

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6333 - L2 Version 4
Chandra X-Ray Center

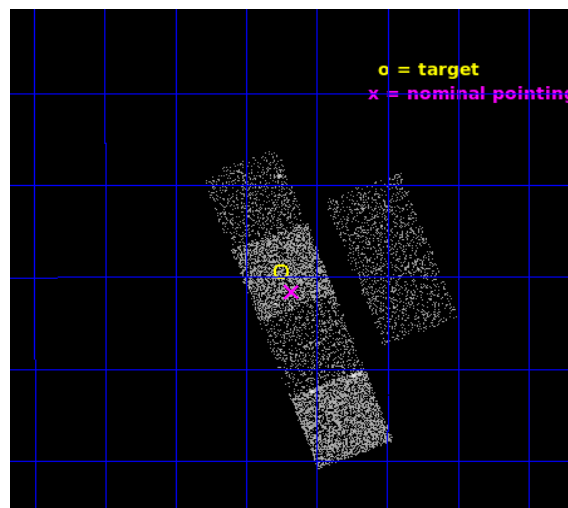
L2 Processing Date : Oct 9 2020

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1 Front

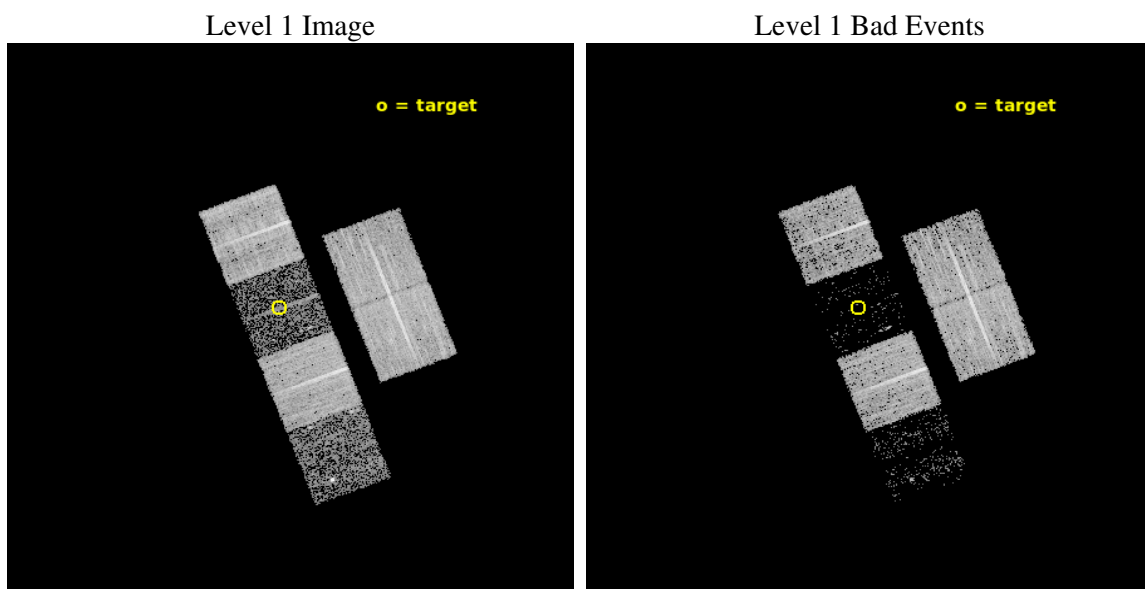
seq_num	100055	Sequence number
obs_id	6333	Observation id
title	Comet 9P/Tempel 1 During the Deep Impact Encounter	Proposal title
observer	Carey Lisse	Principal investigator
object	Comet 9P/Tempel 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	205.313443	Observer's specified target RA [deg]
dec_targ	-10.323565	Observer's specified target Dec [deg]
ra_nom	205.294076063	Nominal RA [deg]
dec_nom	-10.359918937452	Nominal Dec [deg]
roll_nom	249.08031433978	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8086.3999698758	Sum of GTIs [s]
livetime	7984.0051044117	Livetime [s]
ontime2	8086.3999698758	Sum of GTIs [s]
ontime3	8086.3999698758	Sum of GTIs [s]
ontime5	8086.3999698758	Sum of GTIs [s]
ontime6	8086.3999698758	Sum of GTIs [s]
ontime7	8086.3999698758	Sum of GTIs [s]
ontime8	8086.3999698758	Sum of GTIs [s]
l2events	11264	Number of level 2 events



