

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4708 - L2 Version 4
Chandra X-Ray Center

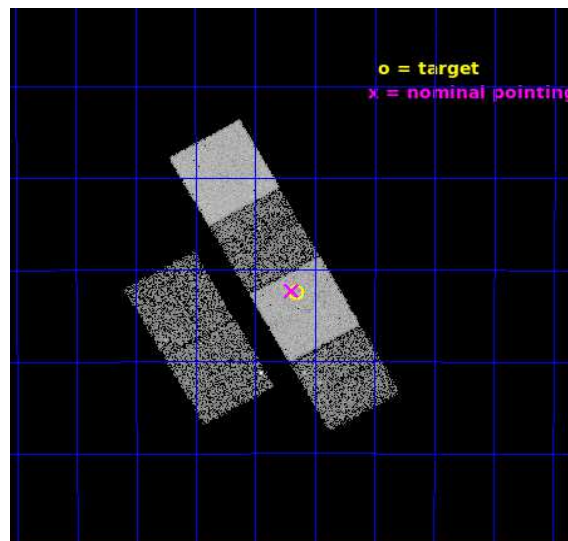
L2 Processing Date : Sep 29 2020

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1 Front

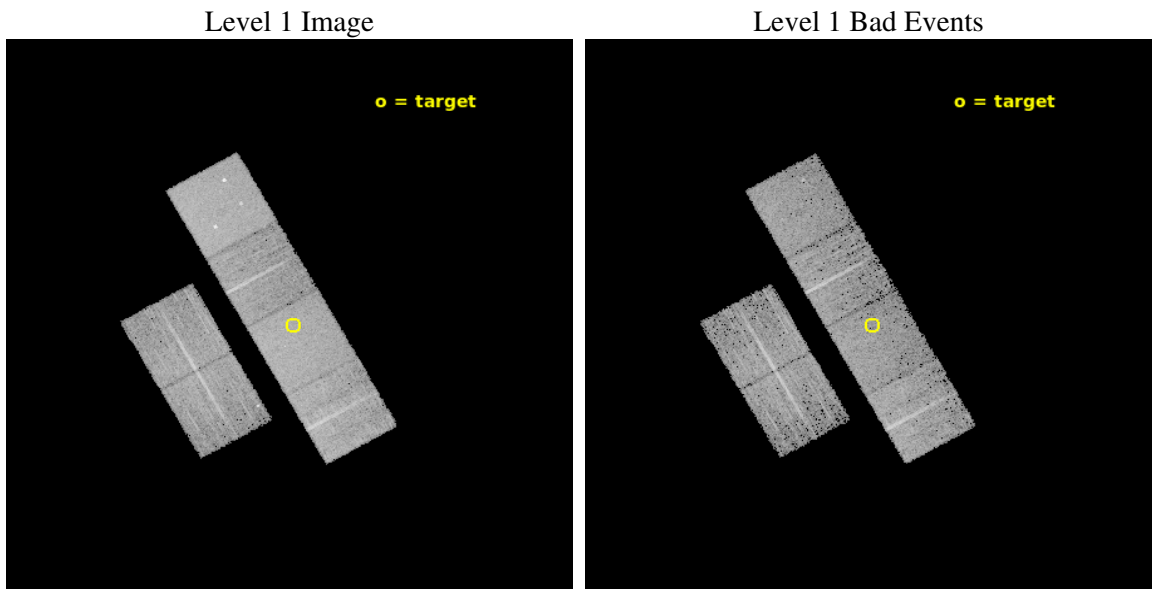
seq_num	600363	Sequence number
obs_id	4708	Observation id
title	Using the Sculptor Dwarf Spheroidal Galaxy to Constrain X-ray Binary Production in Population II	Proposal title
observer	Thomas Maccarone	Principal investigator
object	SCULPTOR DWARF SPHEROIDAL	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	15.039167	Observer's specified target RA [deg]
dec_targ	-33.708889	Observer's specified target Dec [deg]
ra_nom	15.048340331662	Nominal RA [deg]
dec_nom	-33.704876028568	Nominal Dec [deg]
roll_nom	60.545828024215	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5955.1999778152	Sum of GTIs [s]
livetime	5879.7916499051	Livetime [s]
ontime2	5951.9590075314	Sum of GTIs [s]
ontime3	5955.1782178581	Sum of GTIs [s]
ontime5	5955.1999778152	Sum of GTIs [s]
ontime6	5955.1999778152	Sum of GTIs [s]
ontime7	5955.1999778152	Sum of GTIs [s]
ontime8	5955.1371778846	Sum of GTIs [s]
l2events	71524	Number of level 2 events



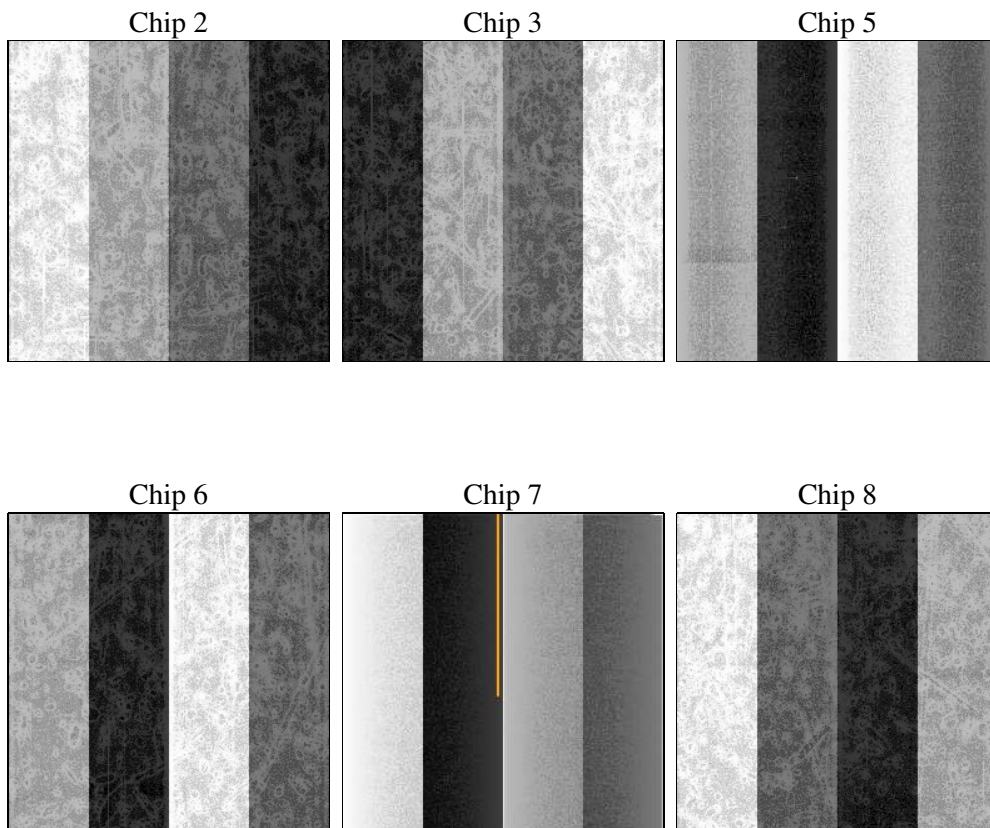
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5955.1999778152	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	5951.9590075314	Sum of GTIs [s]
date	2020-09-29T11:46:39	Date and time of file creation	ontime3	5955.1782178581	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	5955.1999778152	Sum of GTIs [s]
			ontime6	5955.1999778152	Sum of GTIs [s]
			ontime7	5955.1999778152	Sum of GTIs [s]
			ontime8	5955.1371778846	Sum of GTIs [s]
			l1events	317351	Number of level 1 events

