

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20643 - L2 Version 2
Chandra X-Ray Center

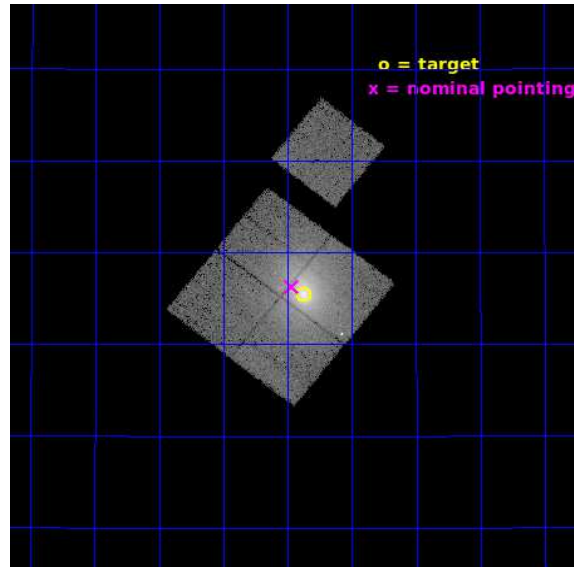
L2 Processing Date : Oct 28 2020

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1 Front

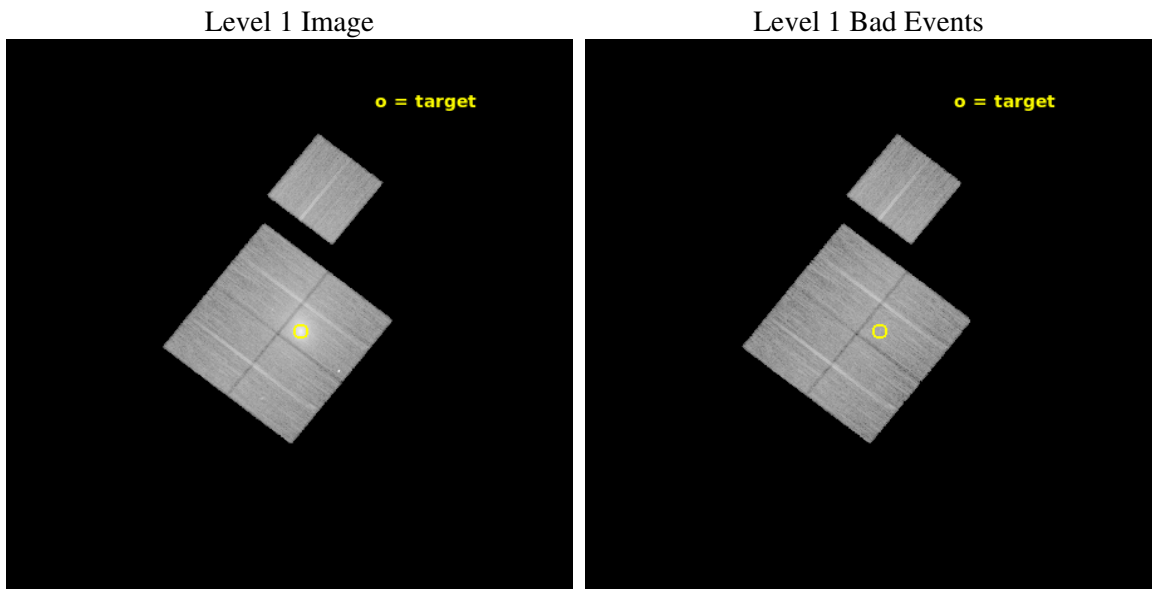
seq_num	890150	Sequence number
obs_id	20643	Observation id
title	AO-19 Calibration Observations of A1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.24183698596	Nominal RA [deg]
dec_nom	26.604771707898	Nominal Dec [deg]
roll_nom	38.183922225177	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20065.458034396	Sum of GTIs [s]
livetime	19803.288053201	Livetime [s]
ontime0	20065.334914446	Sum of GTIs [s]
ontime1	20055.952973723	Sum of GTIs [s]
ontime2	20065.416994452	Sum of GTIs [s]
ontime3	20065.458034396	Sum of GTIs [s]
ontime6	20062.152923942	Sum of GTIs [s]
l2events	189378	Number of level 2 events



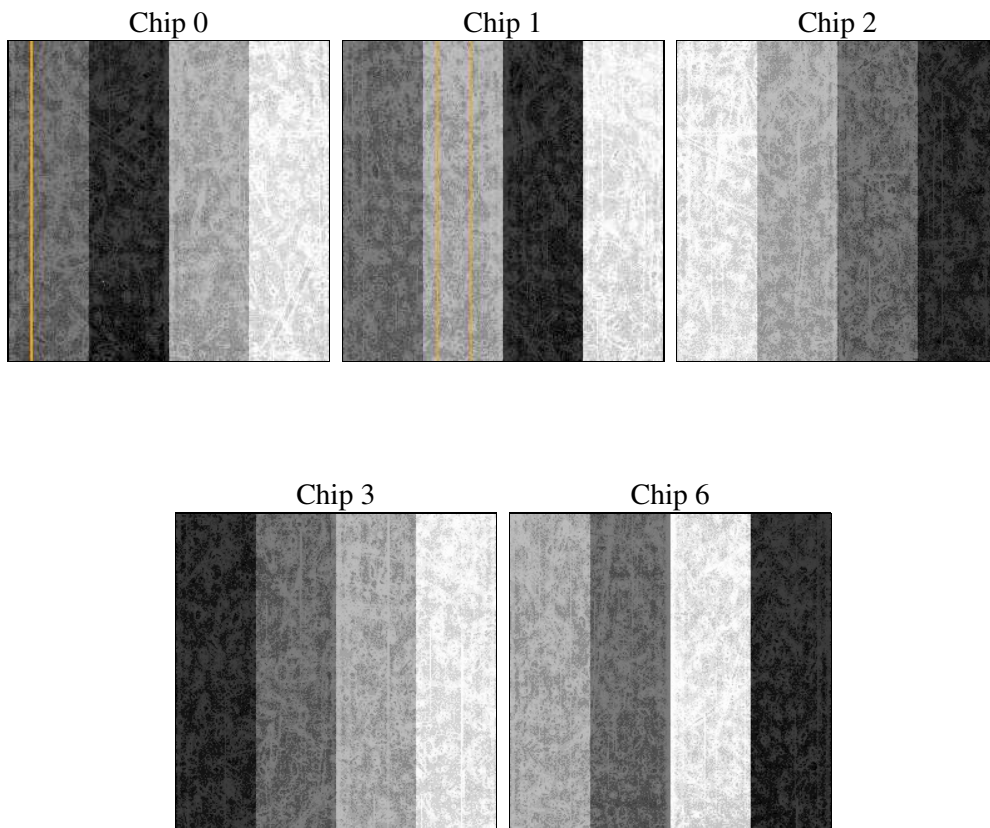
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	20065.458034396	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	20065.334914446	Sum of GTIs [s]
date	2020-10-28T07:06:50	Date and time of file creation	ontime1	20055.952973723	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	20065.416994452	Sum of GTIs [s]
			ontime3	20065.458034396	Sum of GTIs [s]
			ontime6	20062.152923942	Sum of GTIs [s]
			l1events	870873	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	143700	157319	172957	239058	157839
rejected events	122399	126079	139544	135501	139992
rejected %	85%	80%	80%	56%	88%

