

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5809 - L2 Version 4
Chandra X-Ray Center

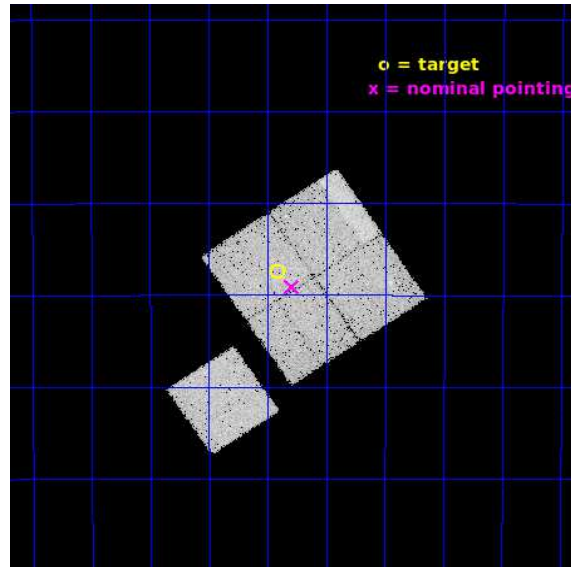
L2 Processing Date : Oct 7 2020

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1 Front

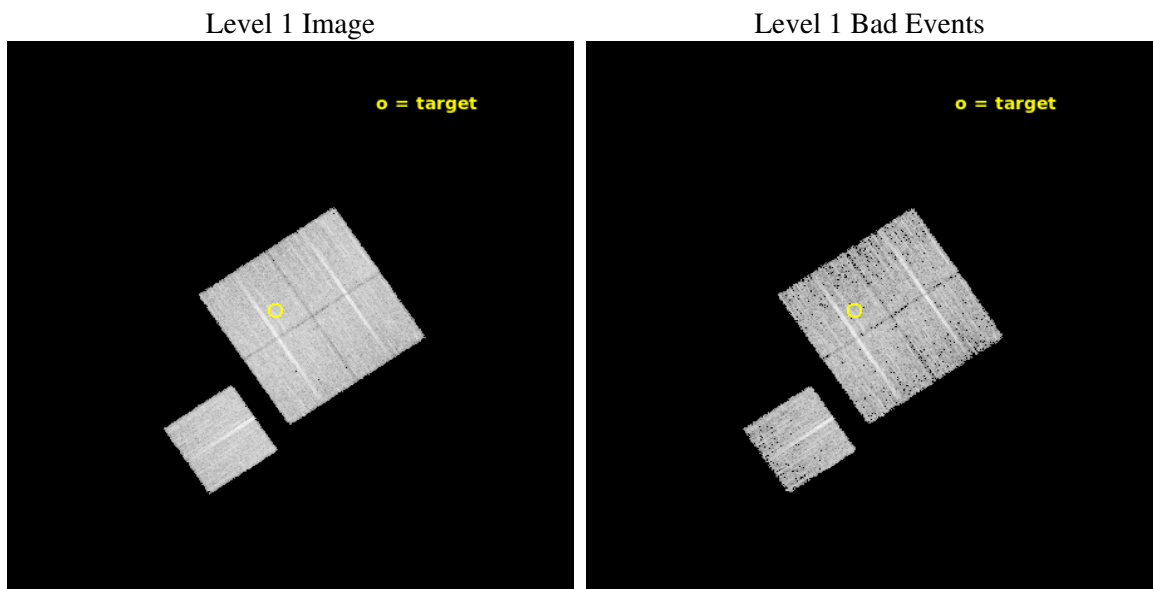
seq_num	800522	Sequence number
obs_id	5809	Observation id
title	The Galaxy Cluster Mass-T _x Relation at High Redshift	Proposal tit
observer	Spencer Stanford	Principal investigator
object	RDCS J0337-3457	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	54.352917	Observer's specified target RA [deg]
dec_targ	-34.958056	Observer's specified target Dec [deg]
ra_nom	54.323325503618	Nominal RA [deg]
dec_nom	-34.984996442075	Nominal Dec [deg]
roll_nom	236.02674872362	Nominal Roll [deg]
revision	4	Processing version of data
ontime	6881.999986738	Sum of GTIs [s]
livetime	6792.0815904566	Livetime [s]
ontime0	6878.8590264916	Sum of GTIs [s]
ontime1	6881.999986738	Sum of GTIs [s]
ontime2	6878.8589965403	Sum of GTIs [s]
ontime3	6881.999986738	Sum of GTIs [s]
ontime6	6875.7180263102	Sum of GTIs [s]
l2events	83332	Number of level 2 events



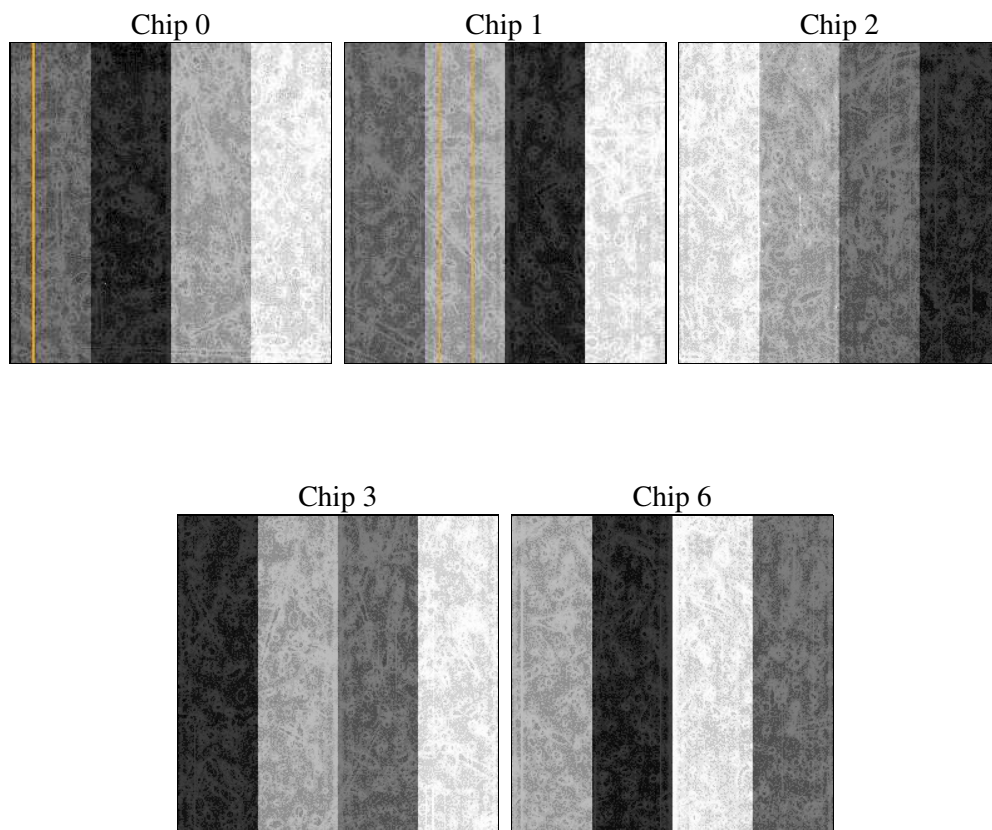
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6705.396000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	6881.999986738	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	6878.8590264916	Sum of GTIs [s]
date	2020-10-07T16:20:12	Date and time of file creation	ontime1	6881.999986738	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	6878.8589965403	Sum of GTIs [s]
			ontime3	6881.999986738	Sum of GTIs [s]
			ontime6	6875.7180263102	Sum of GTIs [s]
			l1events	297107	Number of level 1 events