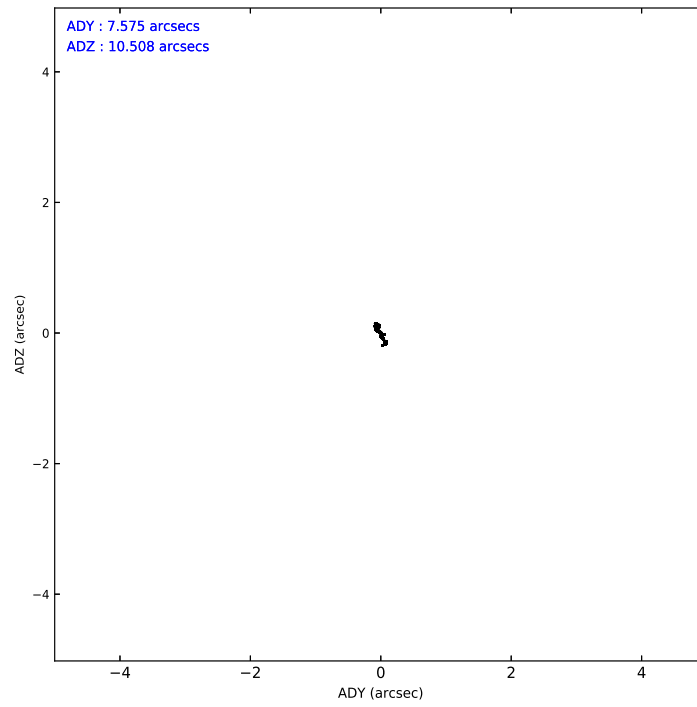
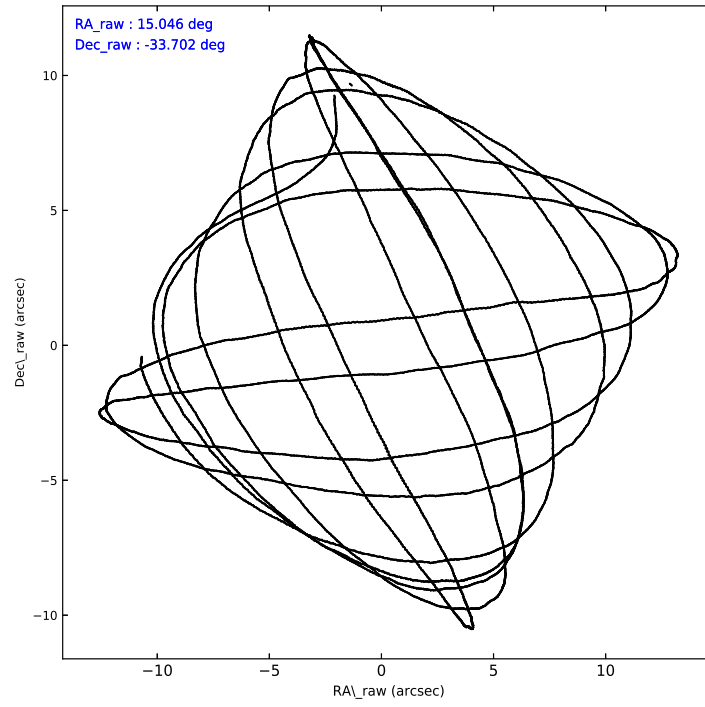
2.1.4 Events

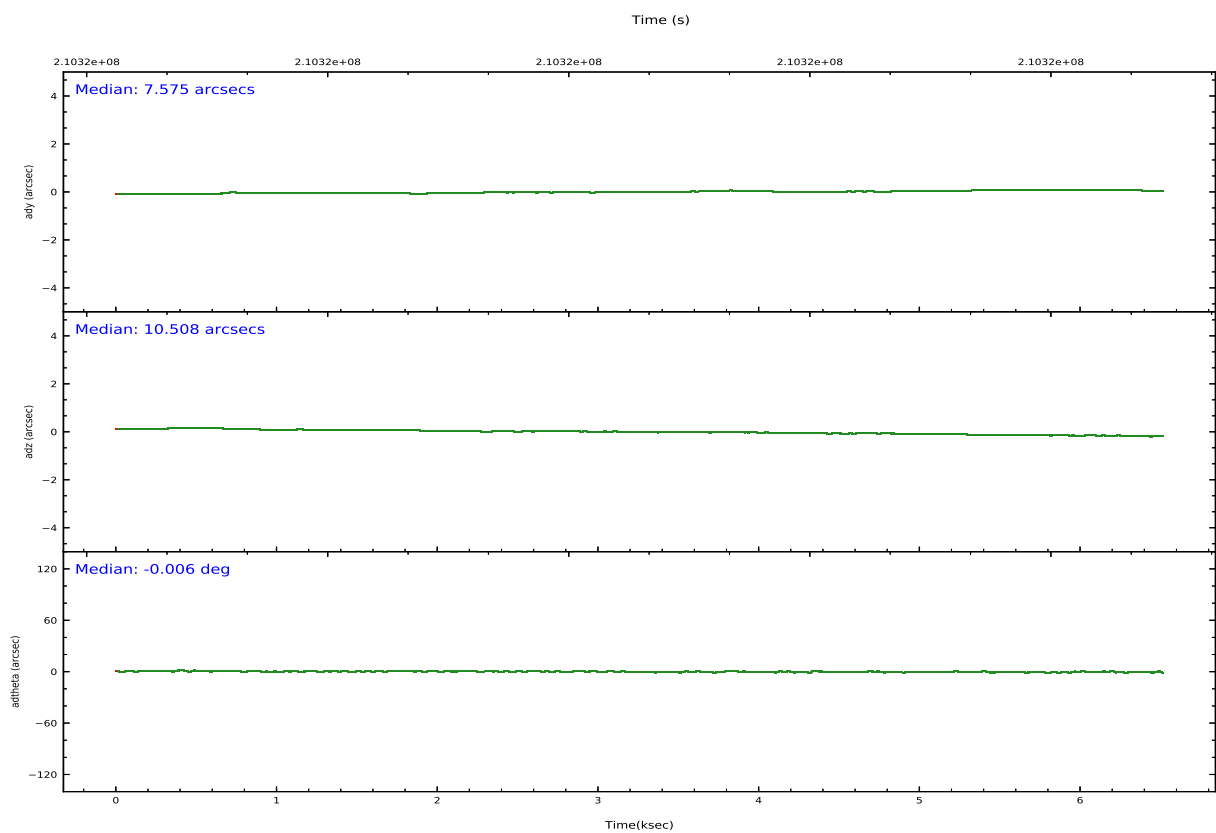
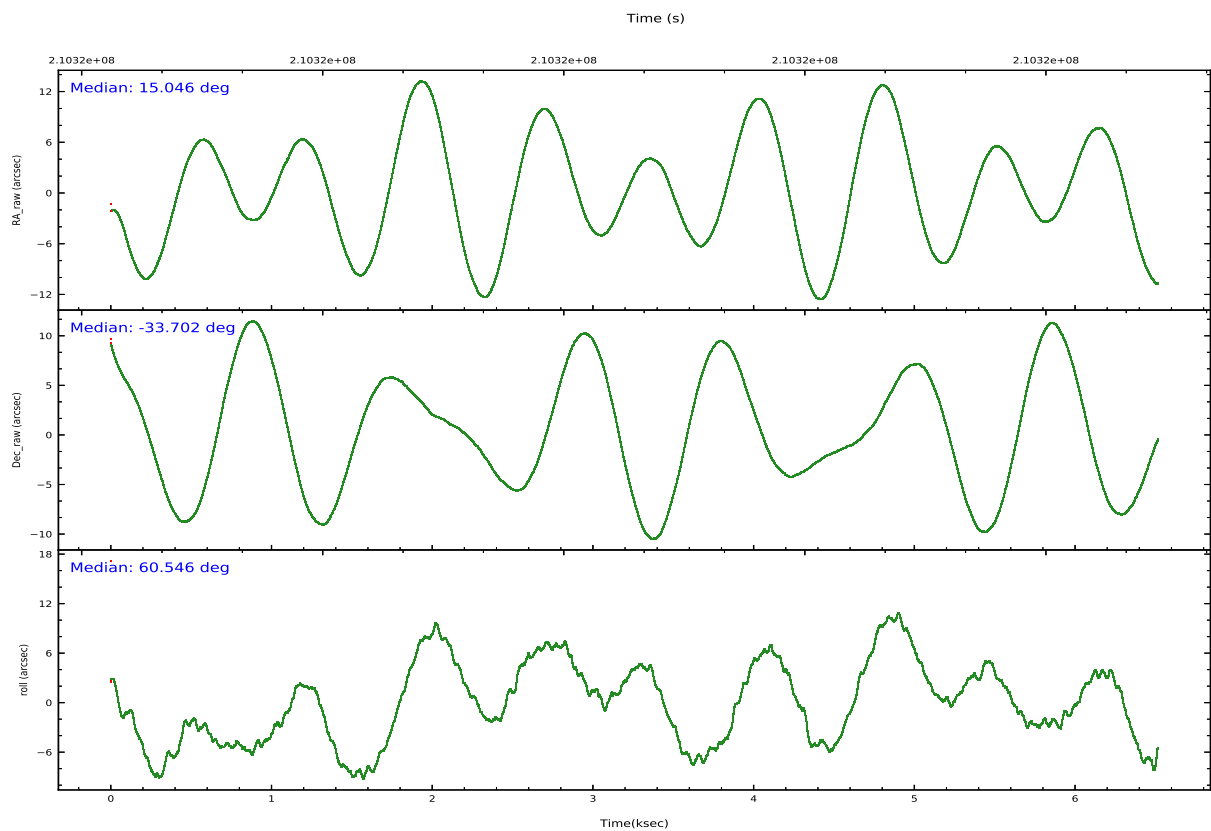
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	45630	43000	67015	43773	59595	58338	grade 0 events	2384	2493	3498	2229	2236	3831
rejected events	40368	37584	35561	38417	34985	46275		5%	5%	5%	5%	3%	6%
rejected %	88%	87%	53%	87%	58%	79%	grade 1 events	21	26	146	20	54	37
								0%	0%	0%	0%	0%	0%
							grade 2 events	1091	1001	9250	1100	4835	2705
								2%	2%	13%	2%	8%	4%
							grade 3 events	450	536	1330	497	2140	1255
								0%	1%	1%	1%	3%	2%
							grade 4 events	514	486	1192	509	2208	1201
								1%	1%	1%	1%	3%	2%
							grade 5 events	1793	1963	4882	2108	5683	2734
								3%	4%	7%	4%	9%	4%
							grade 6 events	831	908	16214	1038	13223	3098
								1%	2%	24%	2%	22%	5%
							grade 7 events	38546	35587	30503	36272	29216	43477
								84%	82%	45%	82%	49%	74%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	15.047324	15.048340331662	Subarray requested	NONE	NONE
[deg] Pointing Dec	-33.728659	-33.704876028568	Alternating exposures requested	N	N
[deg] Pointing Roll	60.388839	60.545828024215	[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)	210319699.184000	210318426.59914			
Observation start date	2004-08-31T06:07:15	2004-08-31T05:47:06			
[s] Observation end time (MET)	210325699.184000	210326785.98701			
Observation end date	2004-08-31T07:47:15	2004-08-31T08:06:25			
Read mode	TIMED	TIMED			