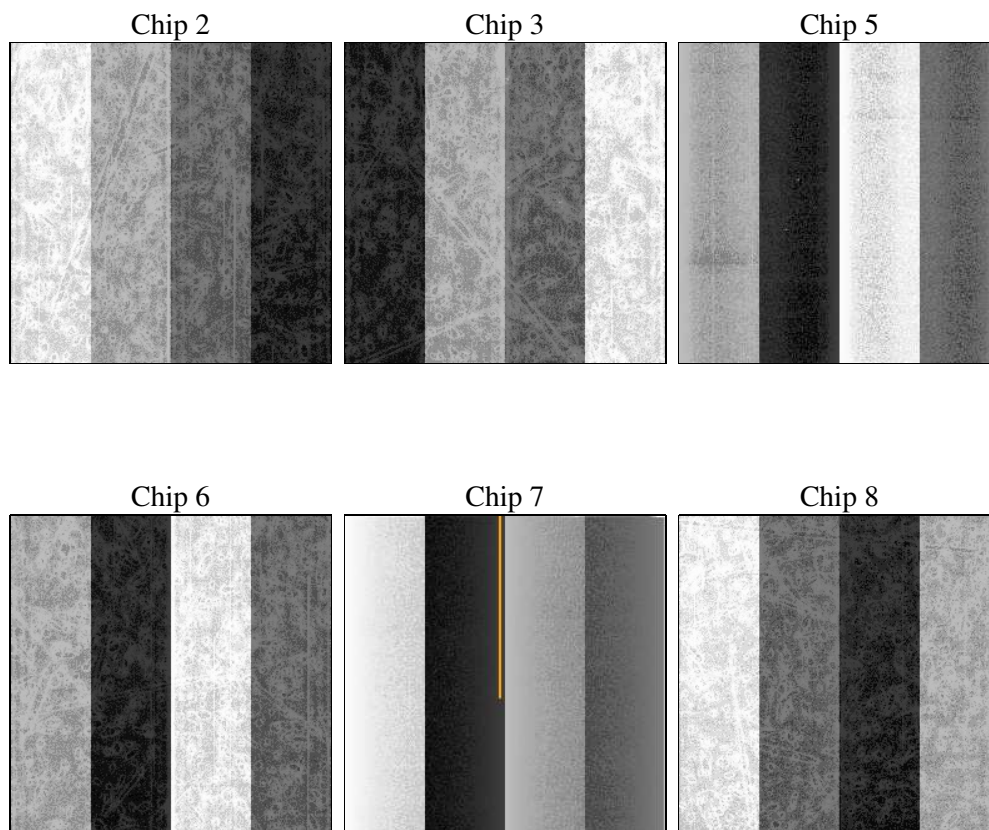
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7900.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	8086.3999698758	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	8086.3999698758	Sum of GTIs [s]
date	2020-10-09T07:18:27	Date and time of file creation	ontime3	8086.3999698758	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	8086.3999698758	Sum of GTIs [s]
			ontime6	8086.3999698758	Sum of GTIs [s]
			ontime7	8086.3999698758	Sum of GTIs [s]
			ontime8	8086.3999698758	Sum of GTIs [s]
			l1events	171027	Number of level 1 events