2.1.4 Events

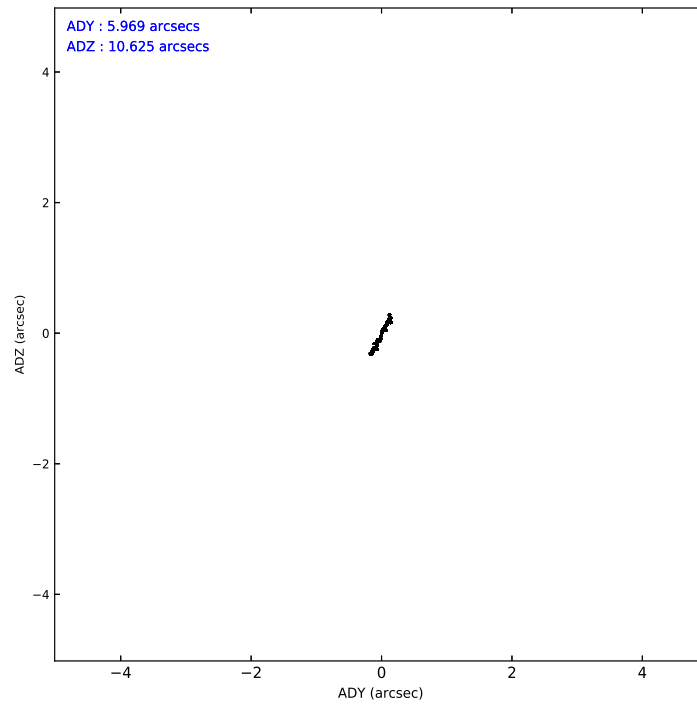
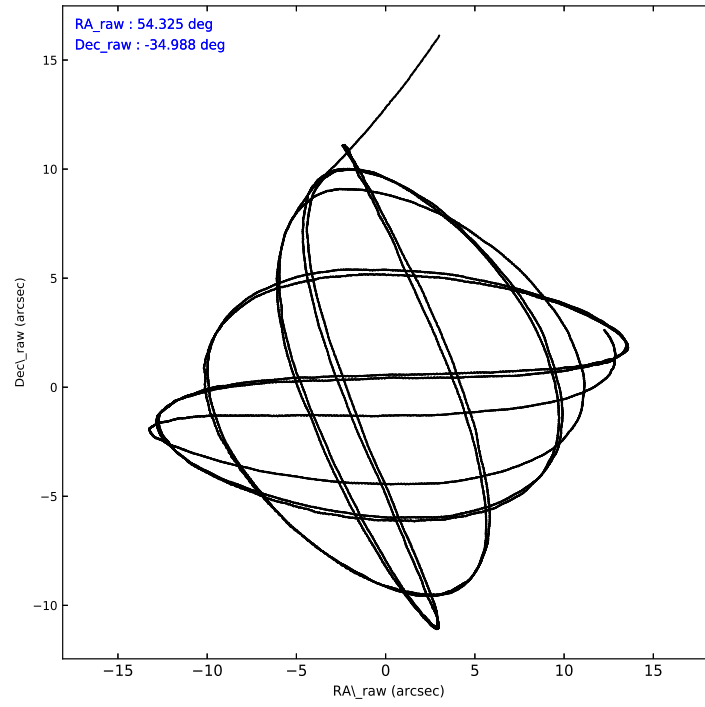
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	54633	60283	60391	58344	63456
rejected events	37654	39895	43851	41216	43327
rejected %	68%	66%	72%	70%	68%

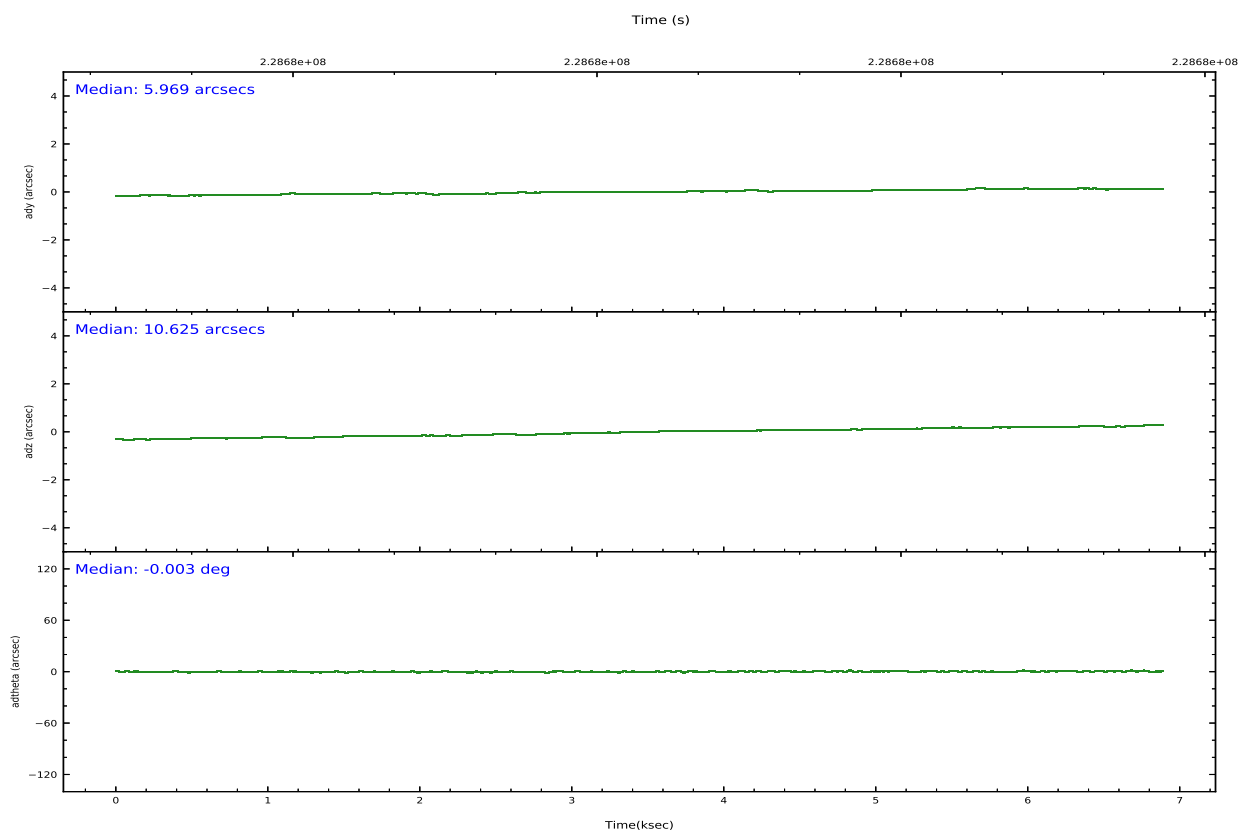
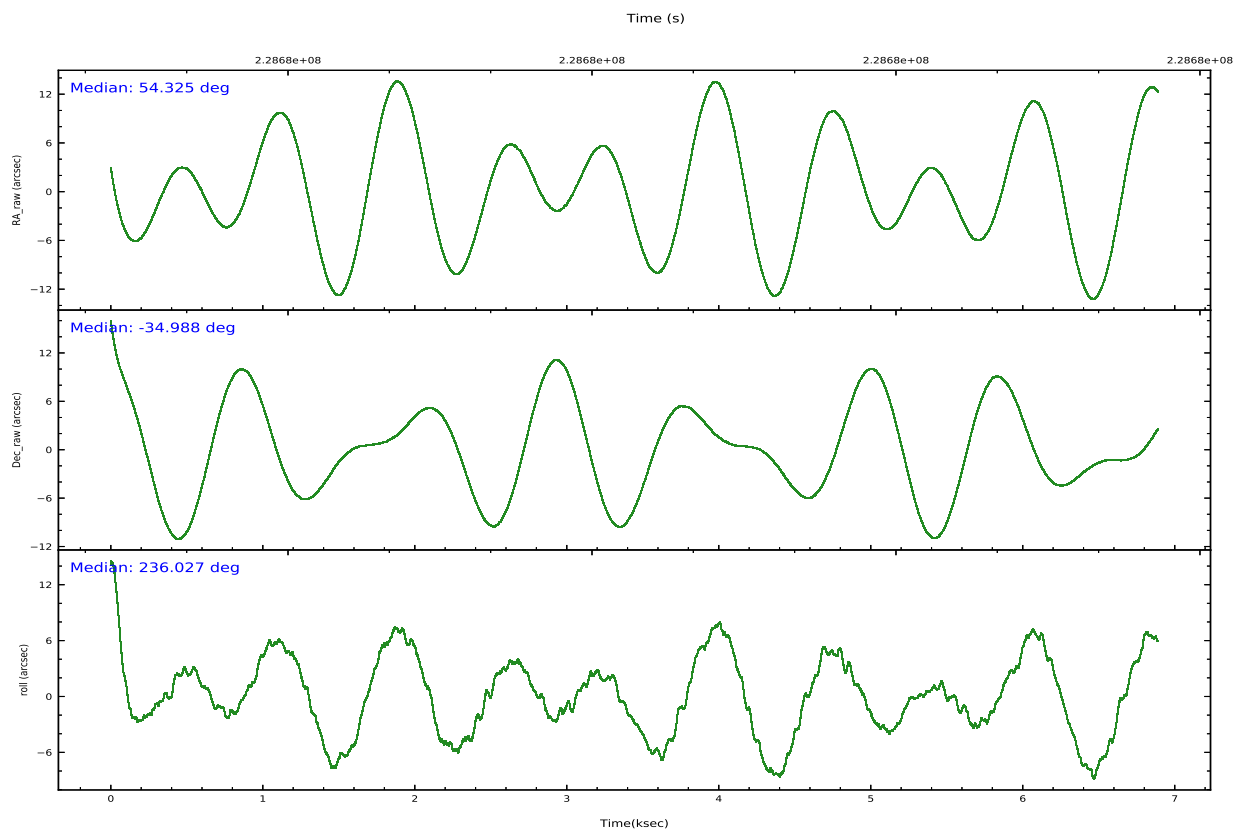
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	10079	12595	10079	10583	12593
	18%	20%	16%	18%	19%
grade 1 events	72	82	70	75	70
	0%	0%	0%	0%	0%
grade 2 events	2737	3290	2580	2479	2879
	5%	5%	4%	4%	4%
grade 3 events	1106	1204	1085	1111	1188
	2%	1%	1%	1%	1%
grade 4 events	1073	1207	1058	1124	1184
	1%	2%	1%	1%	1%
grade 5 events	1532	1771	1618	1773	1875
	2%	2%	2%	3%	2%
grade 6 events	2260	2414	2042	2158	2621
	4%	4%	3%	3%	4%
grade 7 events	35774	37720	41859	39041	41046
	65%	62%	69%	66%	64%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	54.327511	54.323325503618	Subarray requested	NONE	NONE
[deg] Pointing Dec	-34.960835	-34.984996442075	Alternating exposures requested	N	N
[deg] Pointing Roll	235.825523	236.02674872362	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-227.592463	-227.5933067819097			
[mm] SIM translation stage offset	-6	-5.999146221020027			
[s] Observation start time (MET)	228677019.184000	228675798.17514			
Observation start date	2005-03-31T17:22:35	2005-03-31T17:03:18			
[s] Observation end time (MET)	228683724.184000	228683960.25051			
Observation end date	2005-03-31T19:14:20	2005-03-31T19:19:20			
Read mode	TIMED	TIMED			