2.3 Aspect



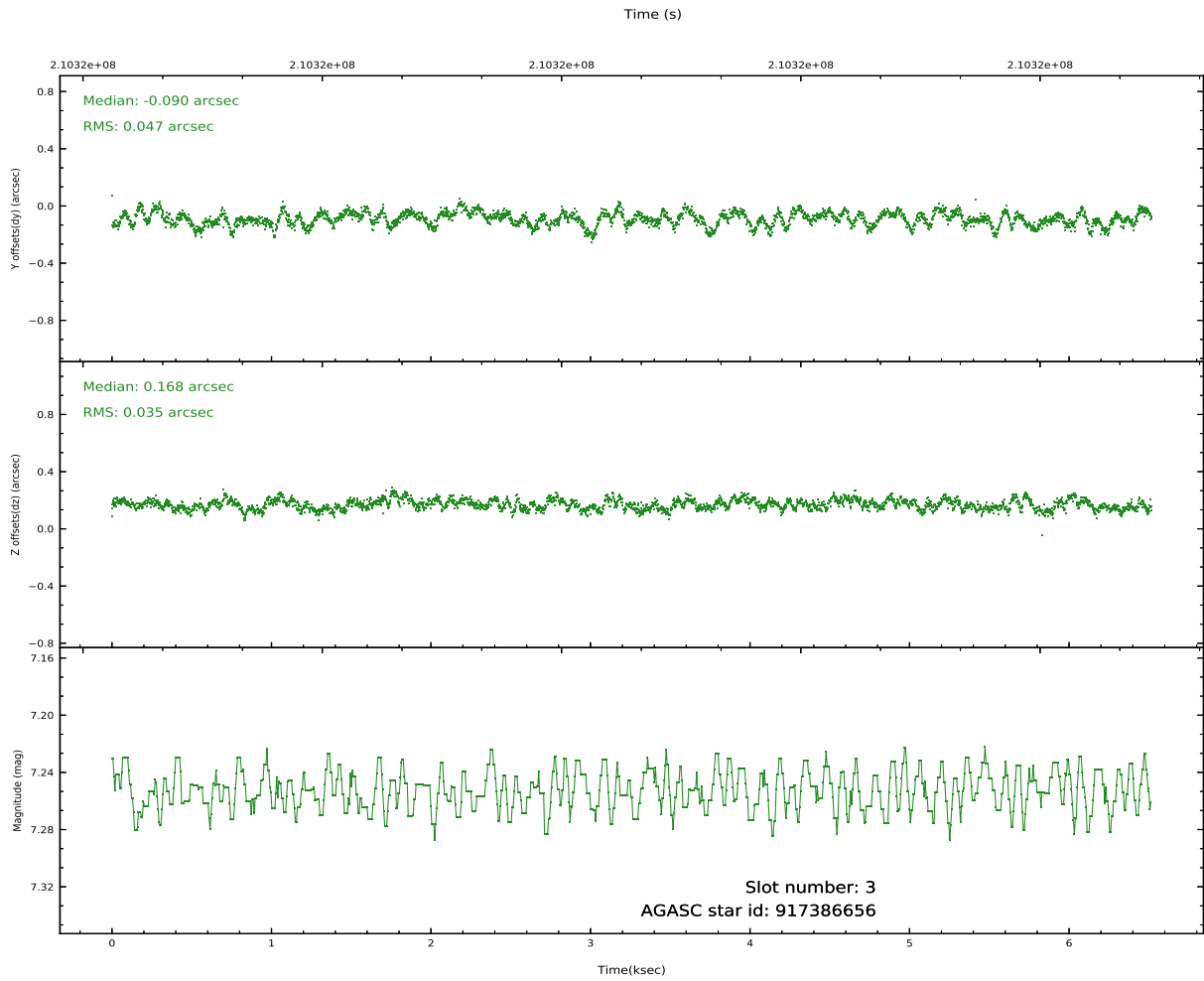
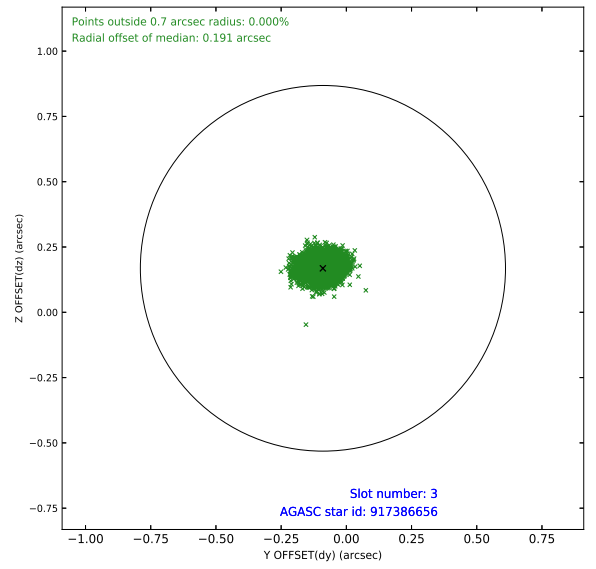
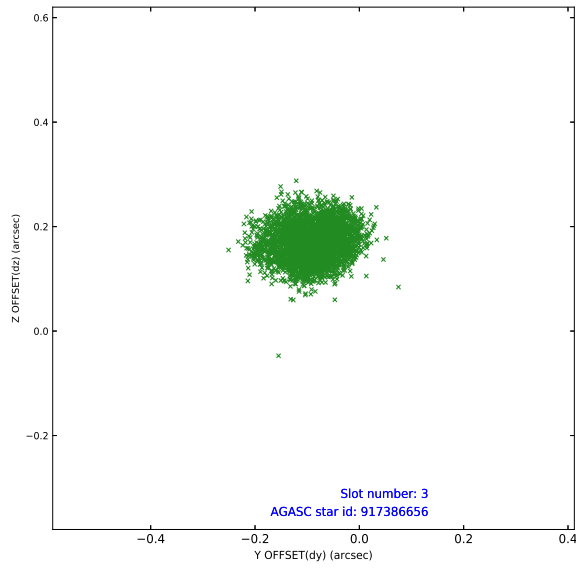