2.1.4 Events

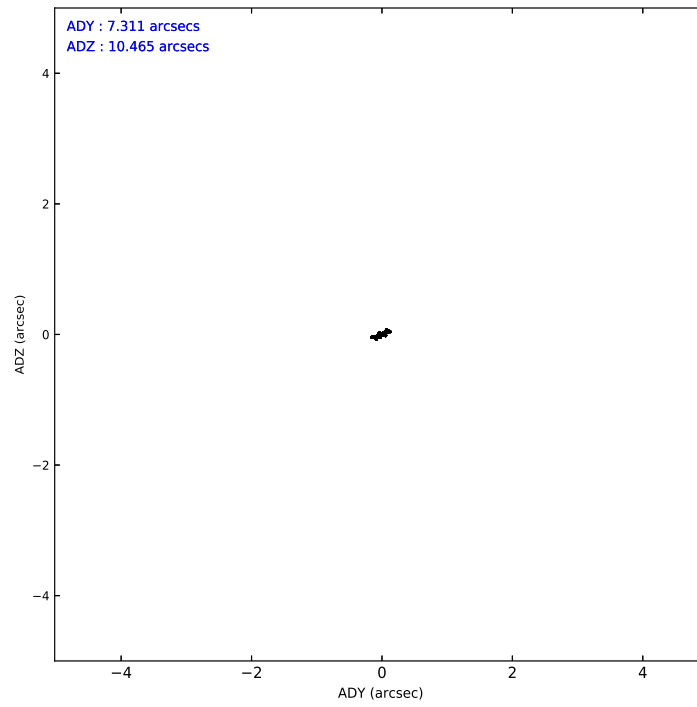
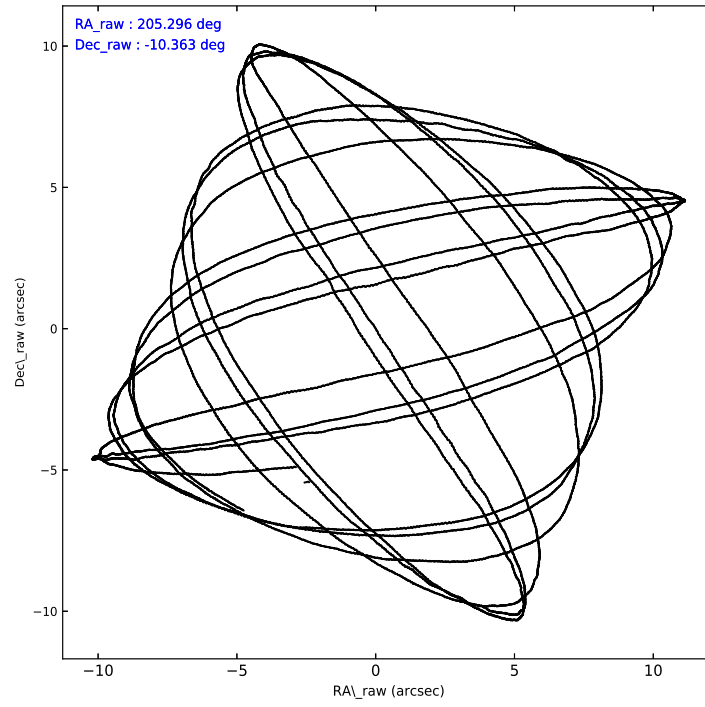
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	43181	35995	7155	38742	5187	40767
rejected events	41449	34803	2254	37076	1295	30696
rejected %	95%	96%	31%	95%	24%	75%