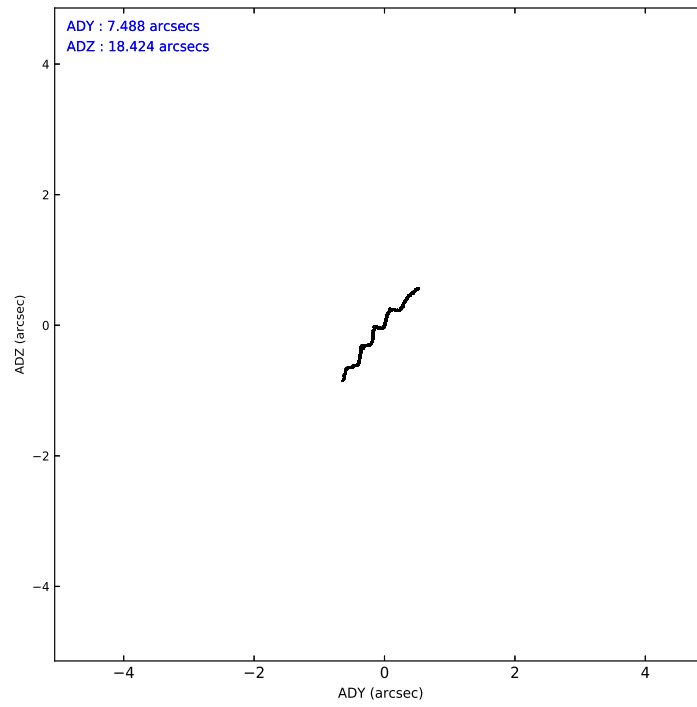
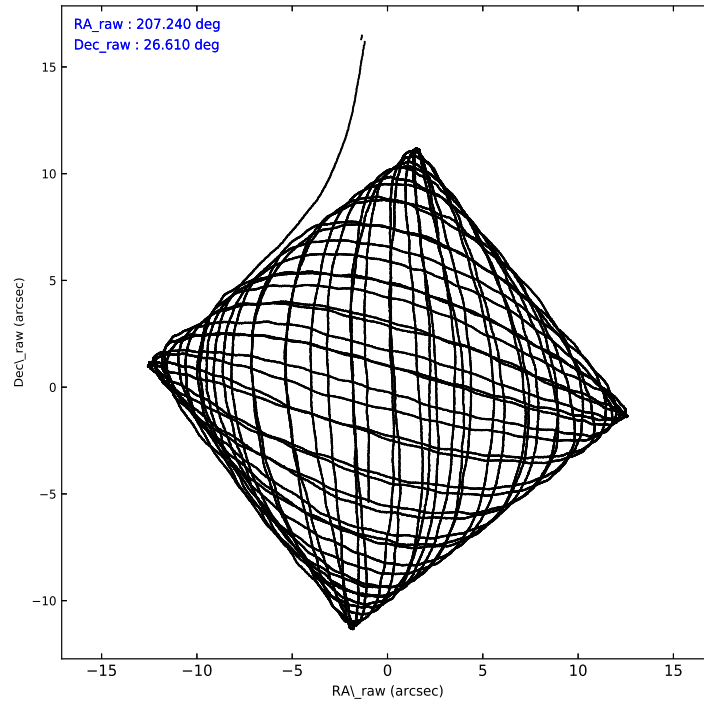
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9126	15860	19328	75568	6142
	6%	10%	11%	31%	3%
grade 1 events	95	135	175	520	66
	0%	0%	0%	0%	0%
grade 2 events	4717	6528	5877	12787	4136
	3%	4%	3%	5%	2%
grade 3 events	1911	2166	2200	4601	1794
	1%	1%	1%	1%	1%
grade 4 events	1768	2181	2256	4559	1739
	1%	1%	1%	1%	1%
grade 5 events	6640	6902	6421	7830	7267
	4%	4%	3%	3%	4%
grade 6 events	3788	4525	3769	6074	4048
	2%	2%	2%	2%	2%
grade 7 events	115655	119022	132931	127119	132647
	80%	75%	76%	53%	84%

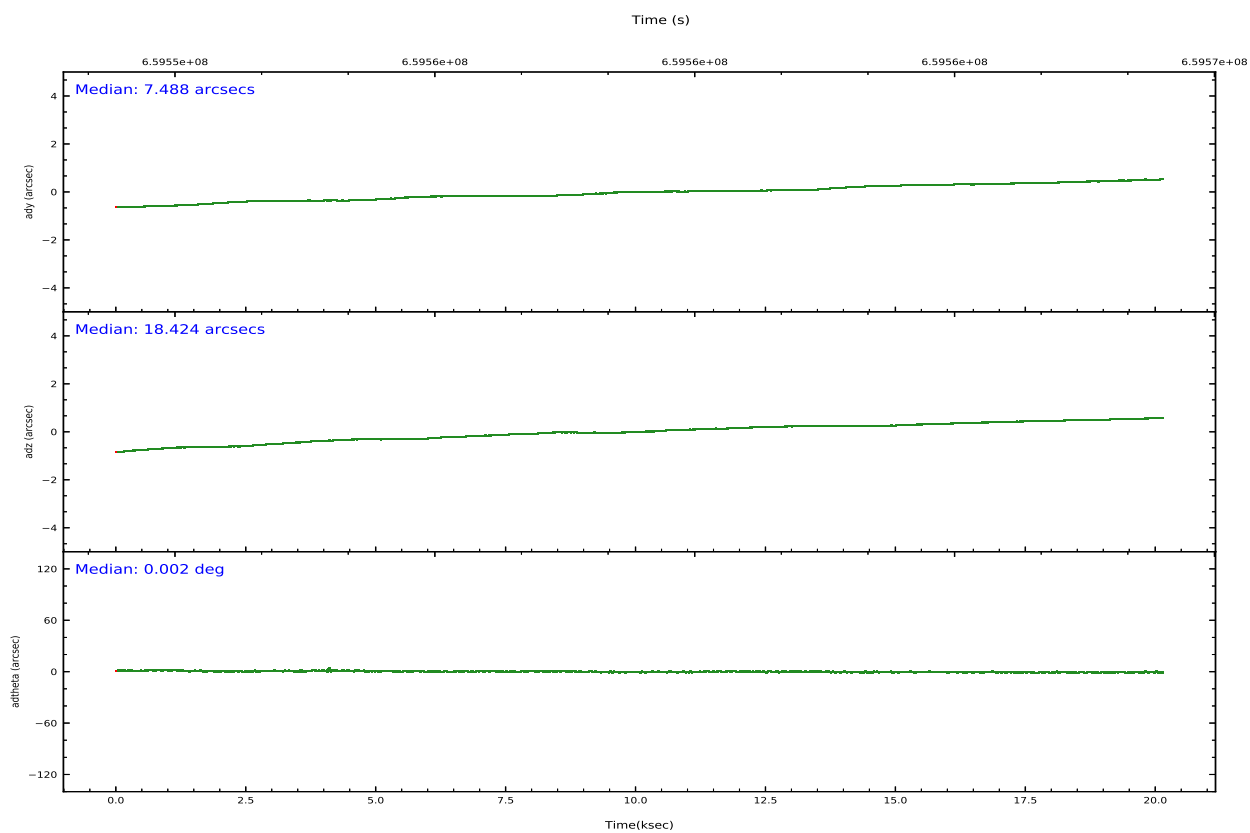
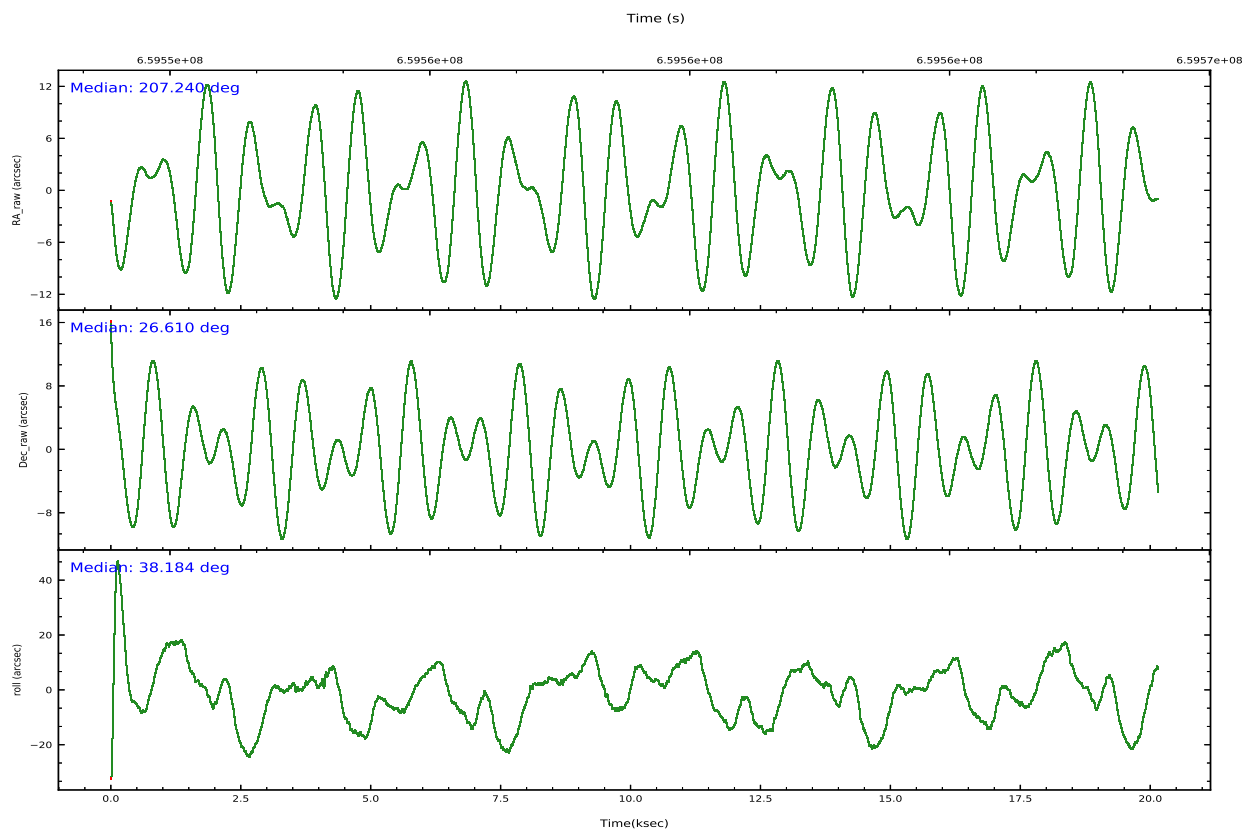
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	207.228878	207.24183698596
[deg] Pointing Dec	26.584596	26.604771707898
[deg] Pointing Roll	37.984986	38.183922225177
[s] Window start time (MET)	658627269.184000	658627269.184000
[s] Window stop time (MET)	661219269.184000	661219269.184000
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-230.252463	-230.248423740357
[mm] SIM translation stage offset	-3.34	-3.34402926257269
[s] Observation start time (MET)	659549012.184000	659547864.61244
Observation start date	2018-11-25T16:02:23	2018-11-25T15:44:24
[s] Observation end time (MET)	659569012.184000	659570011.7887599
Observation end date	2018-11-25T21:35:43	2018-11-25T21:53:31
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