Slot Statistics

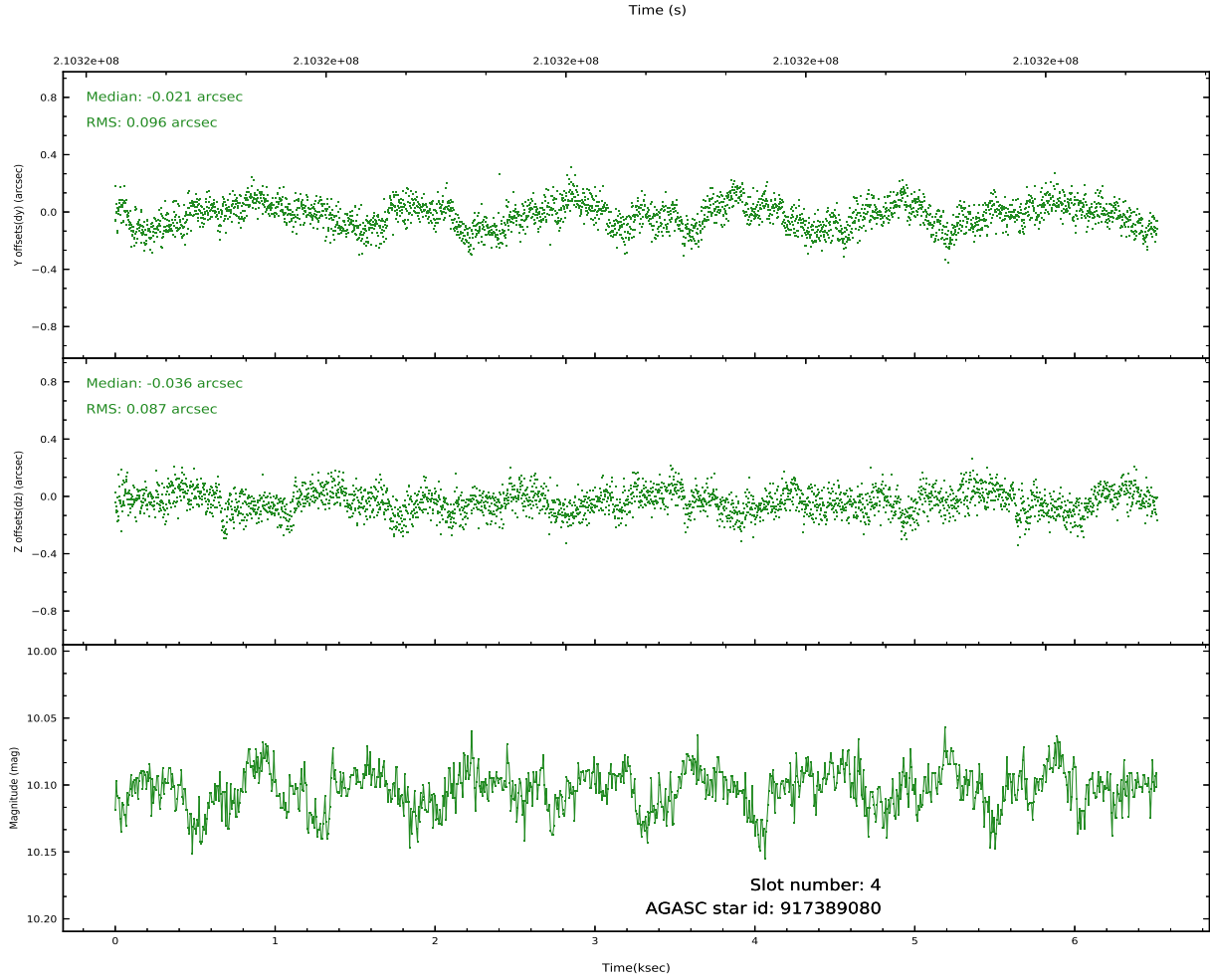
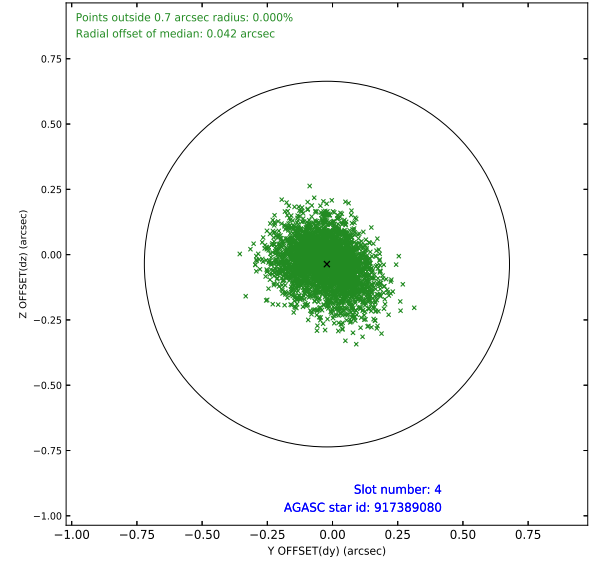
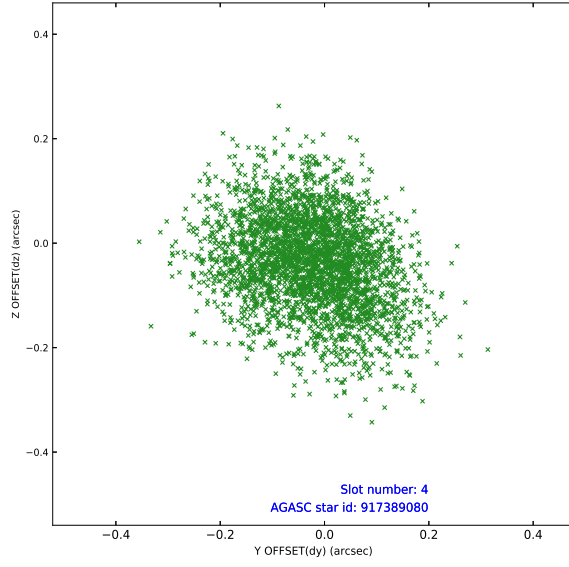
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	1590	1.000	0.054	-0.093	0.007	0.012	0.000000	0.000000	935.77	-1727
1	FID		ACIS-S-5	7.23	1590	1.000	-0.110	0.020	0.006	0.011	0.000000	0.000000	-1812.91	169
2	FID		ACIS-S-6	7.35	1590	1.000	0.035	0.085	0.008	0.013	0.000000	0.000000	400.31	814
3	GUIDE	used	917386656	7.25	3180	1.000	-0.090	0.168	0.063	0.099	15.342124	-33.359890	1591.53	-115
4	GUIDE	used	917389080	10.10	3175	1.000	-0.021	-0.036	0.138	0.224	15.722484	-33.662555	1201.88	-1644
5	GUIDE	used	917389288	9.57	3178	1.000	-0.076	-0.003	0.107	0.172	15.394706	-33.185862	2215.14	54
6	GUIDE	used	917650528	8.72	3180	1.000	0.100	-0.019	0.070	0.114	14.274554	-33.869842	-1589.69	1752
7	GUIDE	used	917651768	9.62	3177	1.000	0.088	-0.108	0.113	0.187	14.115744	-33.817552	-1666.08	2258

