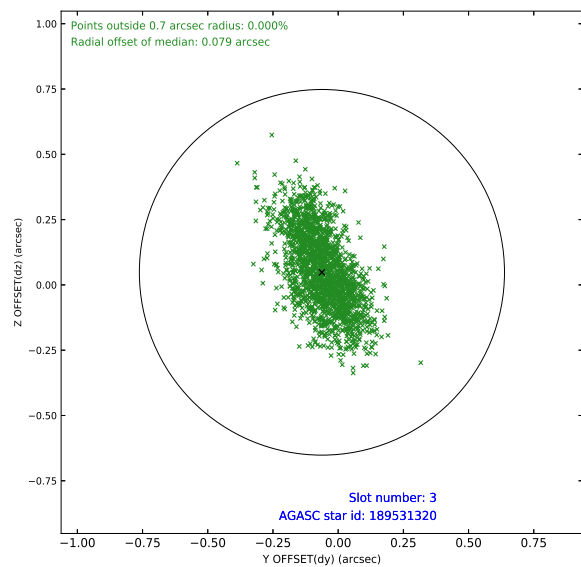
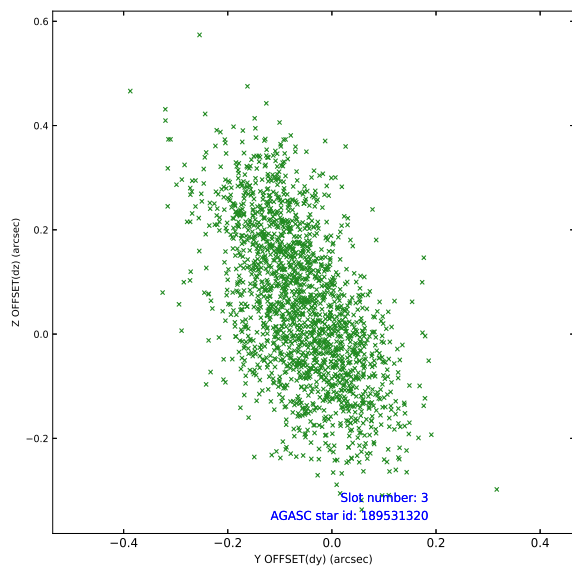


Slot Statistics

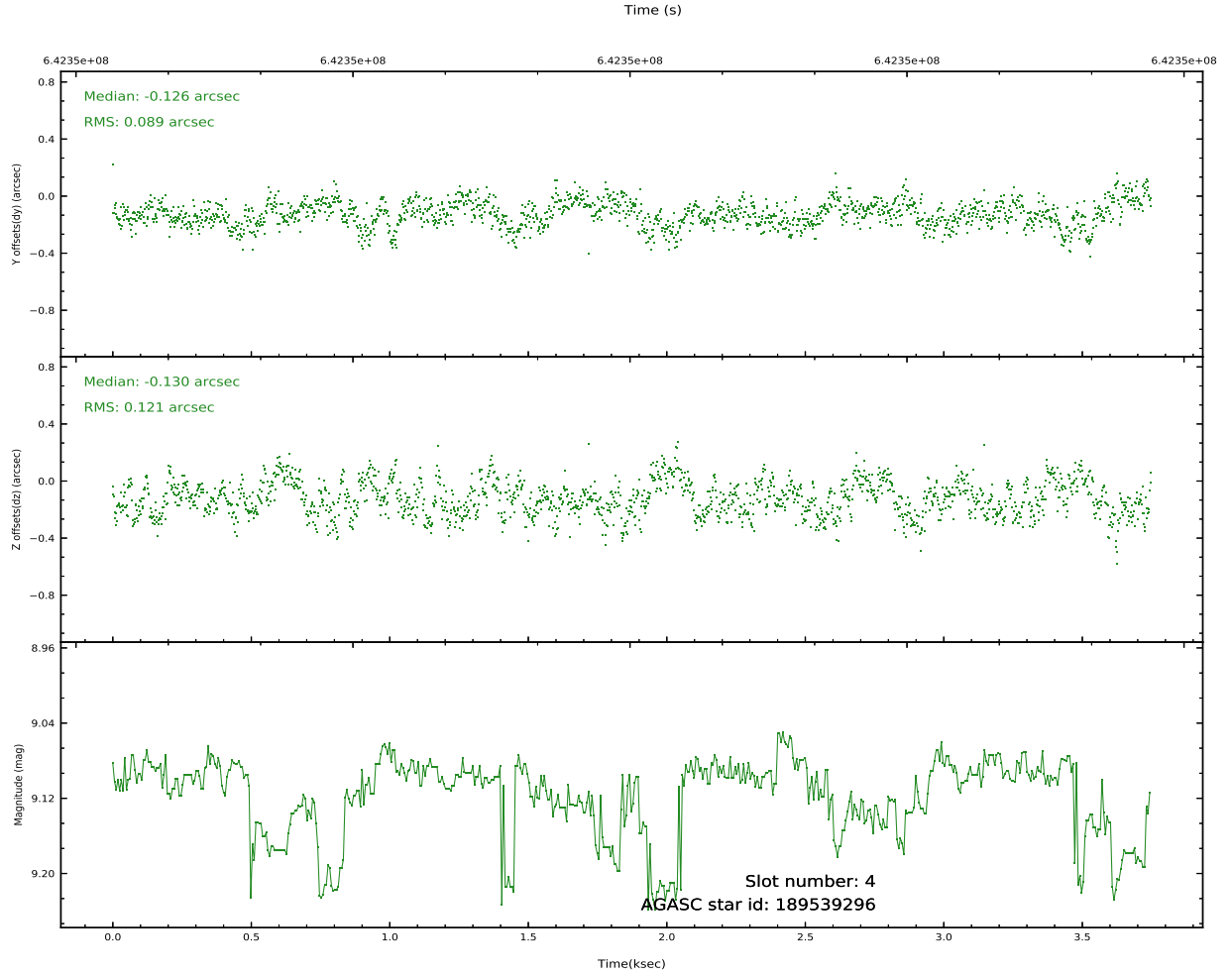
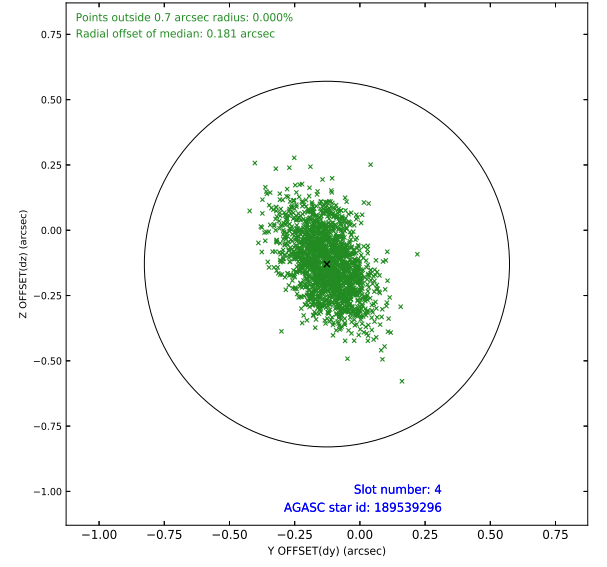
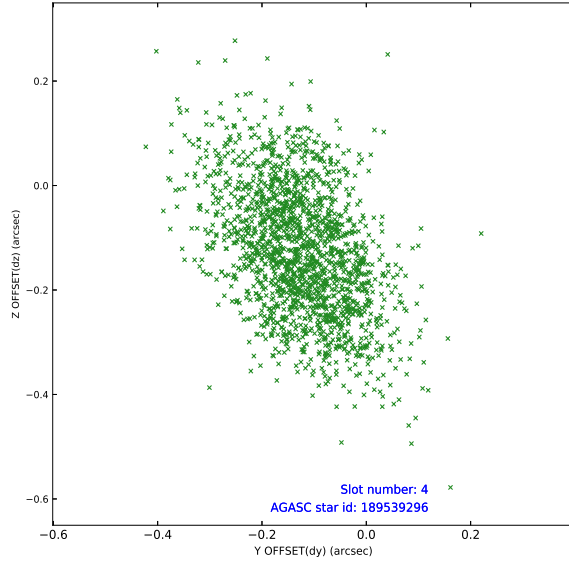