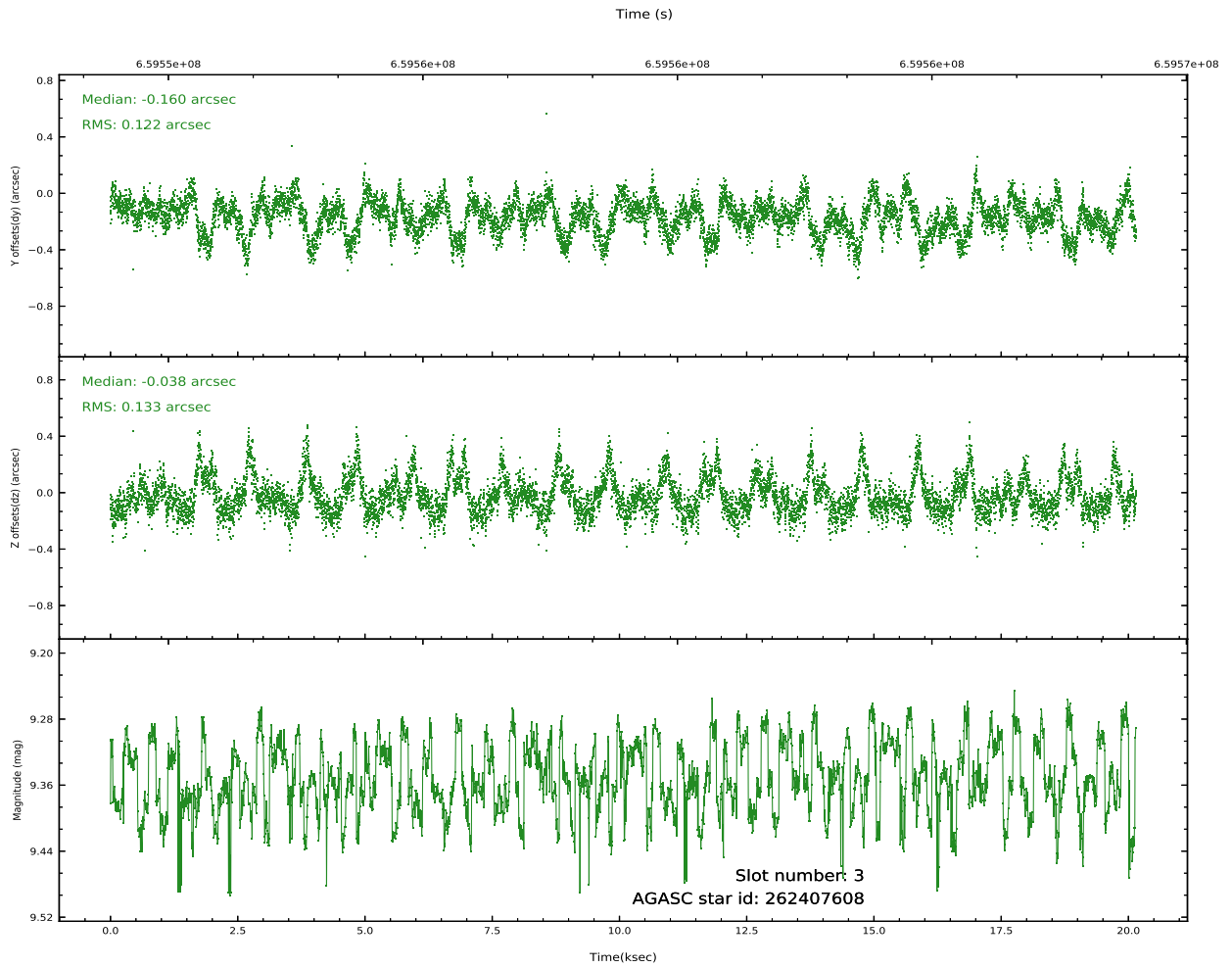
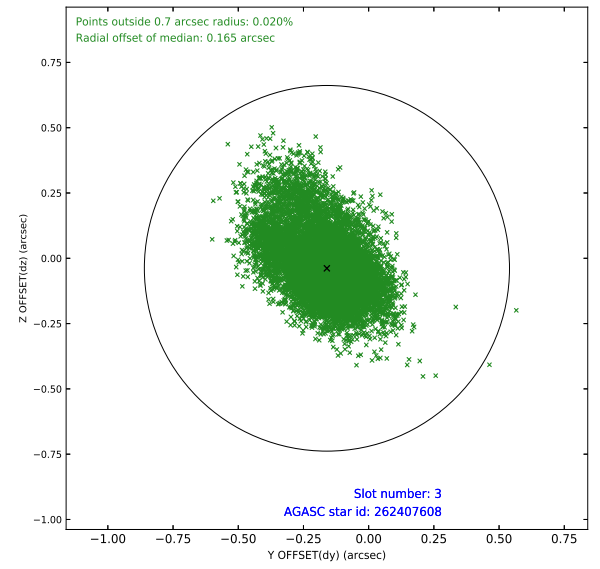
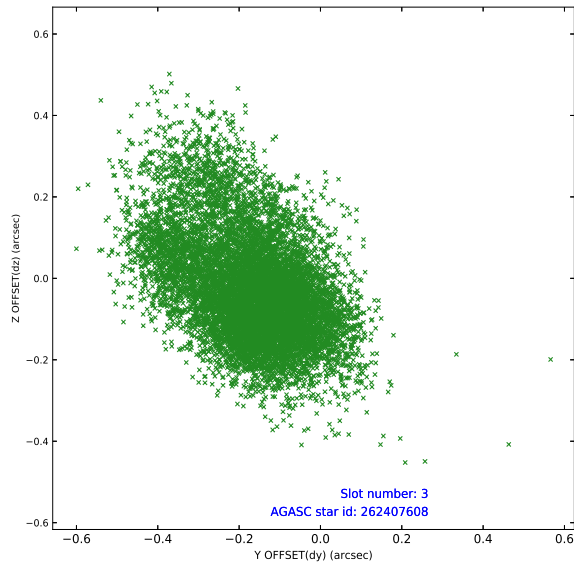