2.4 Star Slots

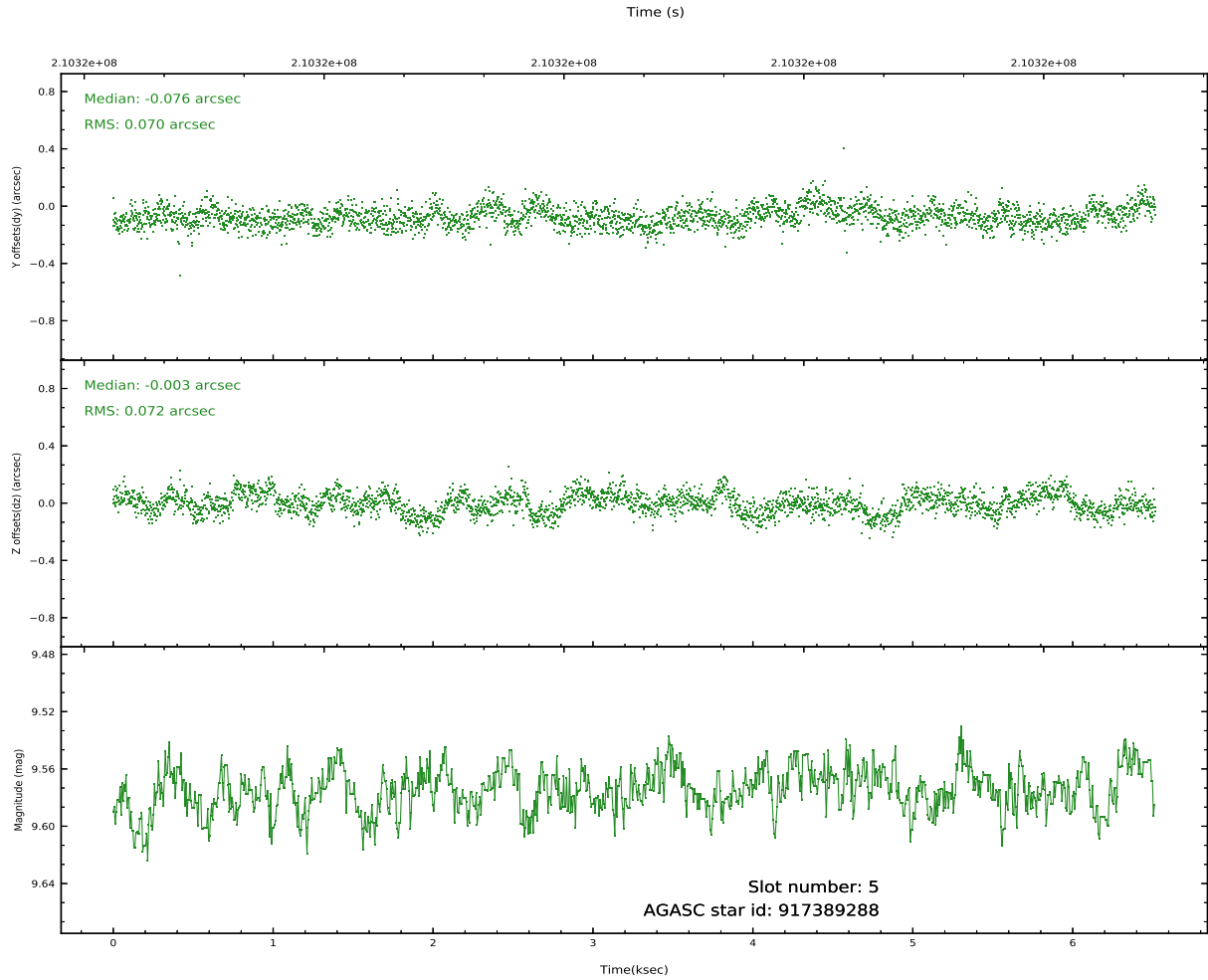
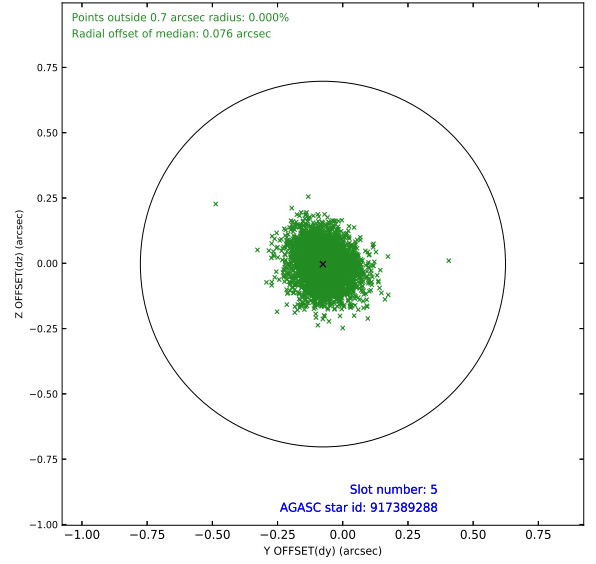
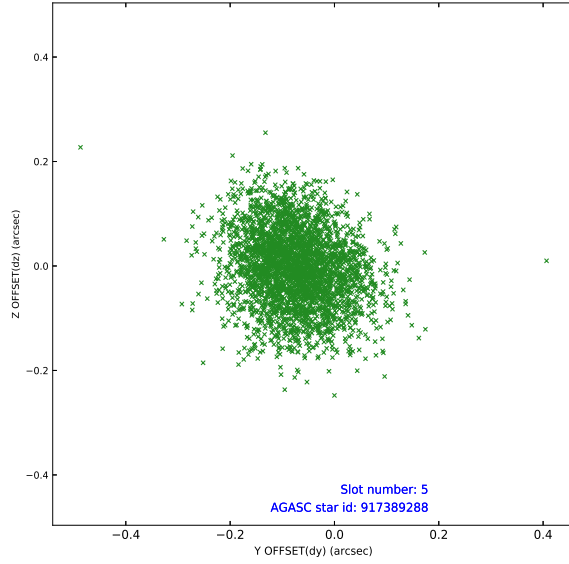
2.4.1 Slot 3



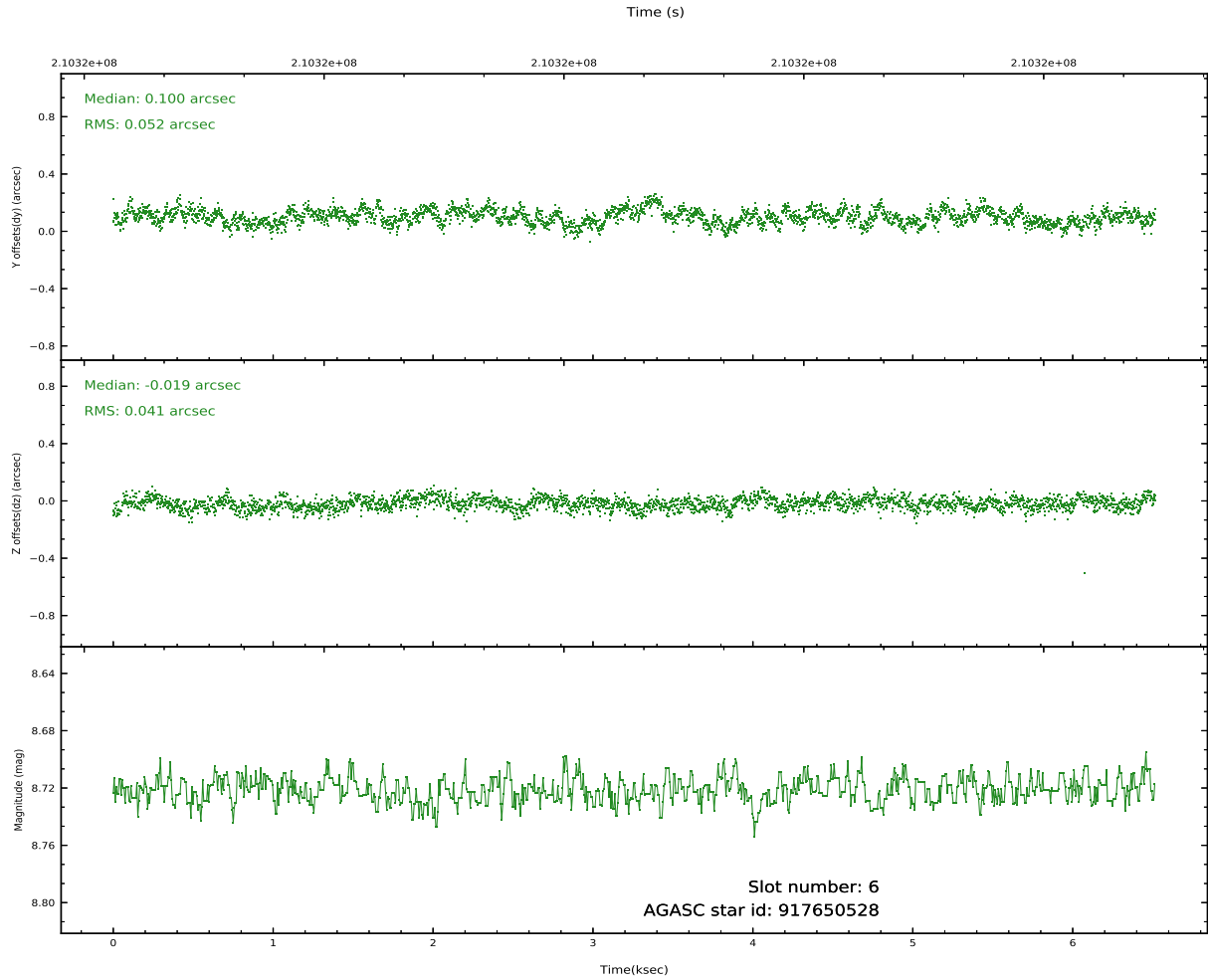
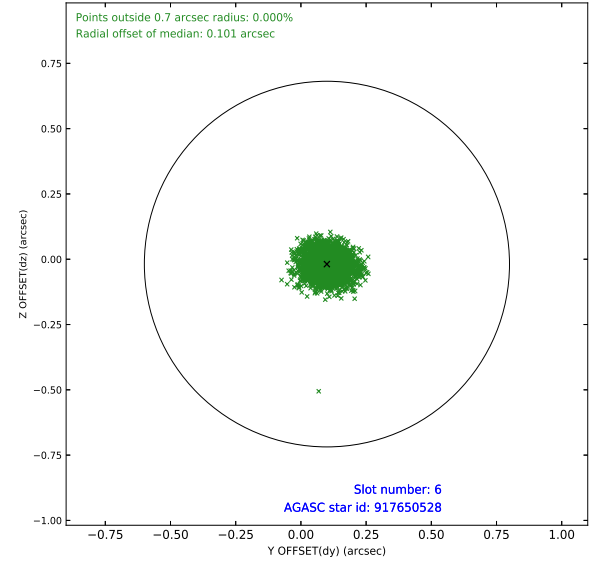
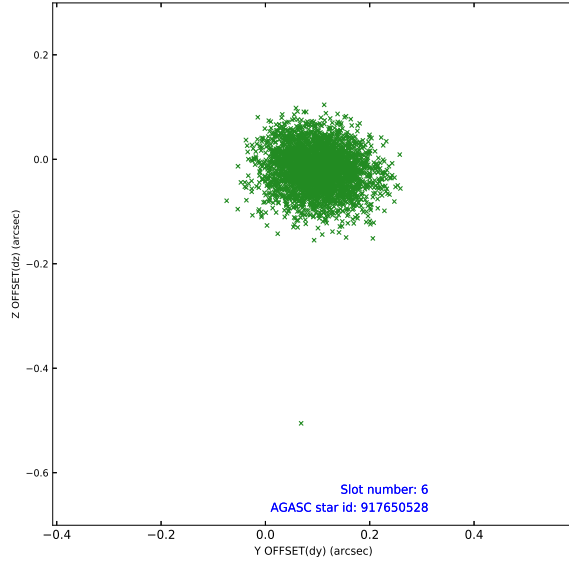
2.4.2 Slot 4



