

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4691 - L2 Version 4
Chandra X-Ray Center

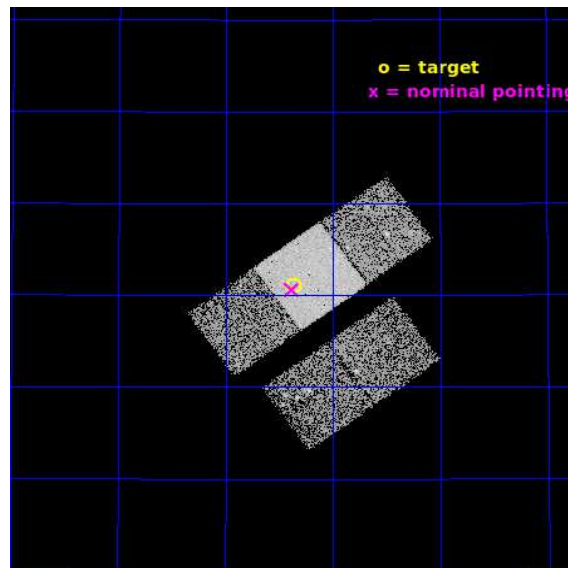
L2 Processing Date : Oct 5 2020

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

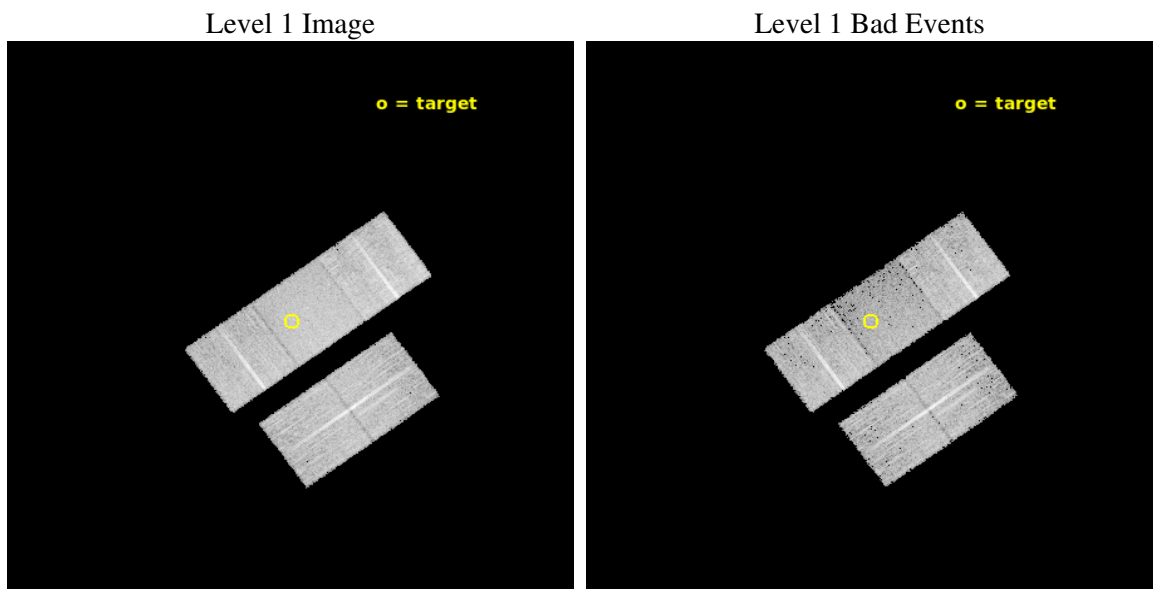
seq_num	600346	Sequence number
obs_id	4691	Observation id
title	Physics of Accretion Flows in Ultra-low Luminosity AGNs: A Mini Survey of a Distance-Limited Sample of Inactive Galaxies	Proposal tit
observer	Dr. Yuichi Terashima	Principal investigator
object	NGC 205	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.091667	Observer's specified target RA [deg]
dec_targ	41.685278	Observer's specified target Dec [deg]
ra_nom	10.095707857293	Nominal RA [deg]
dec_nom	41.677041344288	Nominal Dec [deg]
roll_nom	324.2313707302	Nominal Roll [deg]
revision	4	Processing version of data
ontime	9997.213209033	Sum of GTIs [s]
livetime	9866.5922586157	Livetime [s]
ontime2	9975.2264373899	Sum of GTIs [s]
ontime3	9987.7902187109	Sum of GTIs [s]
ontime6	9987.7903183401	Sum of GTIs [s]
ontime7	9997.213209033	Sum of GTIs [s]
ontime8	9987.7903082669	Sum of GTIs [s]
l2events	47629	Number of level 2 events



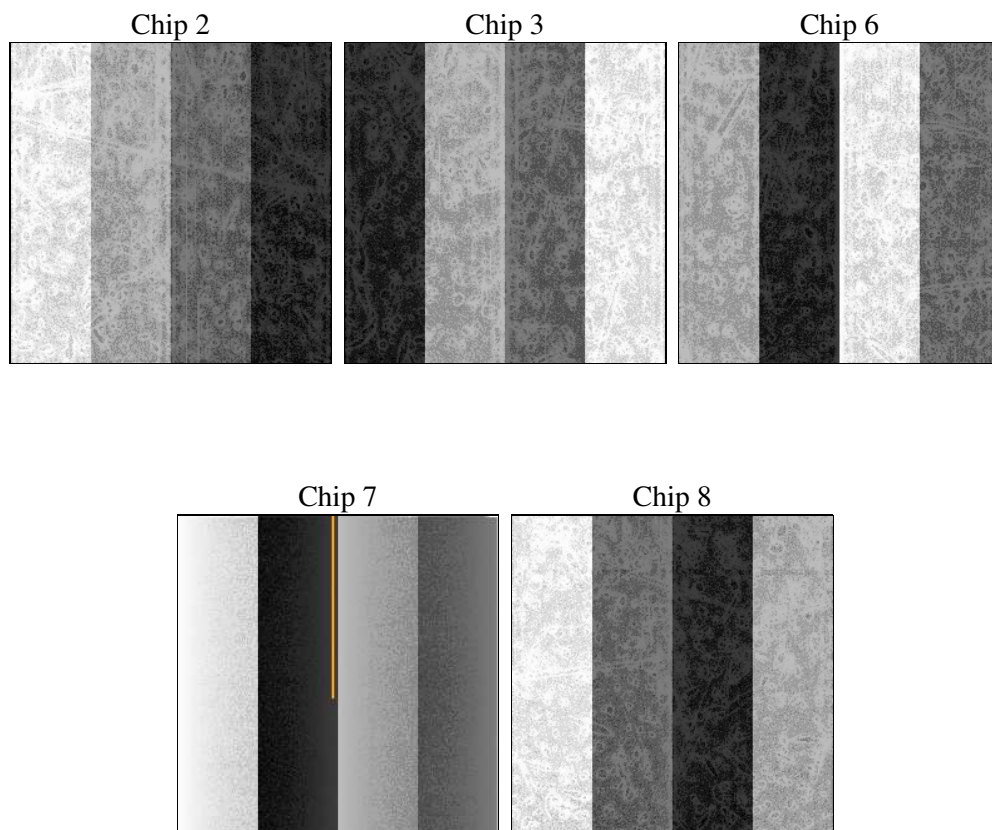
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10250.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	9997.213209033	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	9975.2264373899	Sum of GTIs [s]
date	2020-10-05T23:59:41	Date and time of file creation	ontime3	9987.7902187109	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	9987.7903183401	Sum of GTIs [s]
			ontime7	9997.213209033	Sum of GTIs [s]
			ontime8	9987.7903082669	Sum of GTIs [s]
			l1events	303764	Number of level 1 events