Slot Statistics

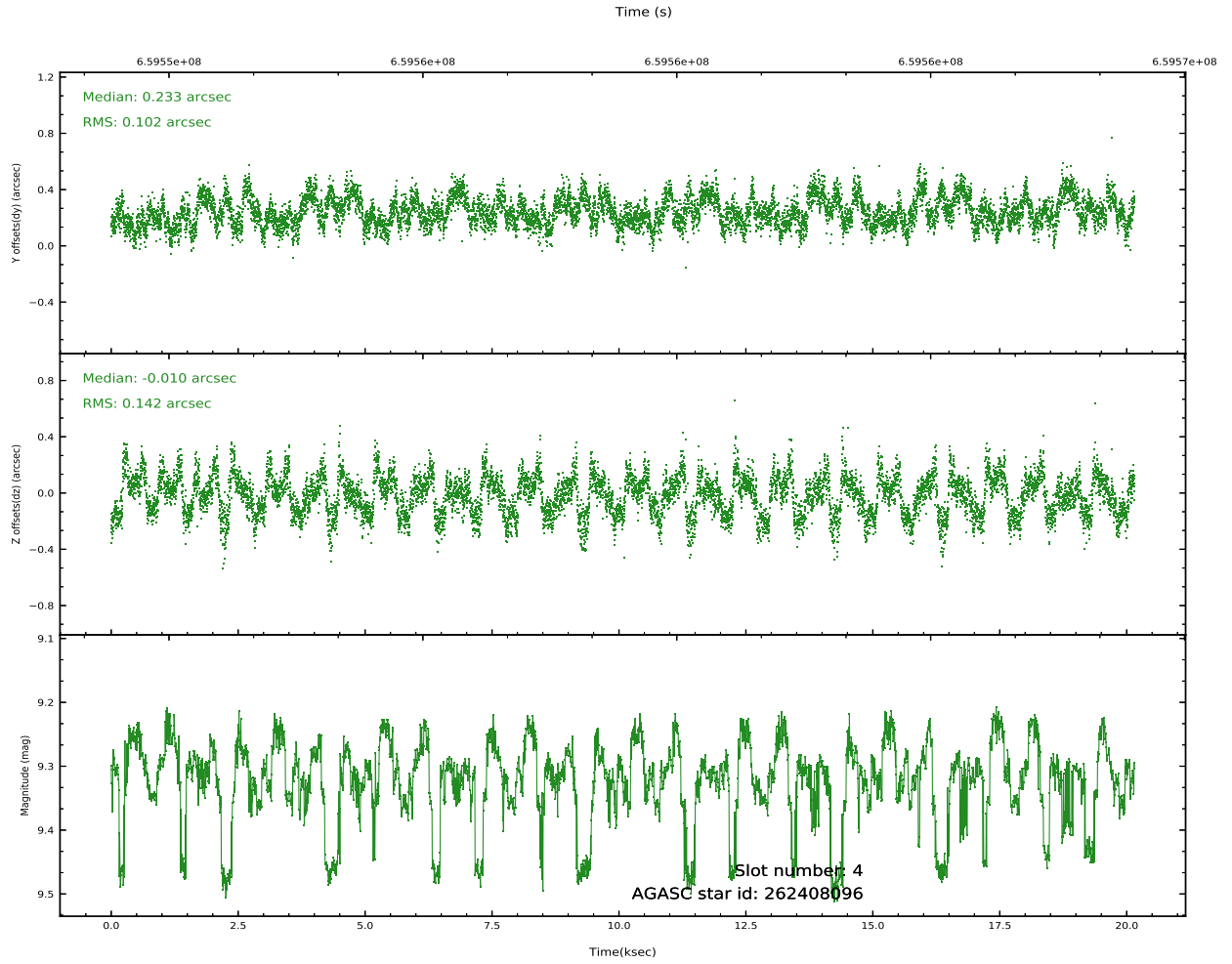
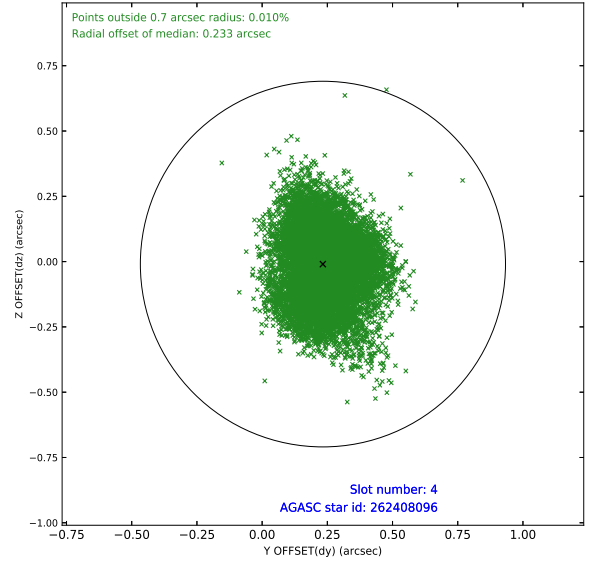
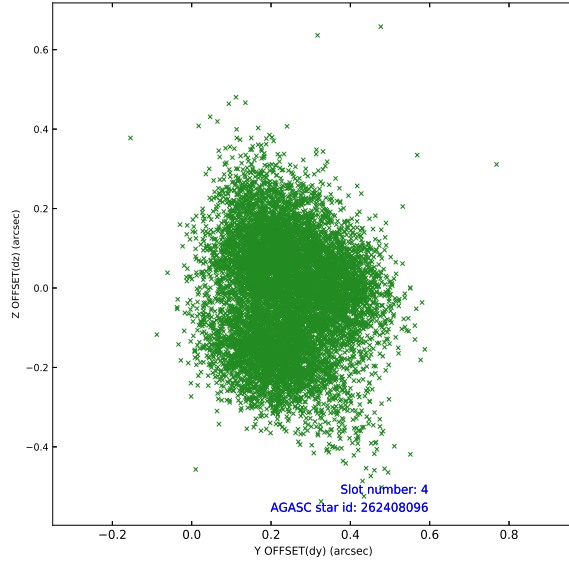
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.15	4916	1.000	0.294	-0.221	0.022	0.038	0.000000	0.000000	932.37	-910
1	FID		ACIS-I-5	7.14	4916	1.000	-0.351	0.245	0.009	0.017	0.000000	0.000000	-1816.14	987
2	FID		ACIS-I-6	7.15	4916	1.000	-0.035	0.047	0.016	0.032	0.000000	0.000000	397.57	1631
3	GUIDE	used	262407608	9.35	9815	1.000	-0.160	-0.038	0.184	0.329	207.378401	26.435507	50.28	-719
4	GUIDE	used	262408096	9.31	9814	1.000	0.233	-0.010	0.187	0.287	207.011678	26.515421	-703.94	235
5	GUIDE	used	262408936	9.63	9811	1.000	-0.273	-0.139	0.185	0.328	207.154731	26.726554	126.97	548
6	GUIDE	used	262411960	9.62	9814	1.000	0.183	0.270	0.175	0.333	207.327895	25.881727	-1303.67	-2191
7	GUIDE	used	262408224	8.76	9823	1.000	0.031	-0.090	0.124	0.198	207.599344	26.288334	287.04	-1575

