

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20090 - L2 Version 2
Chandra X-Ray Center

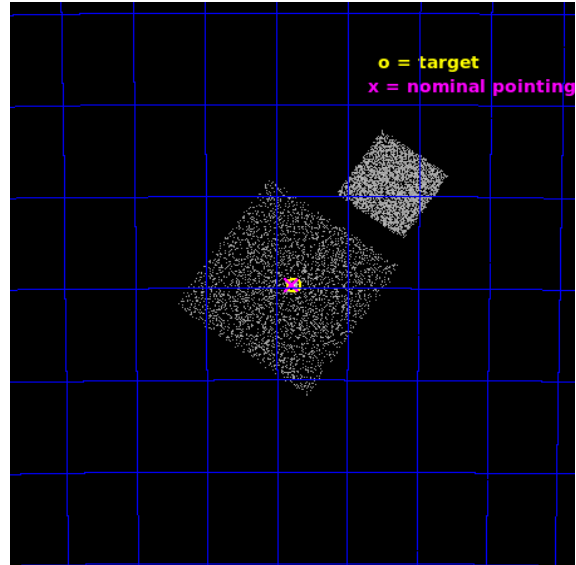
L2 Processing Date : Oct 24 2020

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1 Front

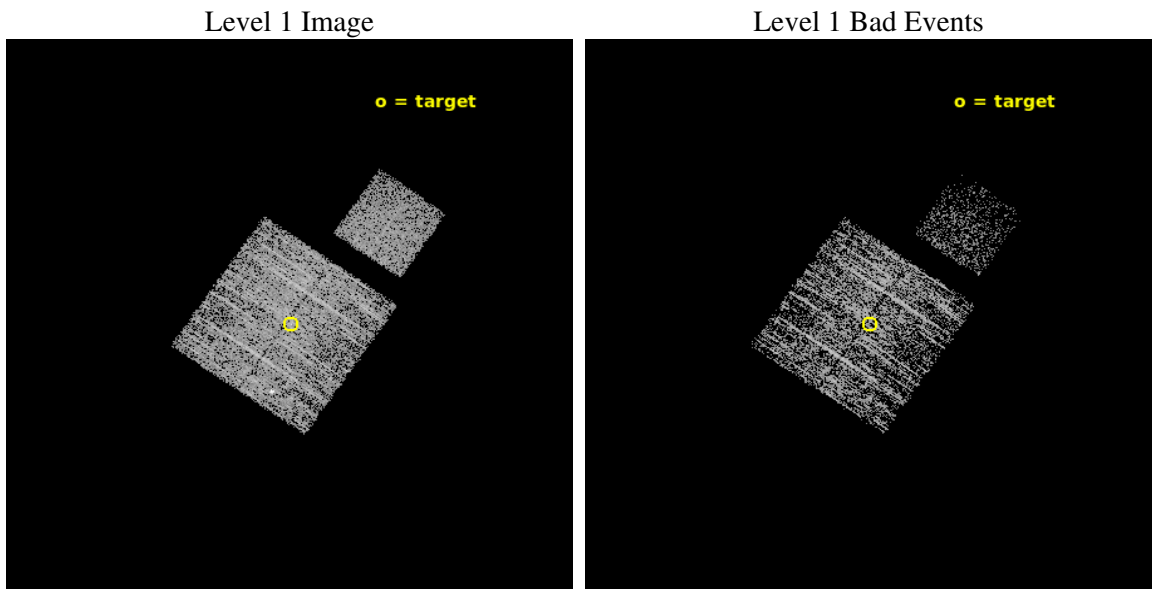
seq_num	502974	Sequence number
obs_id	20090	Observation id
title	Bright X-ray counterparts of galactic 3FGL sources	Proposal title
observer	Jeremy Hare	Principal investigator
object	3FGL J1016.5-6034	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	153.939583	Observer's specified target RA [deg]
dec_targ	-60.494722	Observer's specified target Dec [deg]
ra_nom	153.94634254461	Nominal RA [deg]
dec_nom	-60.49416871376	Nominal Dec [deg]
roll_nom	34.667610315952	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2095.6000162363	Sum of GTIs [s]
livetime	2068.2194592659	Livetime [s]
ontime0	2095.6000162363	Sum of GTIs [s]
ontime1	2092.4589259624	Sum of GTIs [s]
ontime2	2095.6000162363	Sum of GTIs [s]
ontime3	2095.6000162363	Sum of GTIs [s]
ontime7	2095.6000162363	Sum of GTIs [s]
l2events	8815	Number of level 2 events



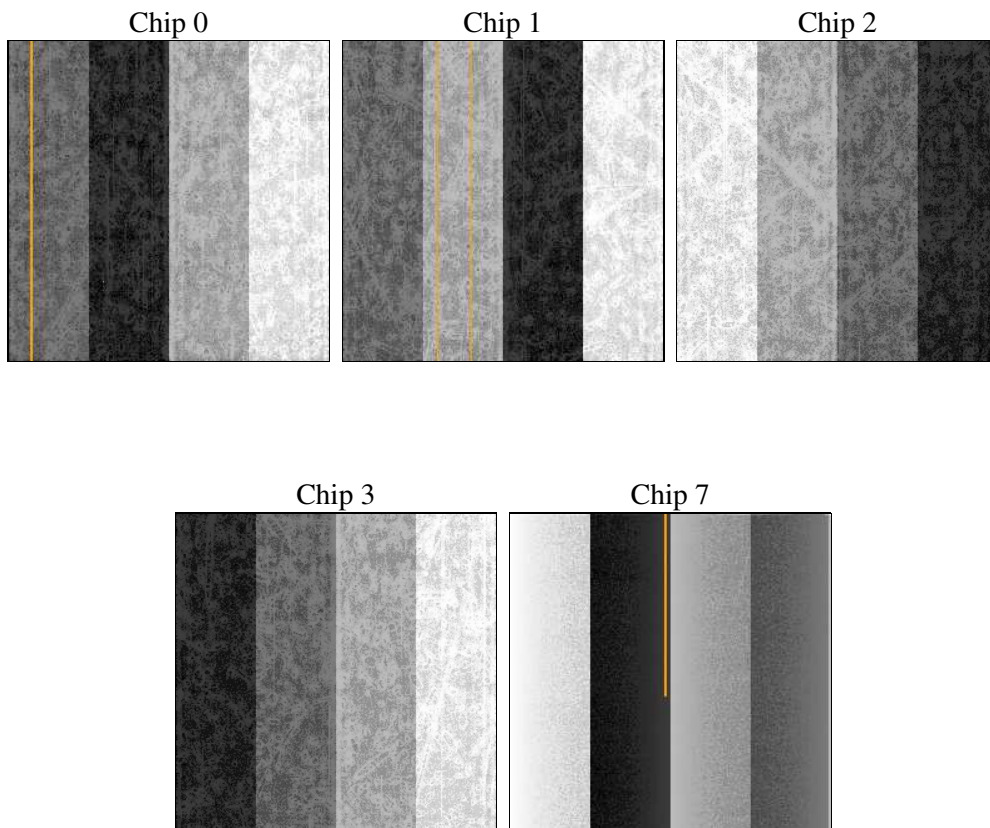
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	2095.6000162363	Sum of GTIs [s]
caldbver	4.9.3	 	ontime0	2095.6000162363	Sum of GTIs [s]
date	2020-10-24T07:18:19	Date and time of file creation	ontime1	2092.4589259624	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2095.6000162363	Sum of GTIs [s]
			ontime3	2095.6000162363	Sum of GTIs [s]
			ontime7	2095.6000162363	Sum of GTIs [s]
			l1events	57200	Number of level 1 events