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.14	914	1.000	0.101	-0.108	0.009	0.018	0.000000	0.000000	-771.95	-1741
1	FID		ACIS-S-4	7.24	914	1.000	0.146	-0.020	0.007	0.012	0.000000	0.000000	2140.83	164
2	FID		ACIS-S-5	7.23	914	1.000	-0.278	0.136	0.007	0.014	0.000000	0.000000	-1822.80	161
3	GUIDE	used	189531320	9.02	1828	1.000	-0.062	0.048	0.183	0.302	190.583324	18.279503	-1326.80	2033
4	GUIDE	used	189539296	9.11	1827	1.000	-0.126	-0.130	0.156	0.262	189.407843	18.629577	445.55	-1780
5	GUIDE	used	189542224	9.08	1825	1.000	0.047	-0.024	0.135	0.233	190.259731	18.115027	-142.50	1616
6	GUIDE	used	189543656	8.95	1829	1.000	-0.025	0.086	0.138	0.264	190.418507	18.333182	-1088.90	1489
7	GUIDE	used	189795240	8.84	1823	1.000	0.163	0.014	0.141	0.244	189.463954	18.896885	-396.19	-2284

2.4 Star Slots

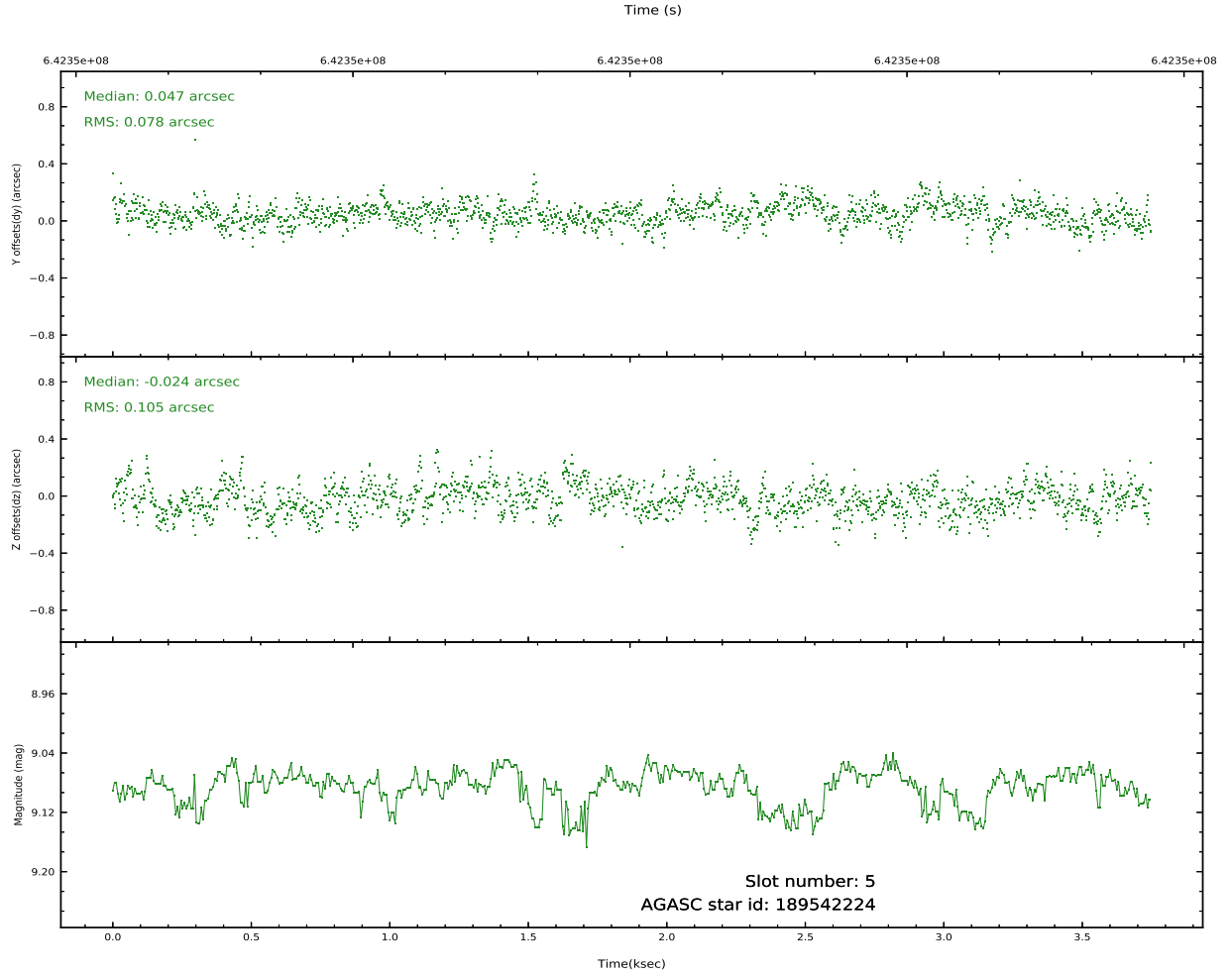
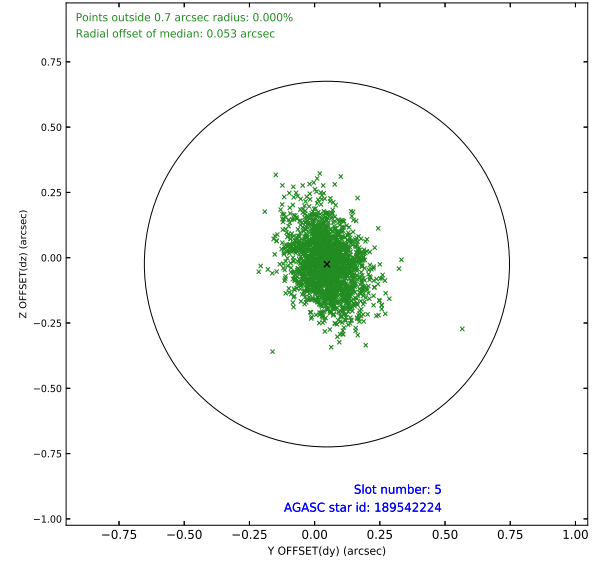
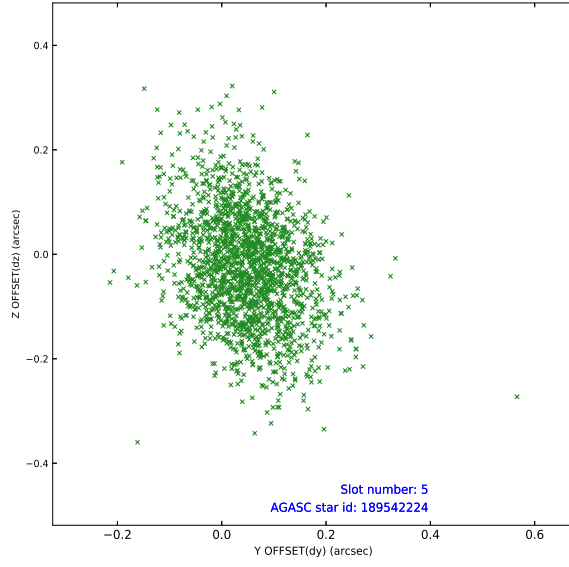
2.4.1 Slot 3



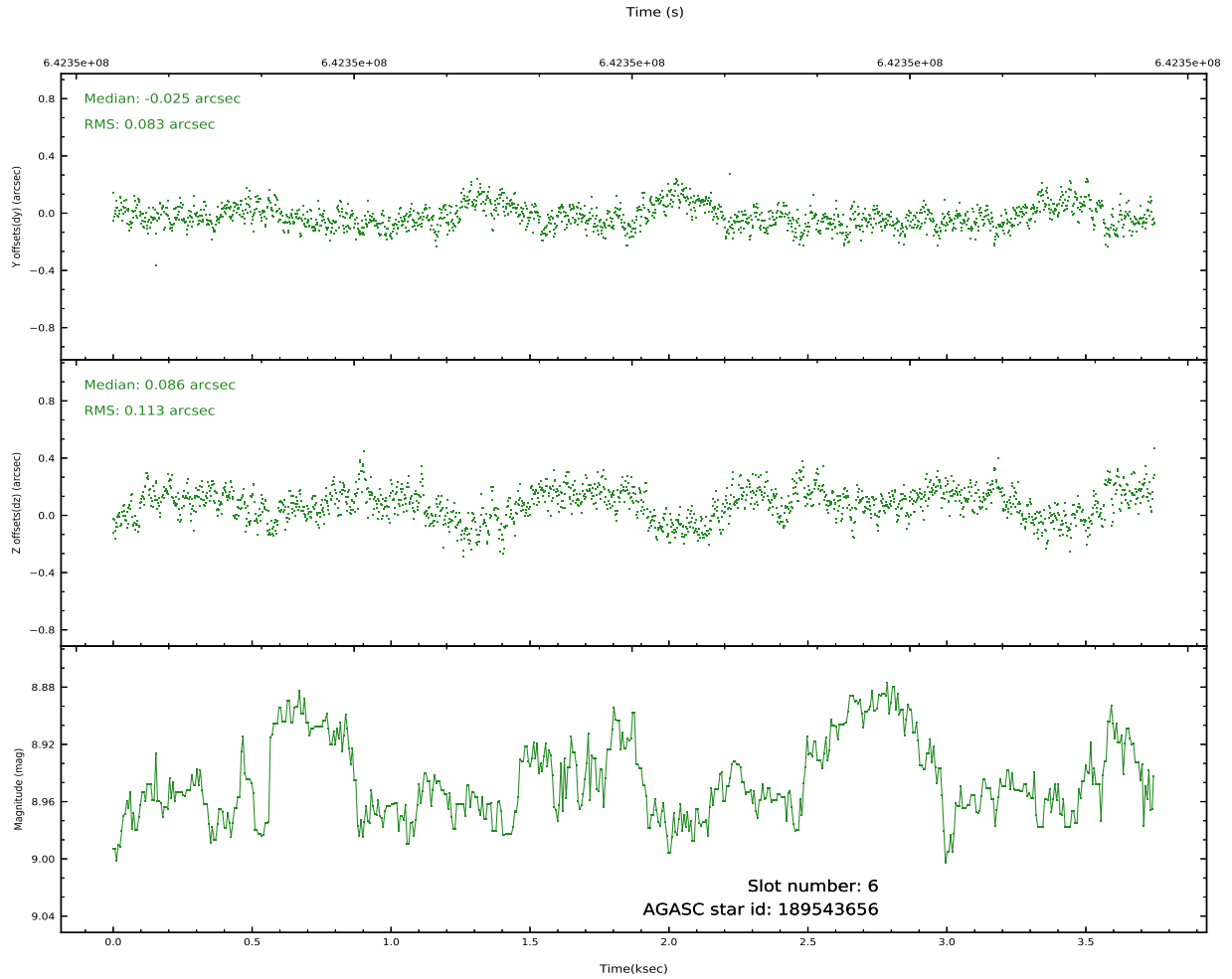