2.4 Star Slots

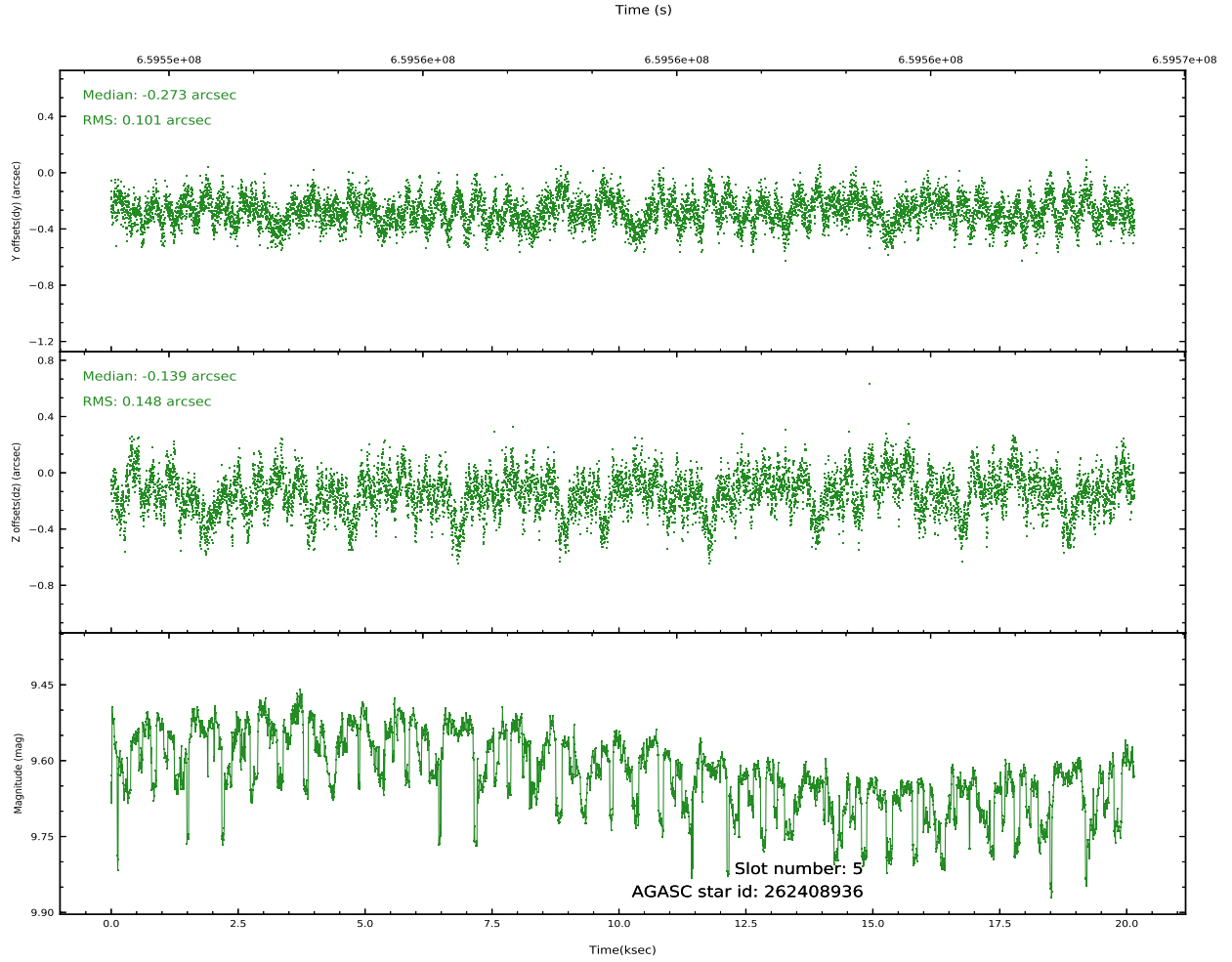
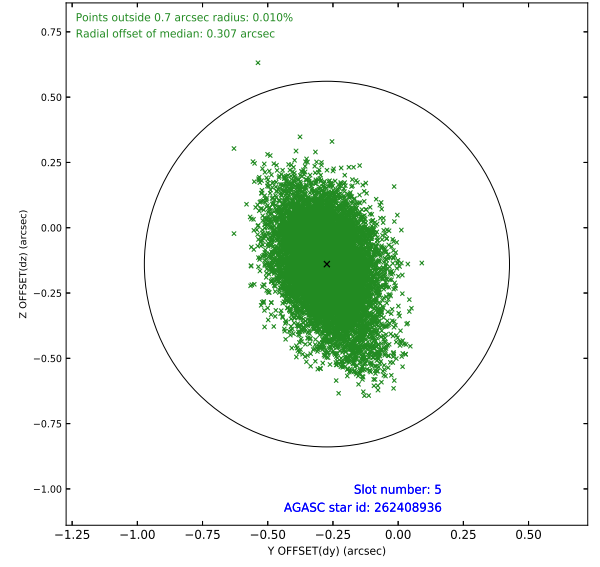
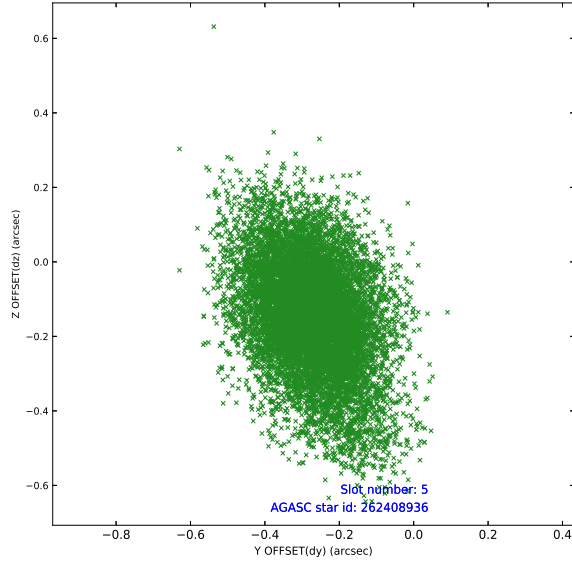
2.4.1 Slot 3



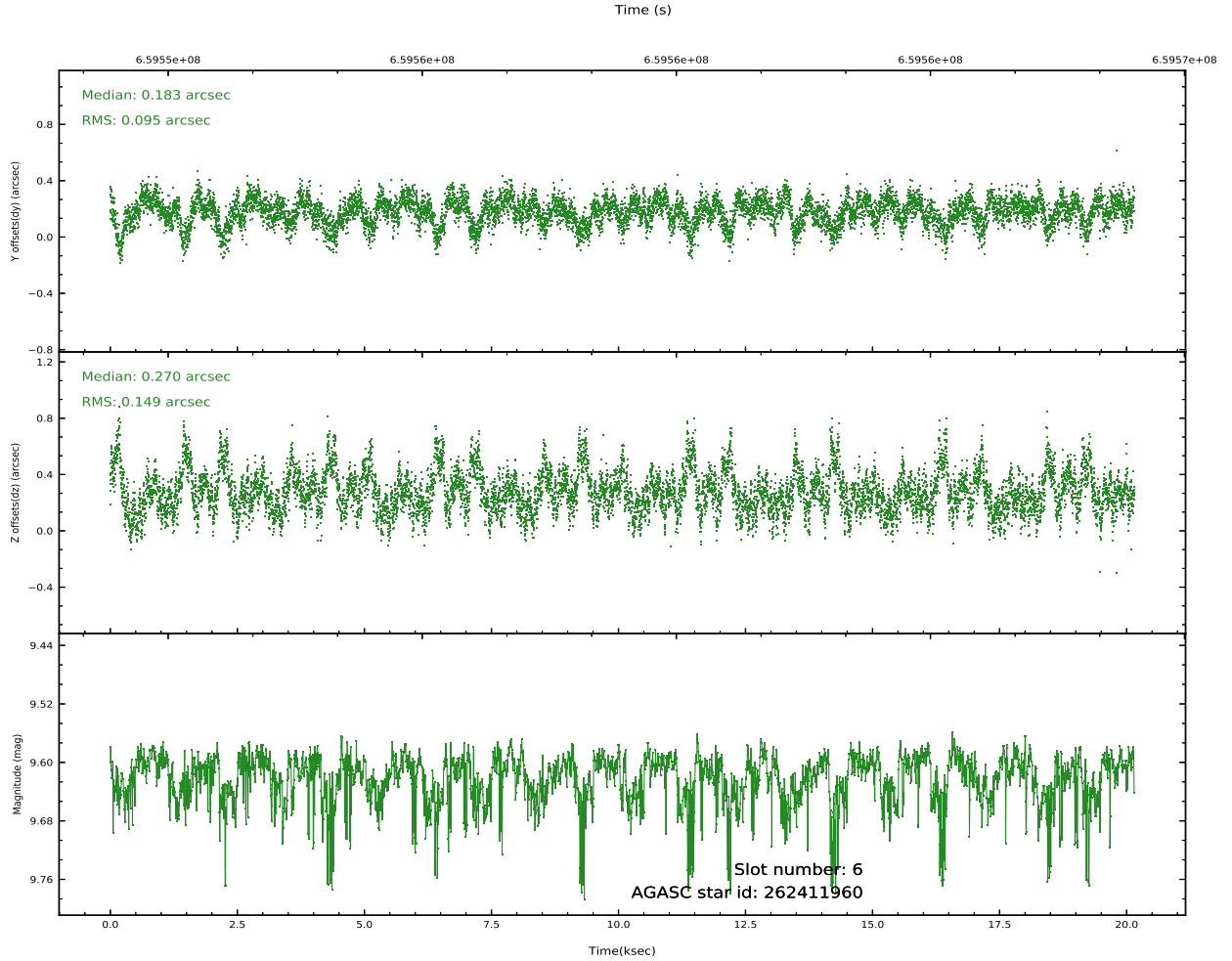
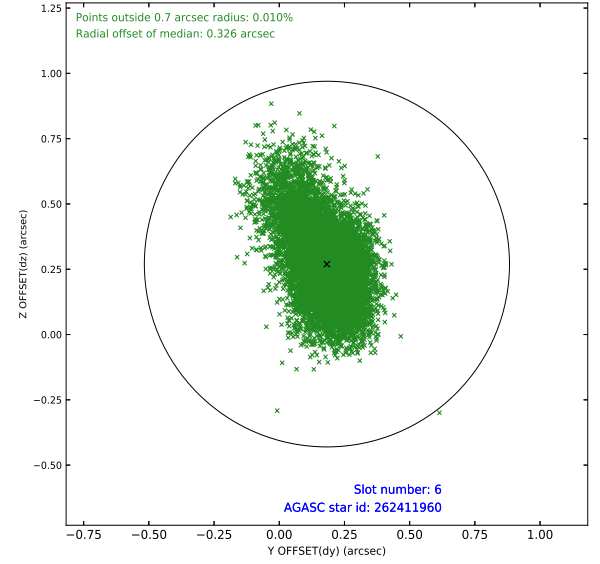
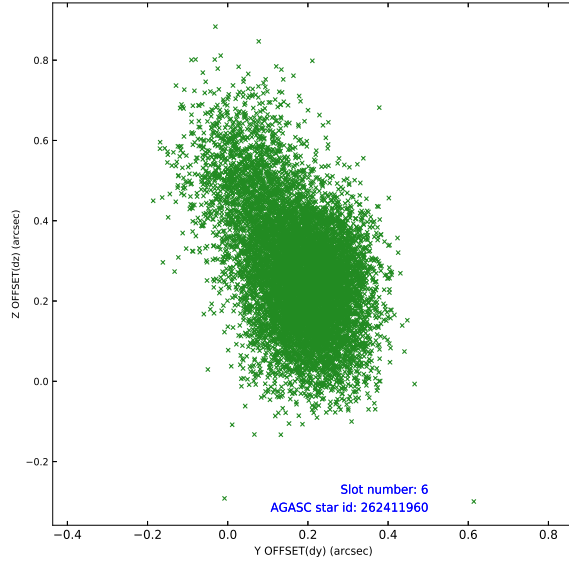
2.4.2 Slot 4