2.3 Aspect



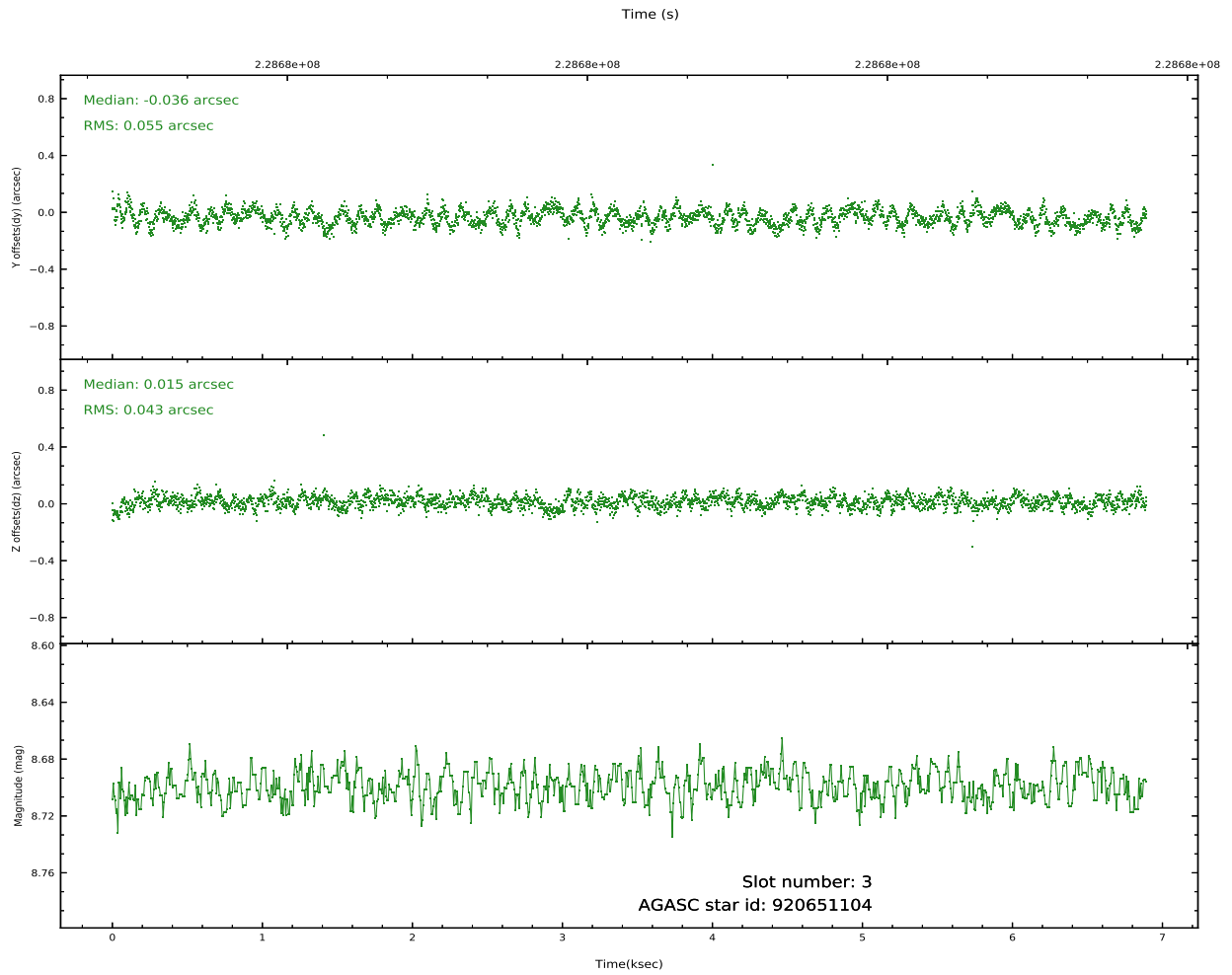
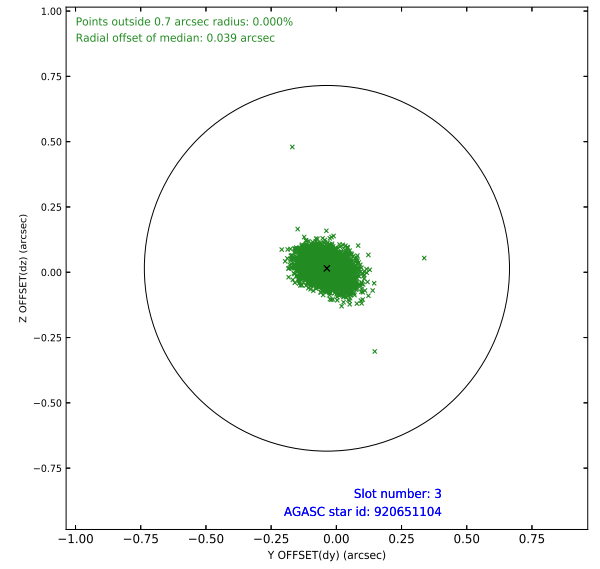
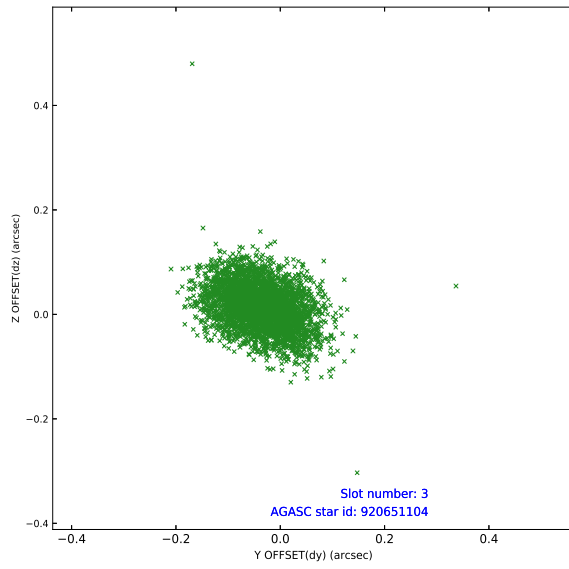