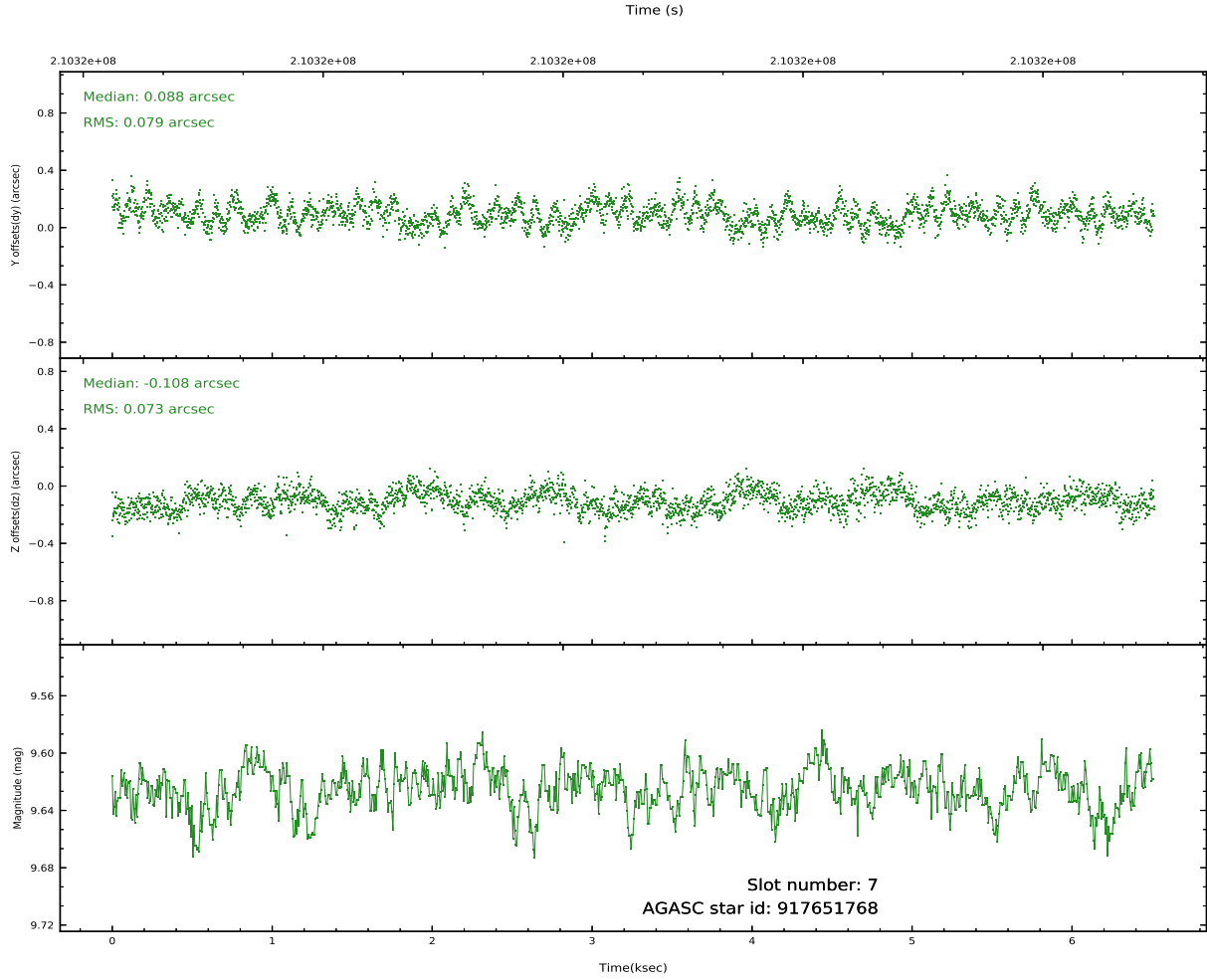
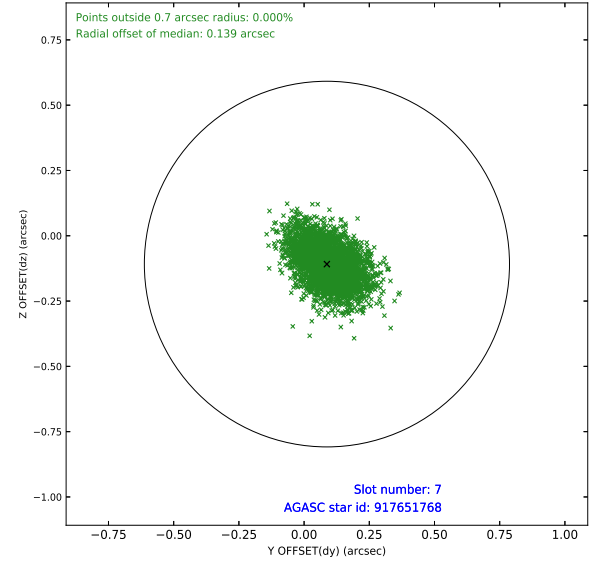
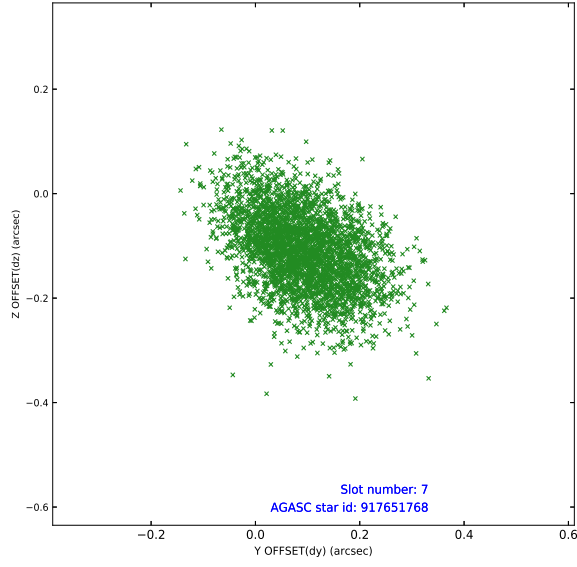
2.4.3 Slot 5