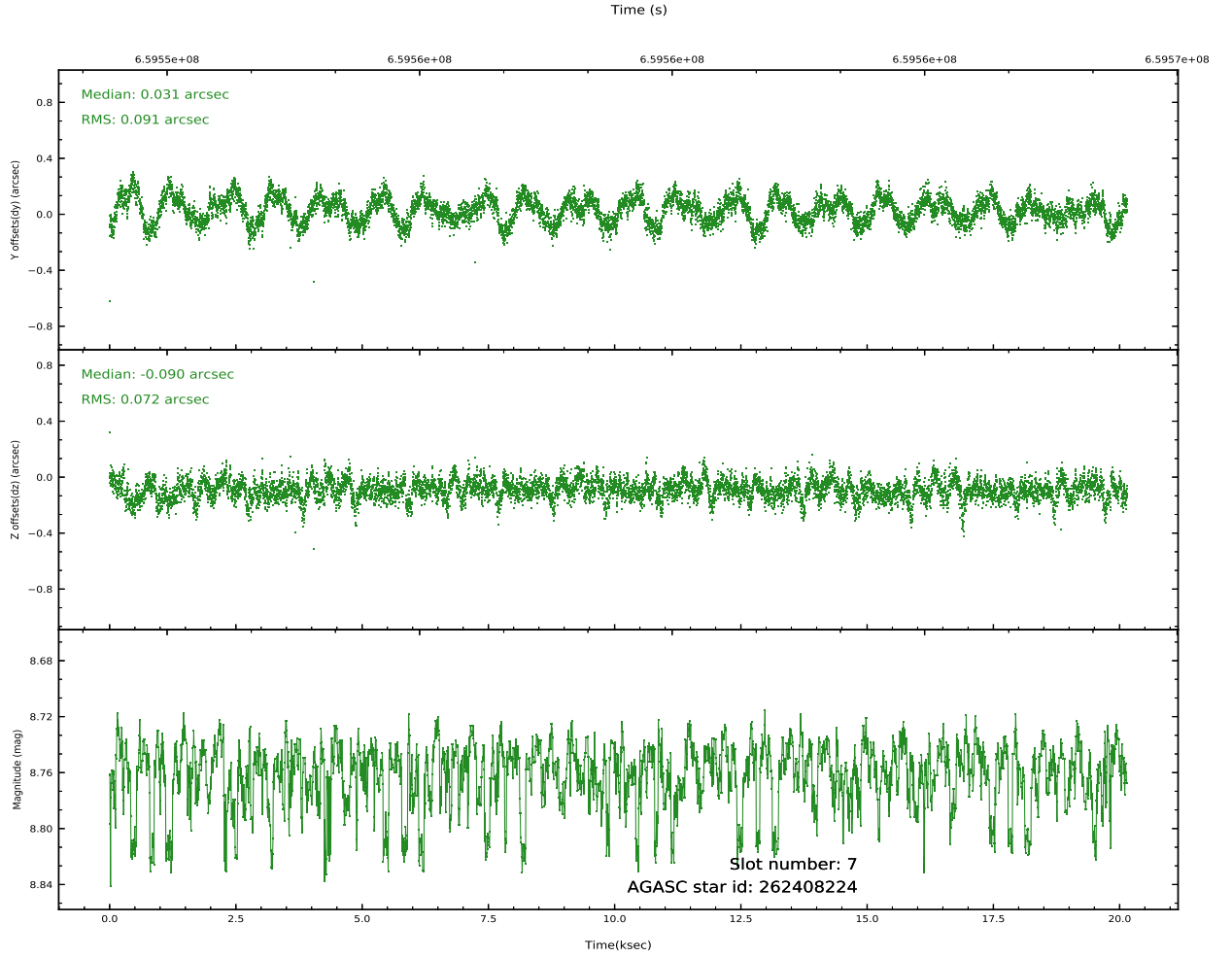
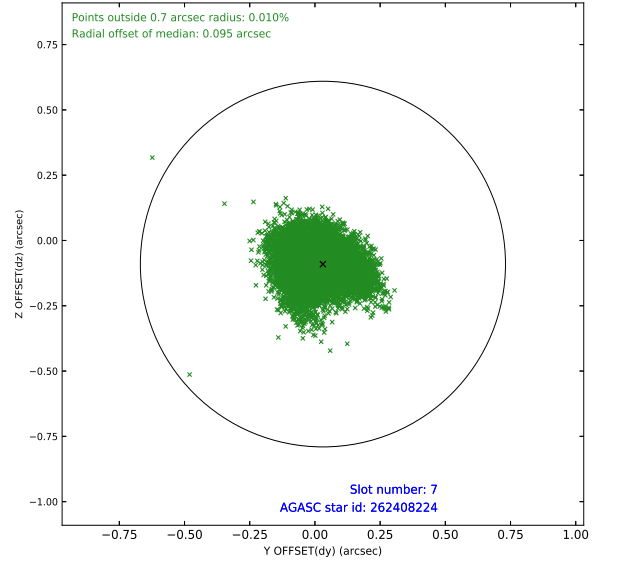
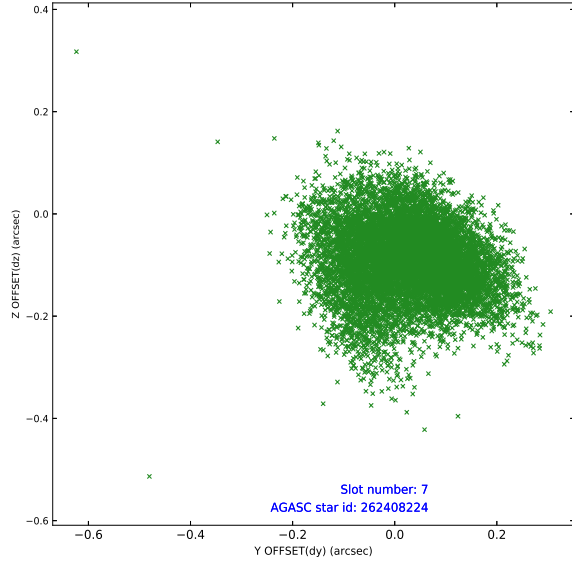
2.4.3 Slot 5