2.1.4 Events

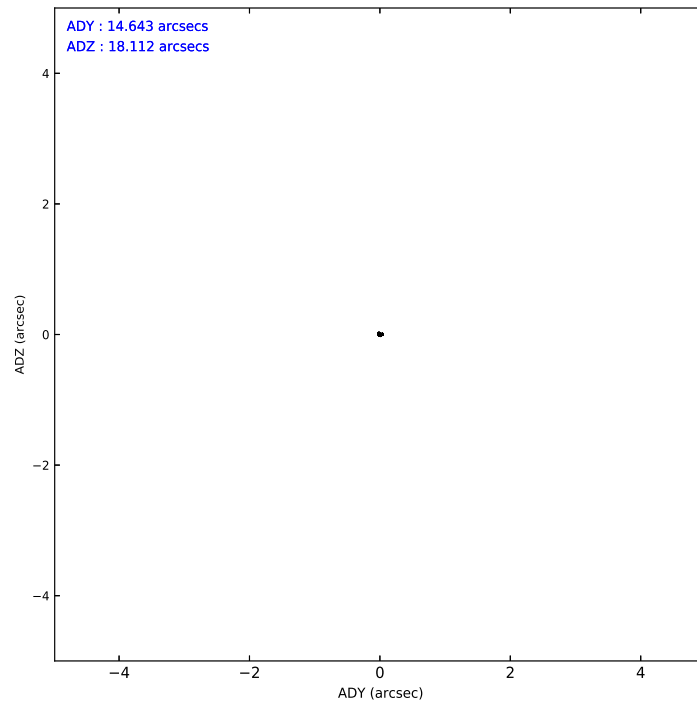
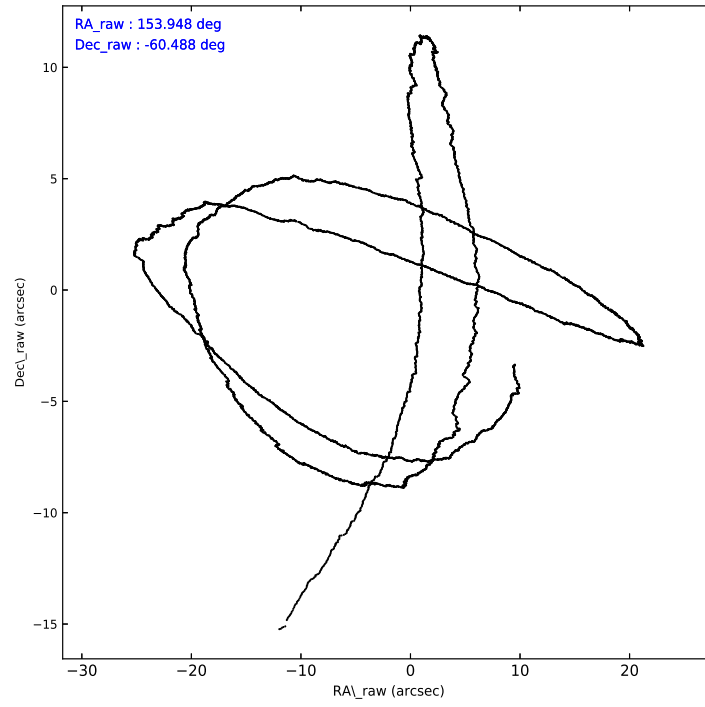
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	11204	11994	13477	11531	8994
rejected events	9898	10150	12283	10274	4097
rejected %	88%	84%	91%	89%	45%

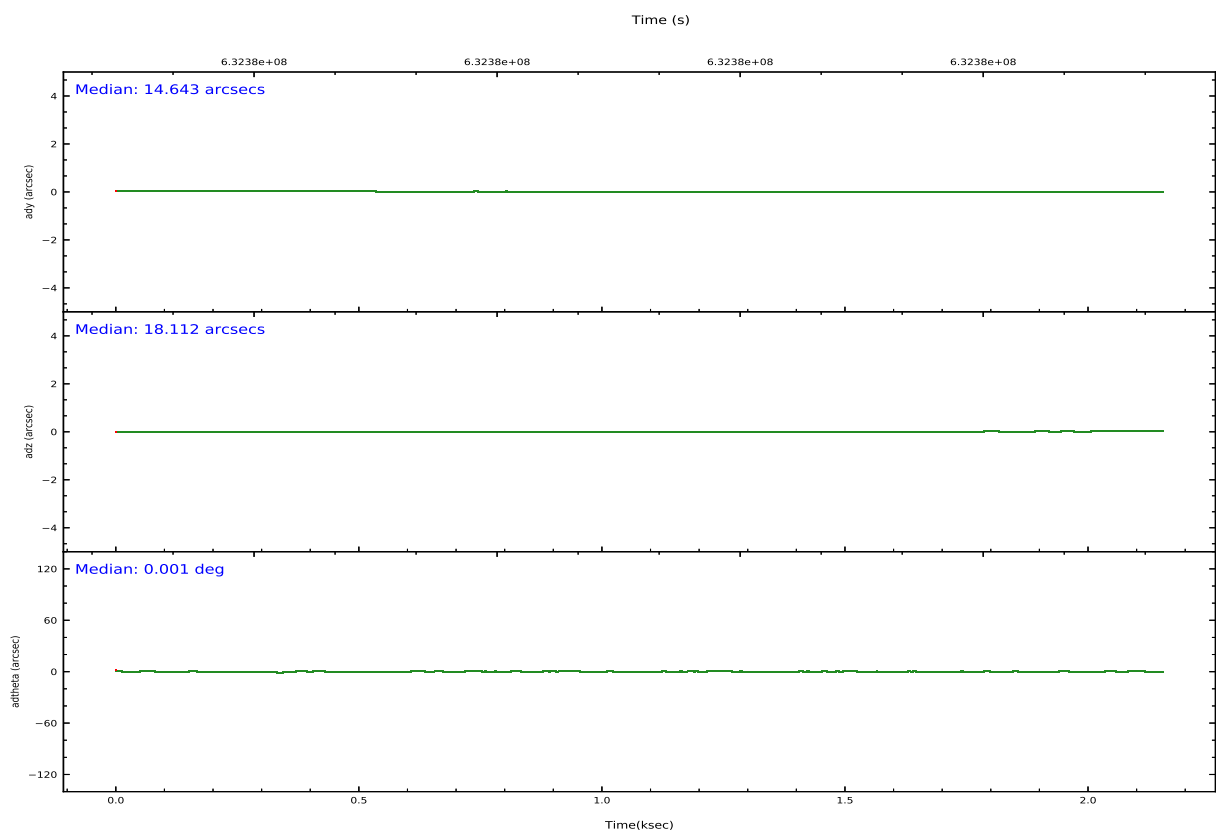
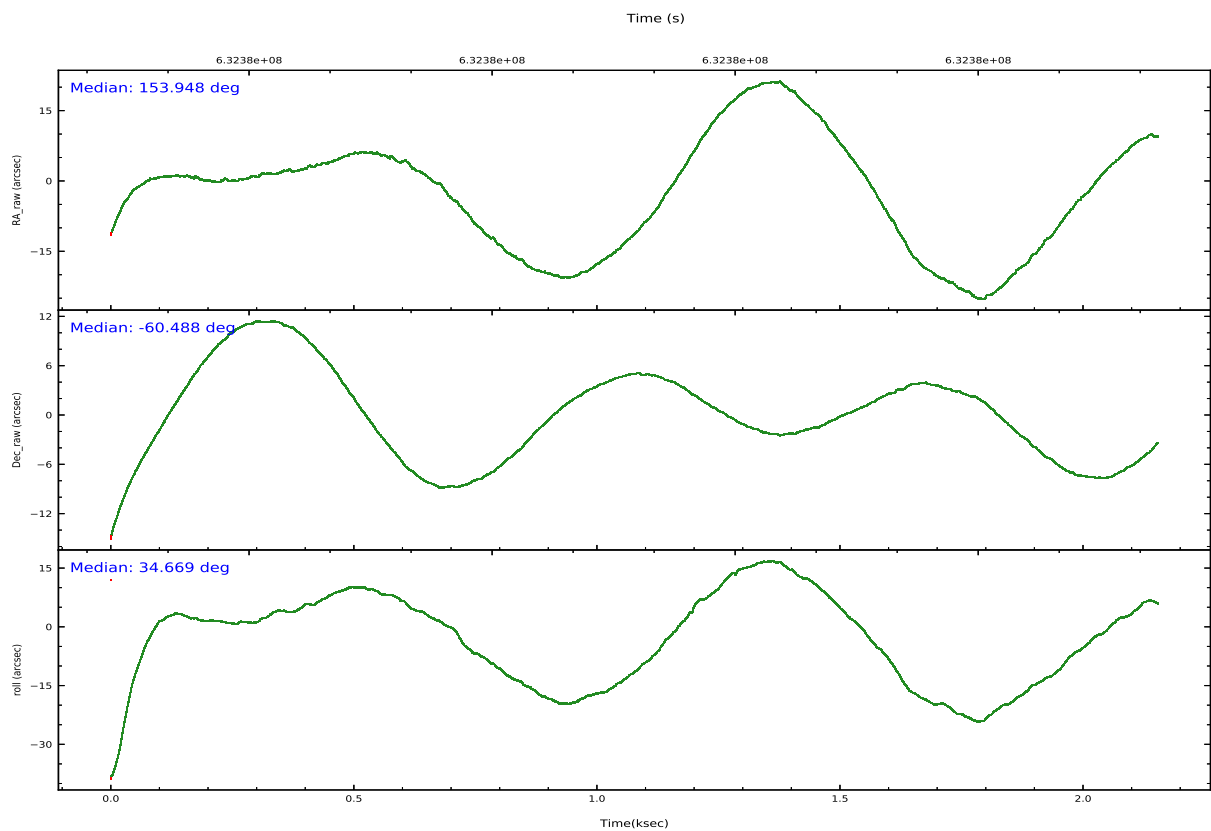
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	535	1023	520	562	594
	4%	8%	3%	4%	6%
grade 1 events	5	8	6	6	19
	0%	0%	0%	0%	0%
grade 2 events	317	348	293	260	1222
	2%	2%	2%	2%	13%
grade 3 events	120	118	100	128	417
	1%	0%	0%	1%	4%
grade 4 events	117	114	120	123	447
	1%	0%	0%	1%	4%
grade 5 events	283	277	250	316	931
	2%	2%	1%	2%	10%
grade 6 events	218	242	164	190	2225
	1%	2%	1%	1%	24%
grade 7 events	9609	9864	12024	9946	3139
	85%	82%	89%	86%	34%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	153.923767	153.94634254461	CCD I2 on	Y	Y
[deg] Pointing Dec	-60.512365	-60.49416871376	CCD I3 on	Y	Y
[deg] Pointing Roll	34.446211	34.667610315952	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	632377370.184000	632376399.81157	CCD S5 on	N	N
Observation start date	2018-01-15T04:21:41	2018-01-15T04:06:39	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	632379370.184000	632380129.78679	On-chip summing requested	N	N
Observation end date	2018-01-15T04:55:01	2018-01-15T05:08:49	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