2.4.4 Slot 6

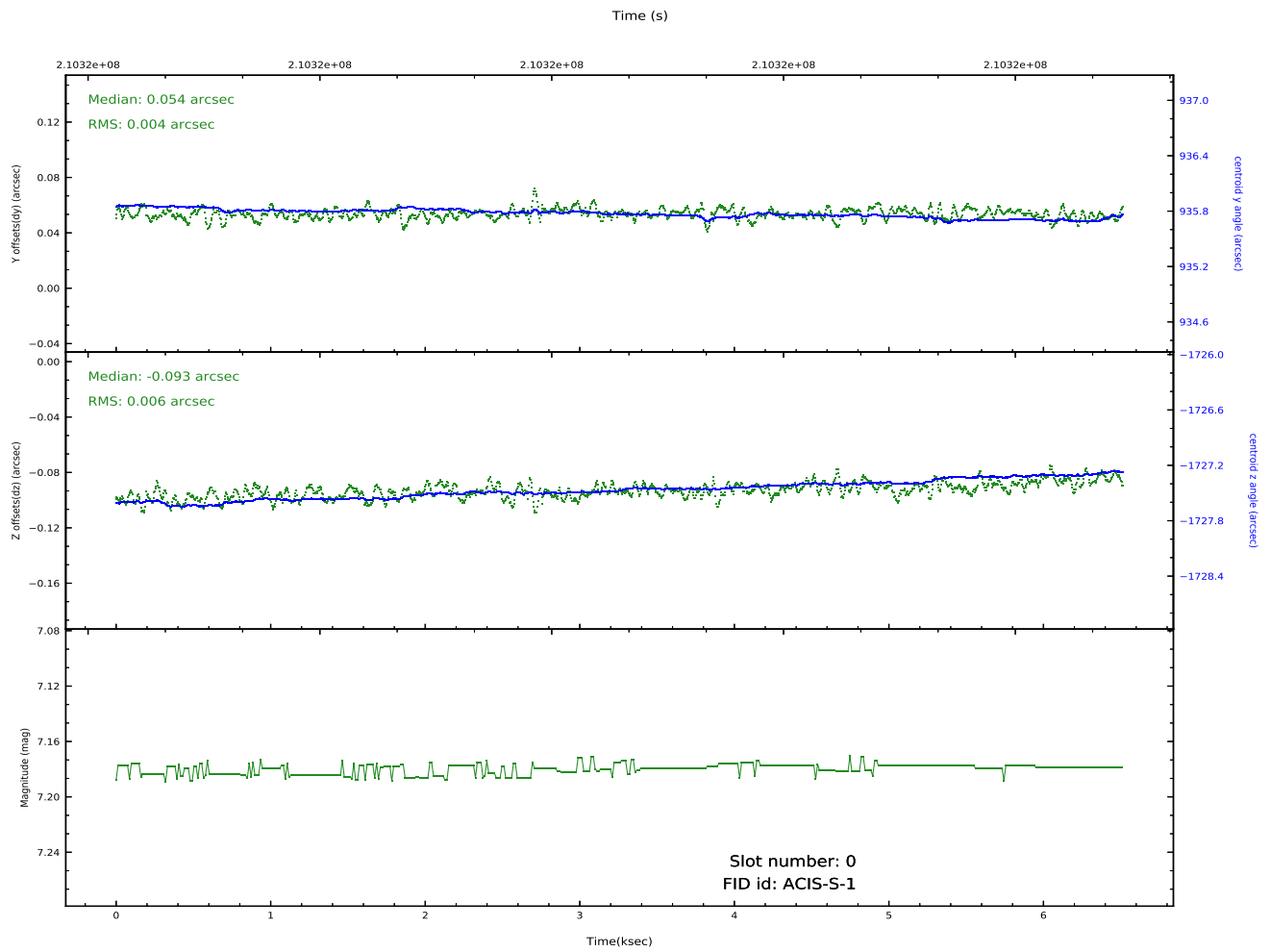
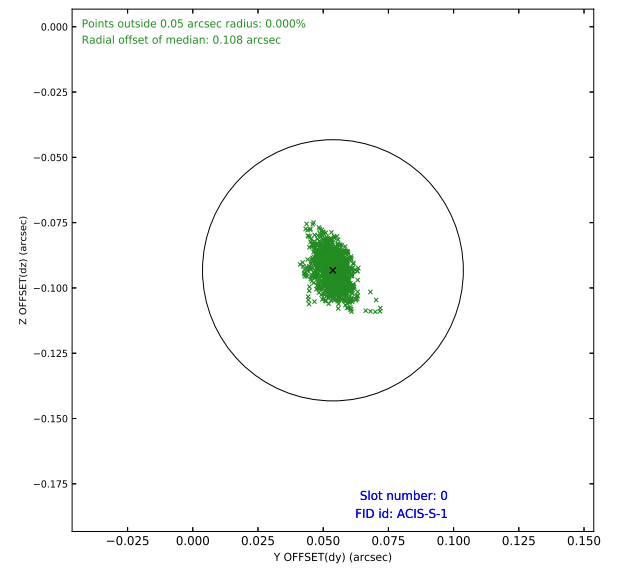
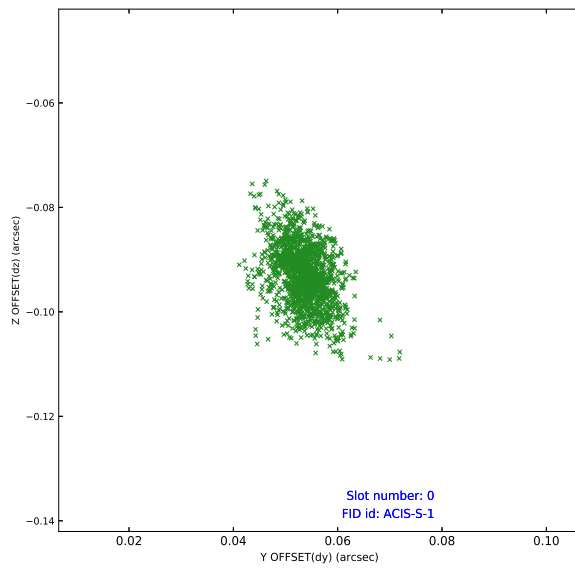


2.4.5 Slot 7

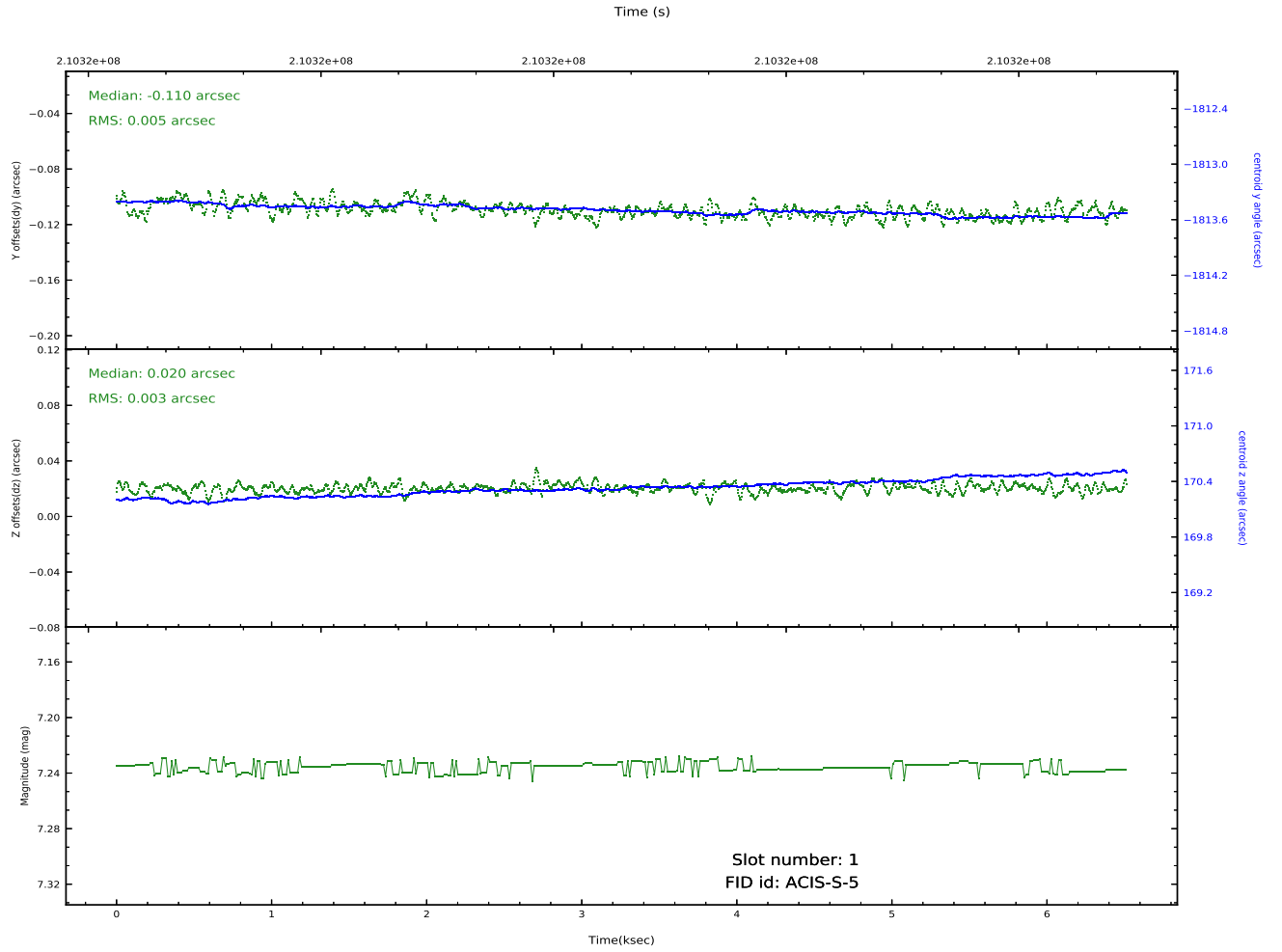
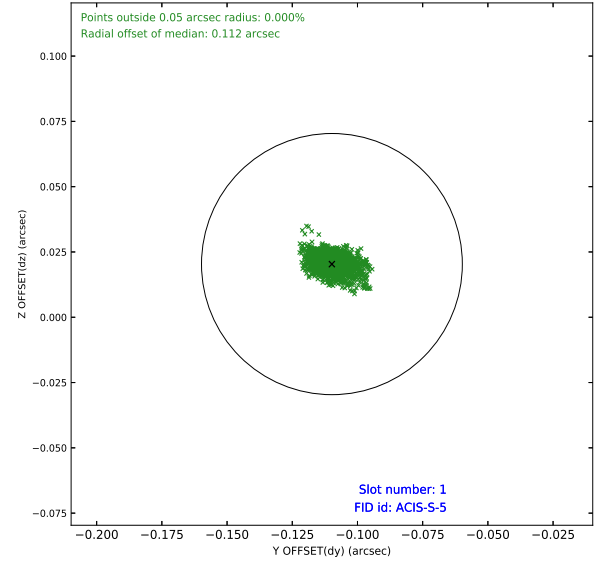
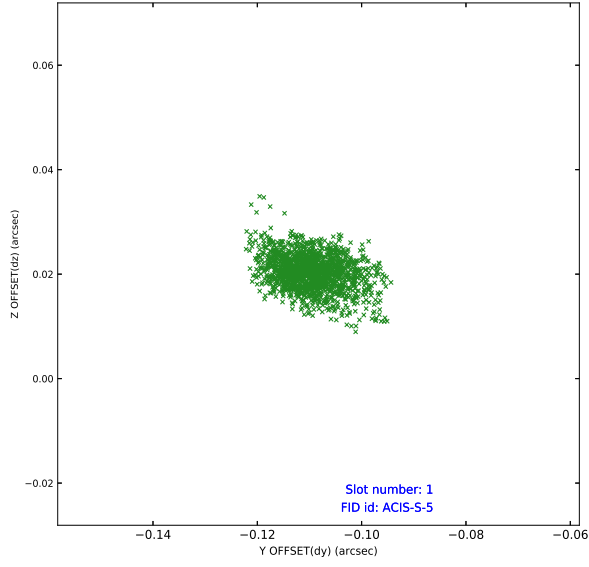


