

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20515 - L2 Version 2
Chandra X-Ray Center

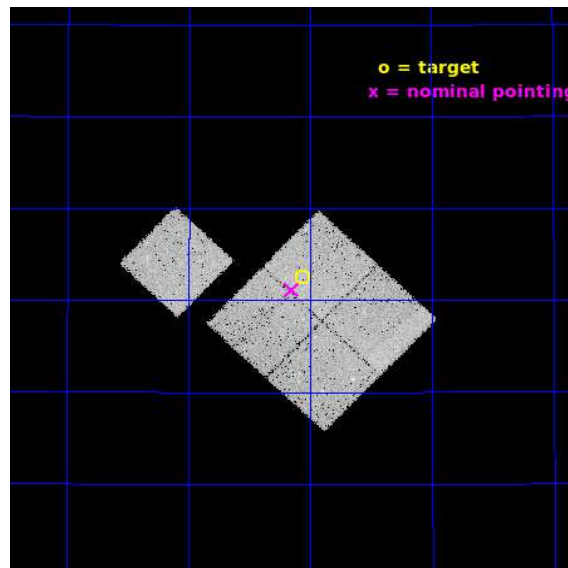
L2 Processing Date : Oct 24 2020

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

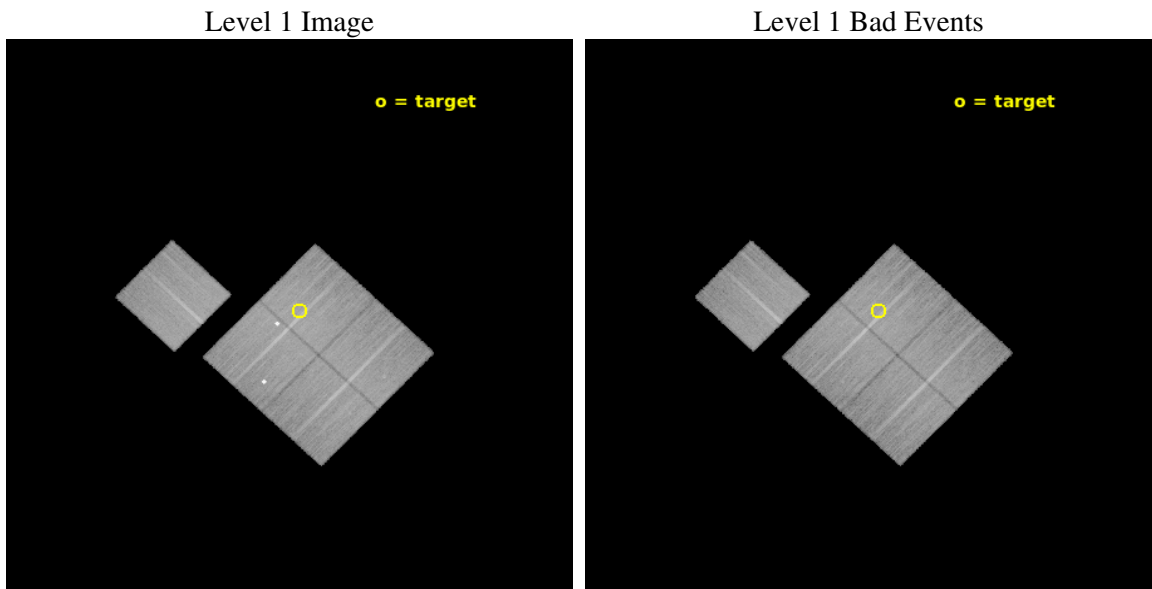
seq_num	801729	Sequence number
obs_id	20515	Observation id
title	Enabling precision cosmology with optically selected galaxy clusters	
observer	Roger Morris	Principal investigator
object	CIG J000008+320849	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.015417	Observer's specified target RA [deg]
dec_targ	32.209278	Observer's specified target Dec [deg]
ra_nom	0.037886341723805	Nominal RA [deg]
dec_nom	32.186214870656	Nominal Dec [deg]
roll_nom	313.6969849715	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25062.720288634	Sum of GTIs [s]
livetime	24735.257397157	Livetime [s]
ontime0	25059.456198454	Sum of GTIs [s]
ontime1	25056.356128216	Sum of GTIs [s]
ontime2	25062.679248691	Sum of GTIs [s]
ontime3	25062.720288634	Sum of GTIs [s]
ontime6	25059.415048361	Sum of GTIs [s]
l2events	86645	Number of level 2 events



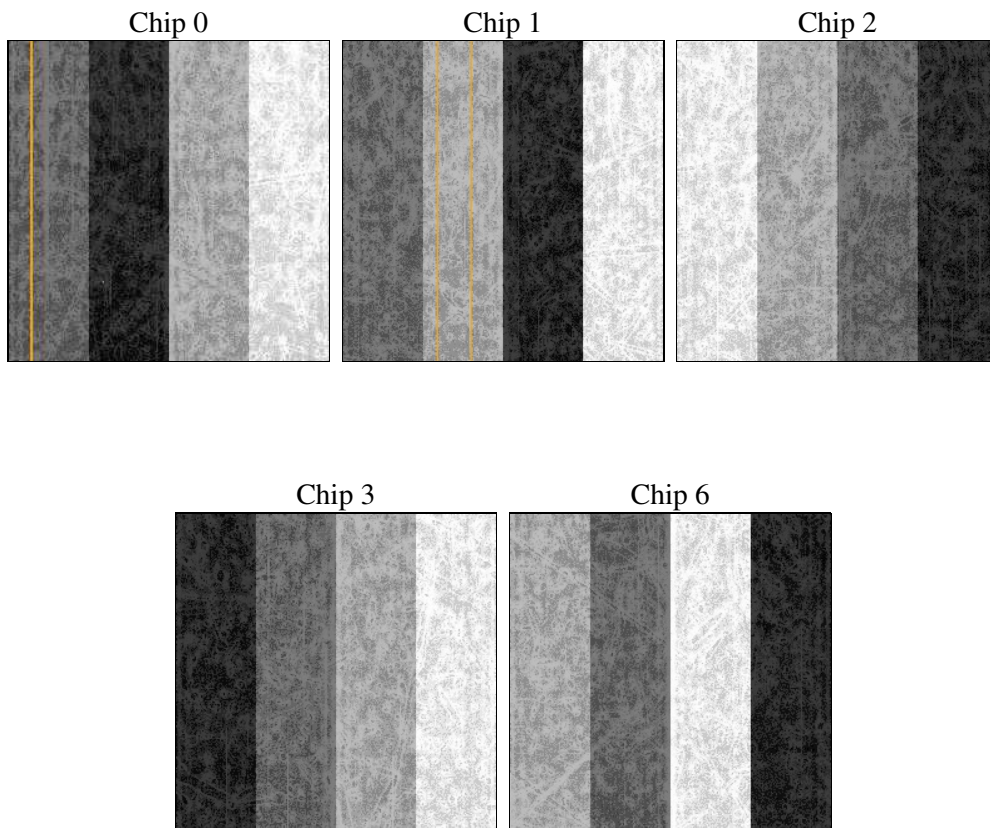
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	25062.720288634	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	25059.456198454	Sum of GTIs [s]
date	2020-10-24T14:37:40	Date and time of file creation	ontime1	25056.356128216	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	25062.679248691	Sum of GTIs [s]
			ontime3	25062.720288634	Sum of GTIs [s]
			ontime6	25059.415048361	Sum of GTIs [s]
			l1events	939204	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	174192	176887	206171	192244	189710
rejected events	153823	154266	171206	172097	169212
rejected %	88%	87%	83%	89%	89%