Slot Statistics

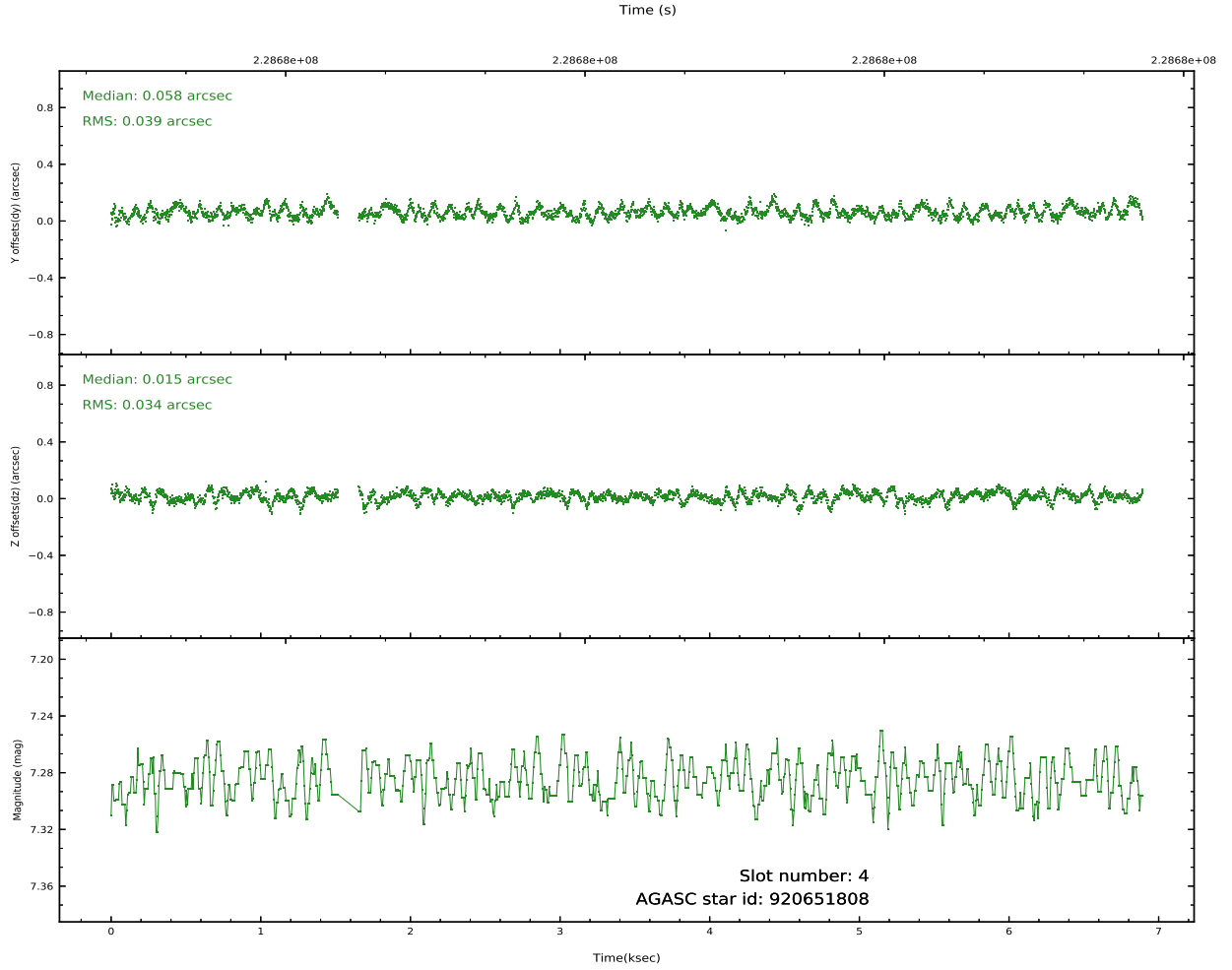
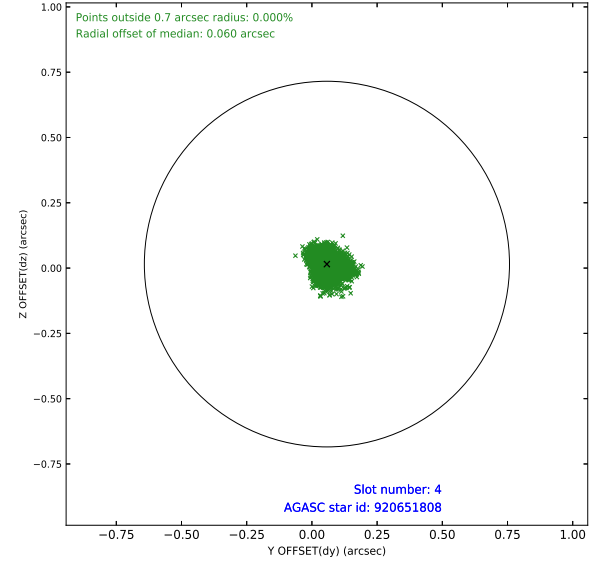
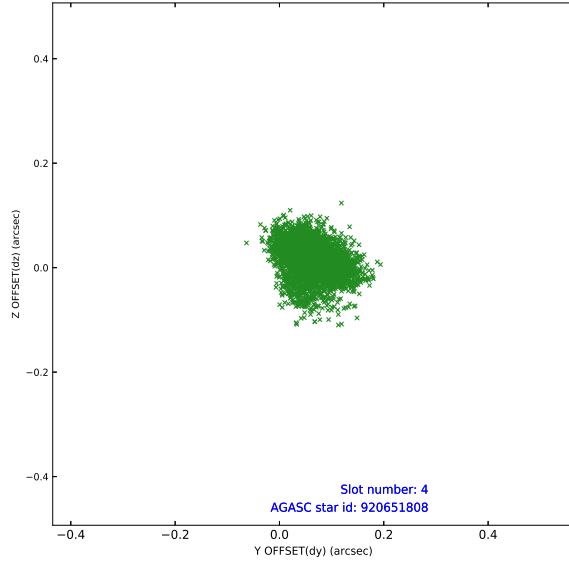
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.22	1680	1.000	0.088	-0.078	0.008	0.014	0.000000	0.000000	933.73	-957
1	FID		ACIS-I-5	7.22	1680	1.000	-0.271	0.066	0.007	0.011	0.000000	0.000000	-1814.29	939
2	FID		ACIS-I-6	7.25	1680	1.000	0.092	0.084	0.009	0.014	0.000000	0.000000	398.34	1585
3	GUIDE	used	920651104	8.70	3361	1.000	-0.036	0.015	0.074	0.119	53.495721	-34.796351	900.31	-2360
4	GUIDE	used	920651808	7.29	3295	1.000	0.058	0.015	0.056	0.089	53.624364	-34.832415	791.75	-1974
5	GUIDE	used	921573752	8.42	3362	1.000	-0.072	0.016	0.081	0.129	55.297577	-34.906150	-1760.23	2266
6	GUIDE	used	921575528	7.95	3361	1.000	0.005	0.008	0.055	0.090	55.012292	-34.549755	-2359.23	853
7	GUIDE	used	921966544	7.92	3361	1.000	0.034	-0.052	0.060	0.094	54.743508	-35.636012	1328.72	2374