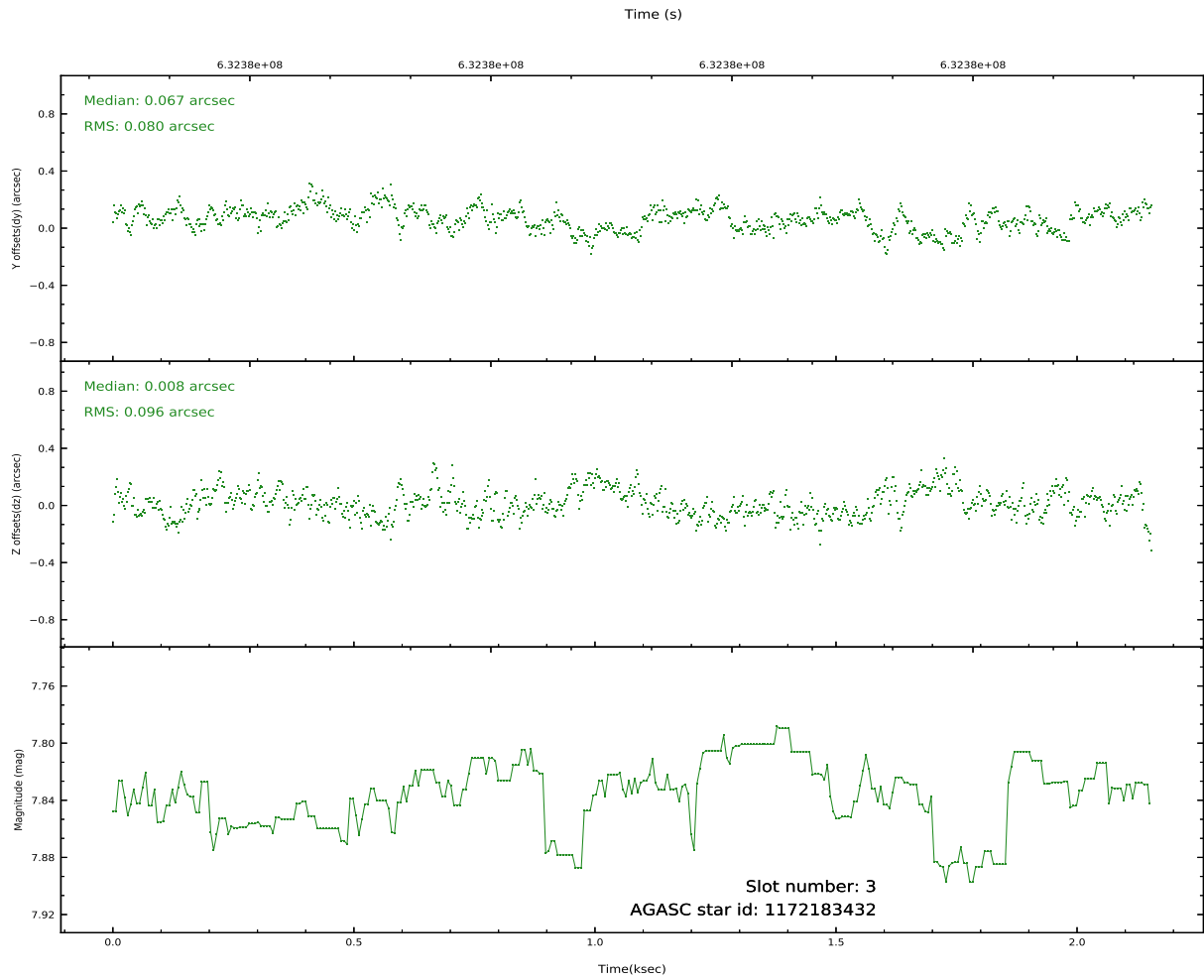
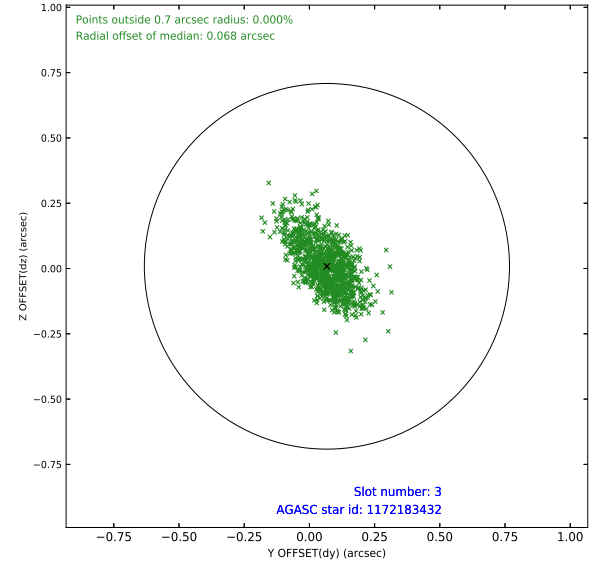
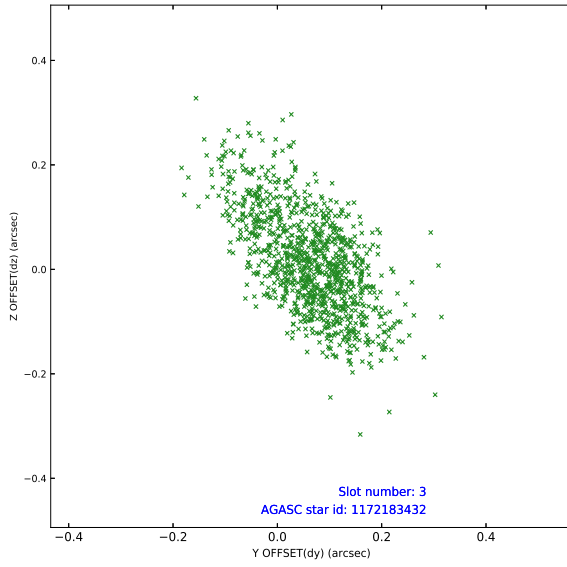