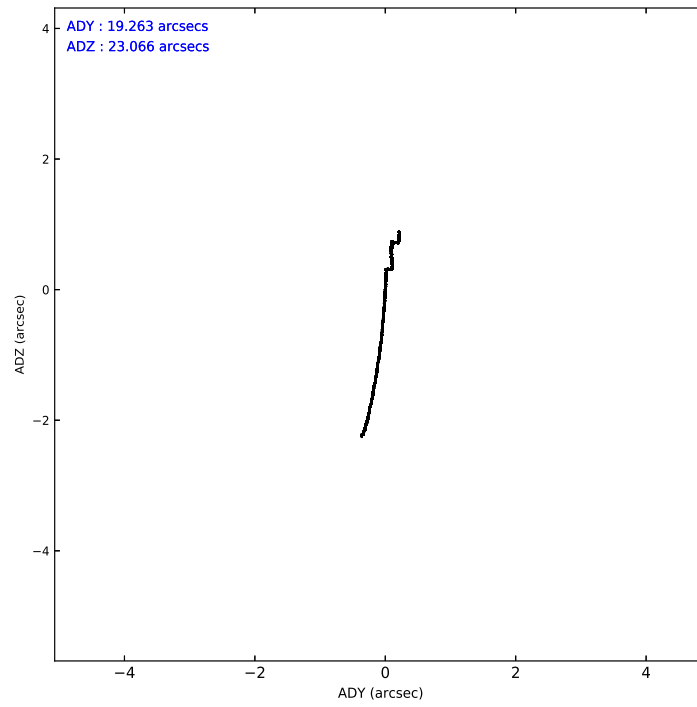
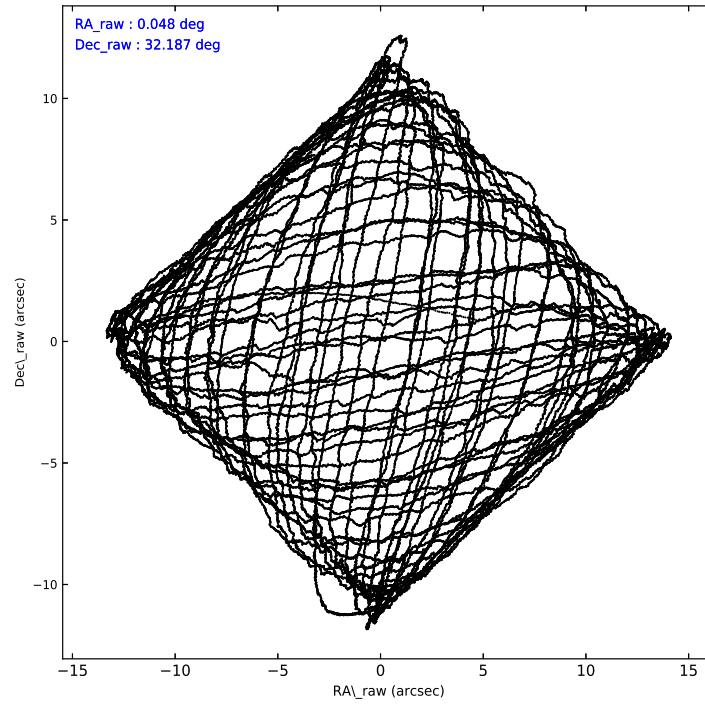
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	6951	7346	14842	7679	6446
	3%	4%	7%	3%	3%
grade 1 events	88	68	165	98	75
	0%	0%	0%	0%	0%
grade 2 events	5271	6076	12347	4321	5260
	3%	3%	5%	2%	2%
grade 3 events	2065	2068	1850	1966	1866
	1%	1%	0%	1%	0%
grade 4 events	1840	2010	2006	2010	1925
	1%	1%	0%	1%	1%
grade 5 events	7681	8034	7111	8595	8003
	4%	4%	3%	4%	4%
grade 6 events	4245	5125	3928	4176	5007
	2%	2%	1%	2%	2%
grade 7 events	146051	146160	163922	163399	161128
	83%	82%	79%	84%	84%

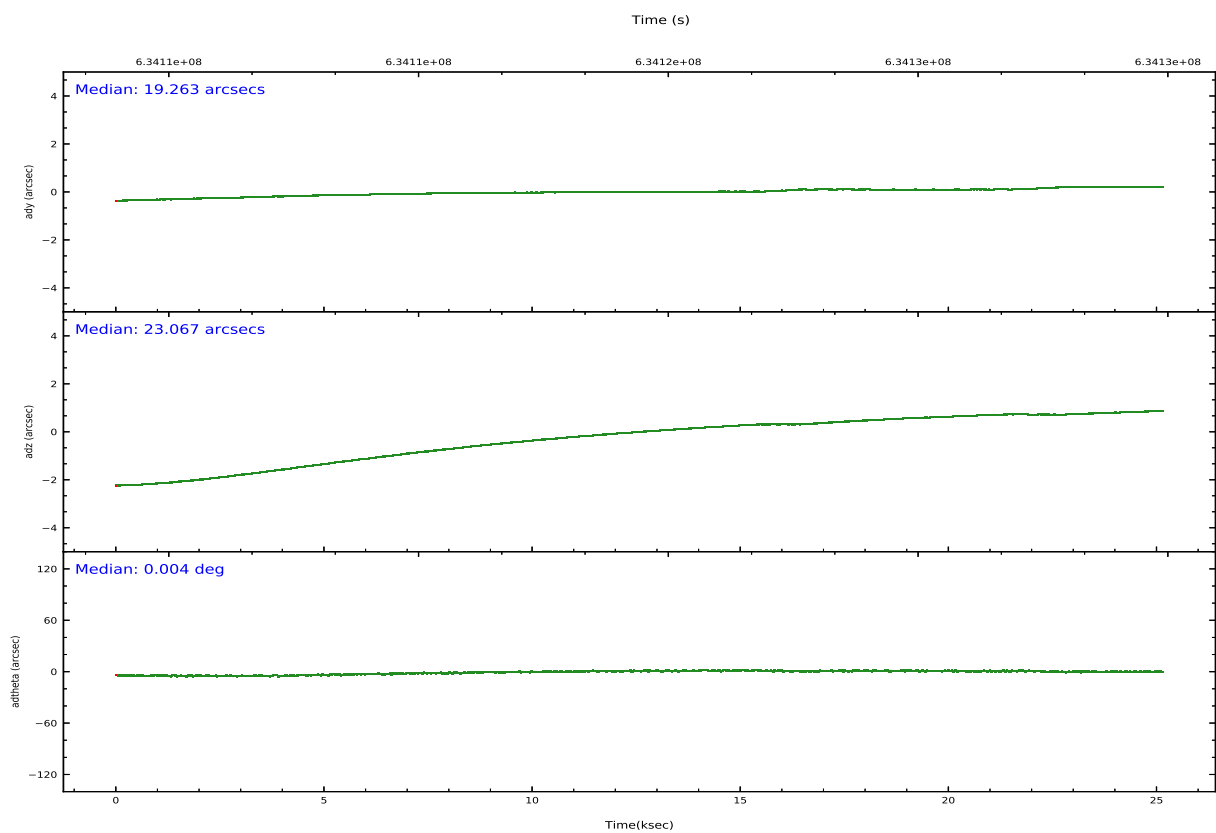
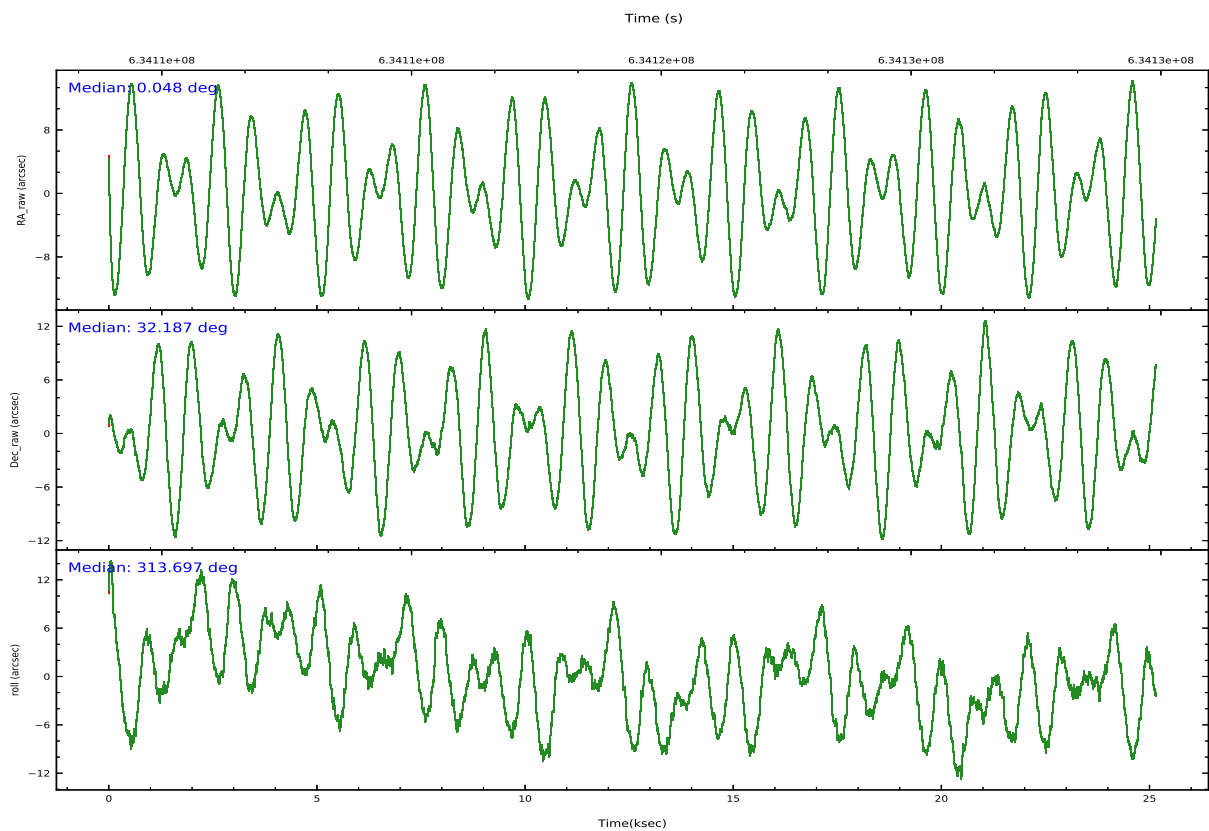
2.2 Compared Parameters