2.4.4 Slot 6

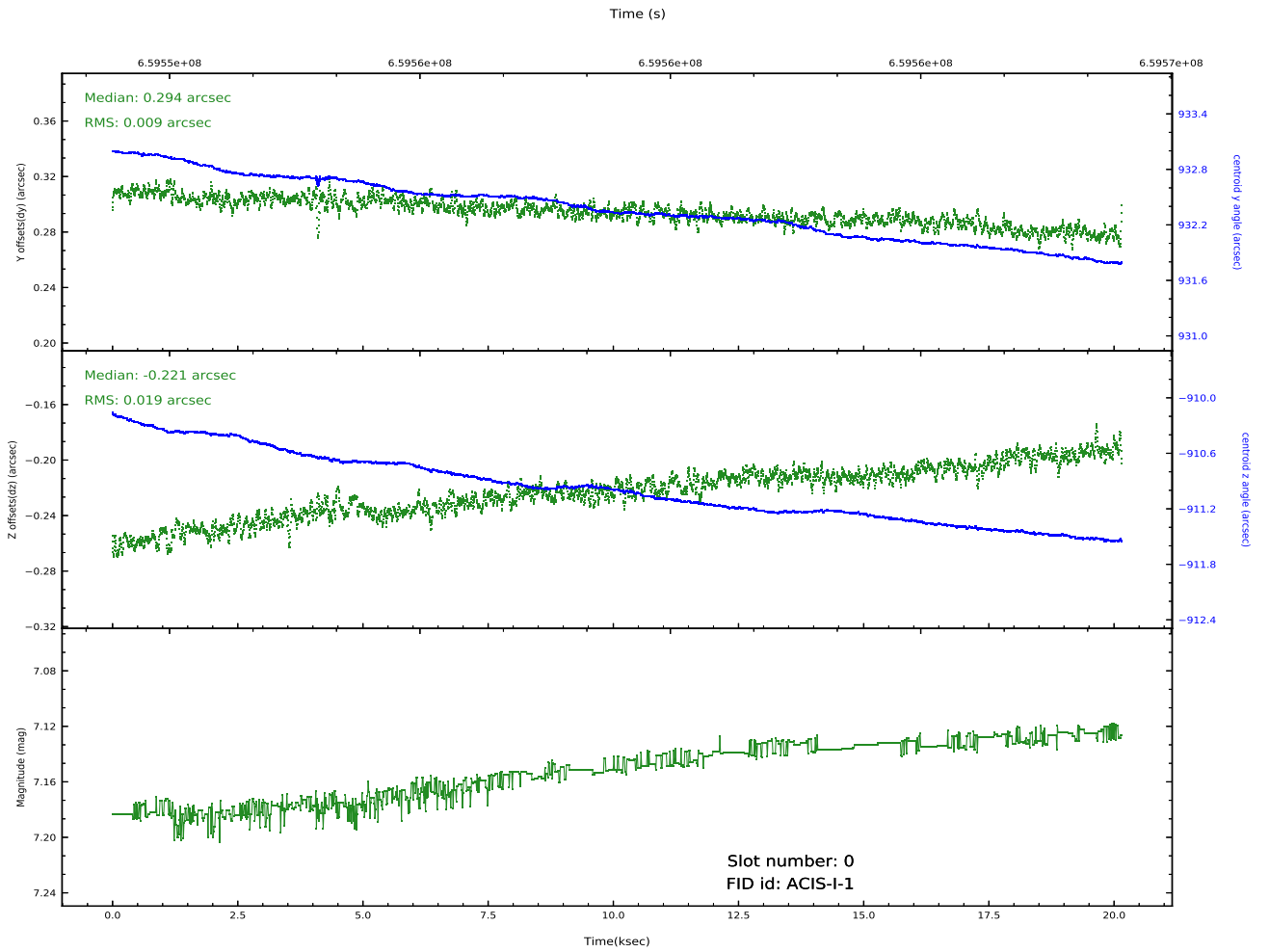
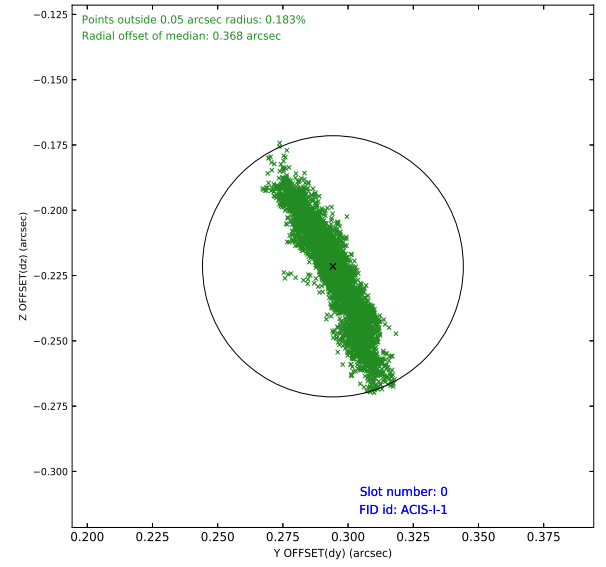
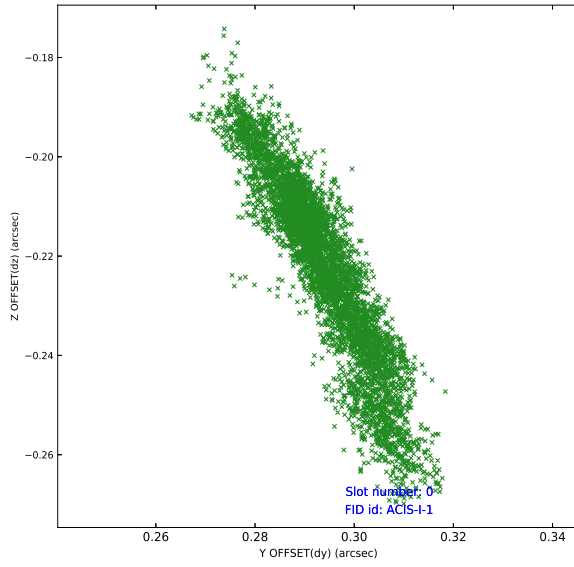


2.4.5 Slot 7

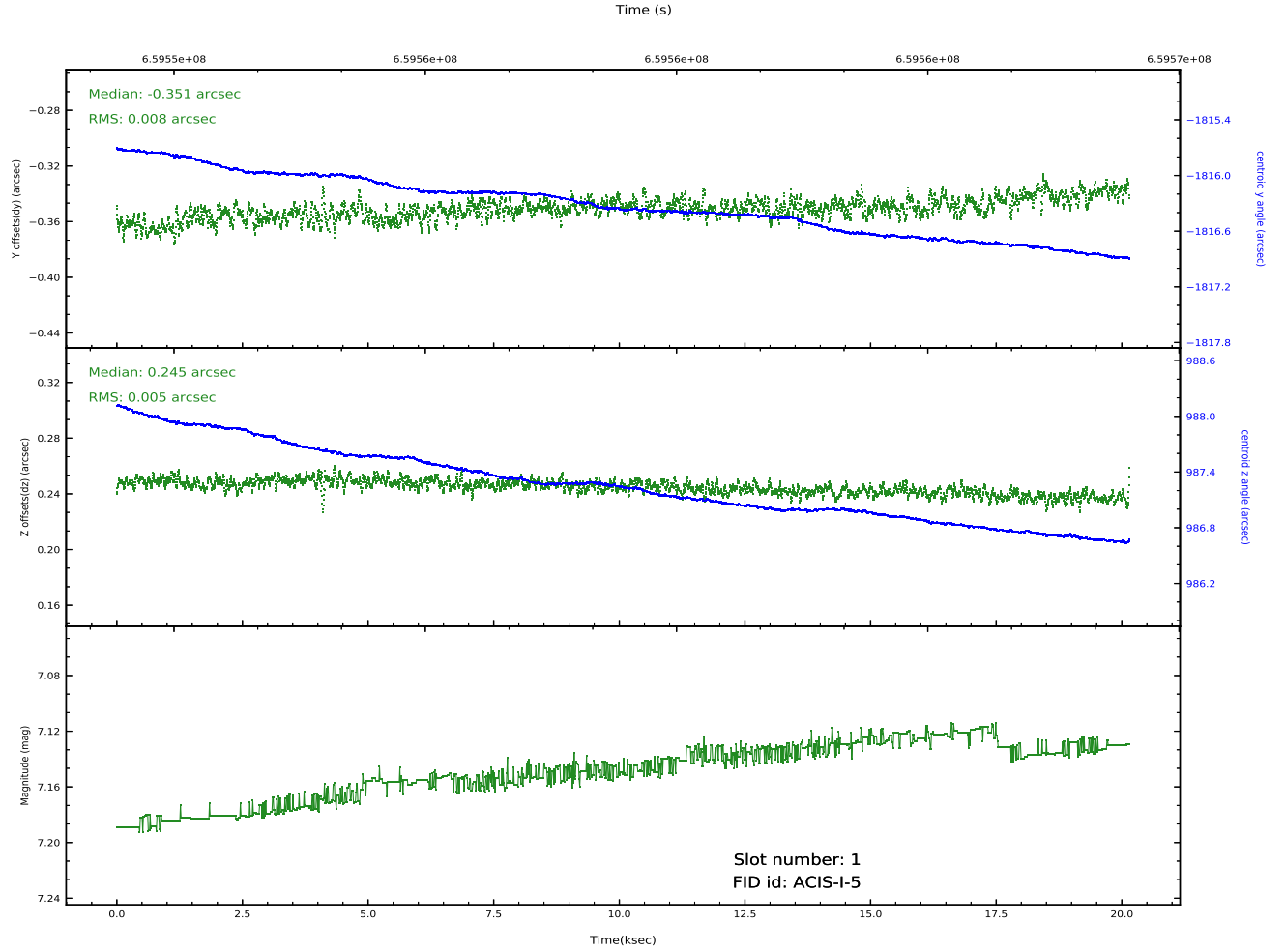
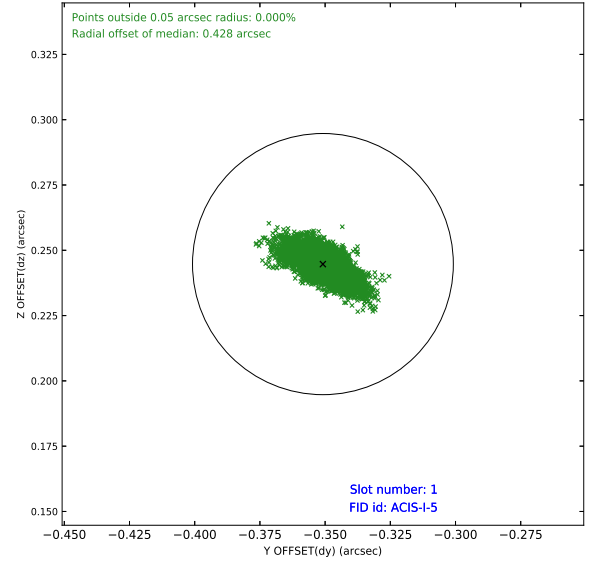
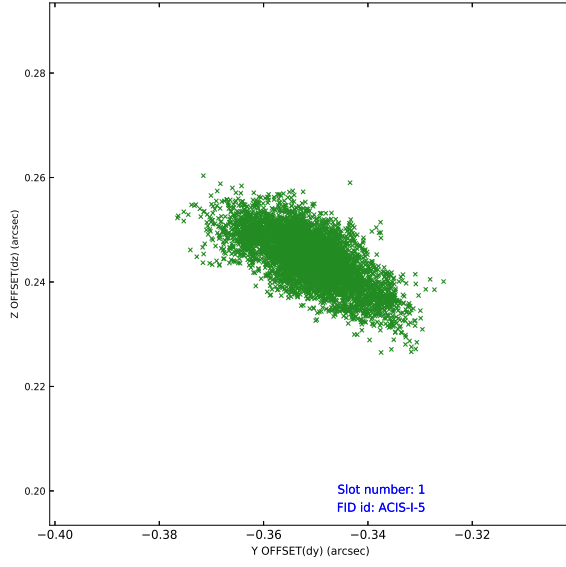