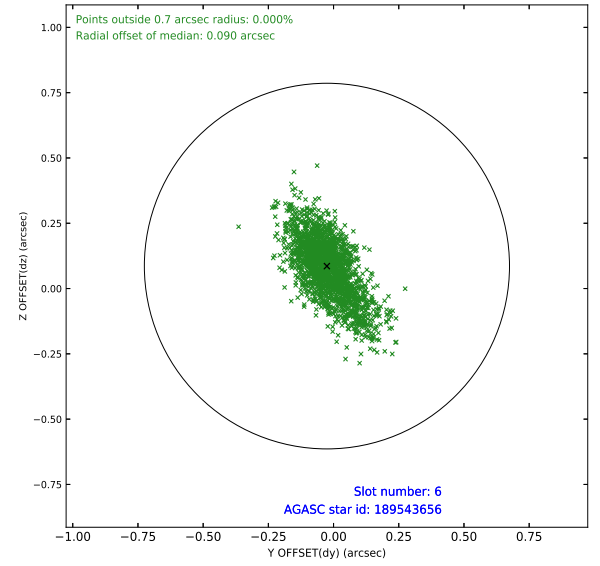
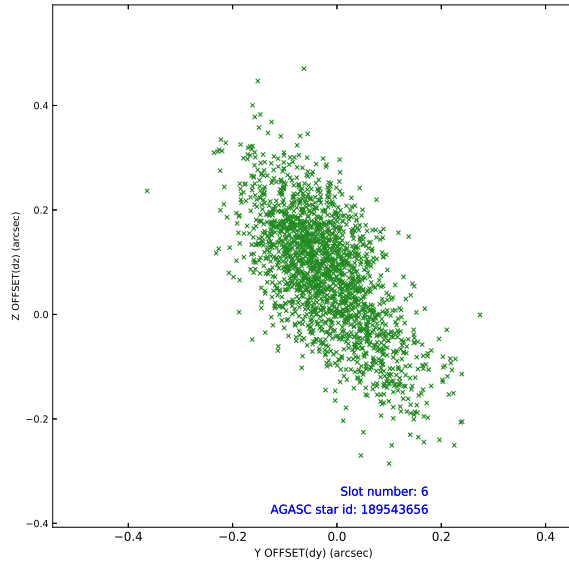
2.4.2 Slot 4



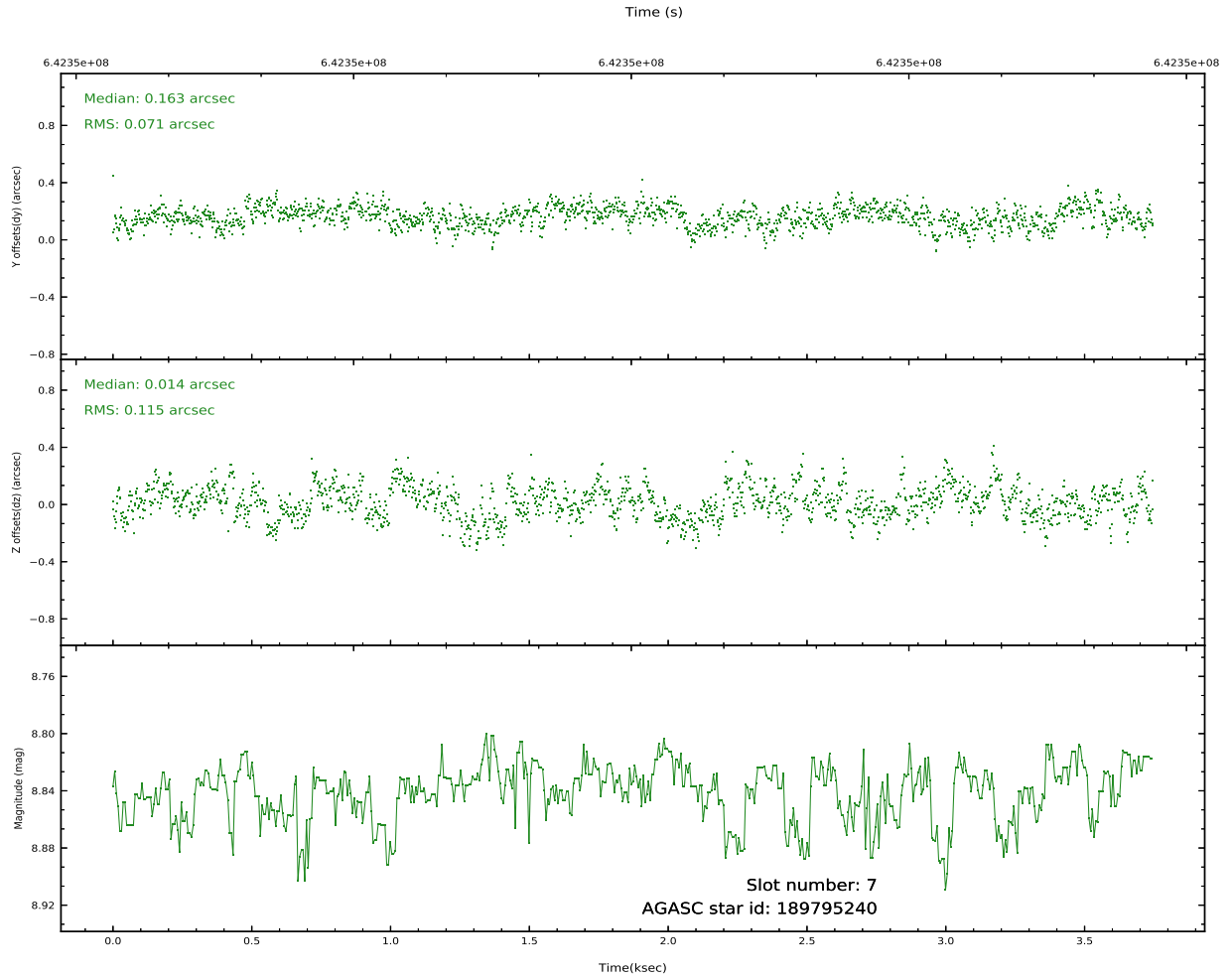
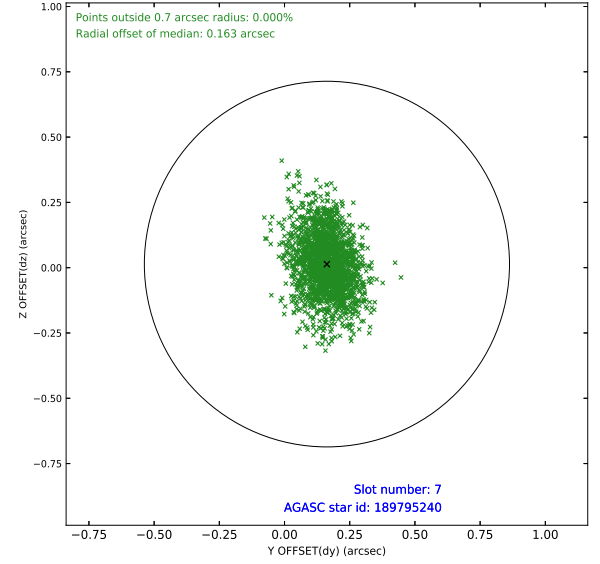
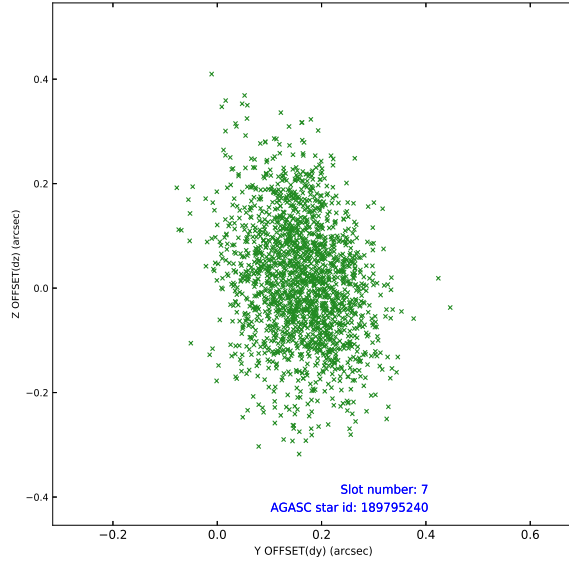
2.4.3 Slot 5



2.4.4 Slot 6