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	0.016713	0.037886341723805
[deg] Pointing Dec	32.194329	32.186214870656
[deg] Pointing Roll	313.515529	313.6969849715
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-221.592463	-221.6016934182922
[mm] SIM translation stage offset	-12	-11.99075958463752
[s] Observation start time (MET)	634106887.184000	634105668.18837
Observation start date	2018-02-04T04:46:58	2018-02-04T04:27:48
[s] Observation end time (MET)	634131887.184000	634132864.5149699
Observation end date	2018-02-04T11:43:38	2018-02-04T12:01:04
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



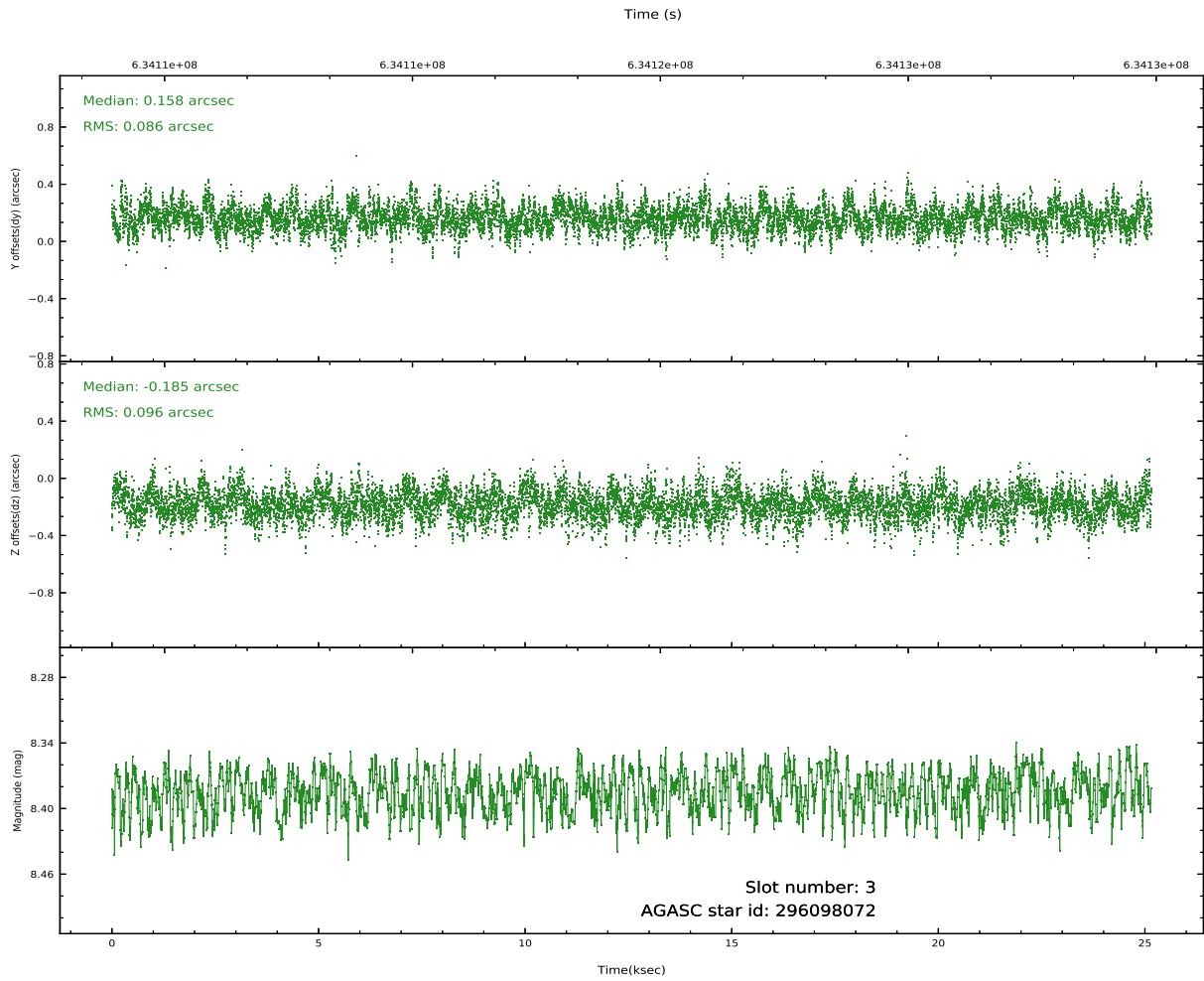
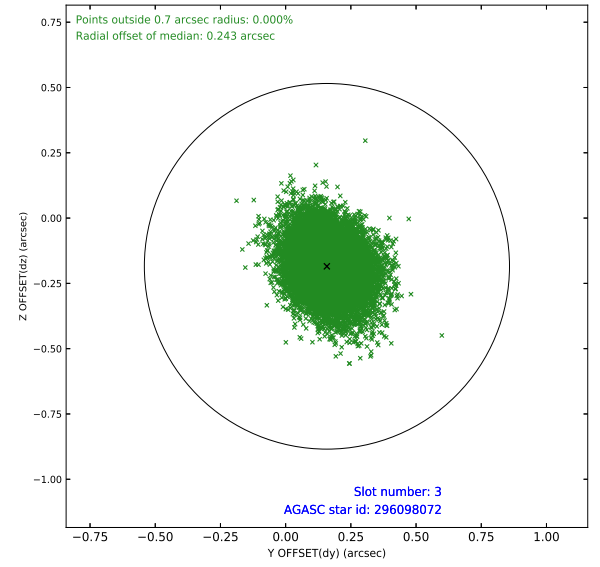
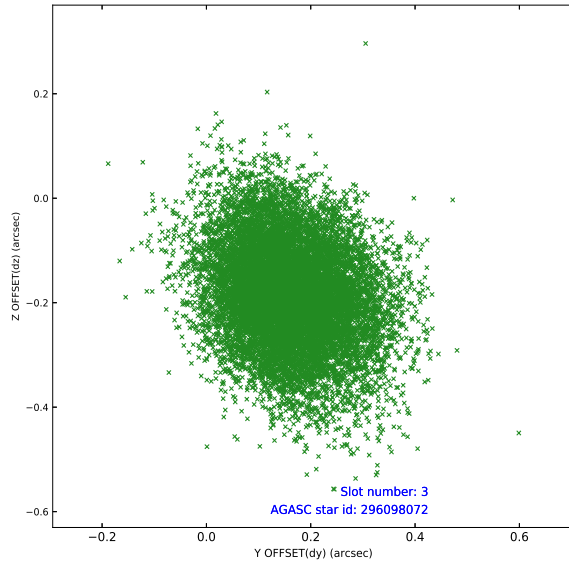