2.4 Star Slots

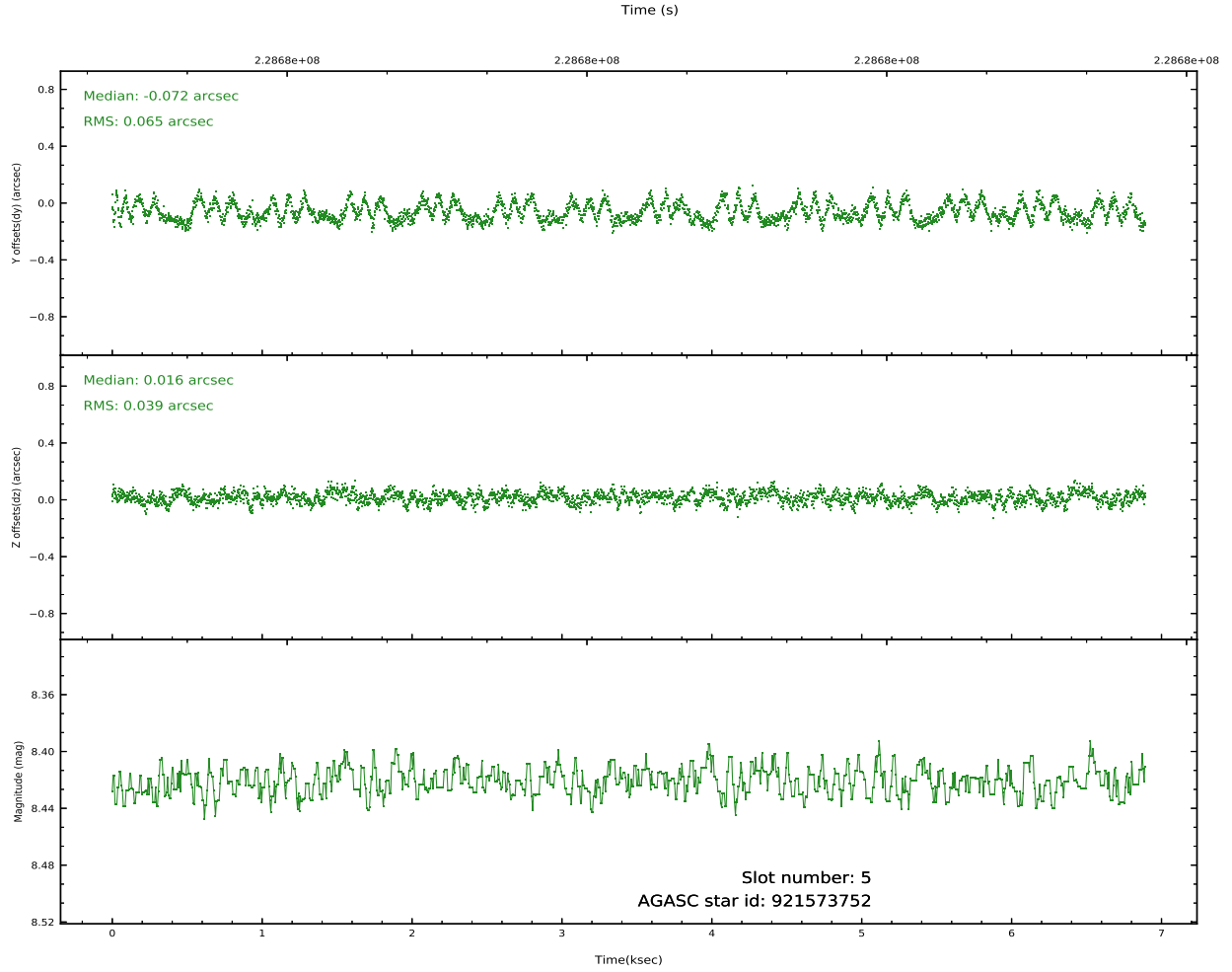
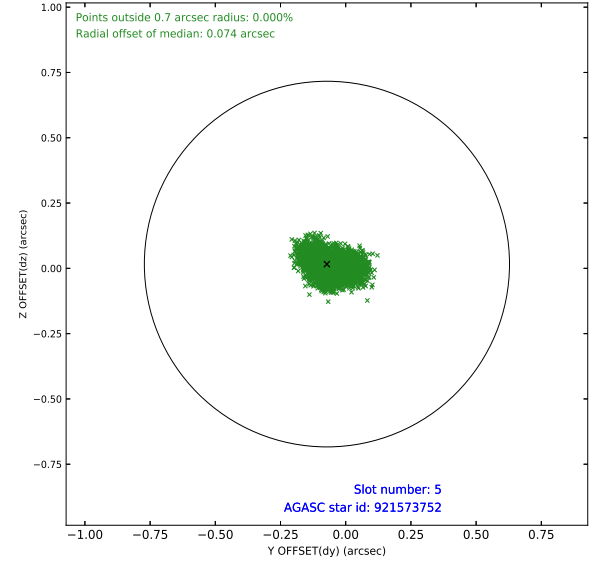
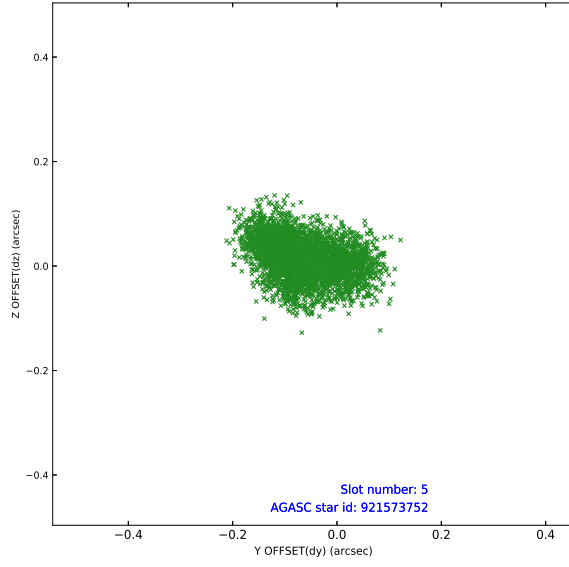
2.4.1 Slot 3



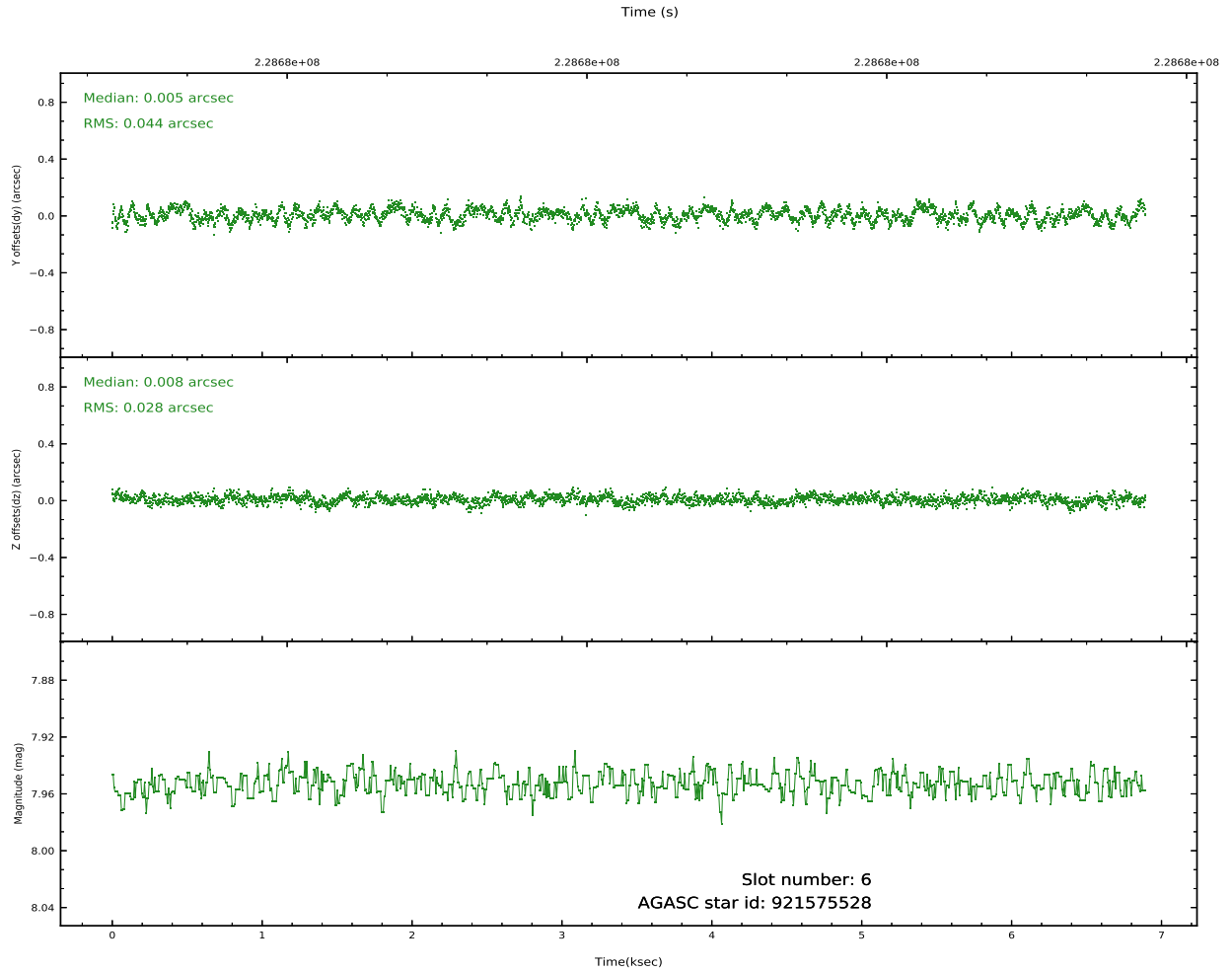
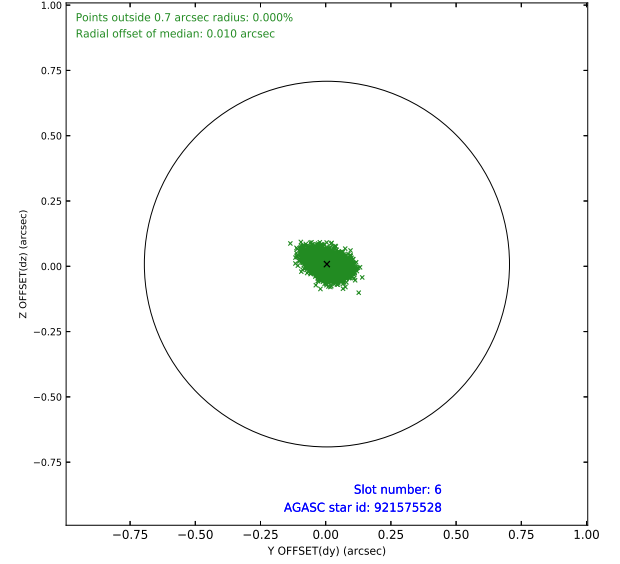
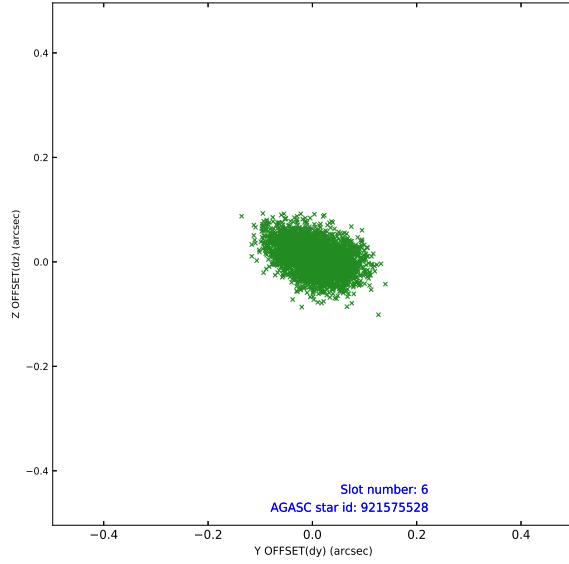
2.4.2 Slot 4