2.1.4 Events

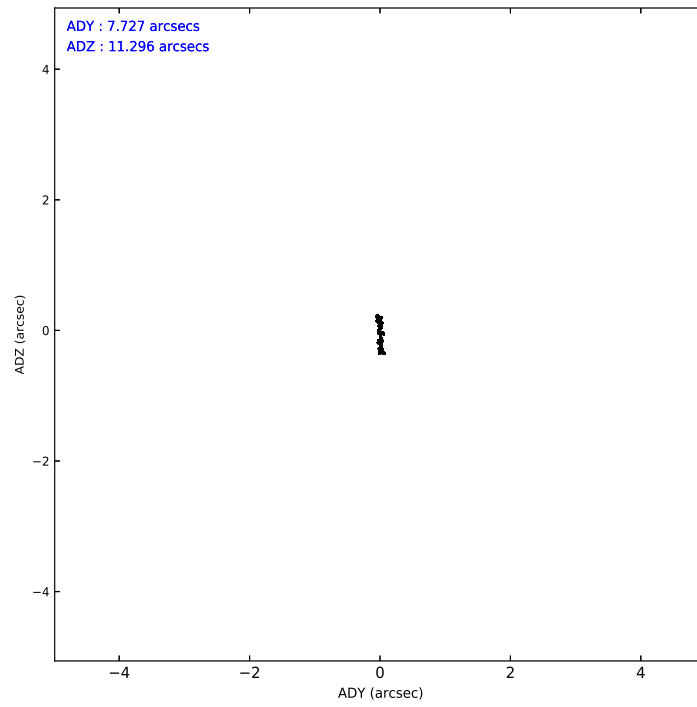
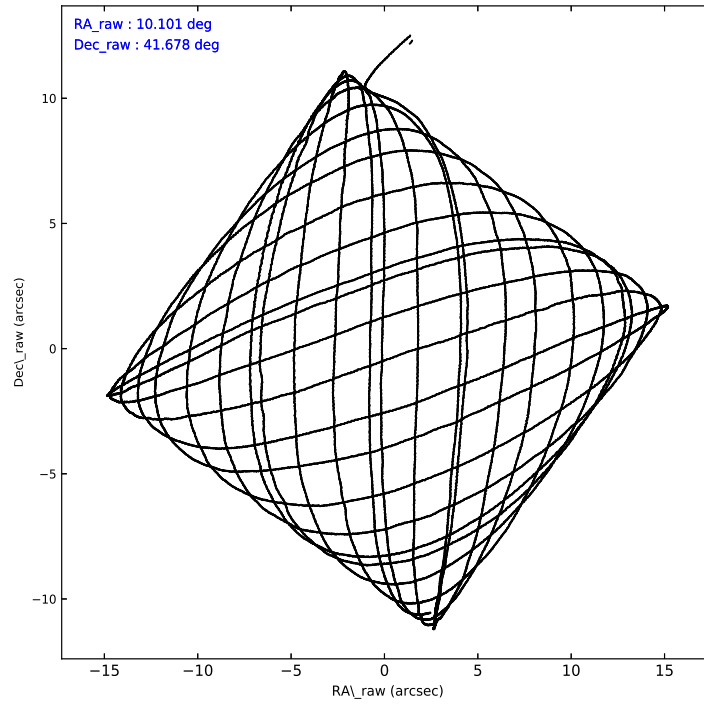
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	56111	55270	57261	61463	73659
rejected events	50484	50124	51356	33470	57551
rejected %	89%	90%	89%	54%	78%

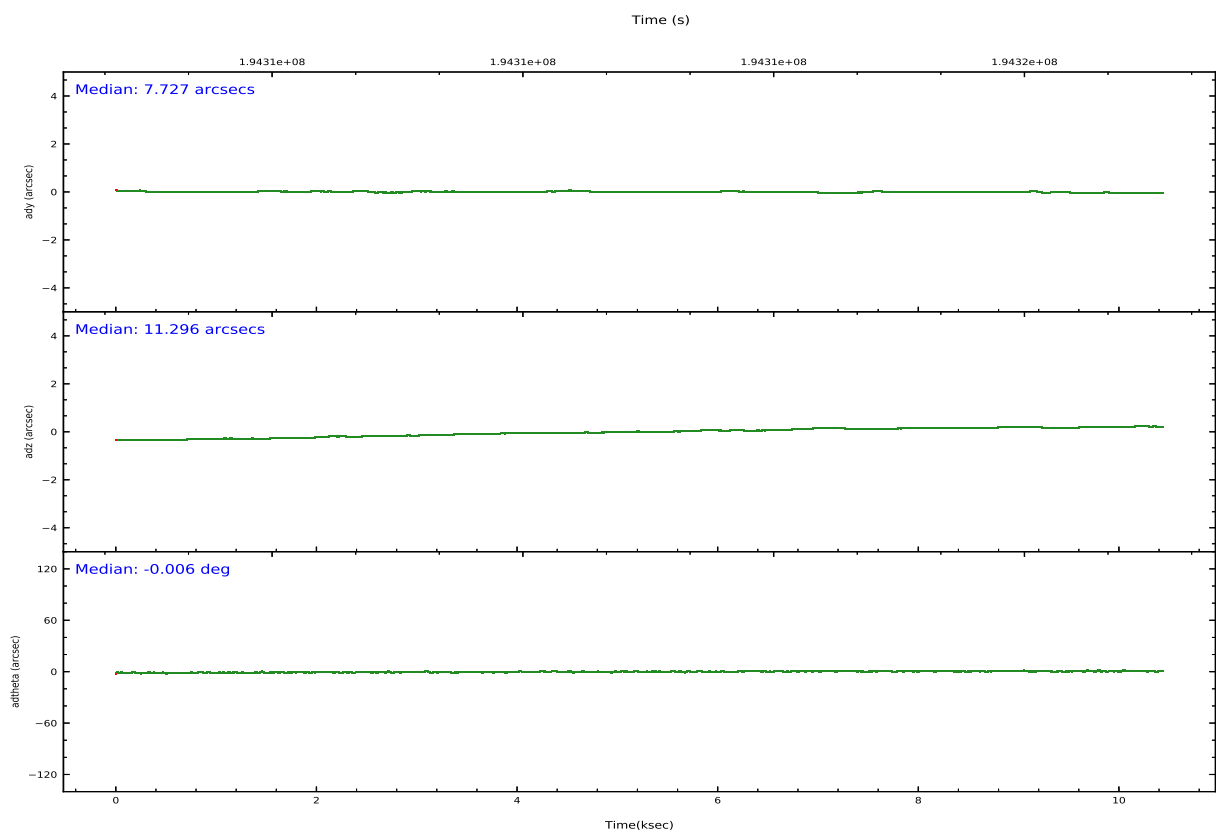
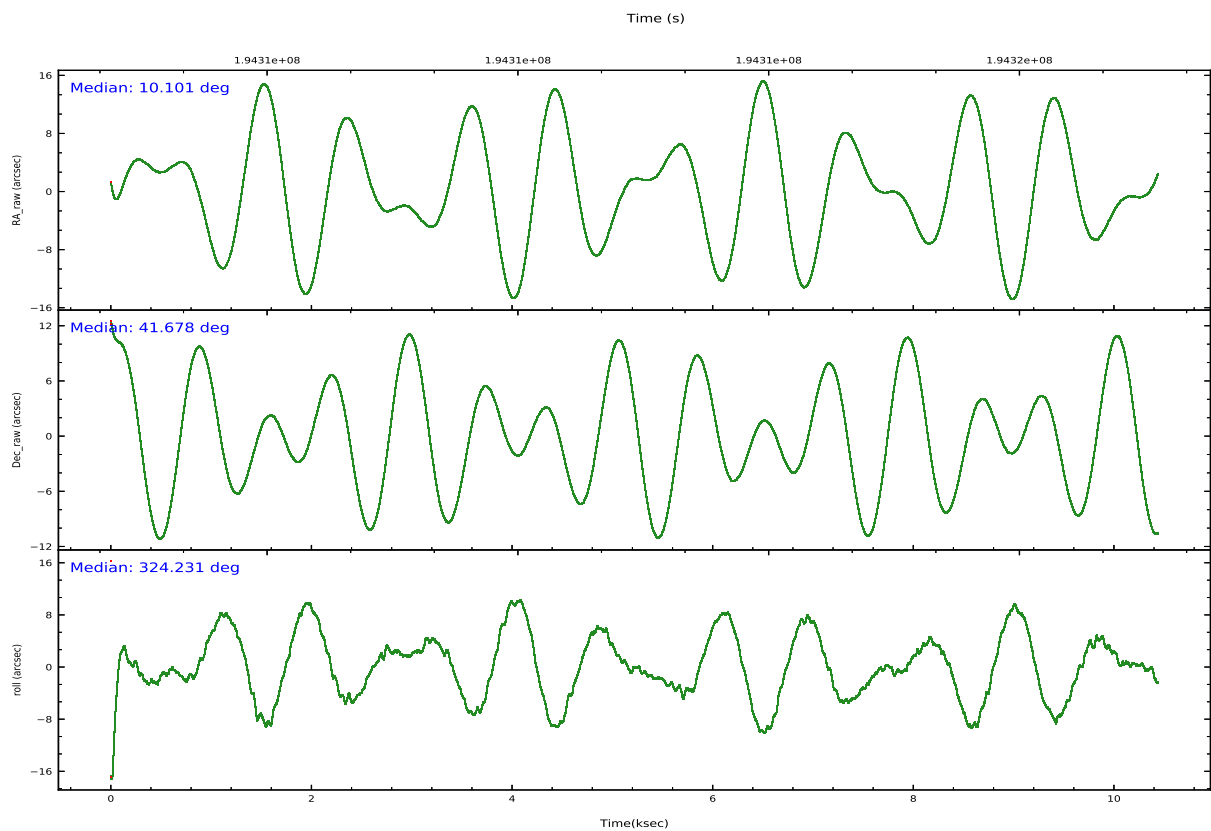
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2145	1858	2102	2525	5232
	3%	3%	3%	4%	7%
grade 1 events	26	27	33	42	50
	0%	0%	0%	0%	0%
grade 2 events	1266	1109	1240	5696	3399
	2%	2%	2%	9%	4%
grade 3 events	625	611	653	2719	1789
	1%	1%	1%	4%	2%
grade 4 events	638	616	664	2610	1688
	1%	1%	1%	4%	2%
grade 5 events	1900	2178	2271	6503	3119
	3%	3%	3%	10%	4%
grade 6 events	964	956	1248	14469	4013
	1%	1%	2%	23%	5%
grade 7 events	48547	47915	49050	26899	54369
	86%	86%	85%	43%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23678	ACIS-23678	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	10.064368	10.095707857293	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.680706	41.677041344288	Alternating exposures requested	N	N
[deg] Pointing Roll	324.097238	324.2313707302	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	194306132.184000	194305404.90389			
Observation start date	2004-02-27T21:54:28	2004-02-27T21:43:24			
[s] Observation end time (MET)	194316382.184000	194317662.36693			
Observation end date	2004-02-28T00:45:18	2004-02-28T01:07:42			
Read mode	TIMED	TIMED			