2.5 FID Slots

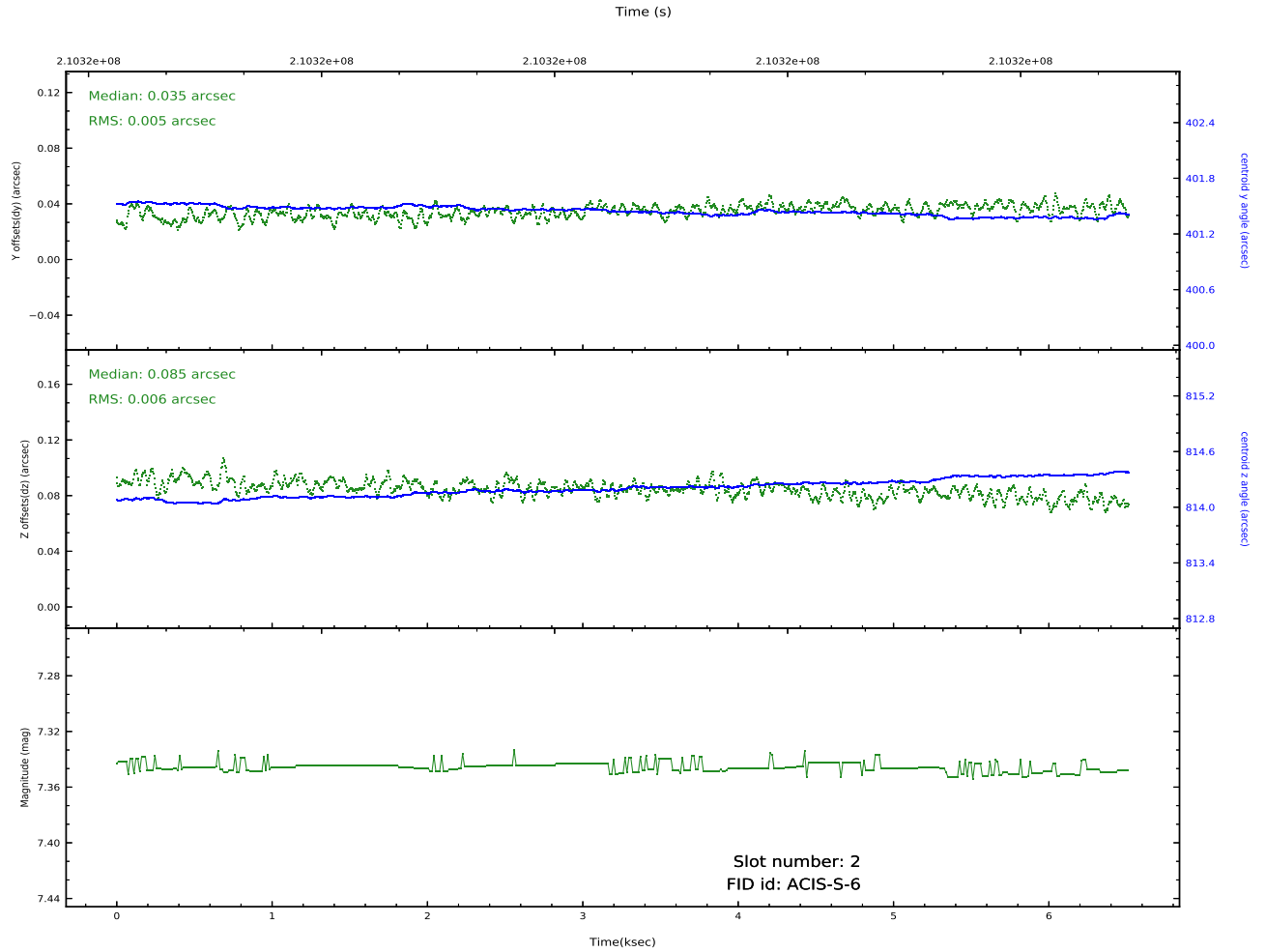
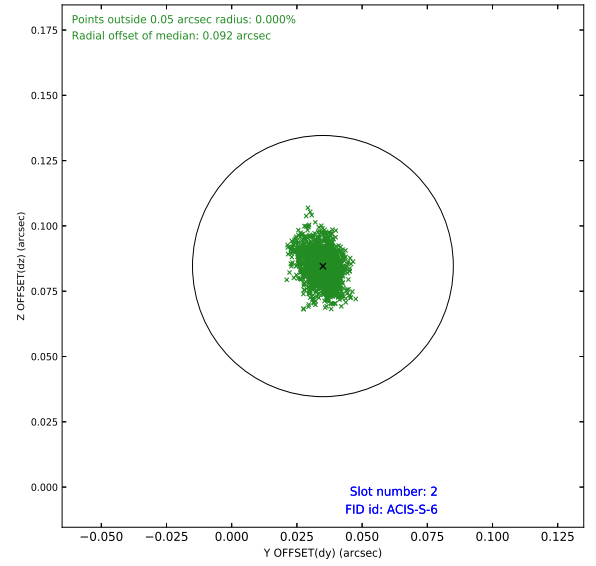
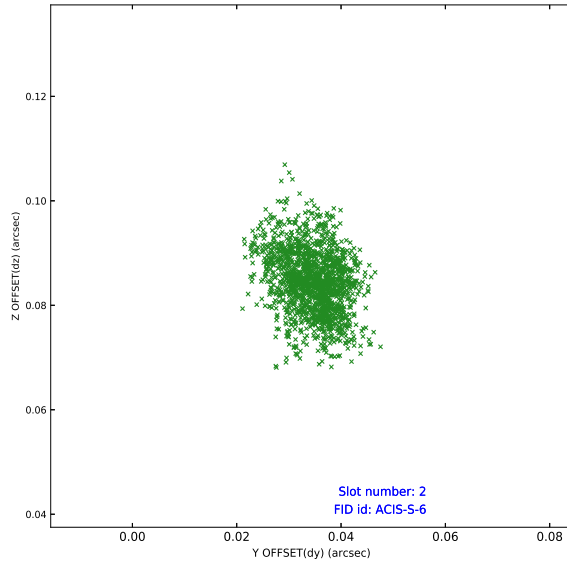
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.955

A.2 Comments

Joint proposal with NOAO.