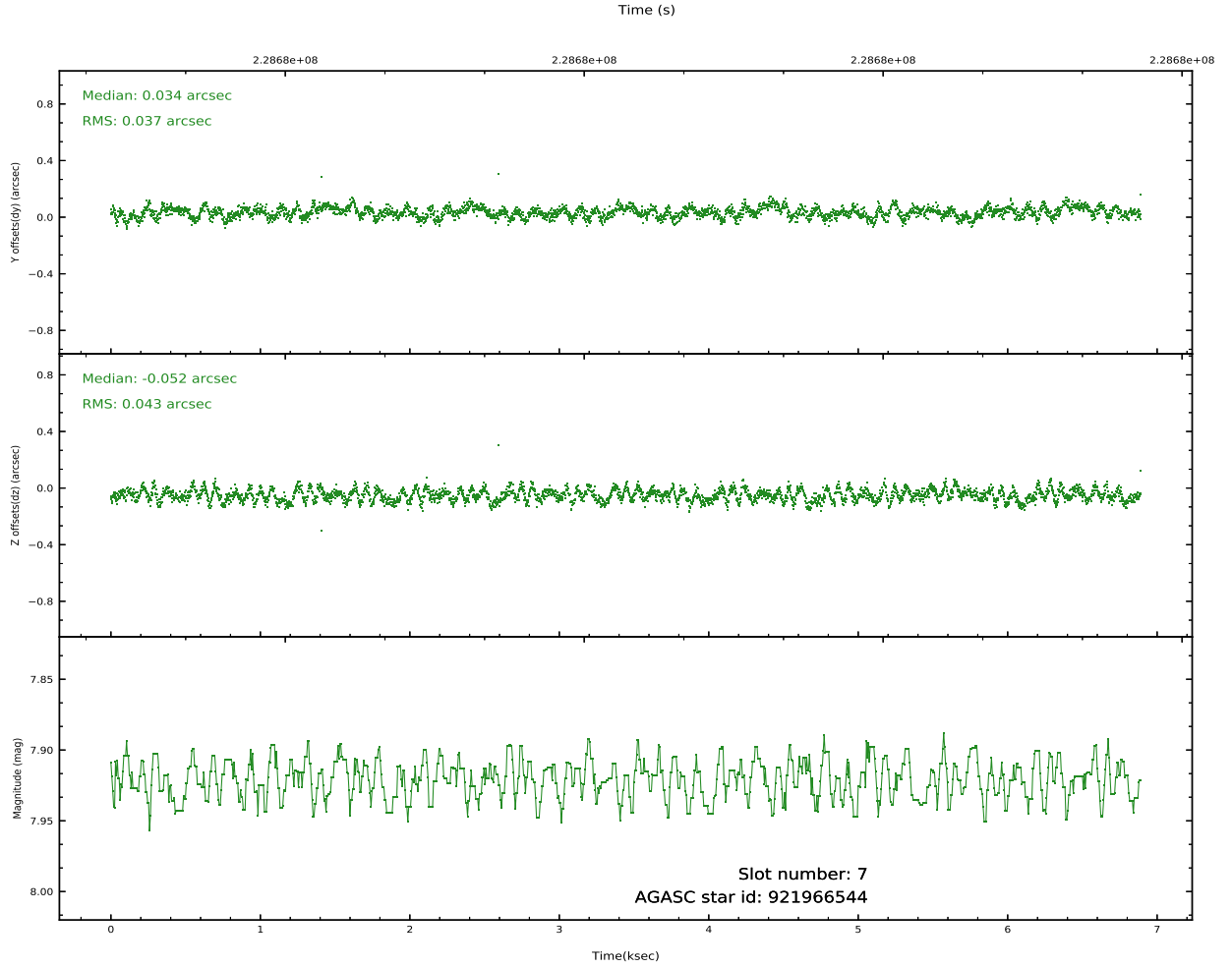
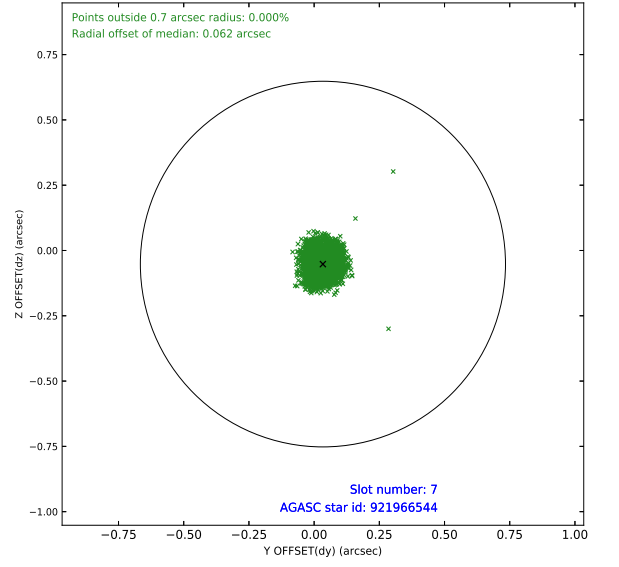
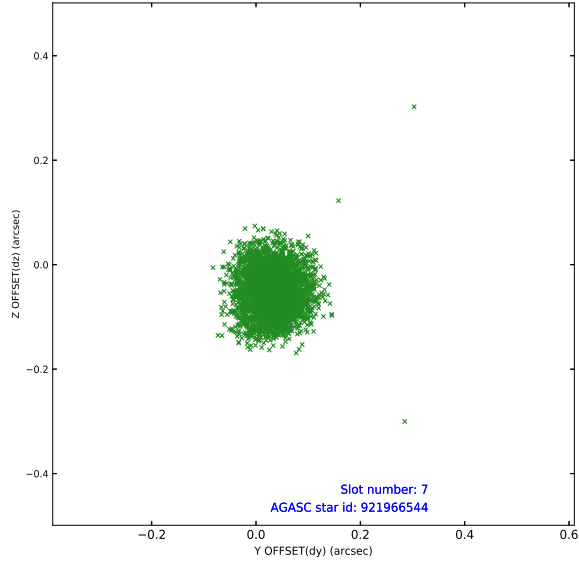
2.4.3 Slot 5