2.3 Aspect



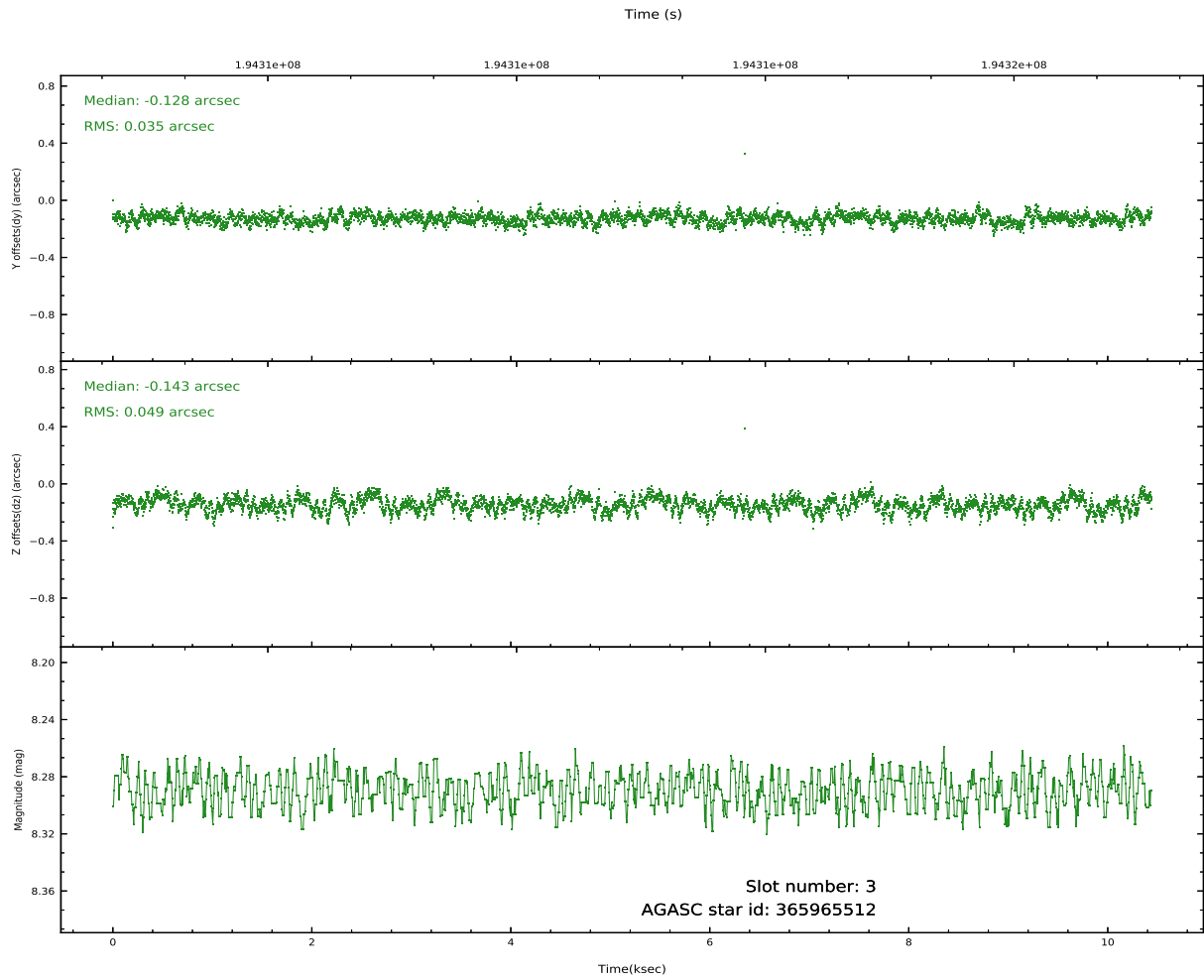
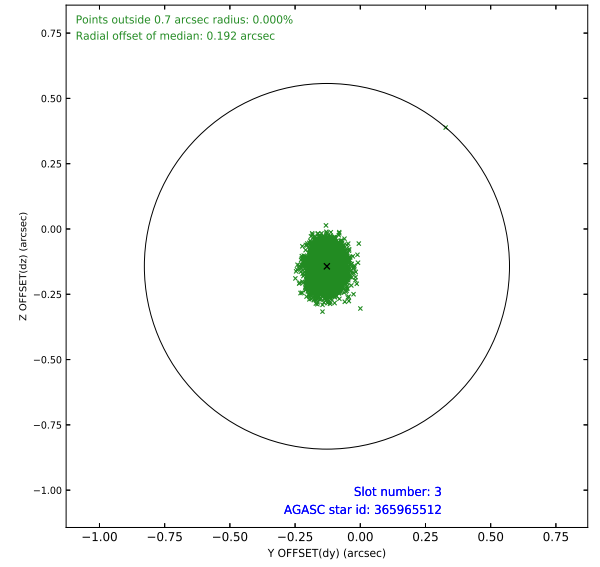
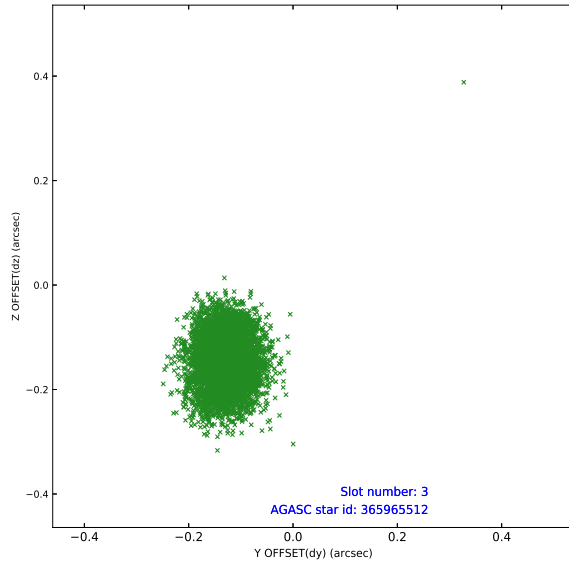