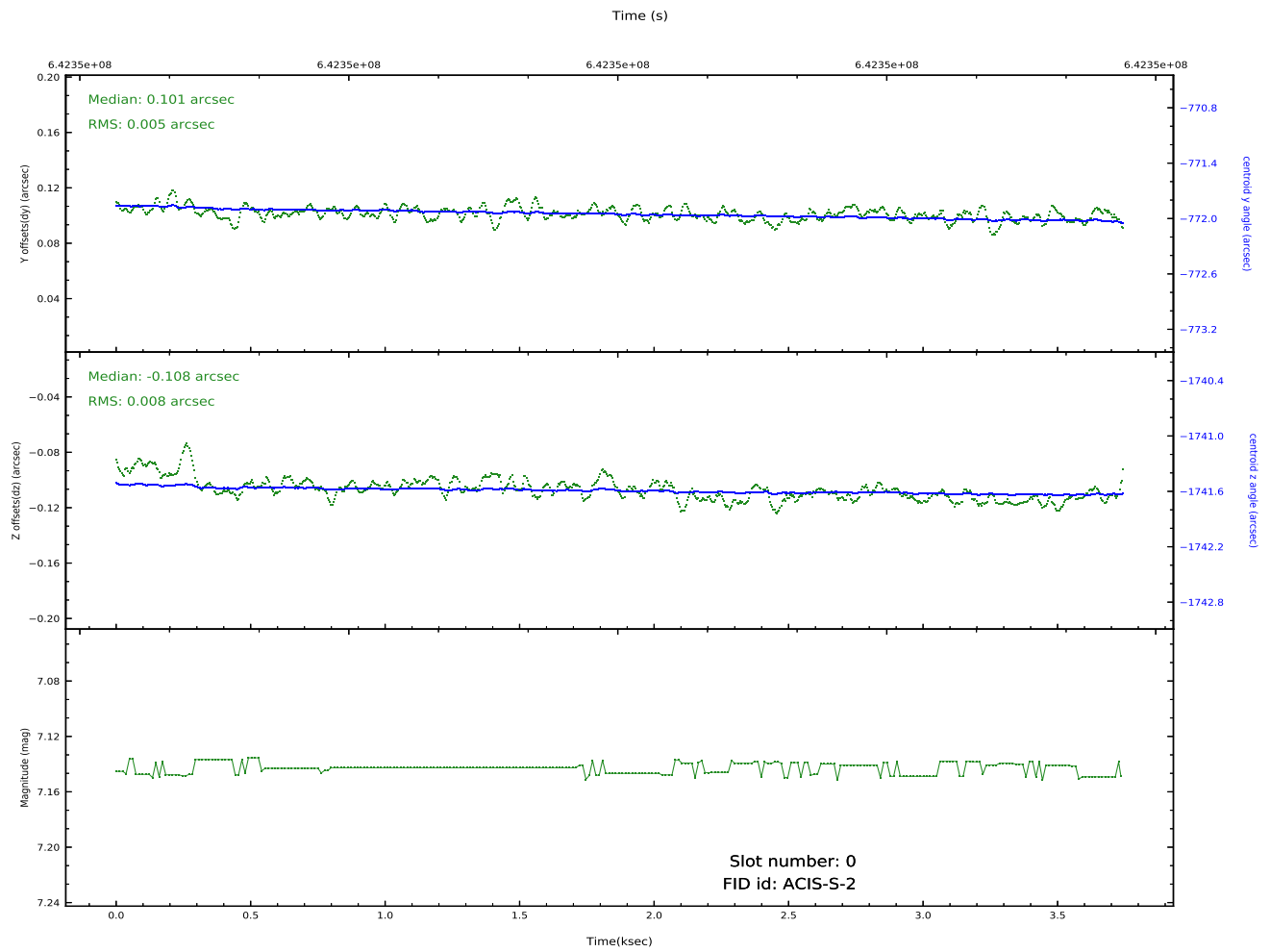
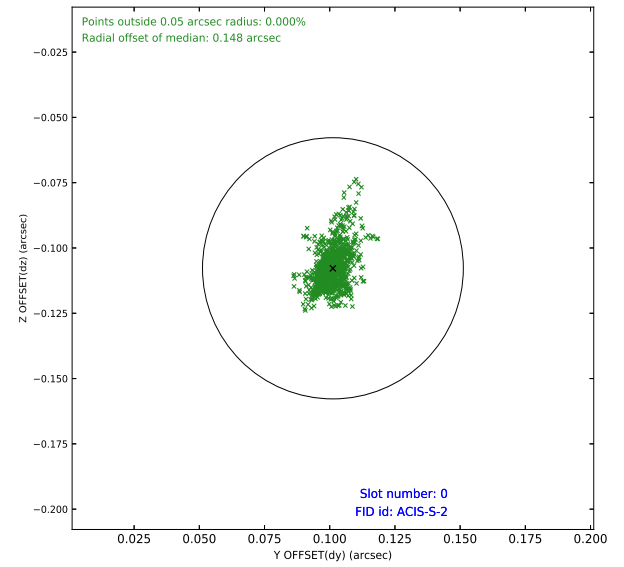
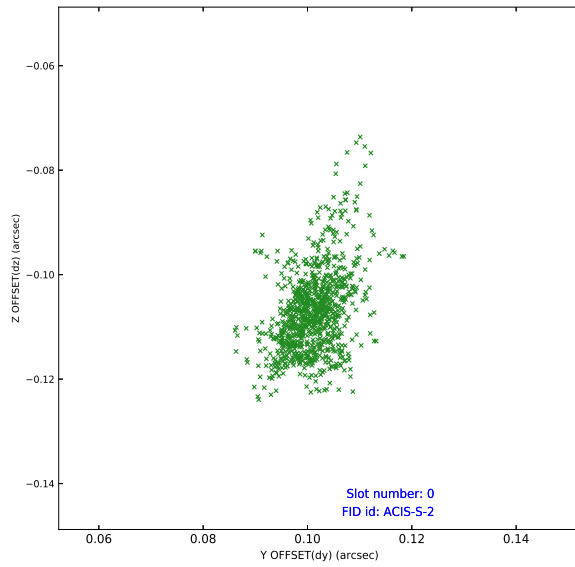


2.4.5 Slot 7

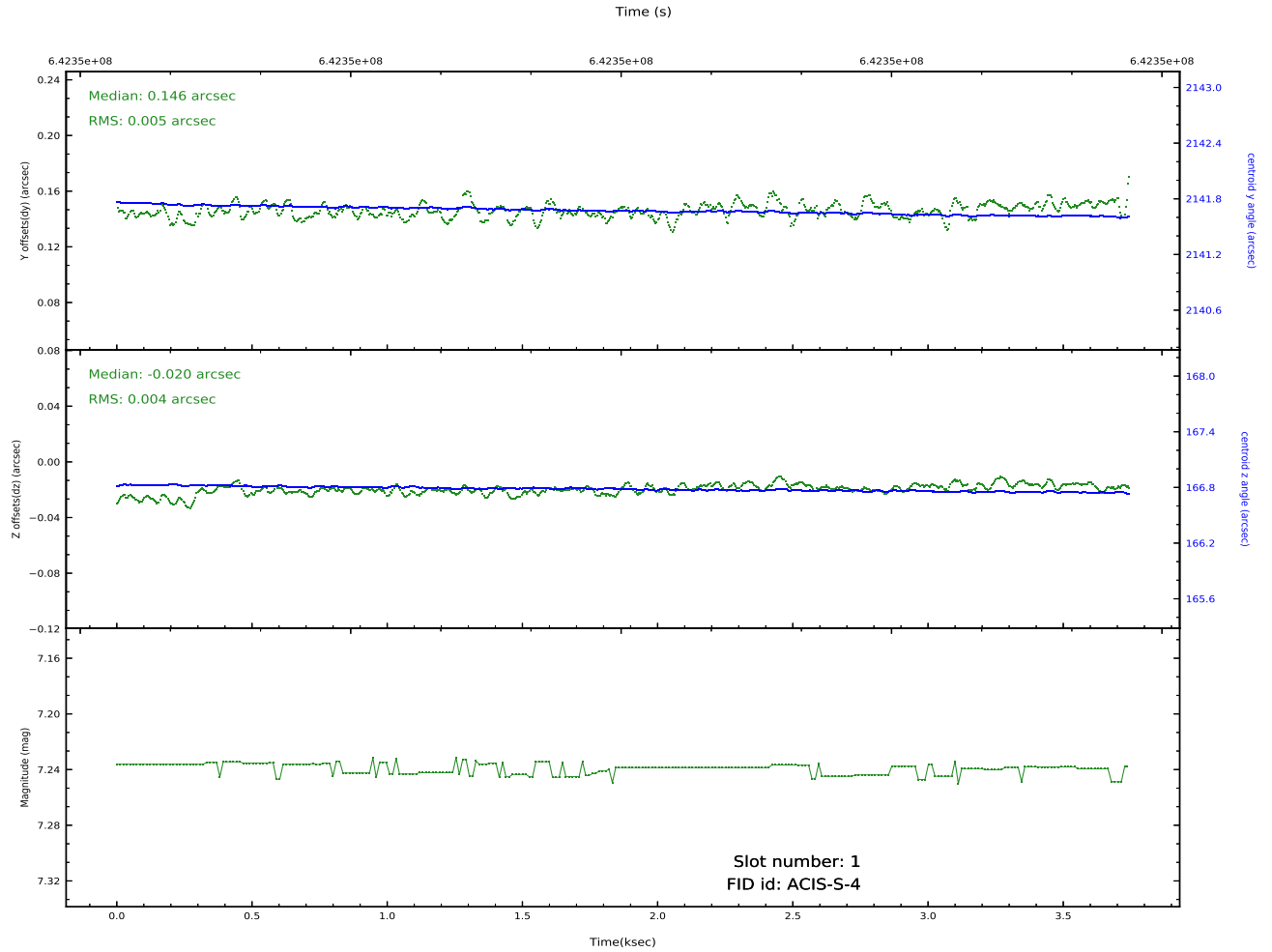
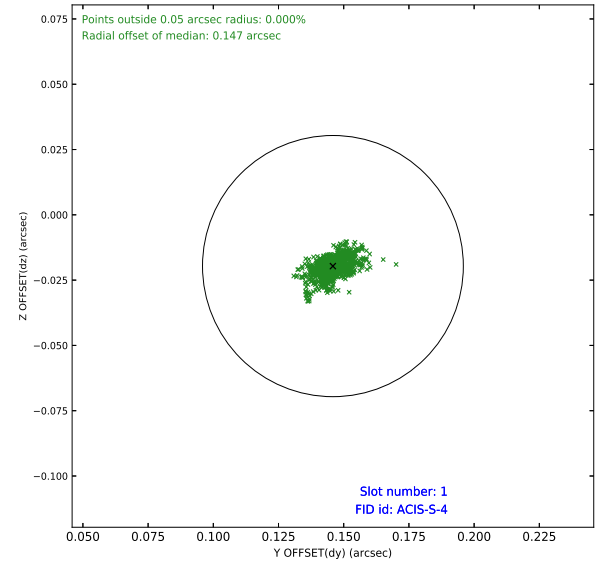