Slot Statistics

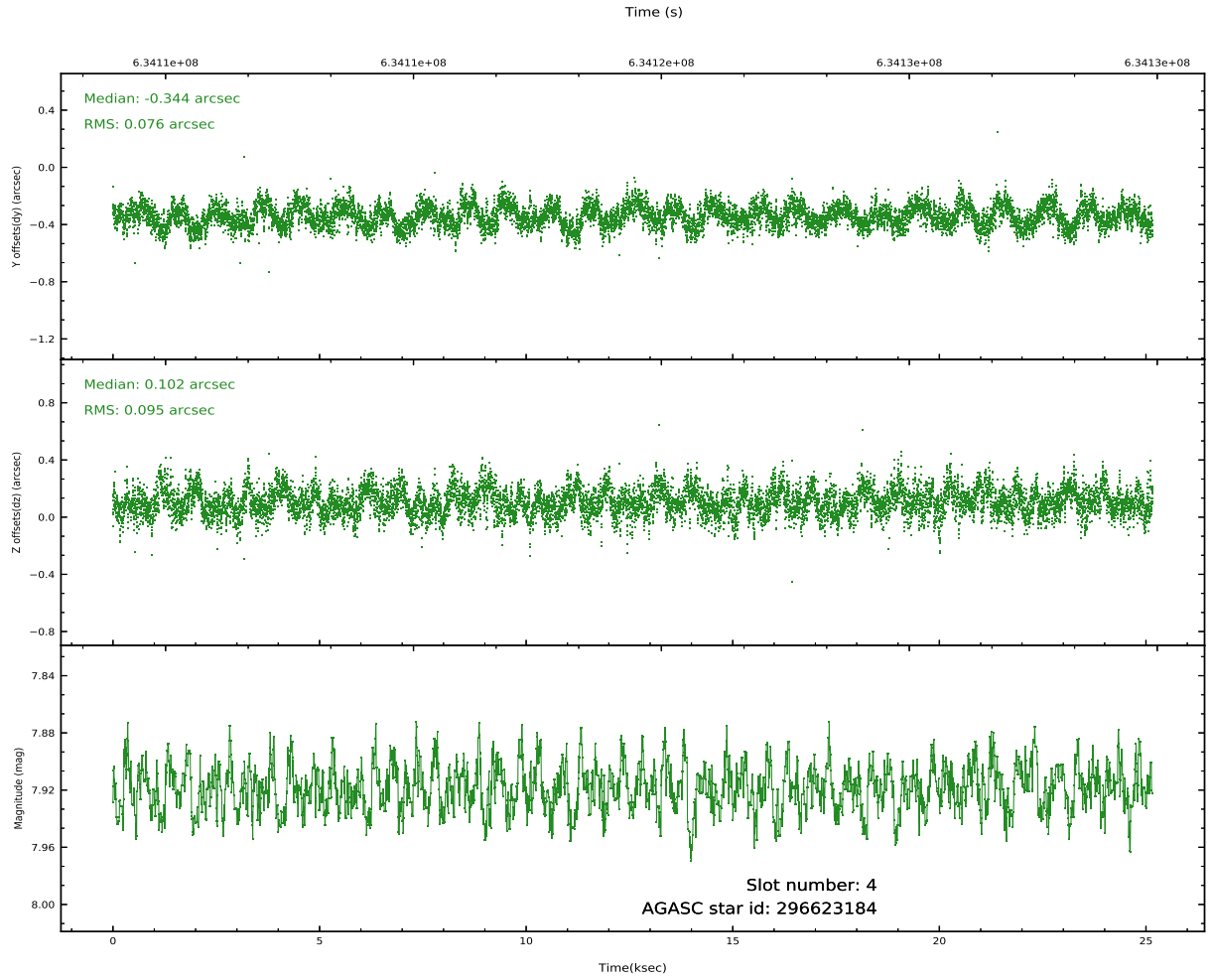
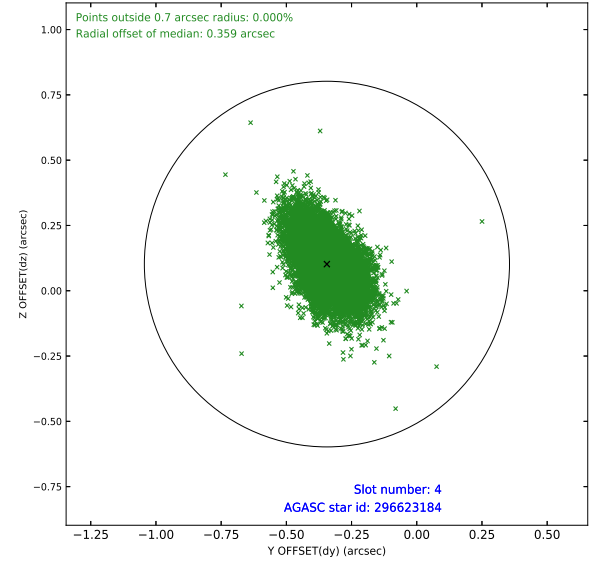
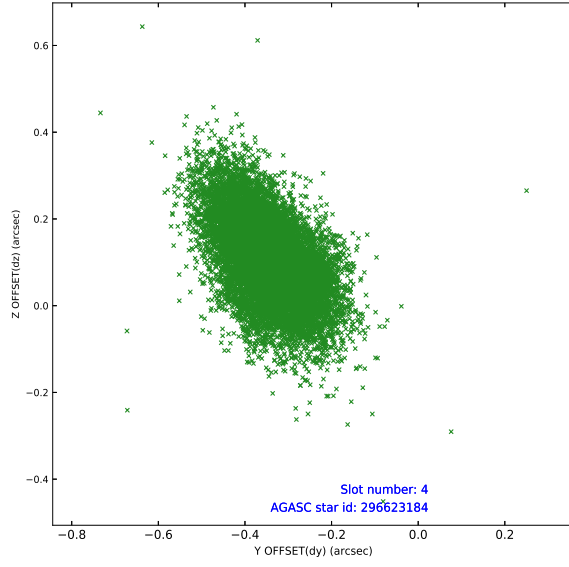
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.23	6137	1.000	0.371	-0.293	0.022	0.082	0.000000	0.000000	920.12	-1093
1	FID		ACIS-I-5	7.22	6137	1.000	-0.449	0.284	0.019	0.029	0.000000	0.000000	-1828.55	805
2	FID		ACIS-I-6	7.26	6137	1.000	-0.013	0.079	0.030	0.061	0.000000	0.000000	385.42	1449
3	GUIDE	used	296098072	8.38	12268	1.000	0.158	-0.185	0.137	0.224	0.003367	31.532075	1701.73	-1670
4	GUIDE	used	296623184	7.92	12271	1.000	-0.344	0.102	0.125	0.215	0.228216	32.825647	-1207.98	2029
5	GUIDE	used	362810656	8.61	12263	1.000	0.112	-0.116	0.125	0.217	359.681397	31.656480	696.49	-2076
6	GUIDE	used	363335320	7.06	12274	1.000	-0.132	0.265	0.144	0.247	359.705155	32.381698	-1141.93	-221
7	GUIDE	used	296098360	8.84	12270	1.000	0.198	-0.066	0.134	0.226	0.774227	31.870084	2435.94	881