Slot Statistics

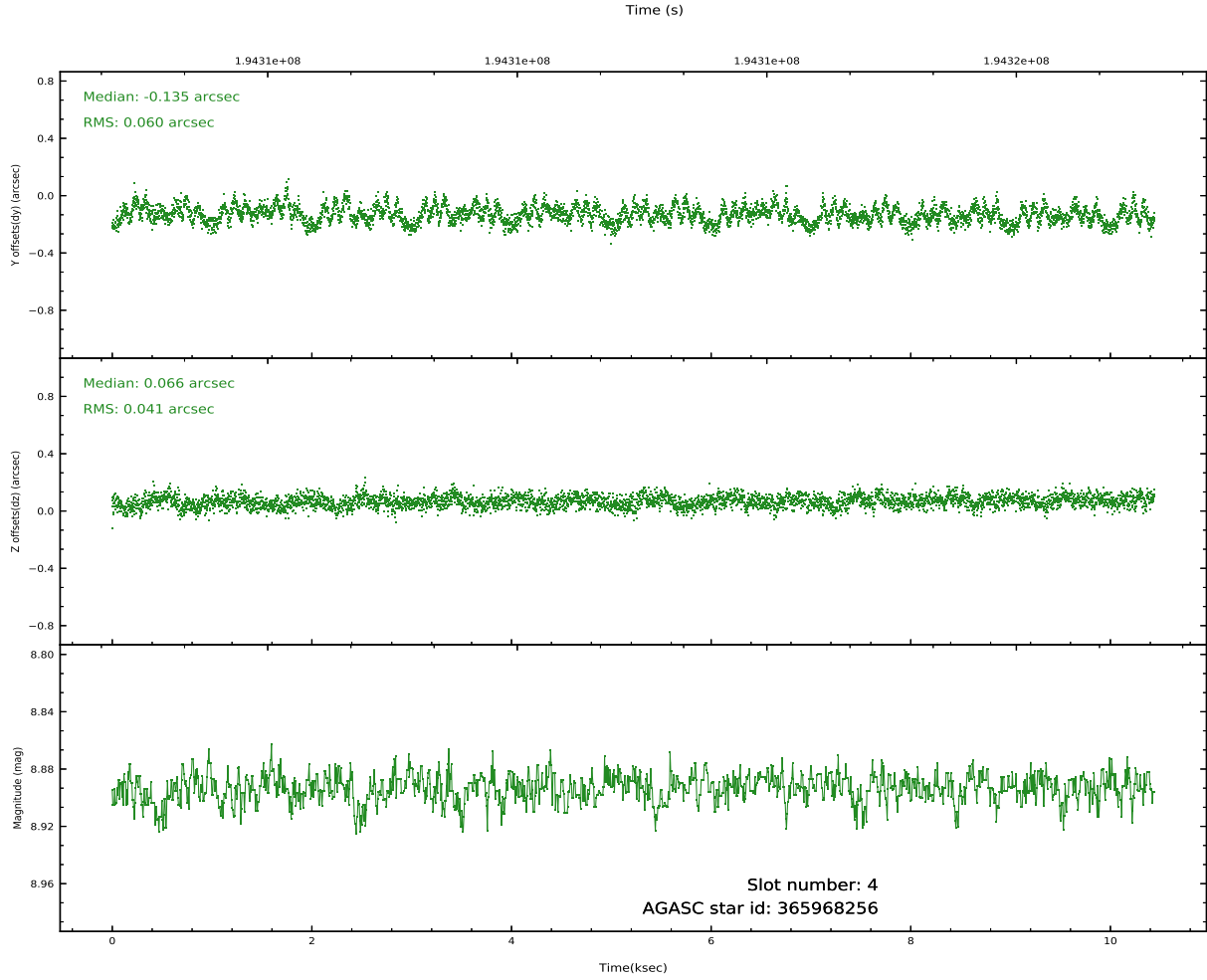
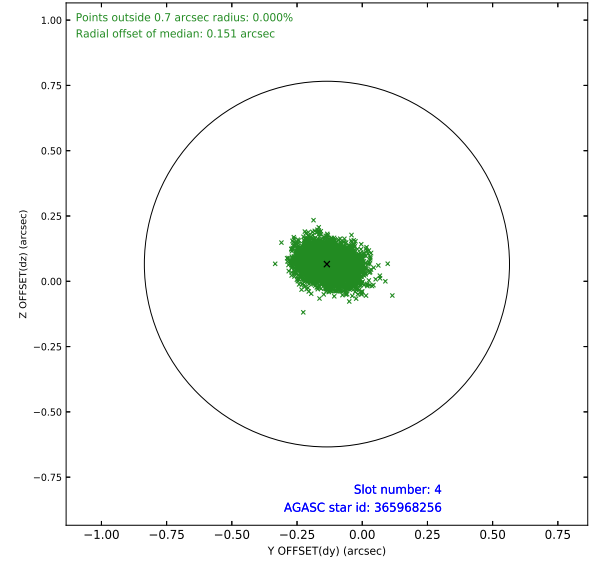
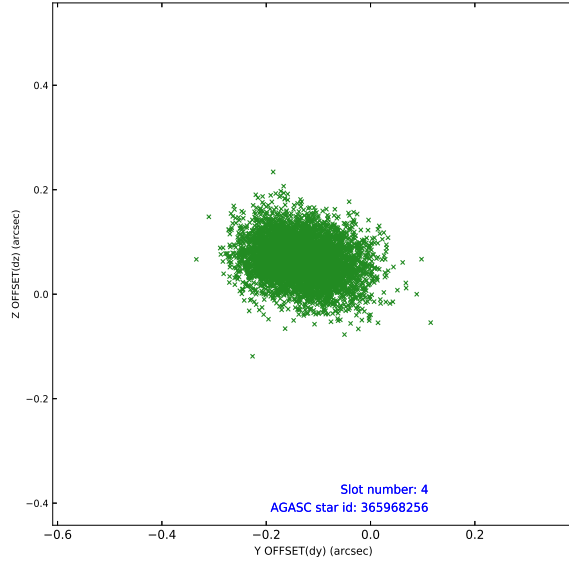
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	2523	1.000	0.018	-0.110	0.009	0.016	0.000000	0.000000	935.56	-1728
1	FID		ACIS-S-4	7.20	2519	1.000	0.094	0.072	0.007	0.011	0.000000	0.000000	2153.31	175
2	FID		ACIS-S-5	7.23	2523	1.000	-0.139	0.051	0.007	0.012	0.000000	0.000000	-1812.83	169
3	GUIDE	used	365965512	8.29	5060	1.000	-0.128	-0.143	0.064	0.103	9.391602	41.418521	-921.48	-1824
4	GUIDE	used	365968256	8.89	5060	1.000	-0.135	0.066	0.077	0.126	9.948038	42.383555	-1734.62	1867
5	GUIDE	used	367658664	9.59	5052	1.000	0.083	0.049	0.090	0.145	10.374070	41.369746	1333.30	-414
6	GUIDE	used	367663272	9.28	5056	1.000	0.102	0.012	0.078	0.126	10.656279	41.699429	1246.38	991
7	GUIDE	used	367674552	8.86	5054	1.000	0.075	0.019	0.066	0.107	11.016238	41.570845	2300.76	1194