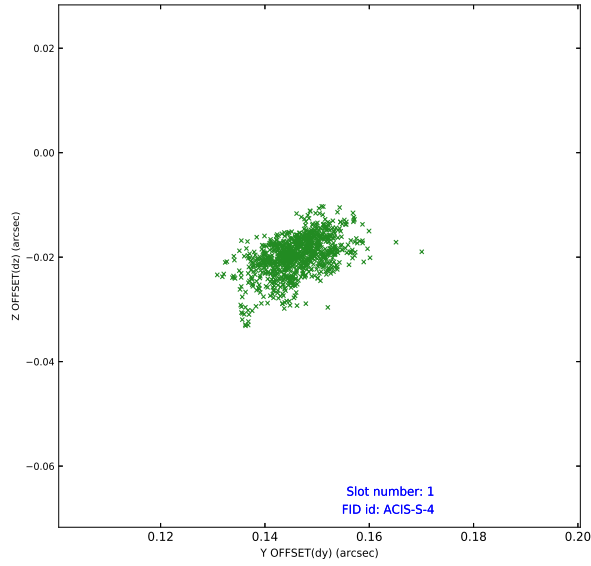


2.5 FID Slots

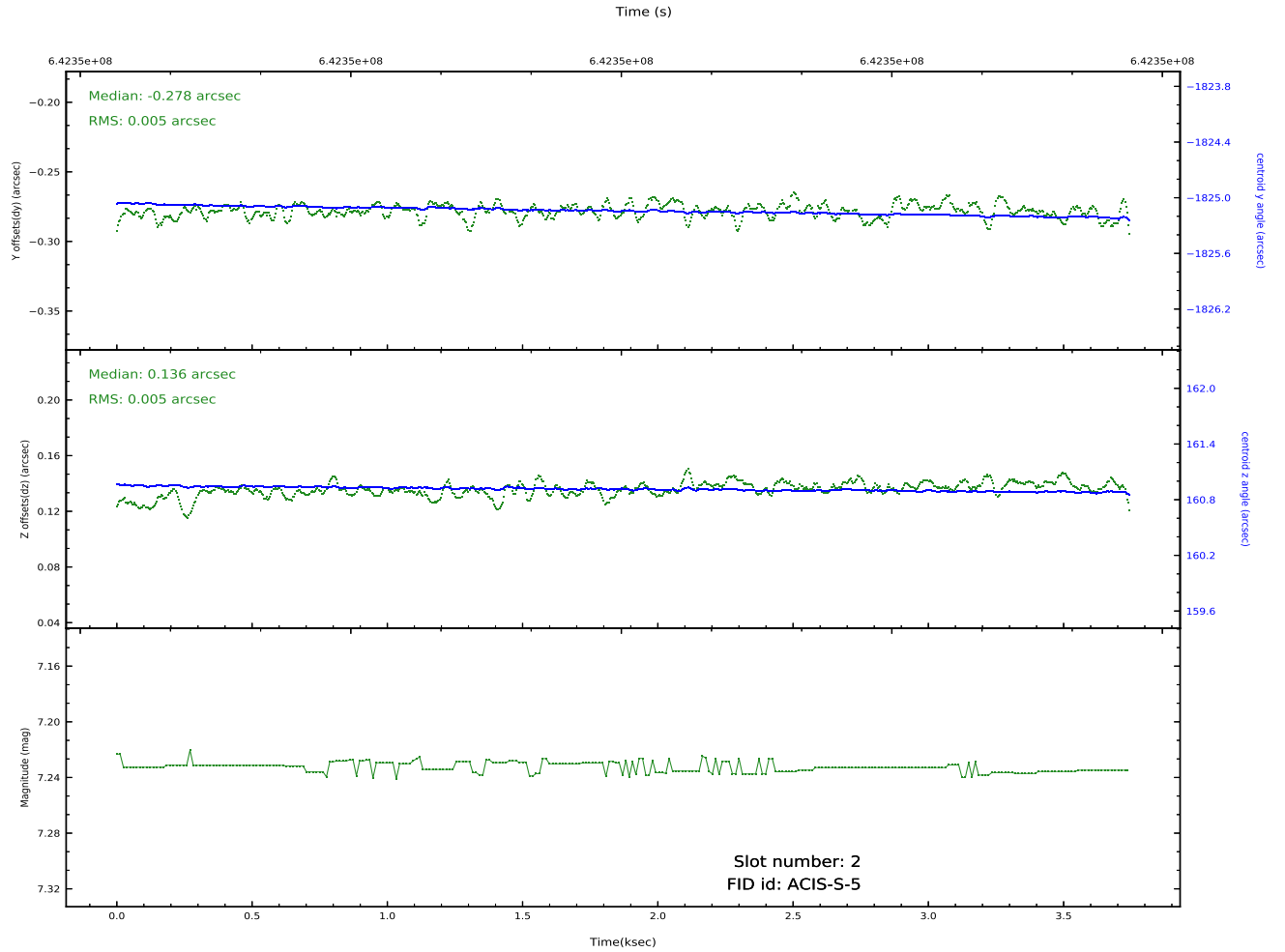
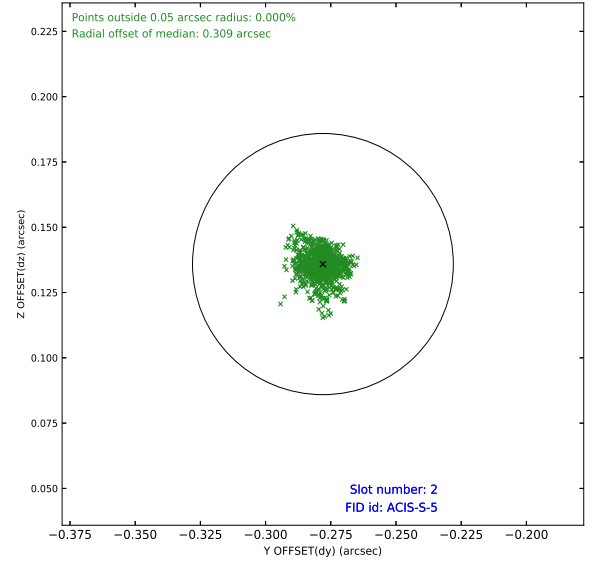
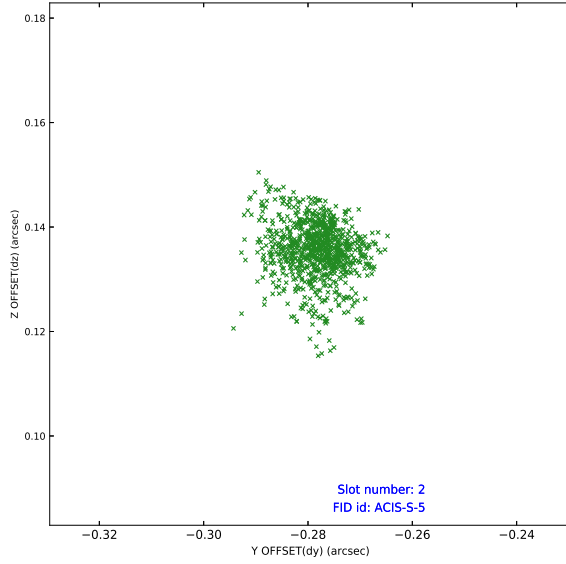
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.6514732310772

A.2 Comments