2.4 Star Slots

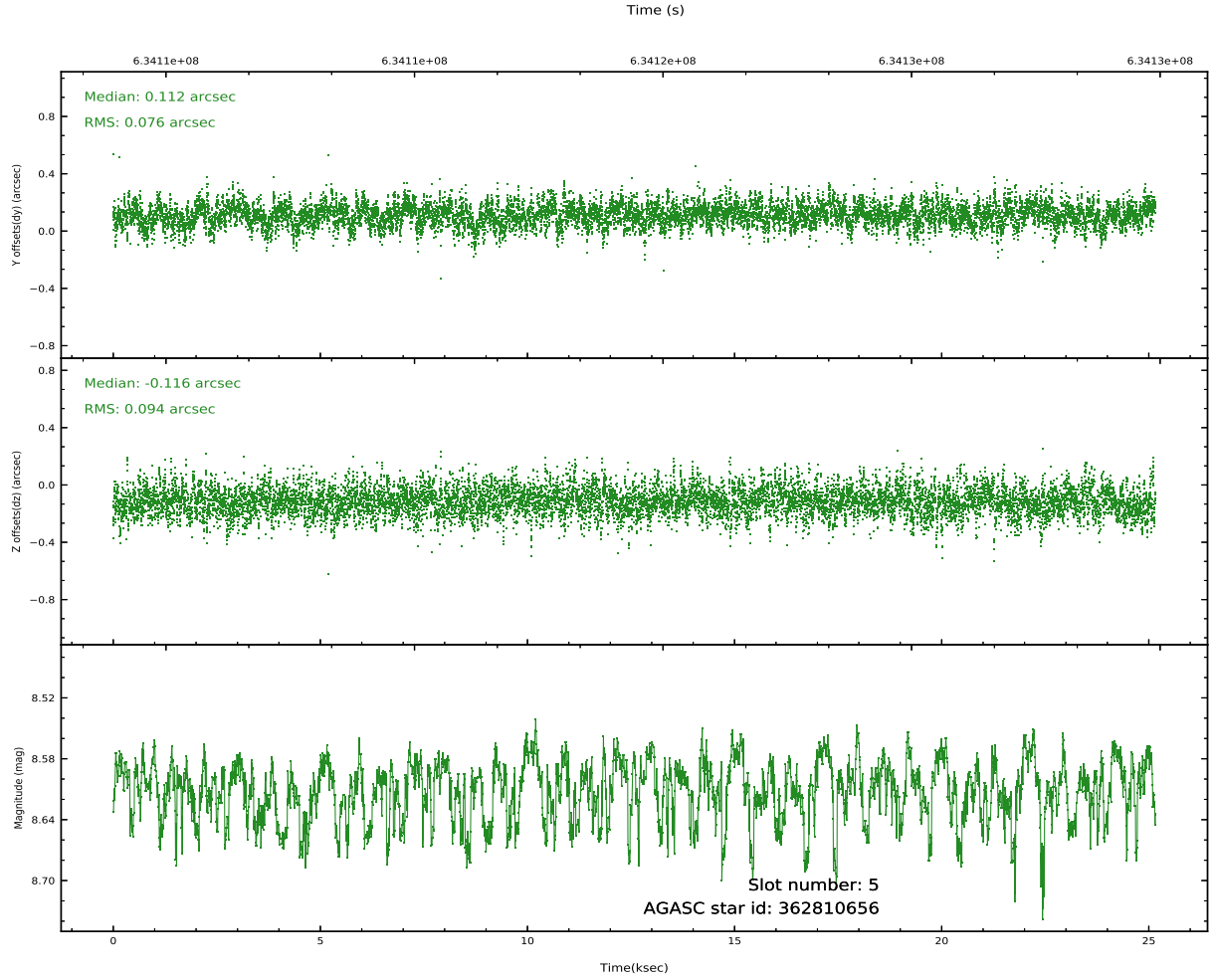
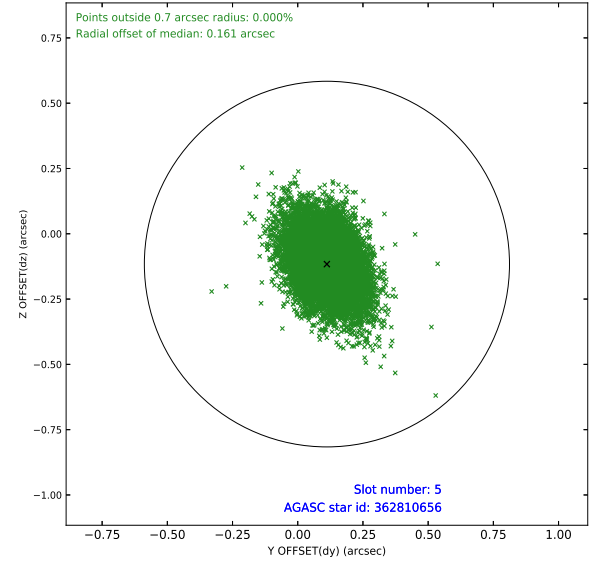
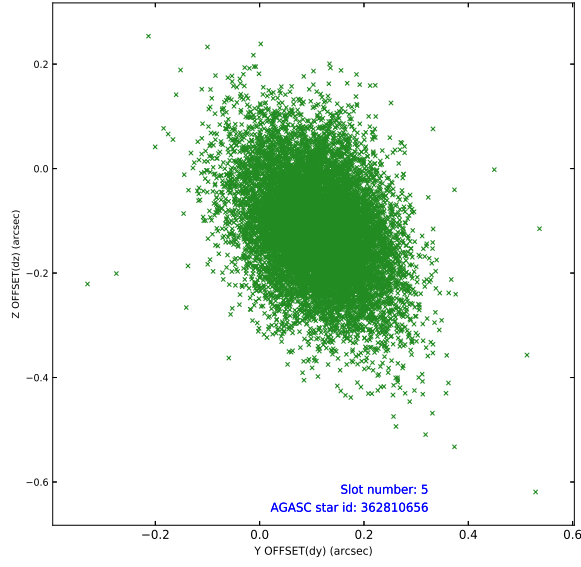
2.4.1 Slot 3



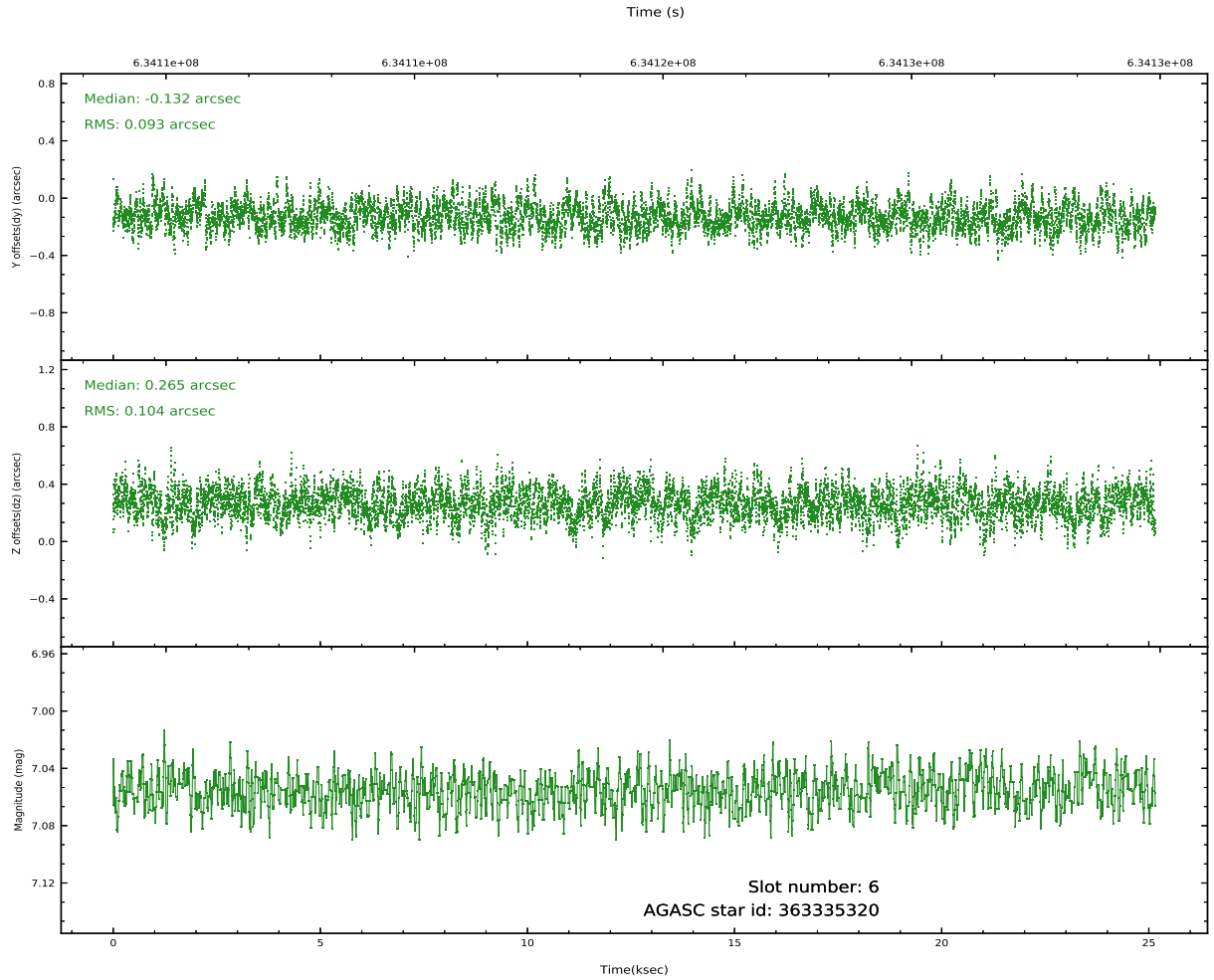
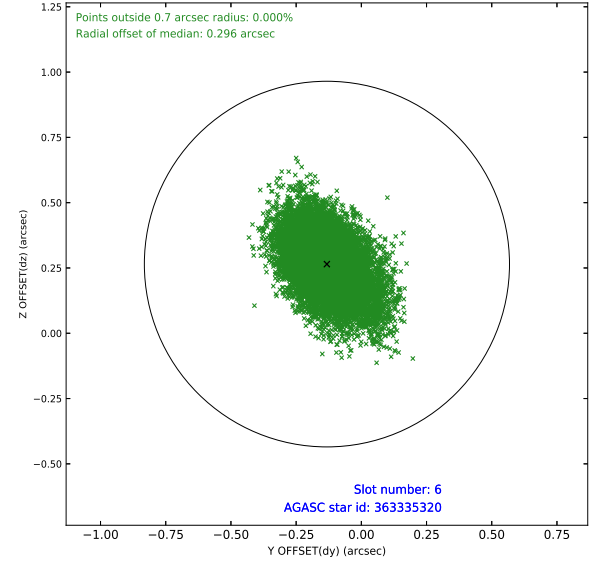
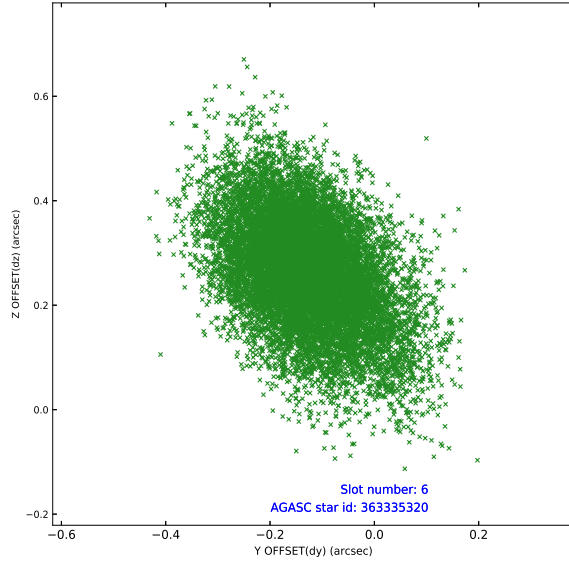
2.4.2 Slot 4