2.4 Star Slots

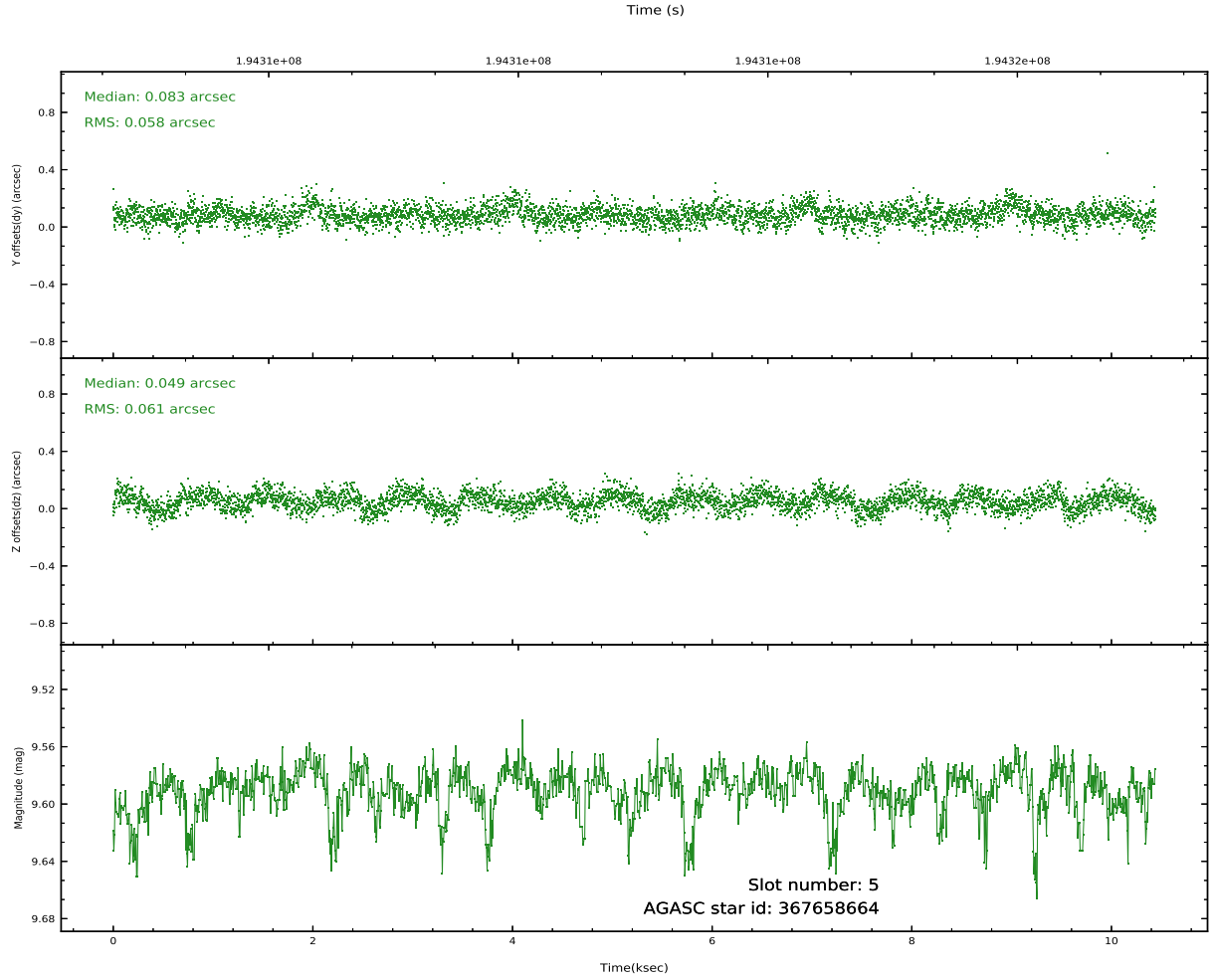
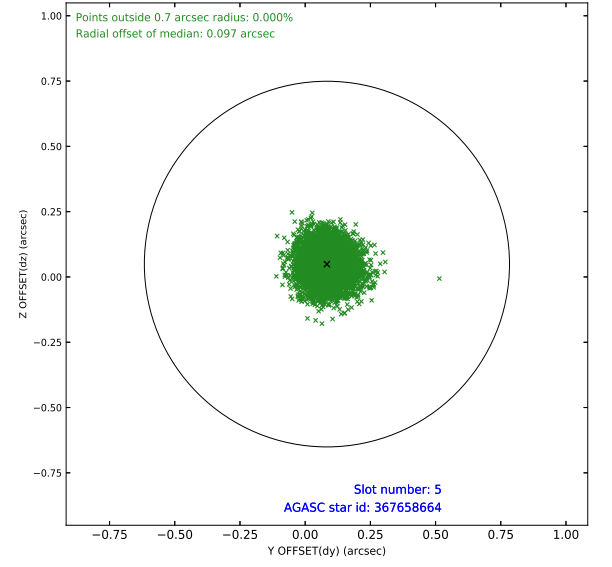
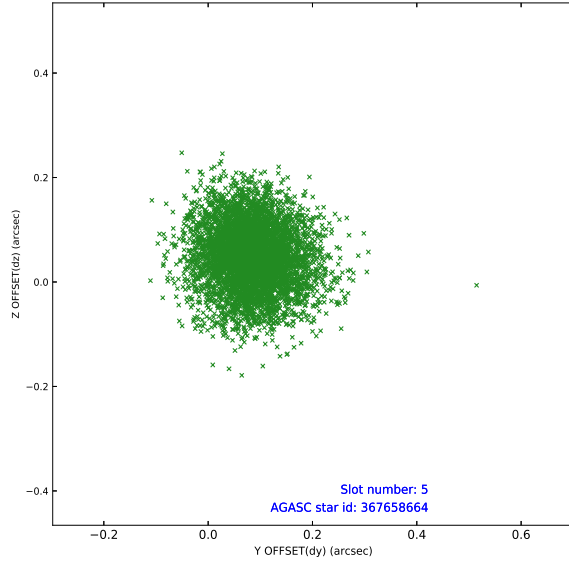
2.4.1 Slot 3



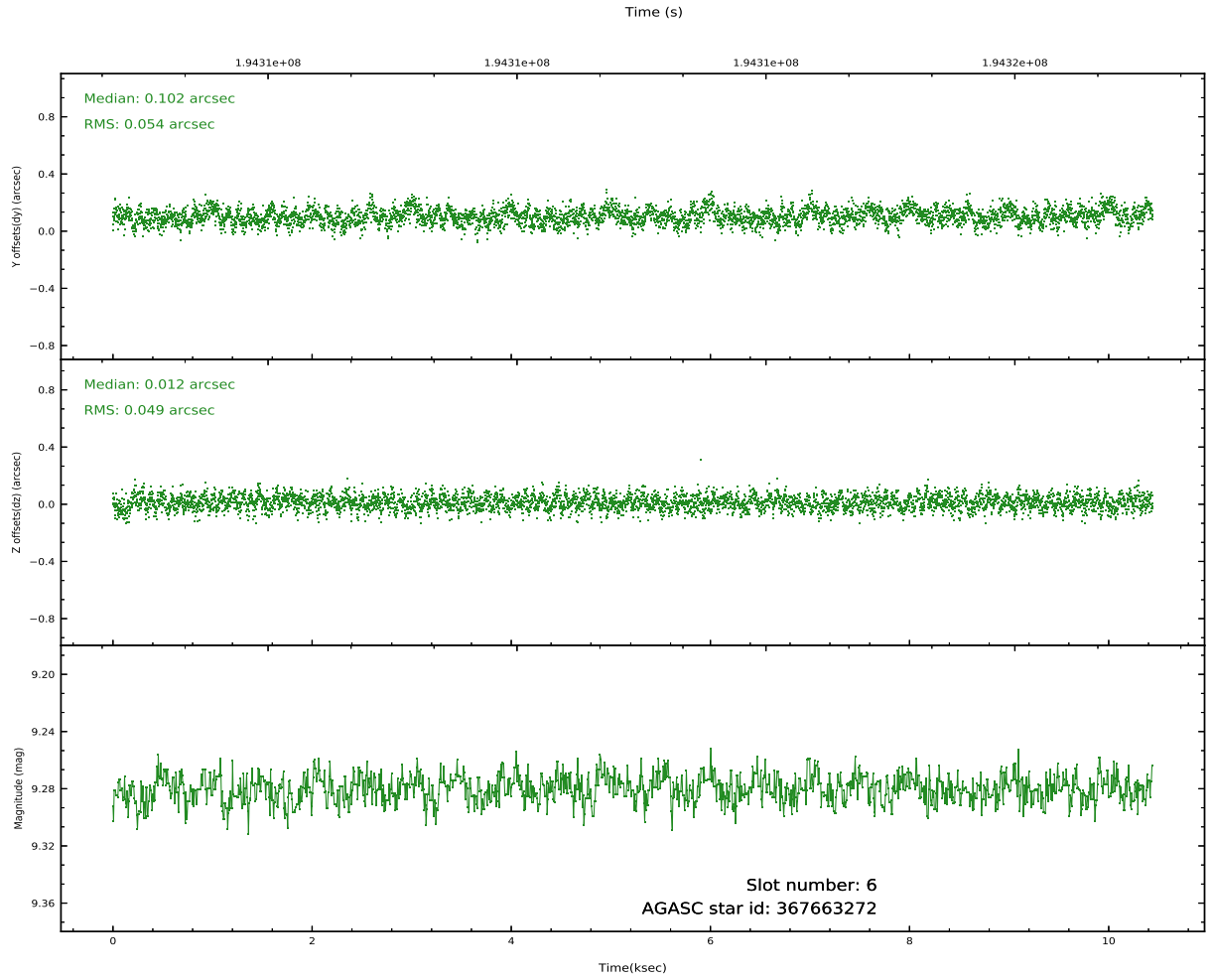
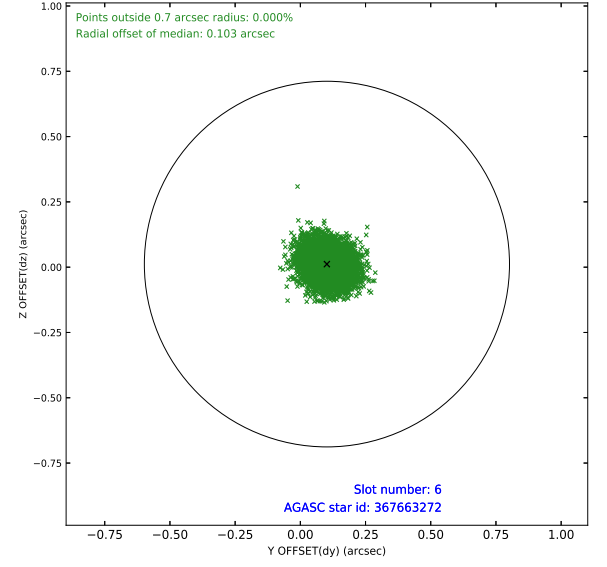
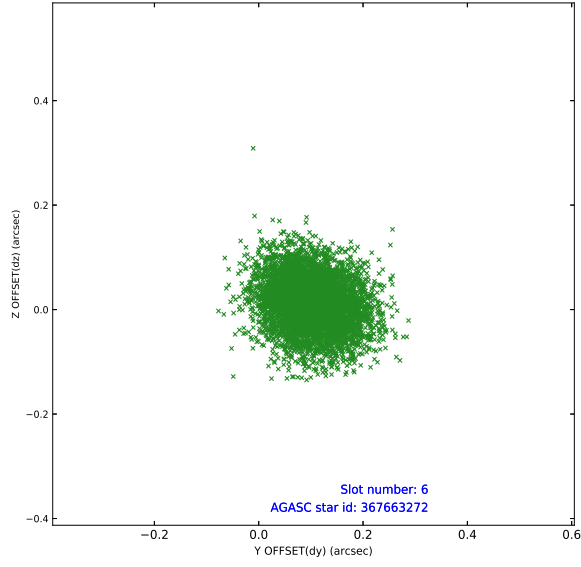
2.4.2 Slot 4