Slot Statistics

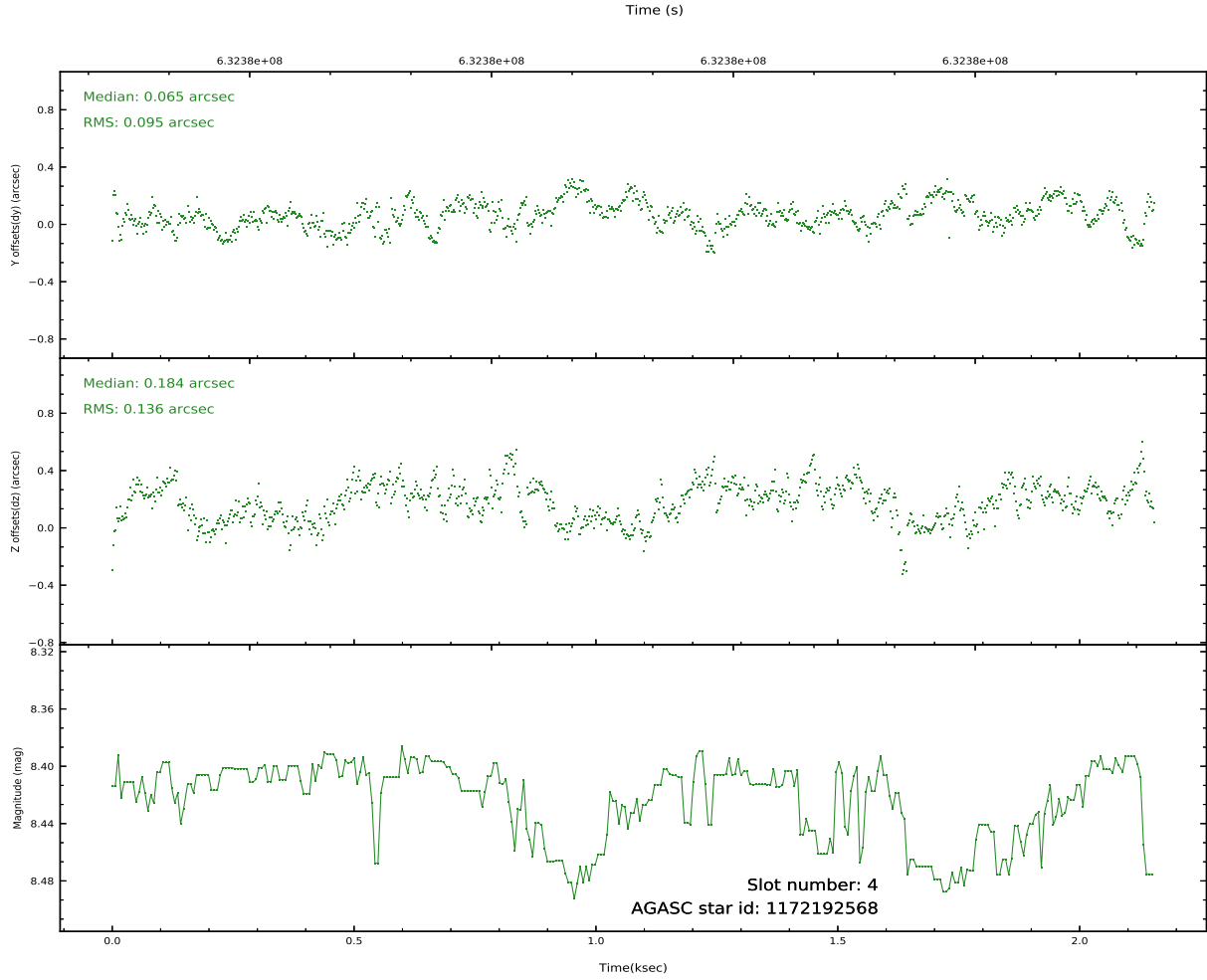
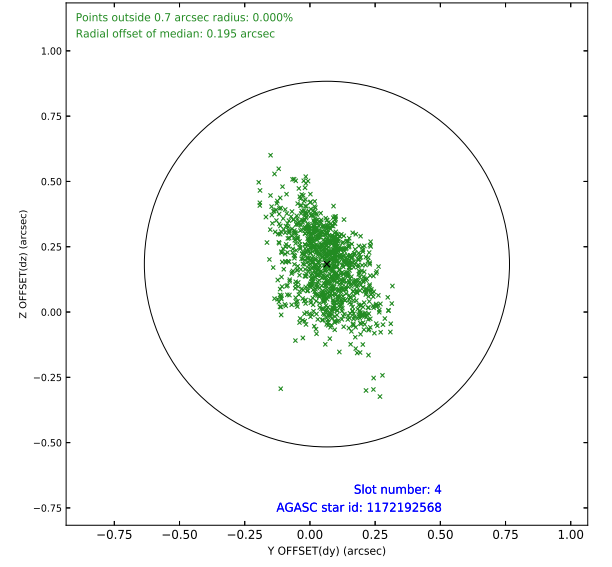
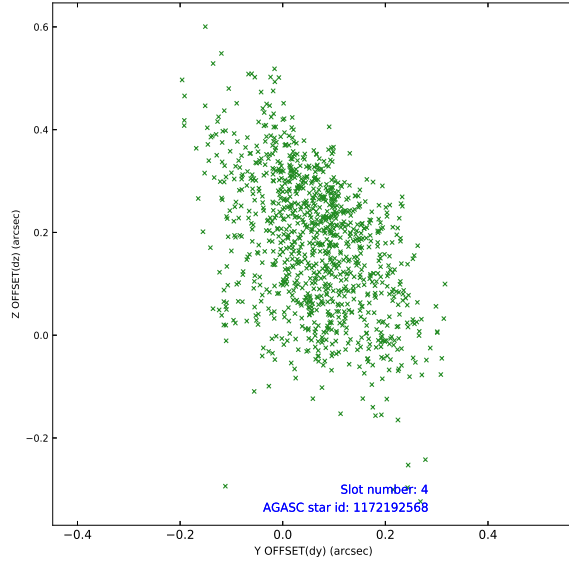
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.23	526	1.000	0.184	-0.105	0.007	0.012	0.000000	0.000000	924.96	-841
1	FID		ACIS-I-5	7.22	526	1.000	-0.311	0.158	0.006	0.011	0.000000	0.000000	-1821.88	1054
2	FID		ACIS-I-6	7.23	526	1.000	0.035	0.017	0.007	0.012	0.000000	0.000000	387.19	1702
3	GUIDE	used	1172183432	7.83	1052	1.000	0.067	0.008	0.127	0.229	153.418092	-60.263334	-239.00	1248
4	GUIDE	used	1172192568	8.42	1050	1.000	0.065	0.184	0.172	0.295	152.288897	-60.416182	-2220.36	1901
5	GUIDE	used	1173893944	7.26	1052	1.000	0.053	0.081	0.129	0.262	155.739943	-60.669734	2294.35	-2312
6	GUIDE	used	1128666864	8.69	1052	1.000	-0.175	-0.225	0.120	0.197	153.247403	-59.961427	115.42	2318
7	GUIDE	used	1173891224	8.62	1050	1.000	-0.001	-0.033	0.134	0.235	155.490624	-60.457318	2387.57	-1434