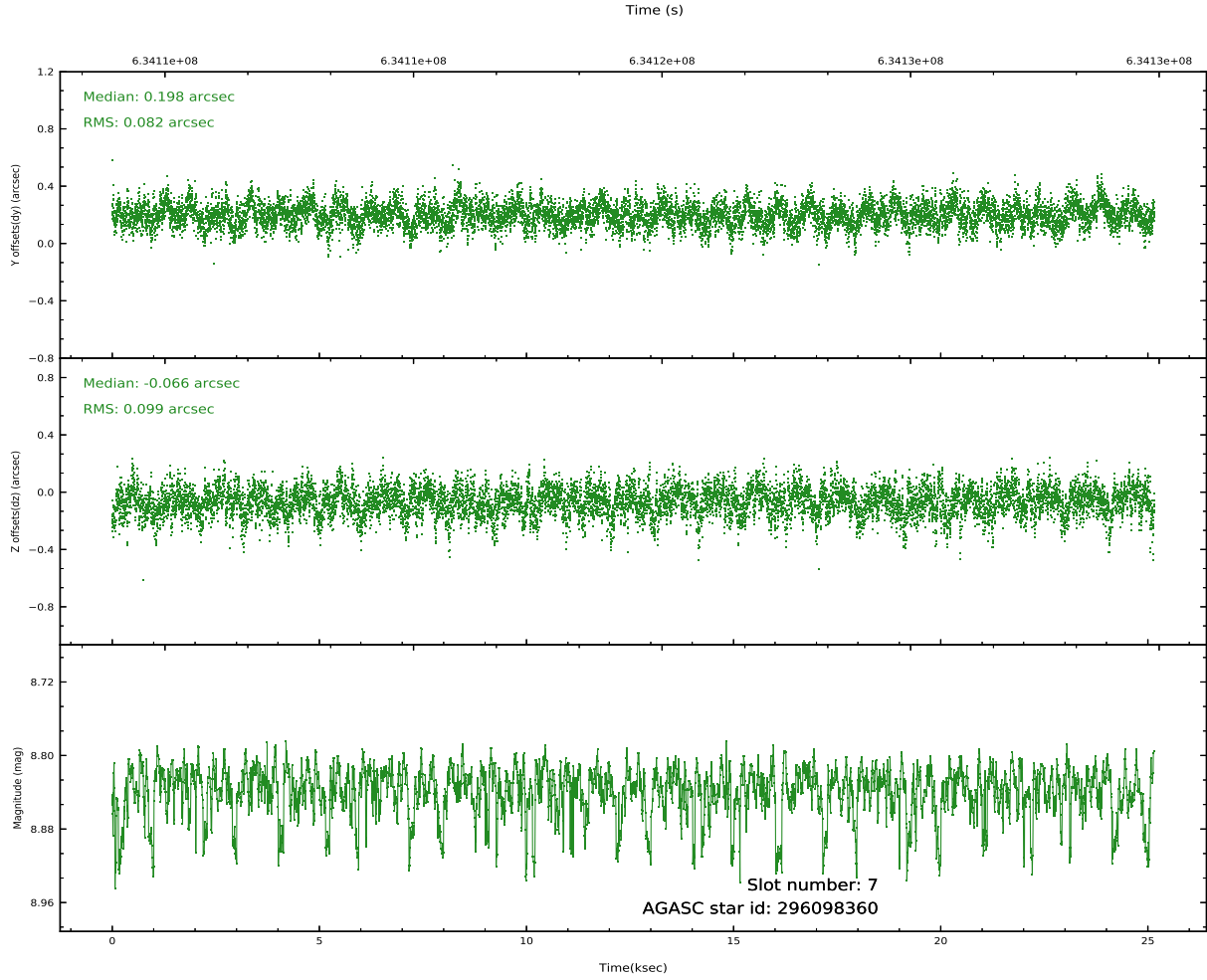
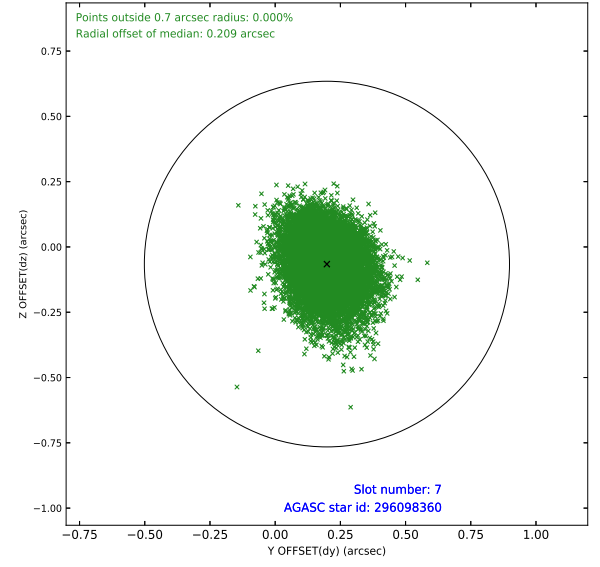
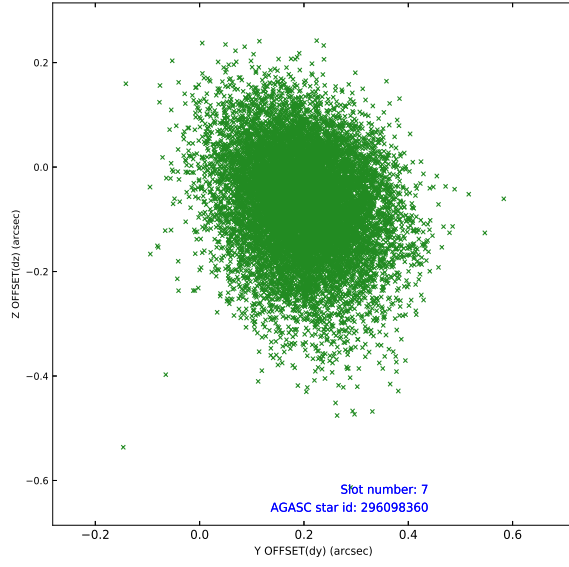
2.4.3 Slot 5