2.4.4 Slot 6

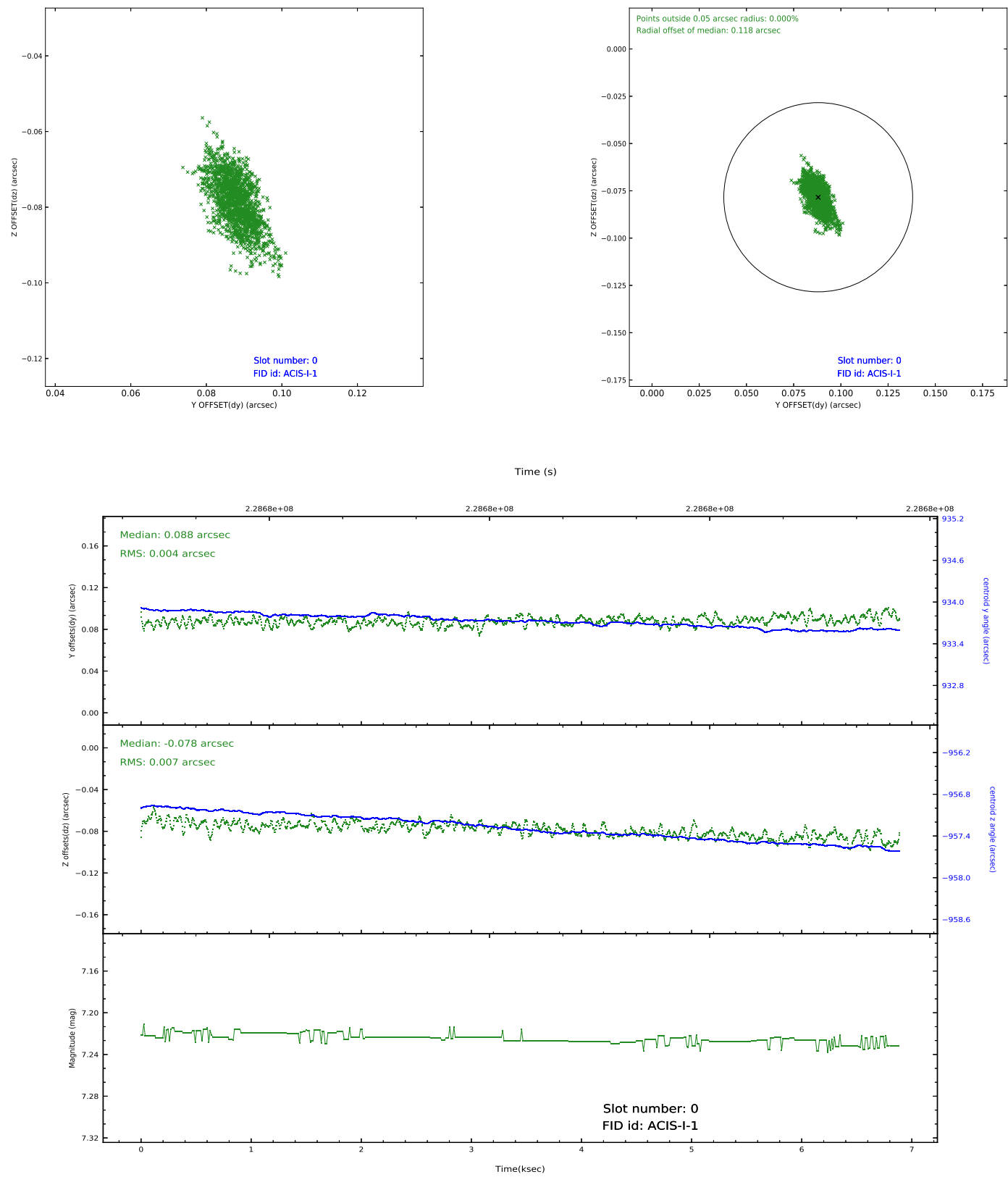


2.4.5 Slot 7

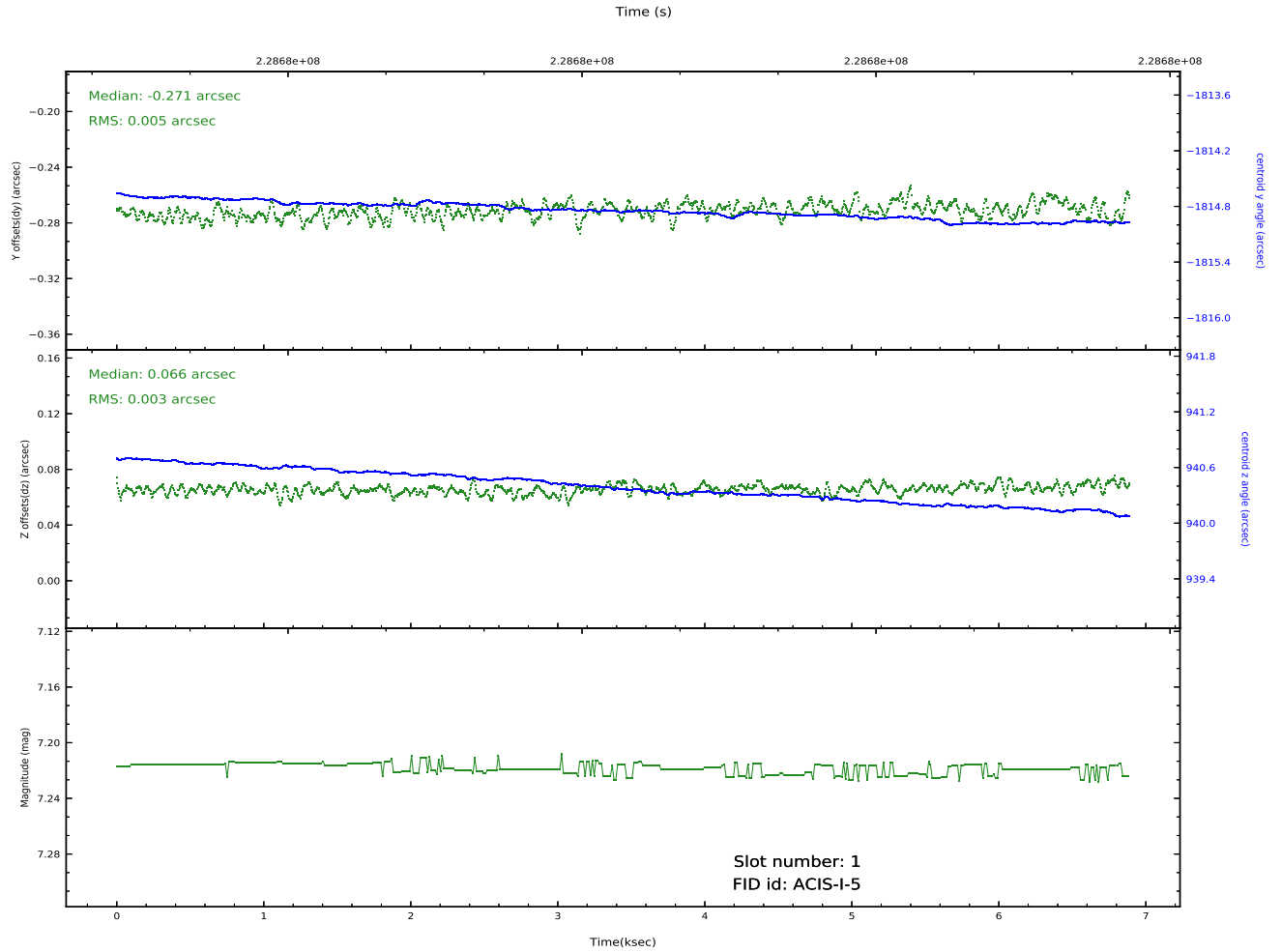
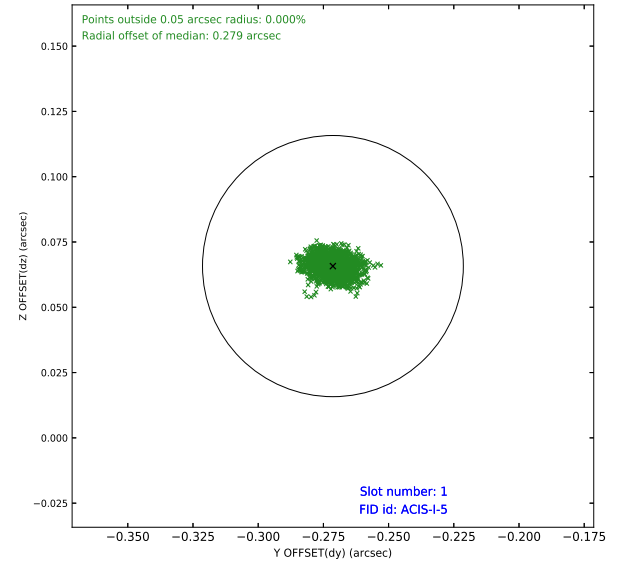
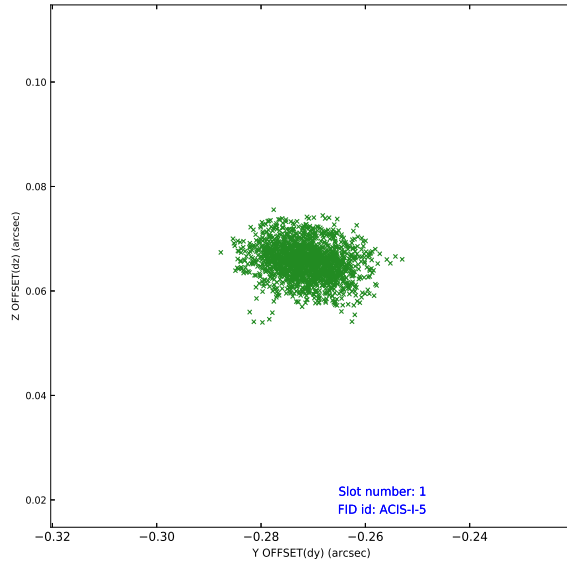