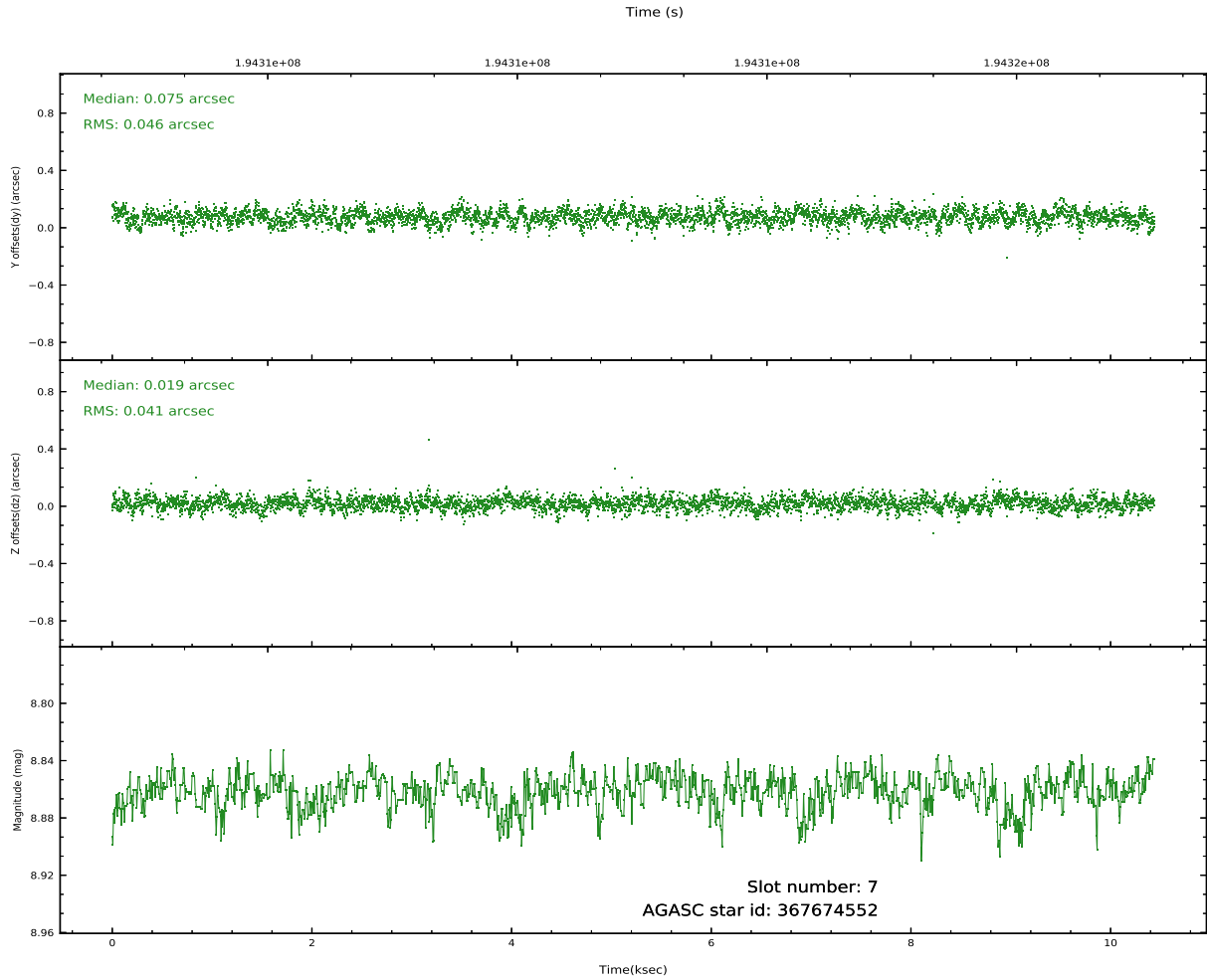
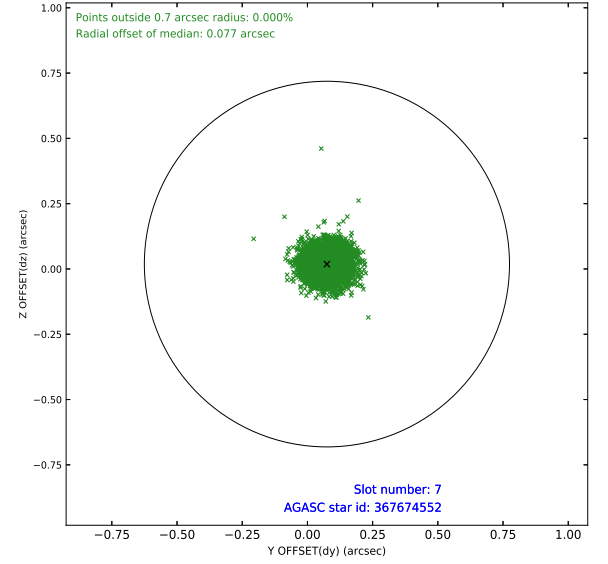
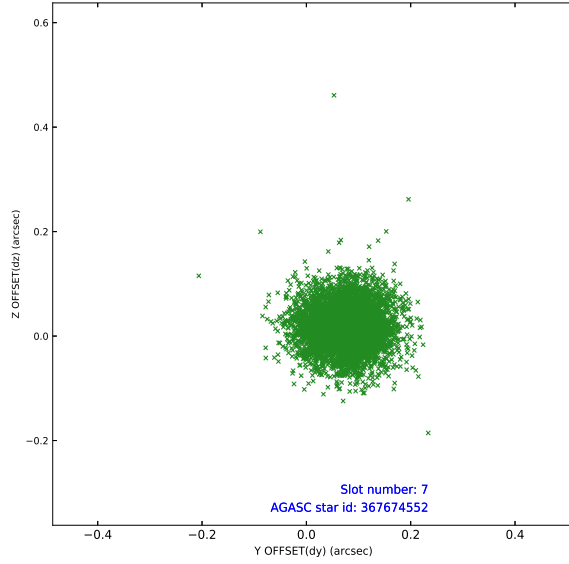
2.4.3 Slot 5