2.4 Star Slots

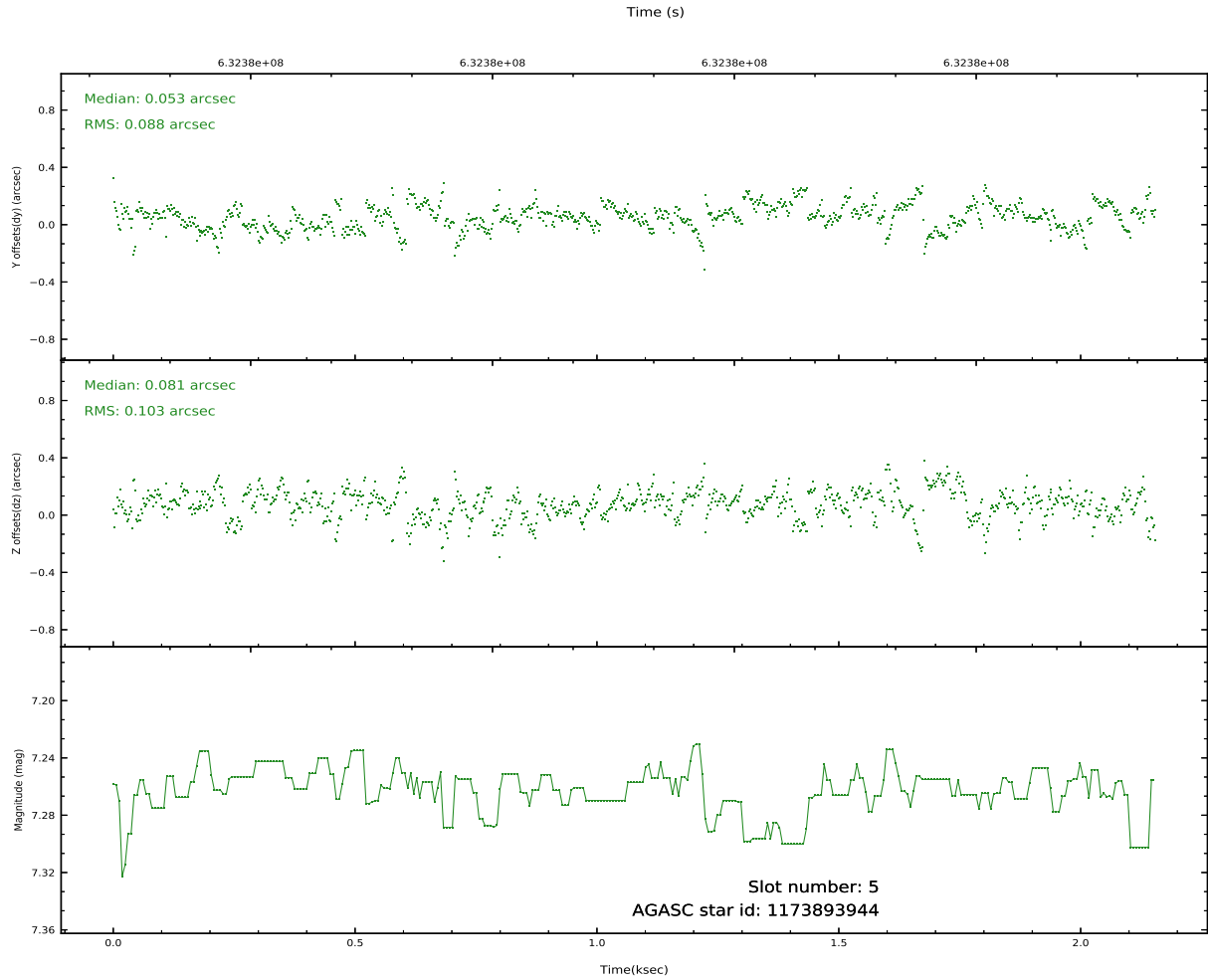
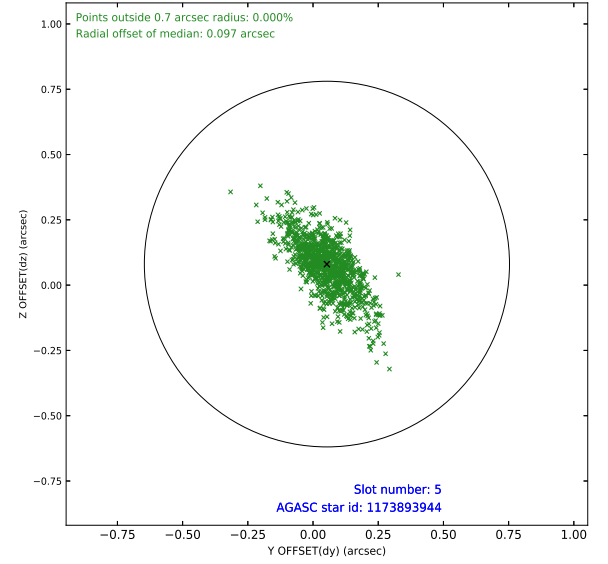
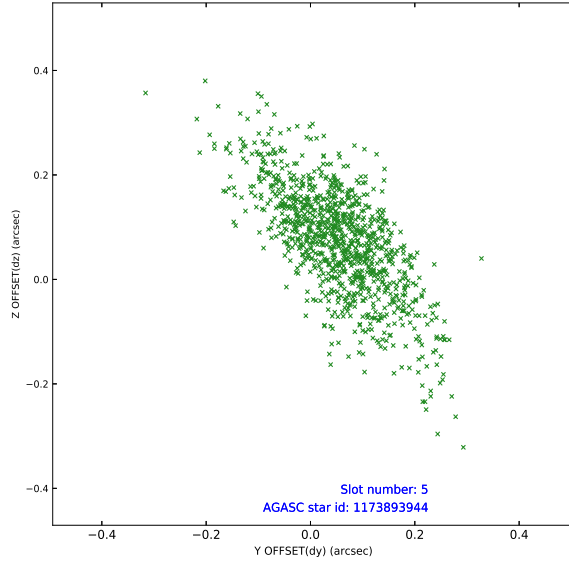
2.4.1 Slot 3



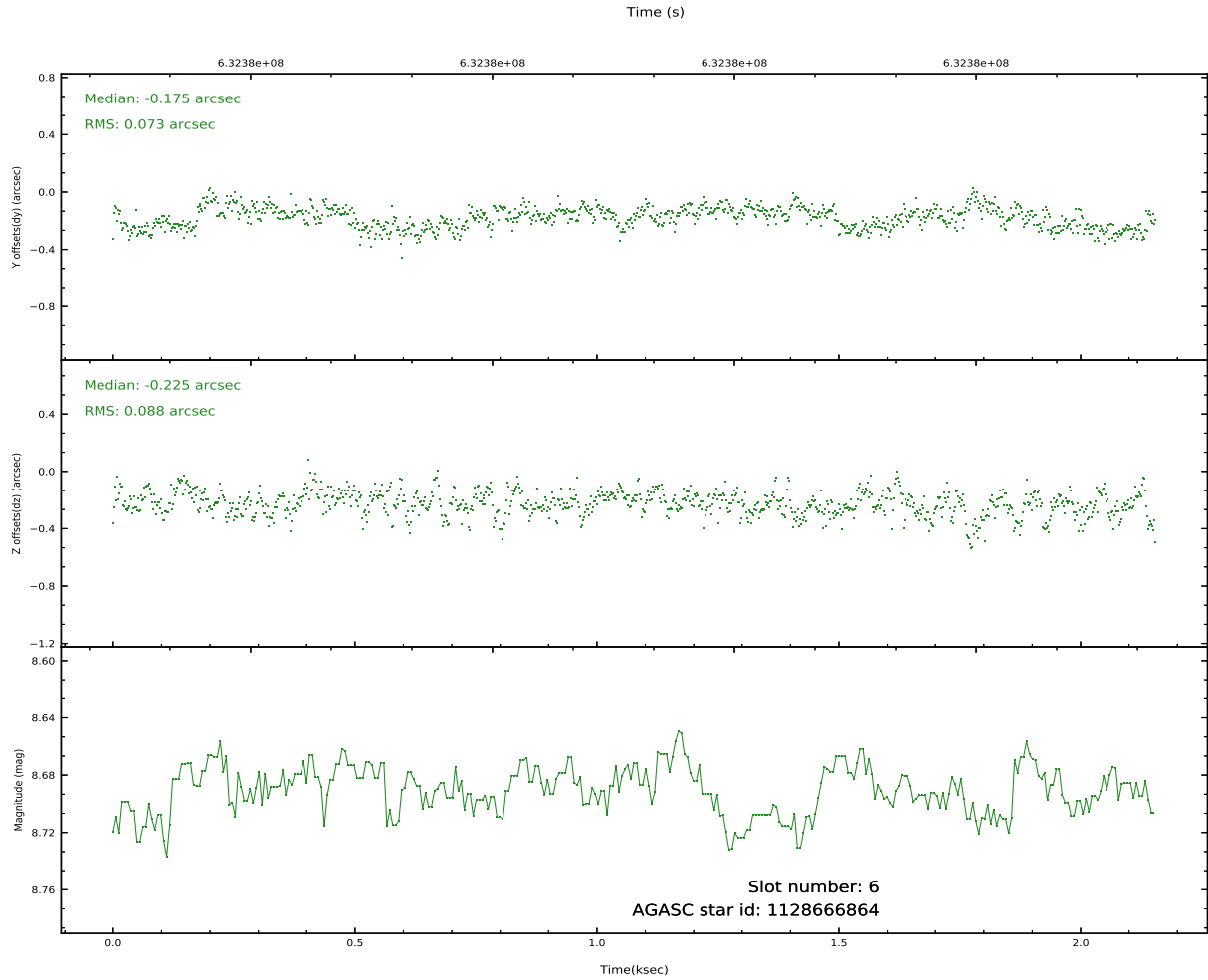
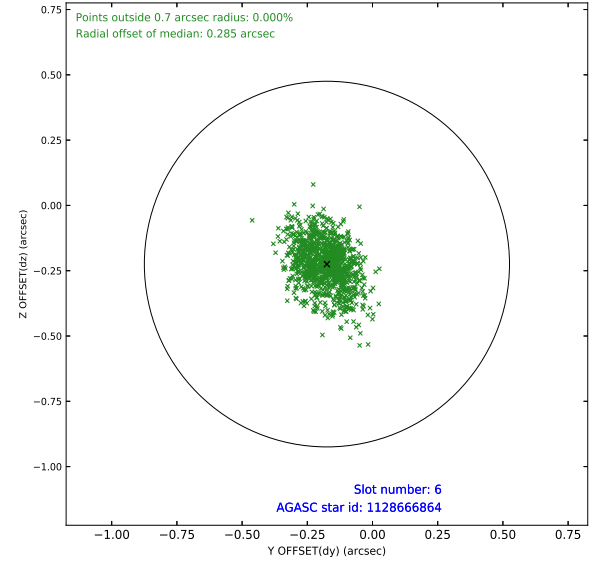
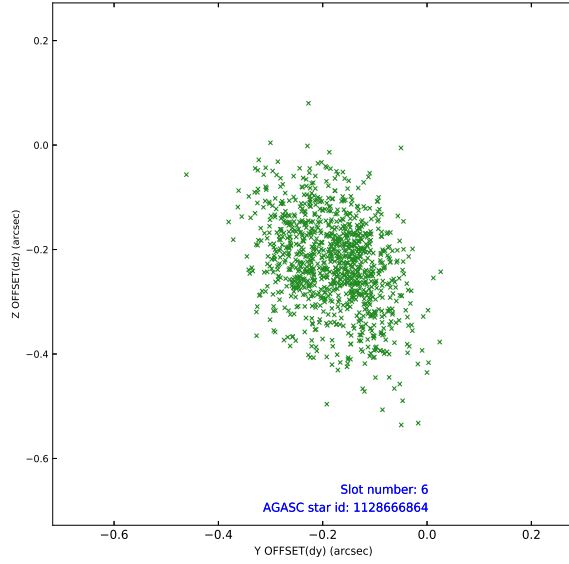
2.4.2 Slot 4