2.5 FID Slots

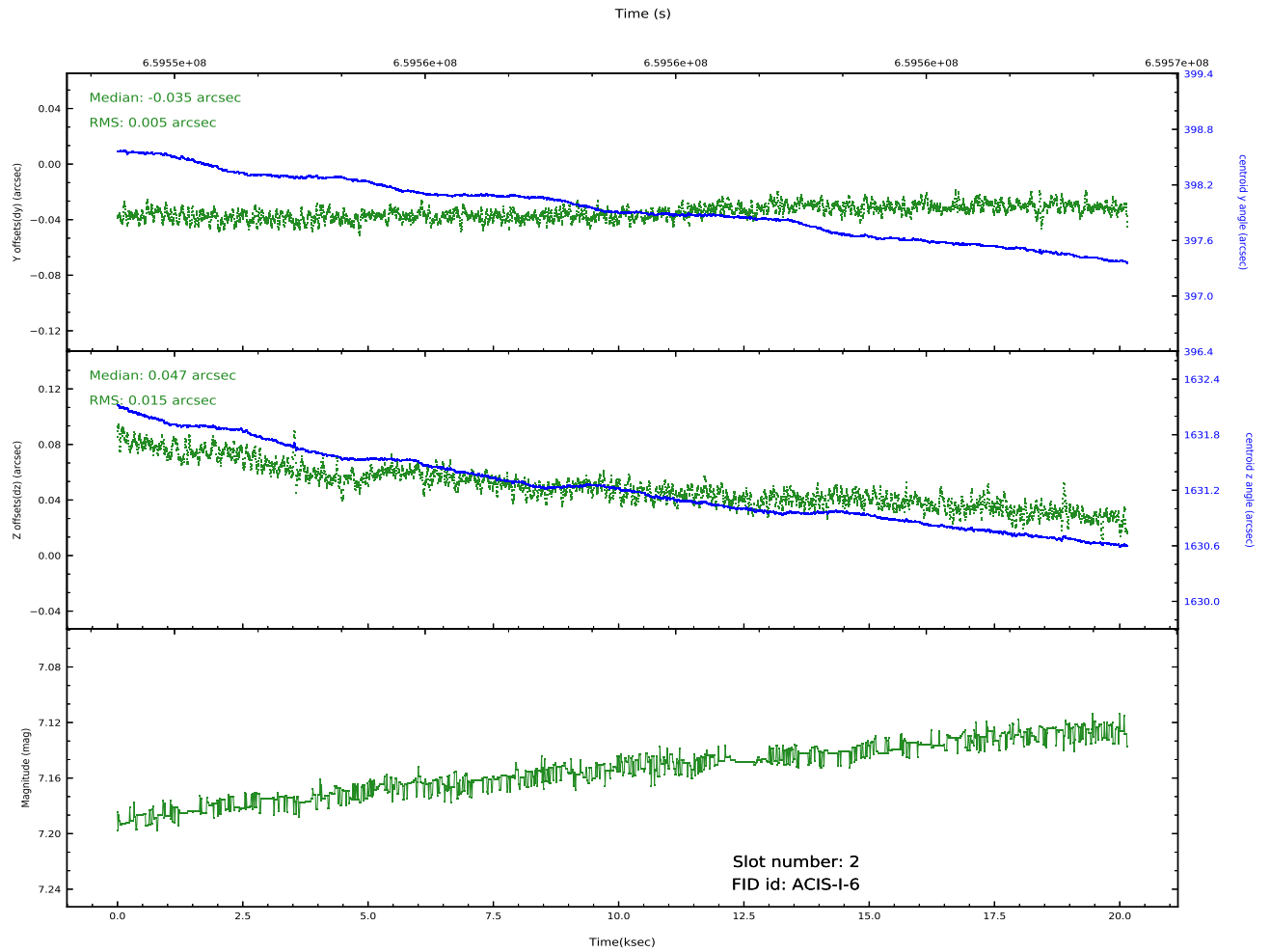
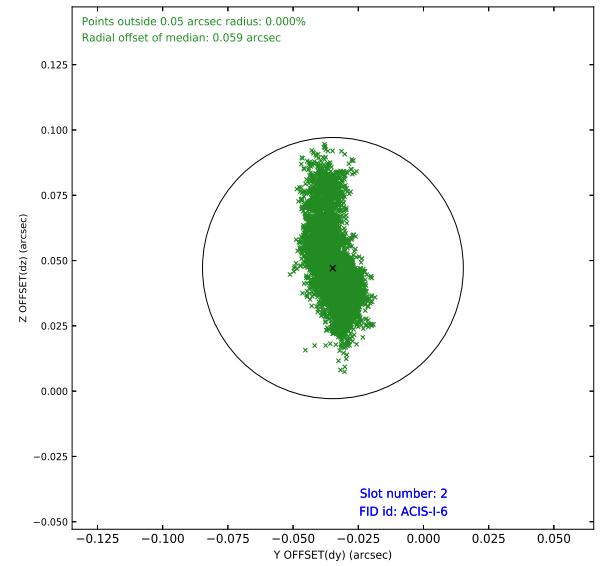
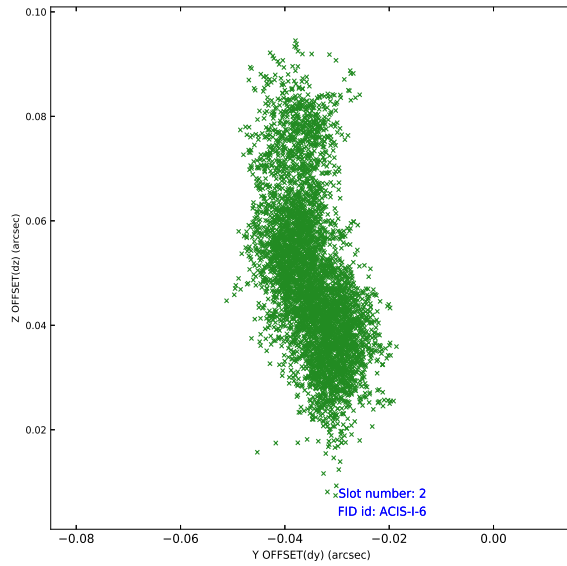
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Francesca Civano
V&V Date (YYYY-MM-DD)	2020.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.065458042979

A.2 Comments