2.4.4 Slot 6

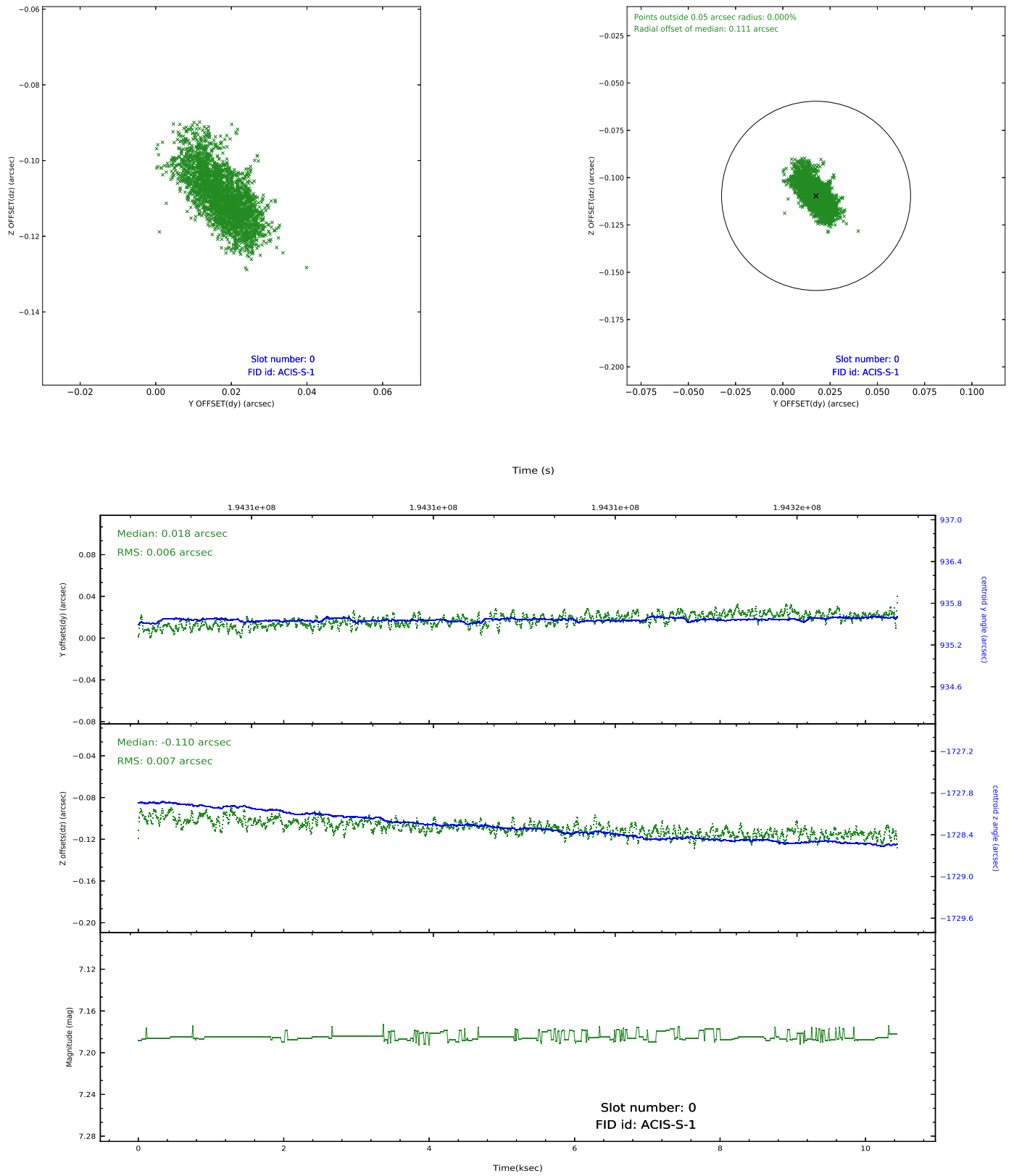


2.4.5 Slot 7

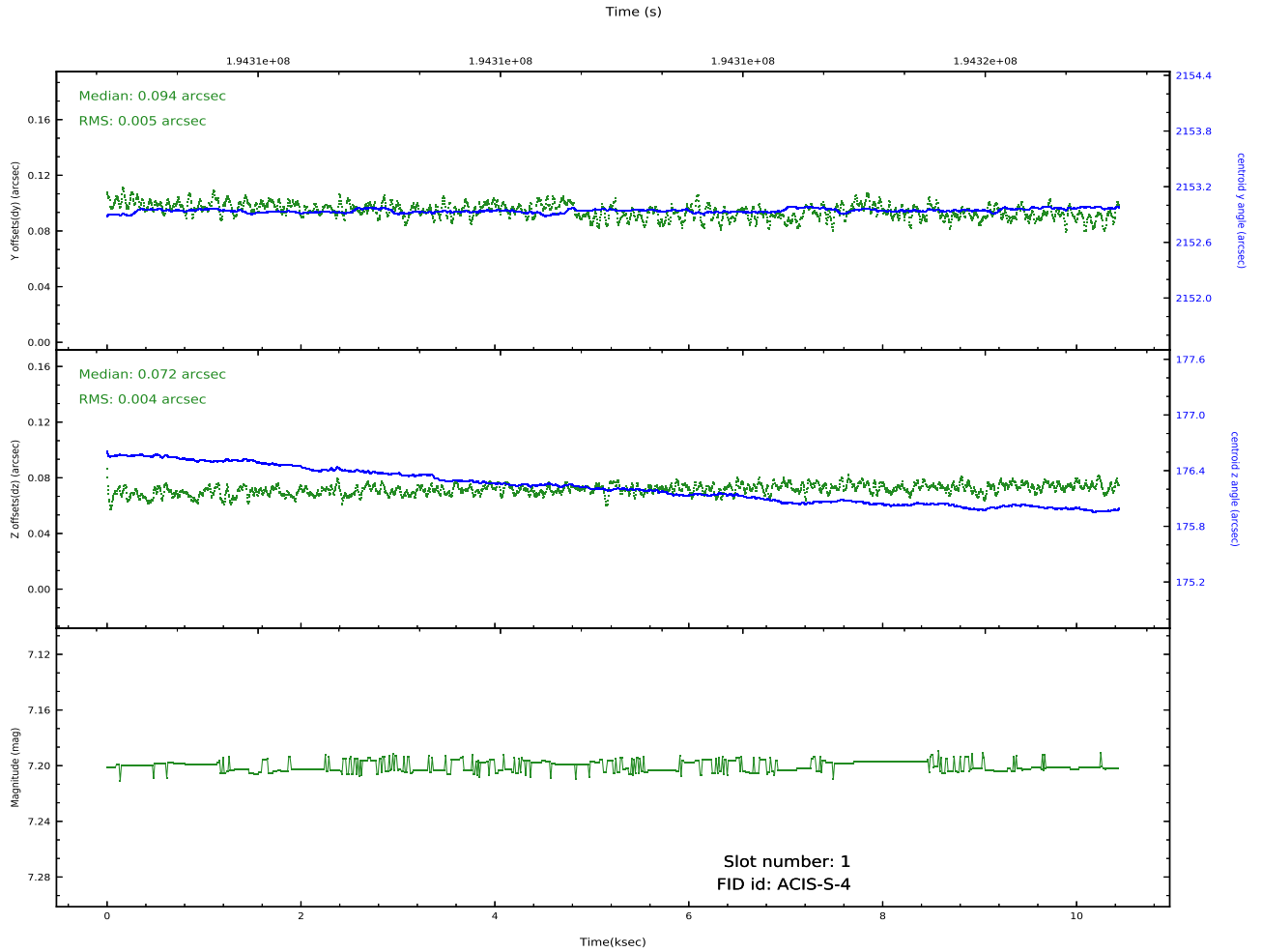
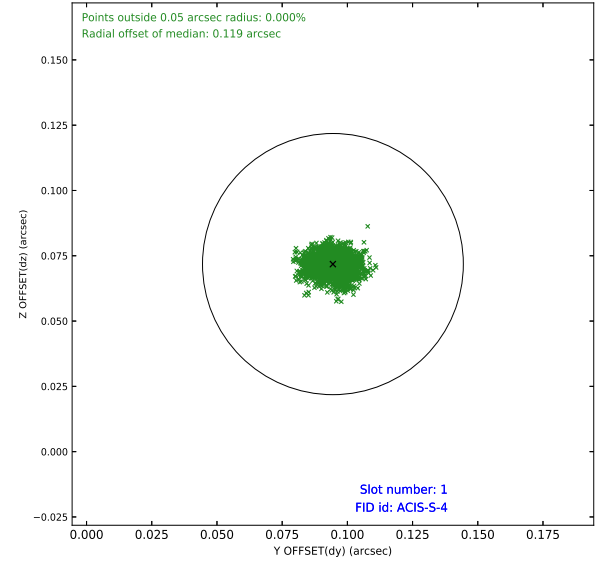
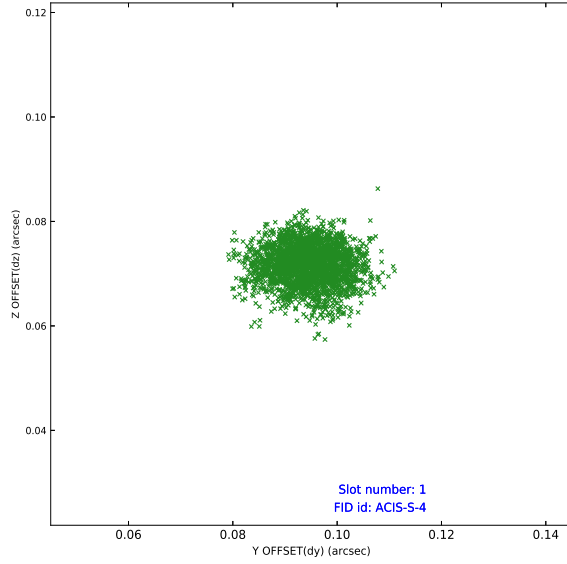