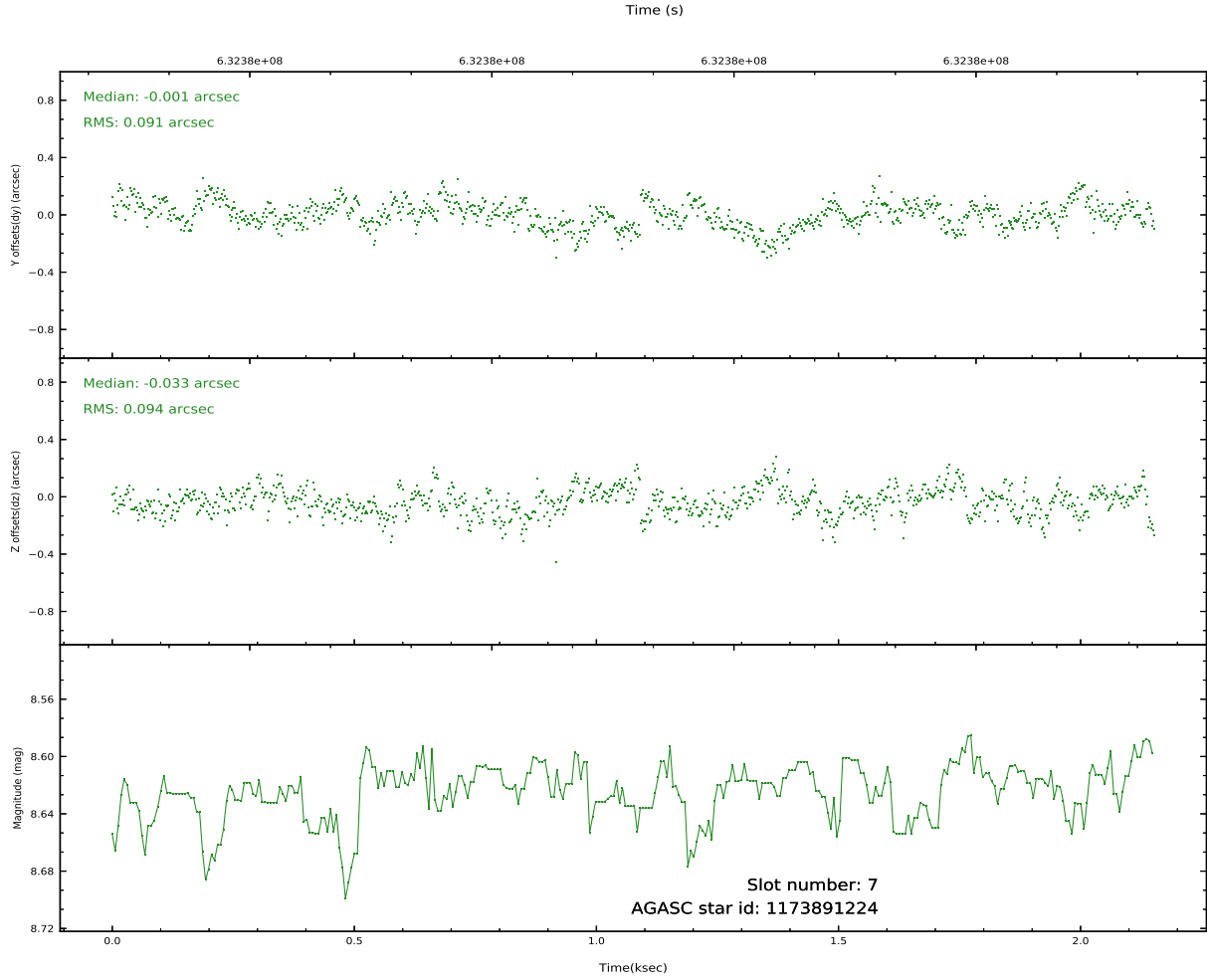
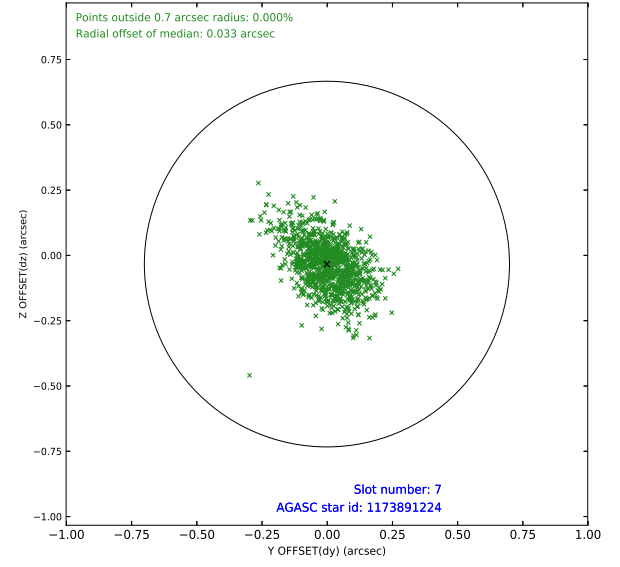
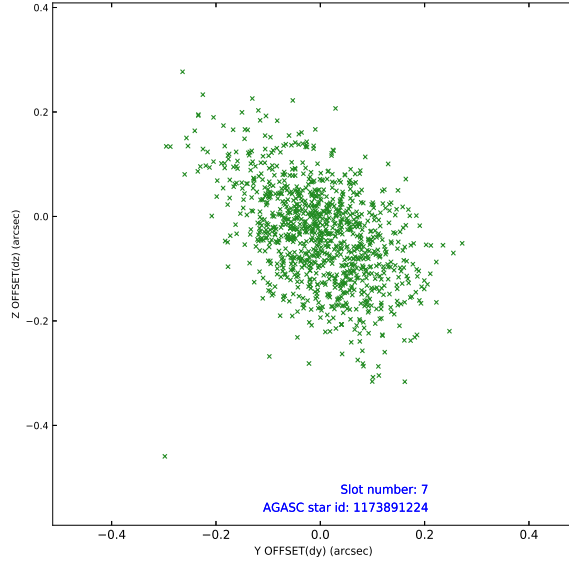
2.4.3 Slot 5