2.4.4 Slot 6

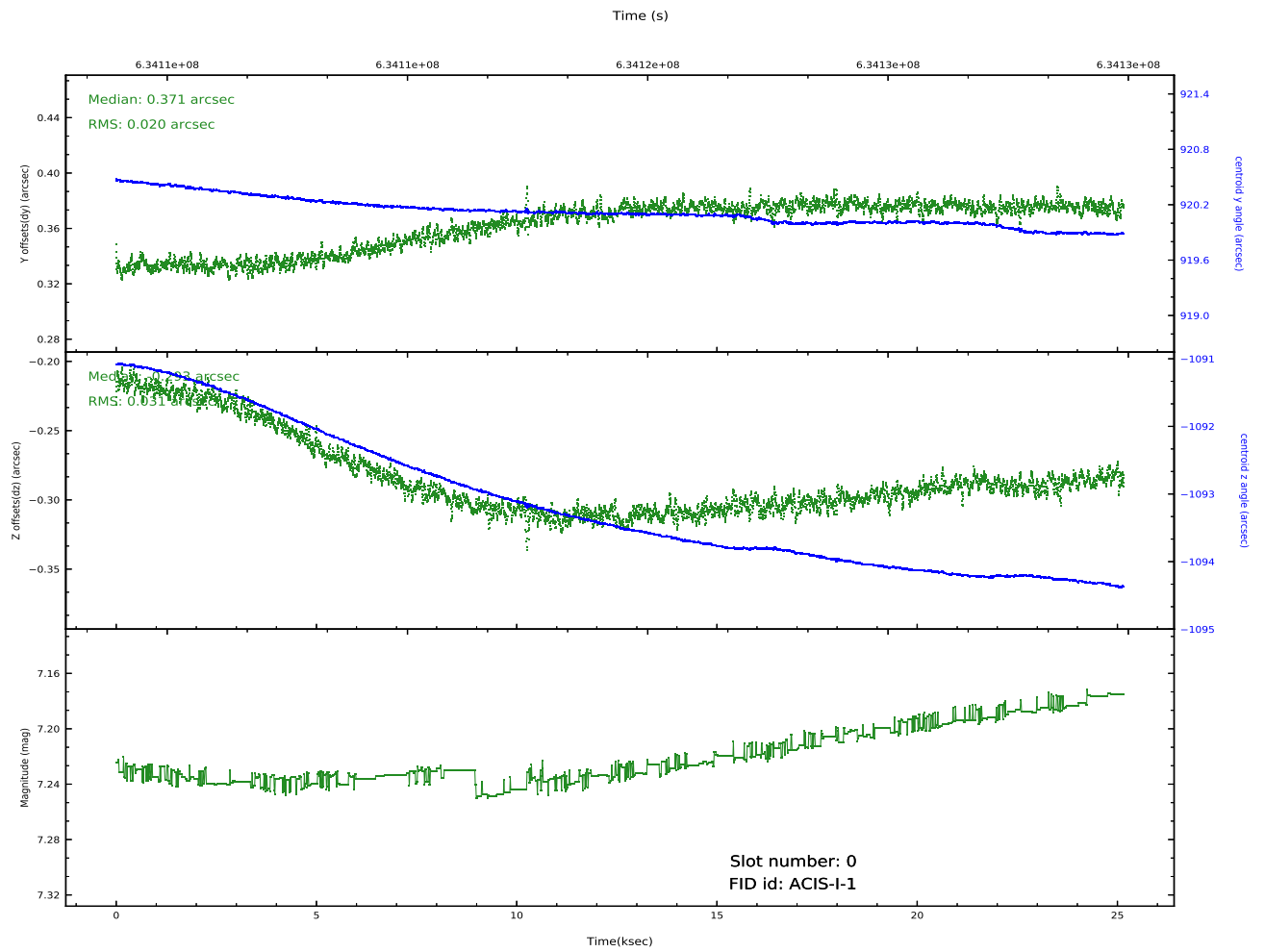
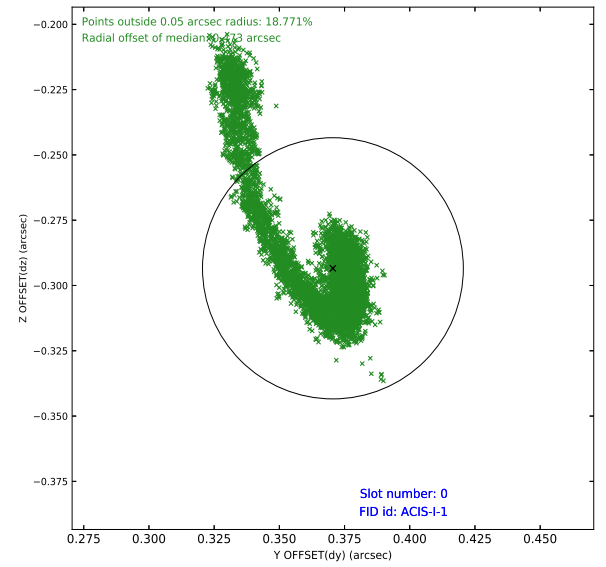
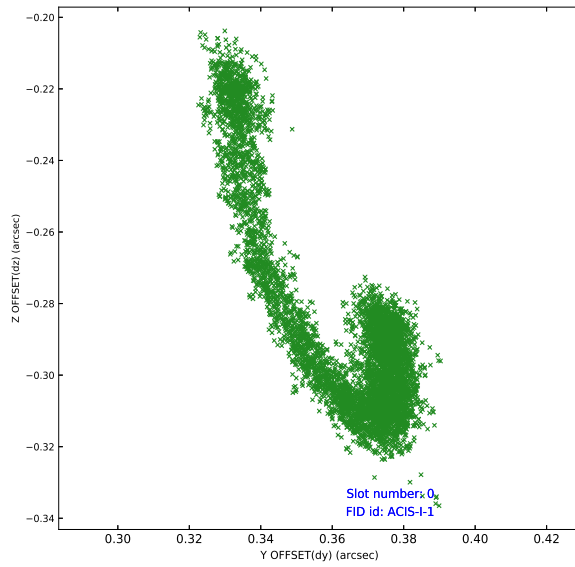


2.4.5 Slot 7

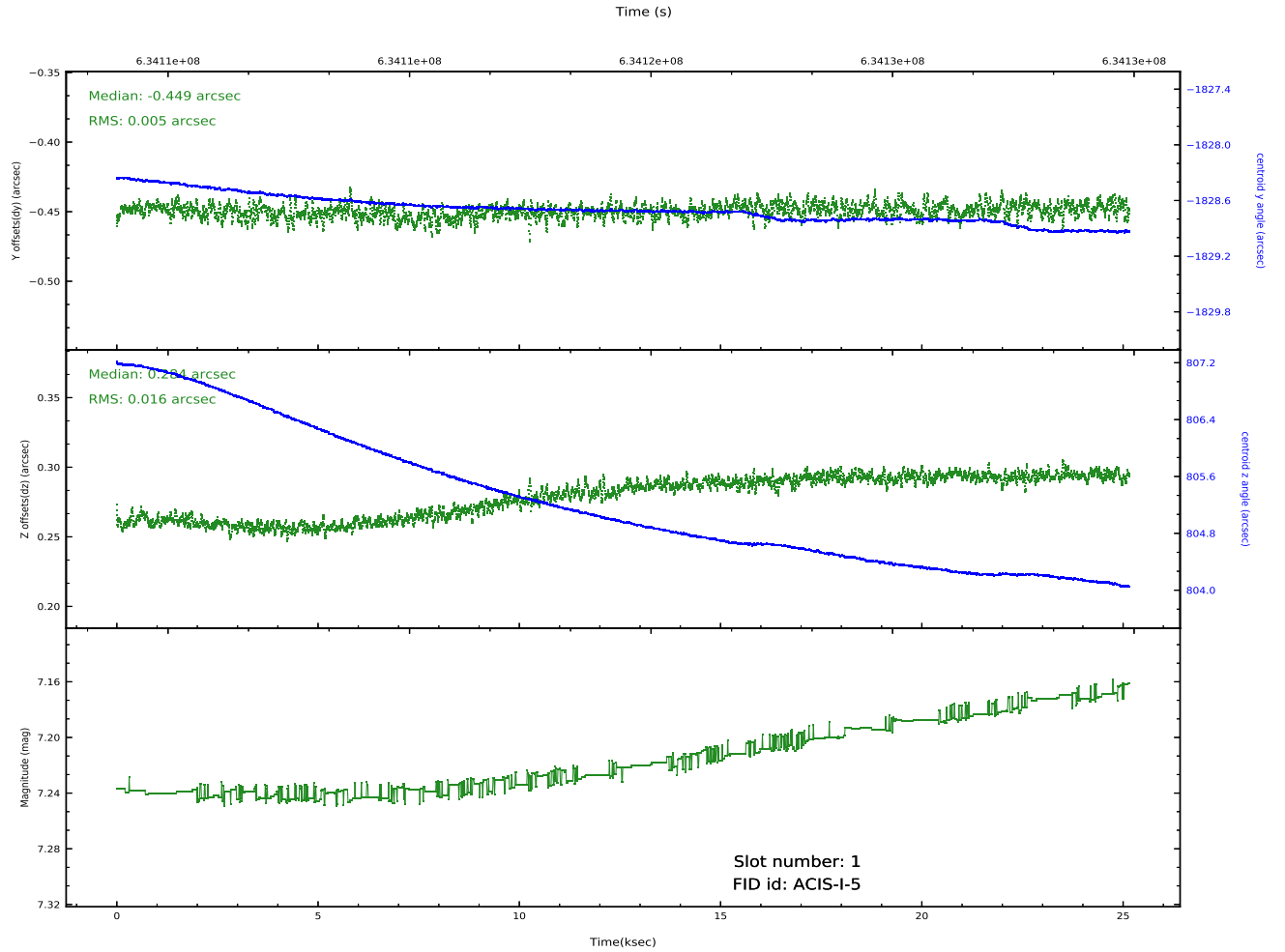
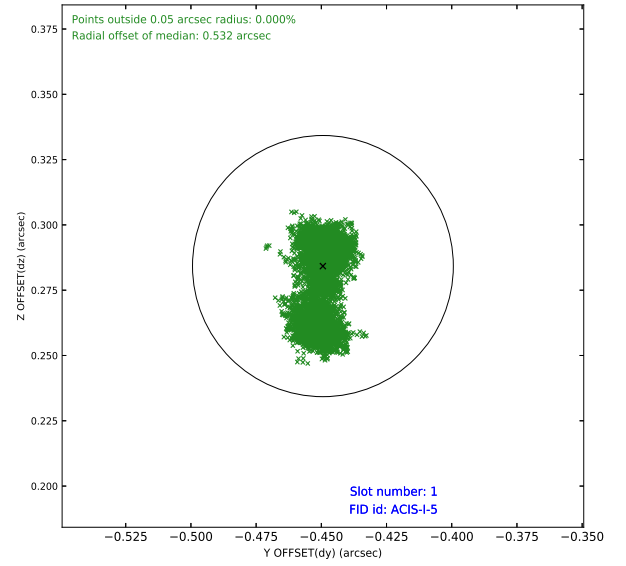
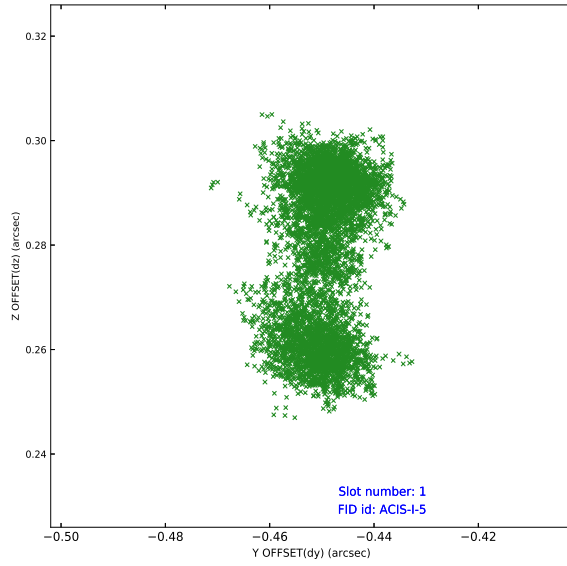