2.5 FID Slots

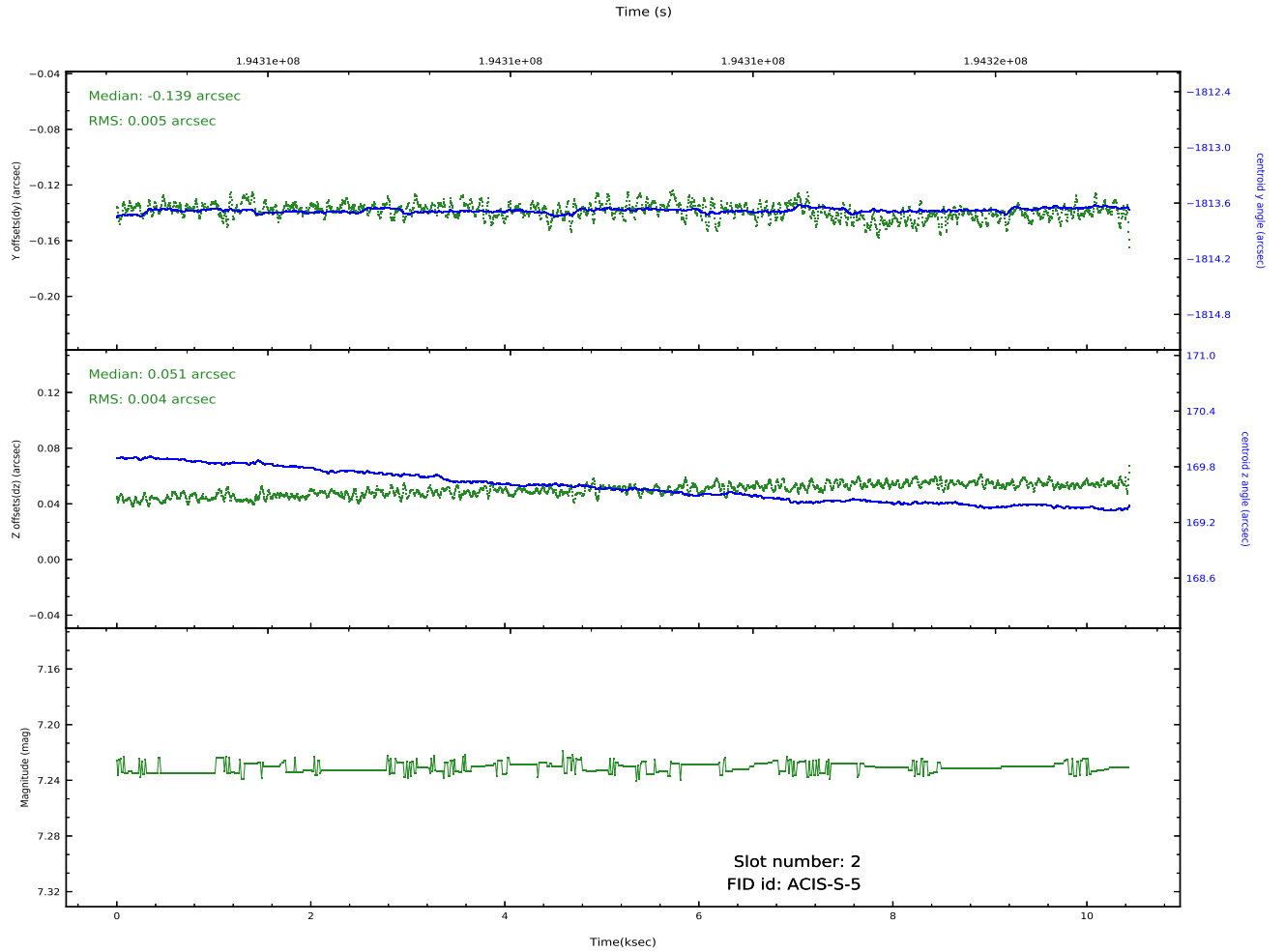
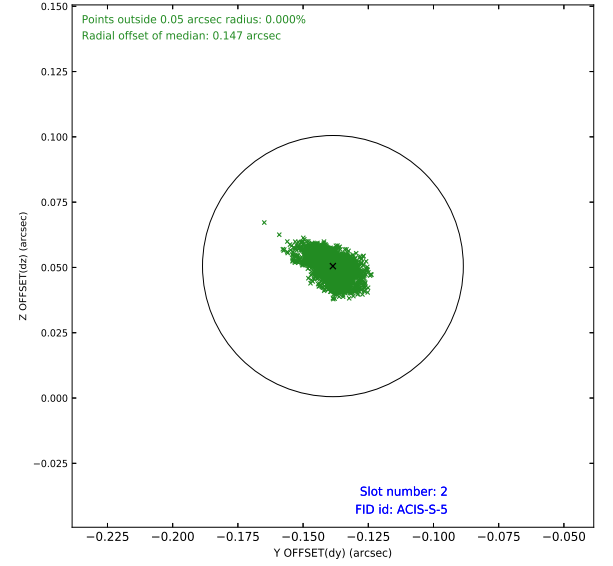
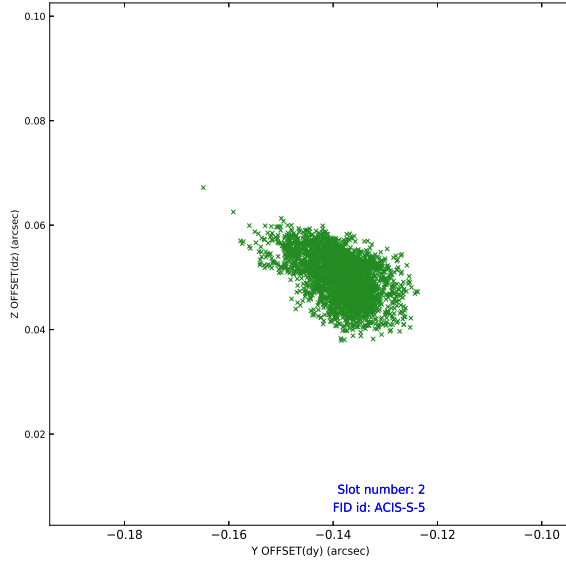
2.5.1 Slot 0



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)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10

A.2 Comments