2.4.4 Slot 6

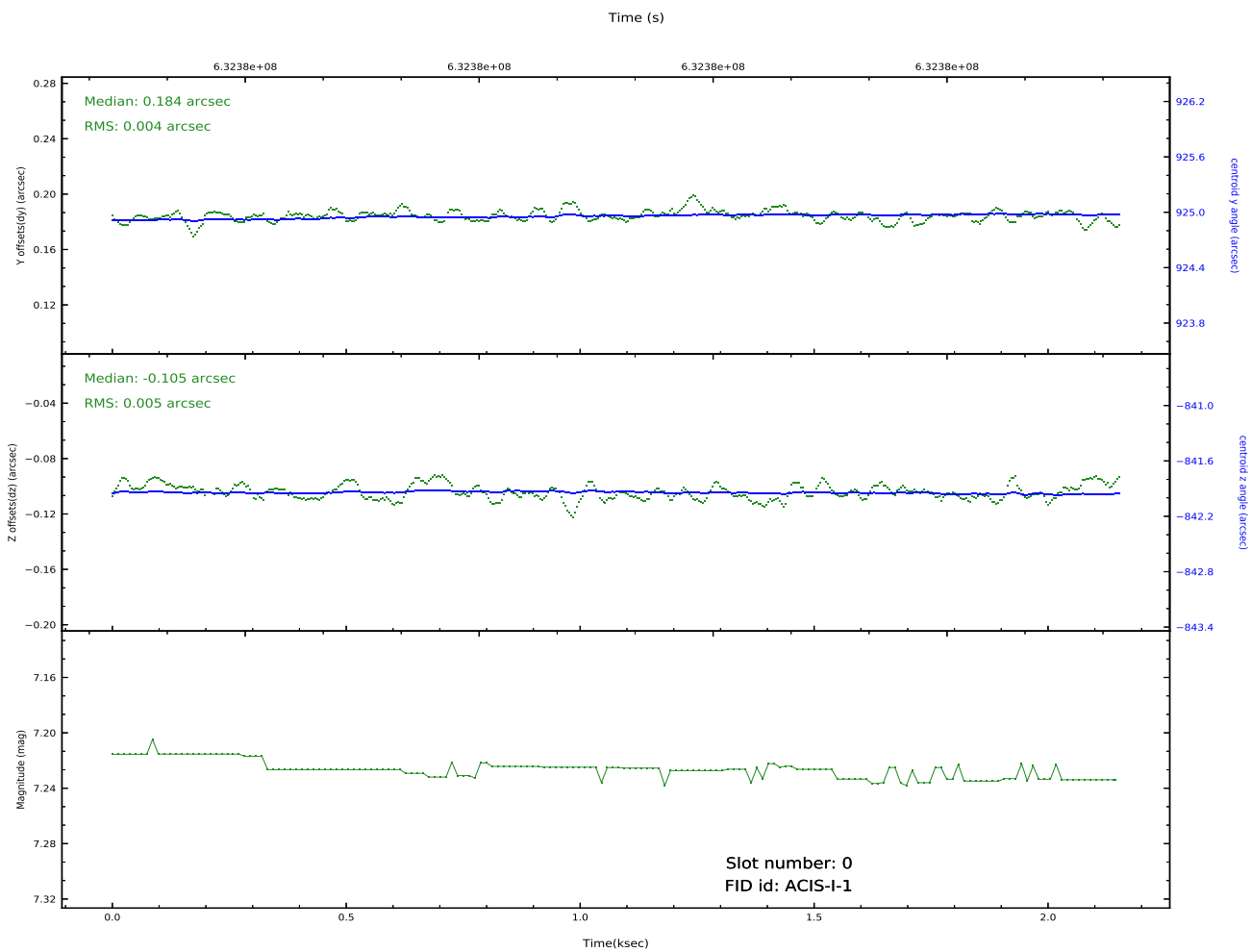
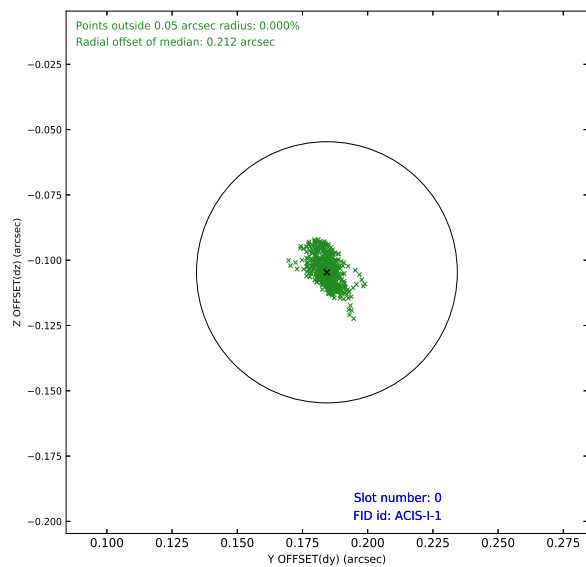
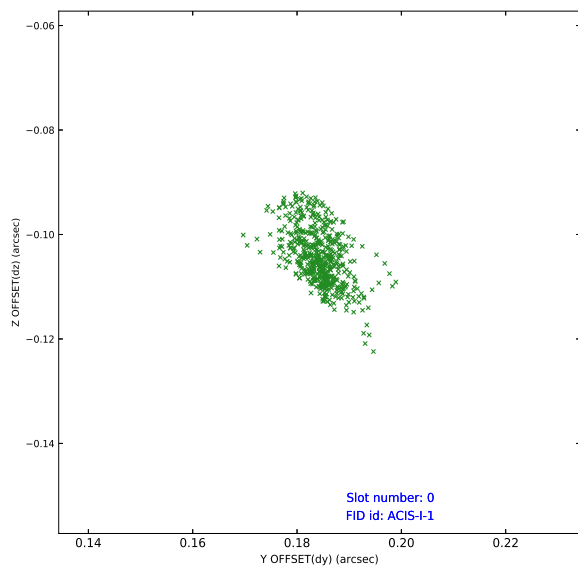


2.4.5 Slot 7

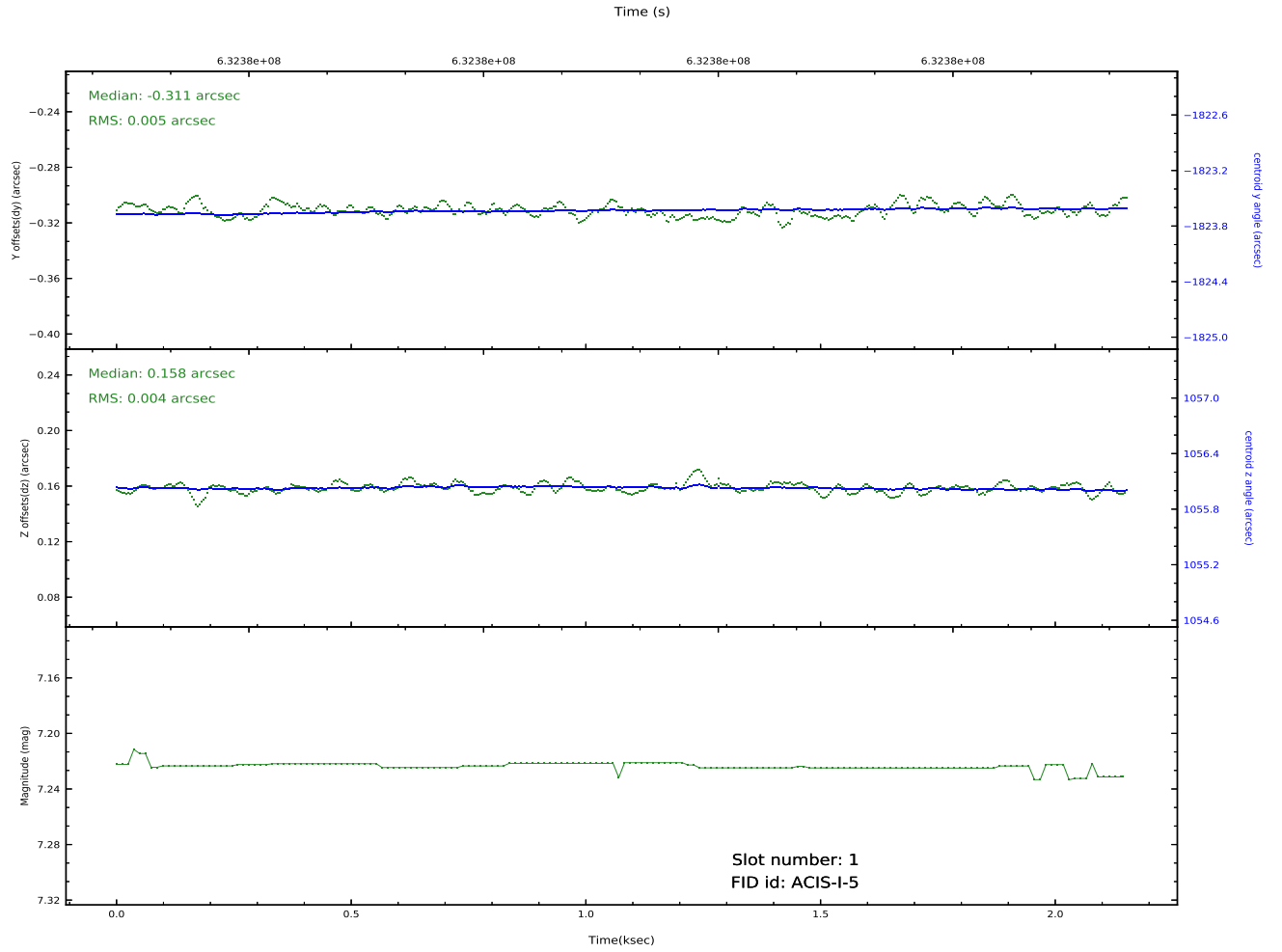
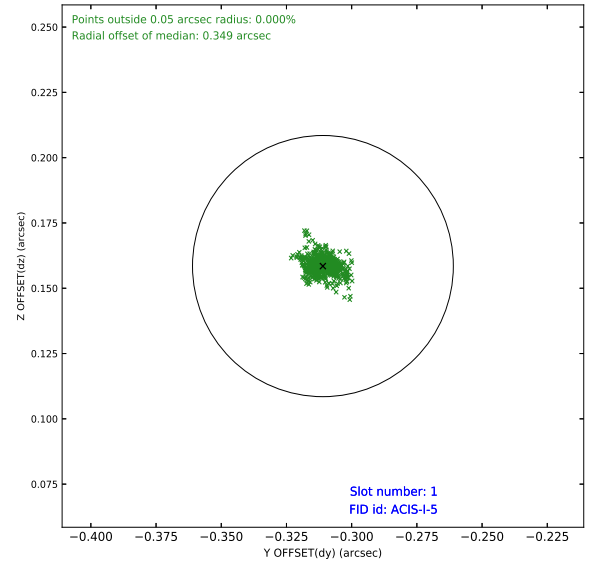
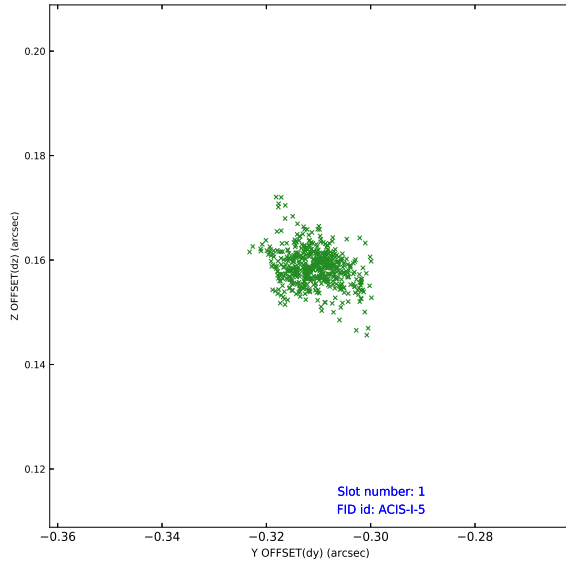