2.5 FID Slots

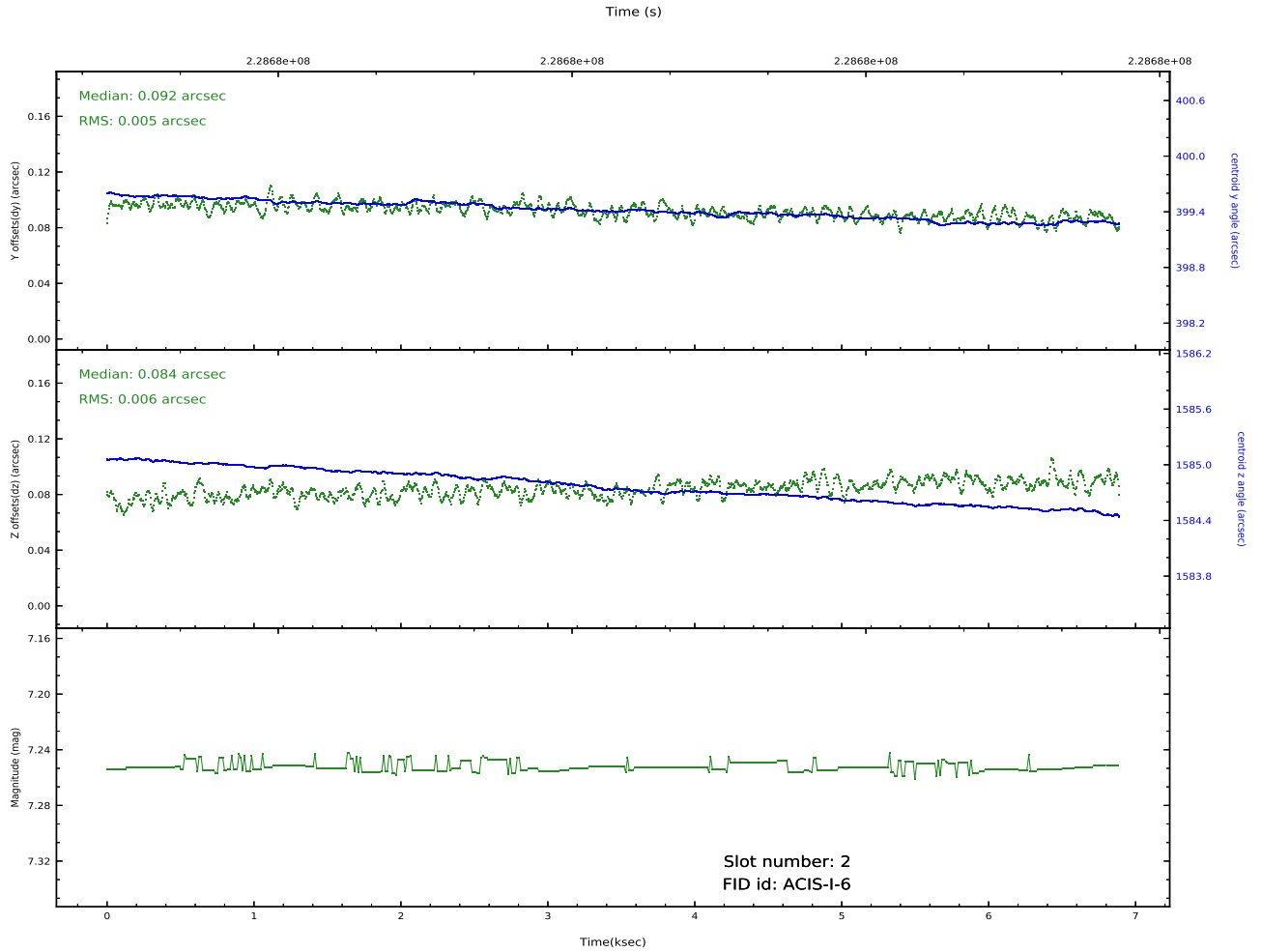
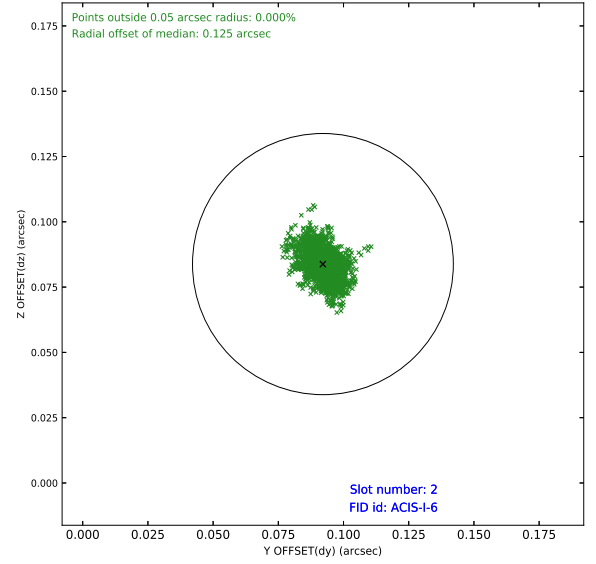
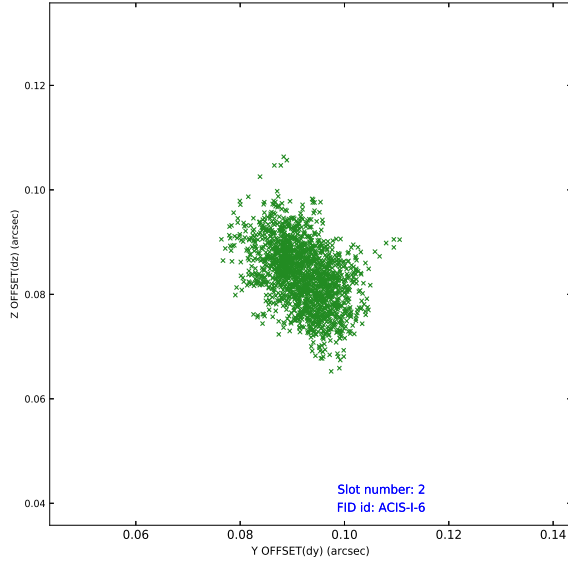
2.5.1 Slot 0



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)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.881999

A.2 Comments

Joint proposal with XMM.