2.5 FID Slots

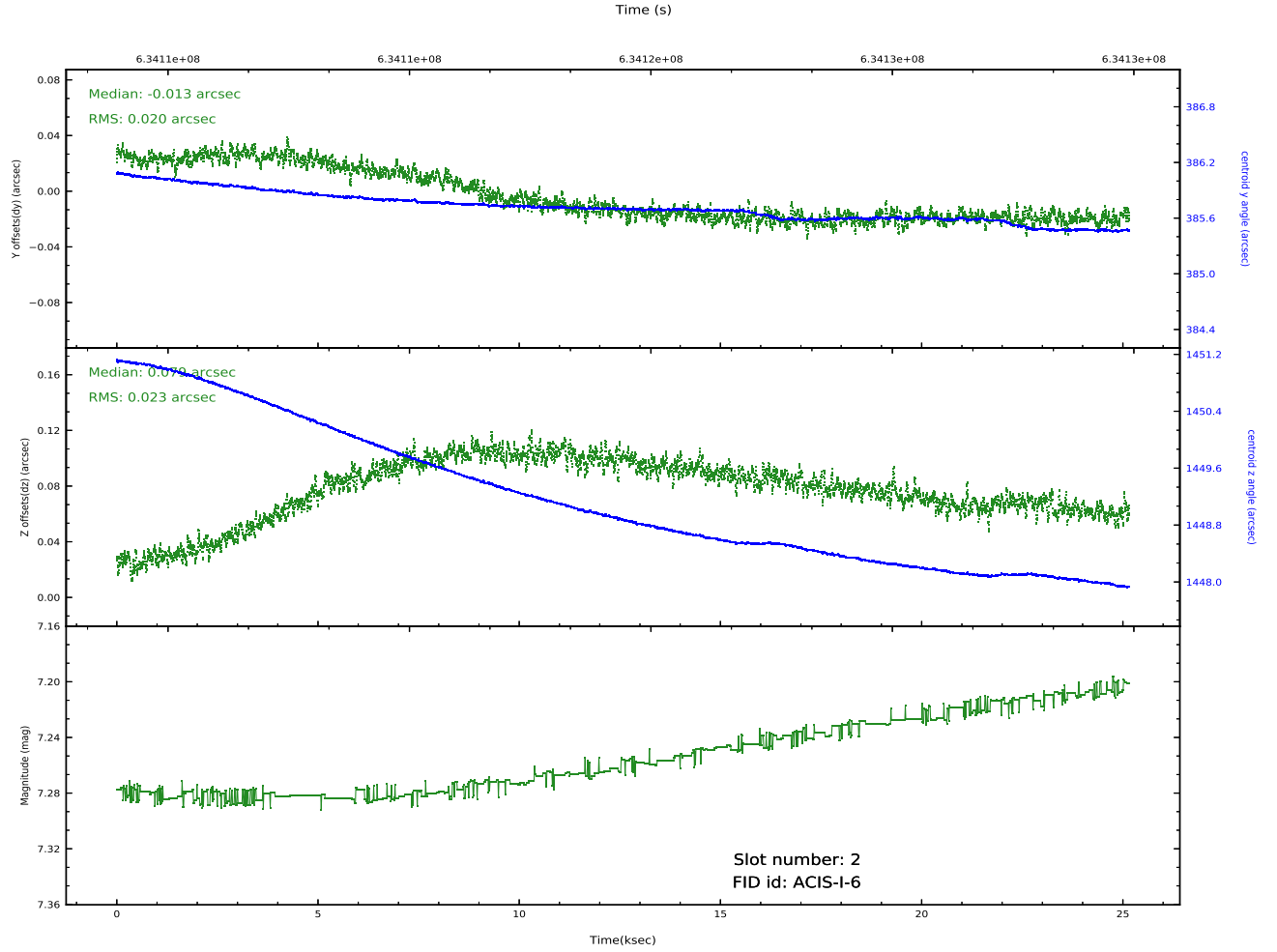
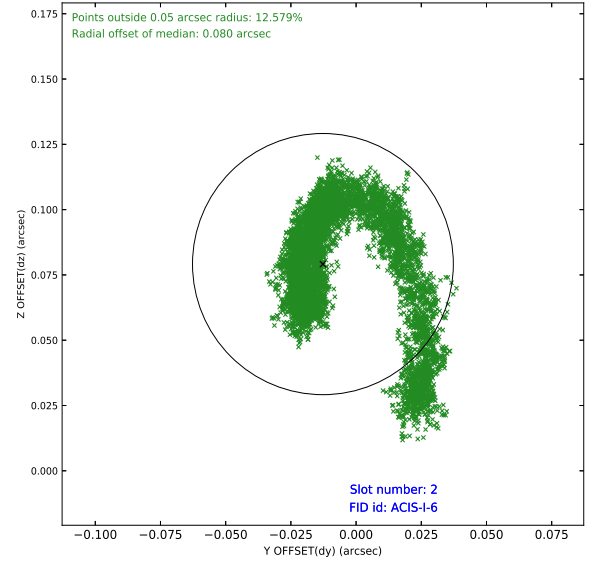
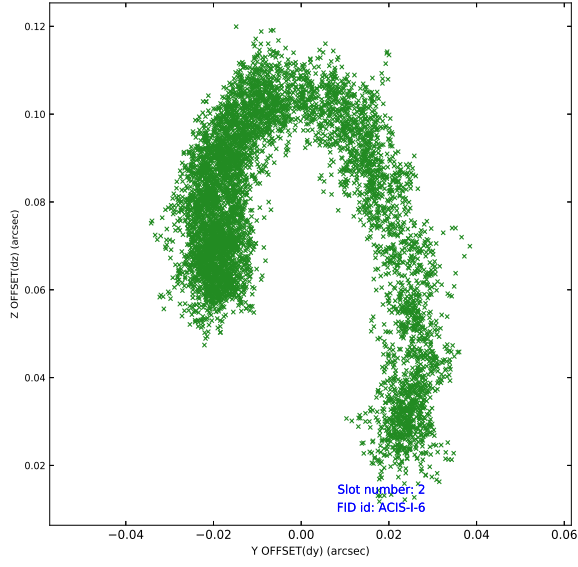
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.062720282316

A.2 Comments