2.5 FID Slots

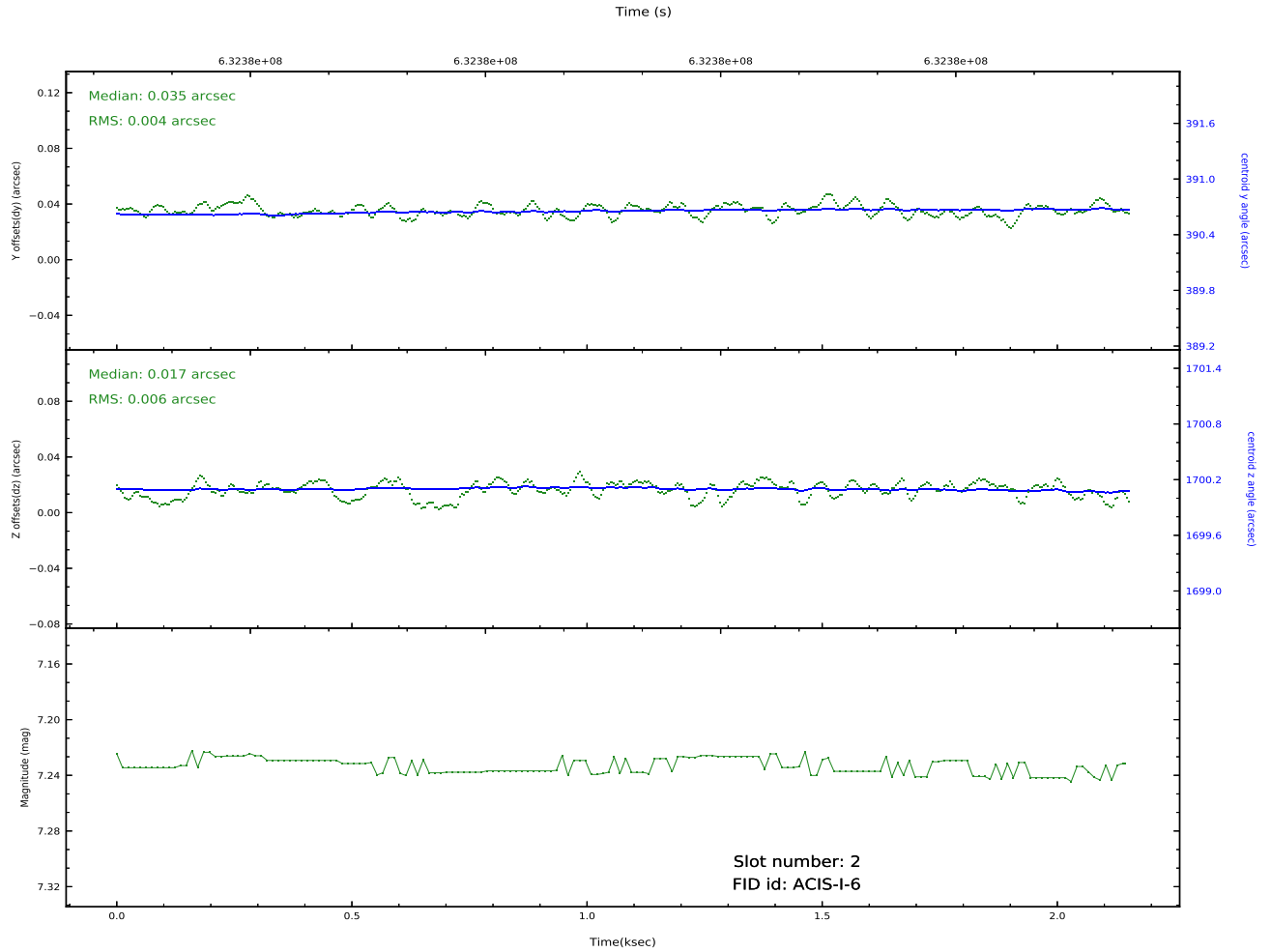
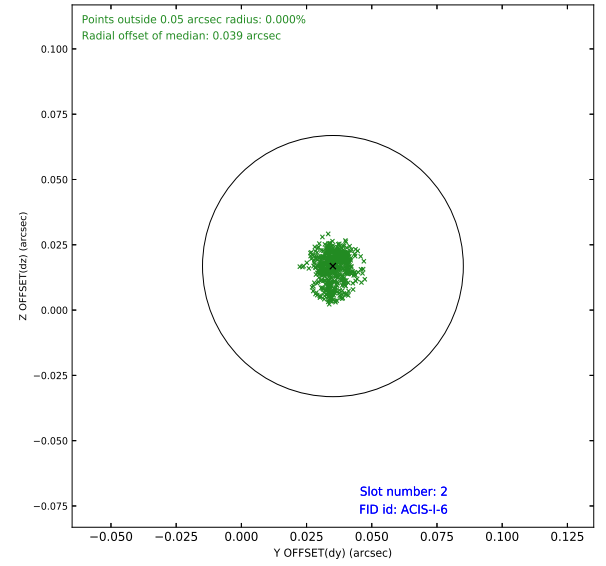
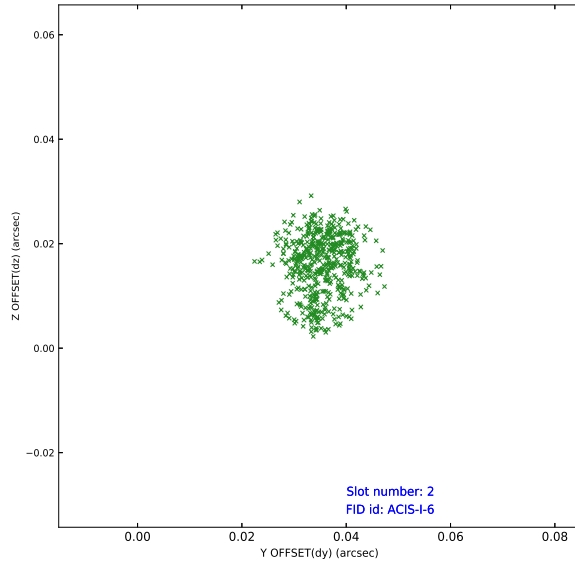
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.0956000162363

A.2 Comments

Joint proposal with XMM.