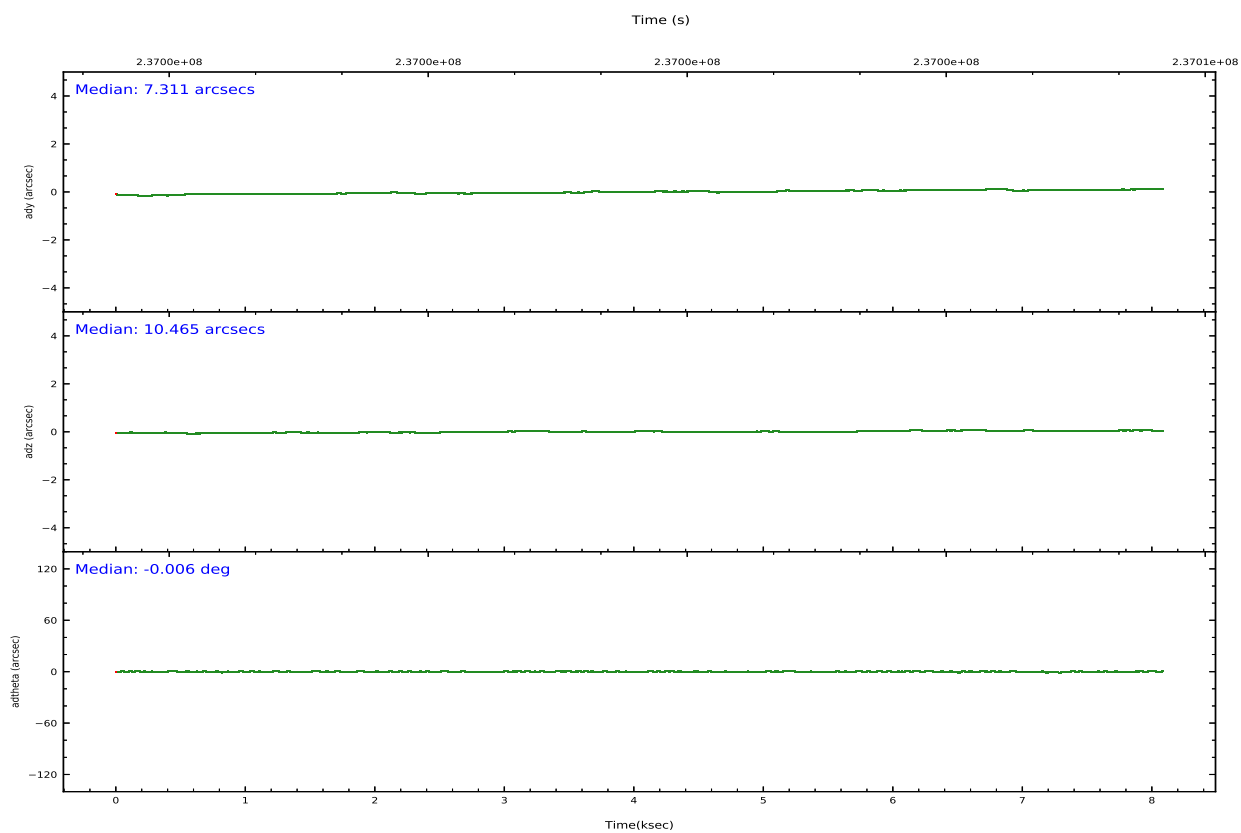
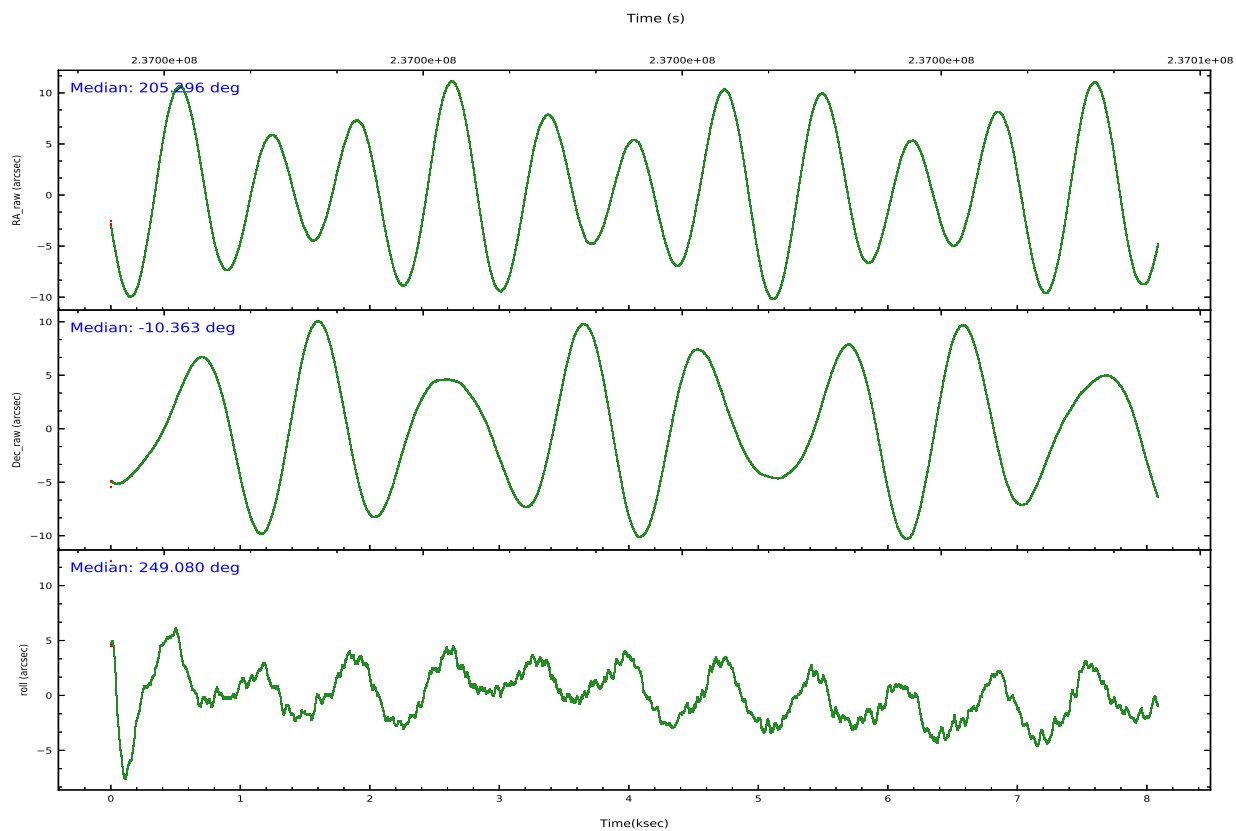
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	689	560	1553	787	1055	2888
	1%	1%	21%	2%	20%	7%
grade 1 events	6	10	108	13	25	19
	0%	0%	1%	0%	0%	0%
grade 2 events	442	151	1921	324	1370	2248
	1%	0%	26%	0%	26%	5%
grade 3 events	232	221	569	233	571	1242
	0%	0%	7%	0%	11%	3%
grade 4 events	290	191	545	258	556	1181
	0%	0%	7%	0%	10%	2%
grade 5 events	48	47	362	30	121	197
	0%	0%	5%	0%	2%	0%
grade 6 events	148	114	534	127	495	2839
	0%	0%	7%	0%	9%	6%
grade 7 events	41326	34701	1563	36970	994	30153
	95%	96%	21%	95%	19%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	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	205.291479	205.294076063	Subarray requested	NONE	NONE
[deg] Pointing Dec	-10.336143	-10.359918937452	Alternating exposures requested	N	N
[deg] Pointing Roll	248.920054	249.08031433978	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	236966464.184000	236966464.184000			
[s] Window stop time (MET)	237031264.184000	237031264.184000			
[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)	236997776.184000	236997400.45432			
Observation start date	2005-07-06T00:41:52	2005-07-06T00:36:40			
[s] Observation end time (MET)	237005676.184000	237005810.06721			
Observation end date	2005-07-06T02:53:32	2005-07-06T02:56:50			
Read mode	TIMED	TIMED			

2.3 Aspect



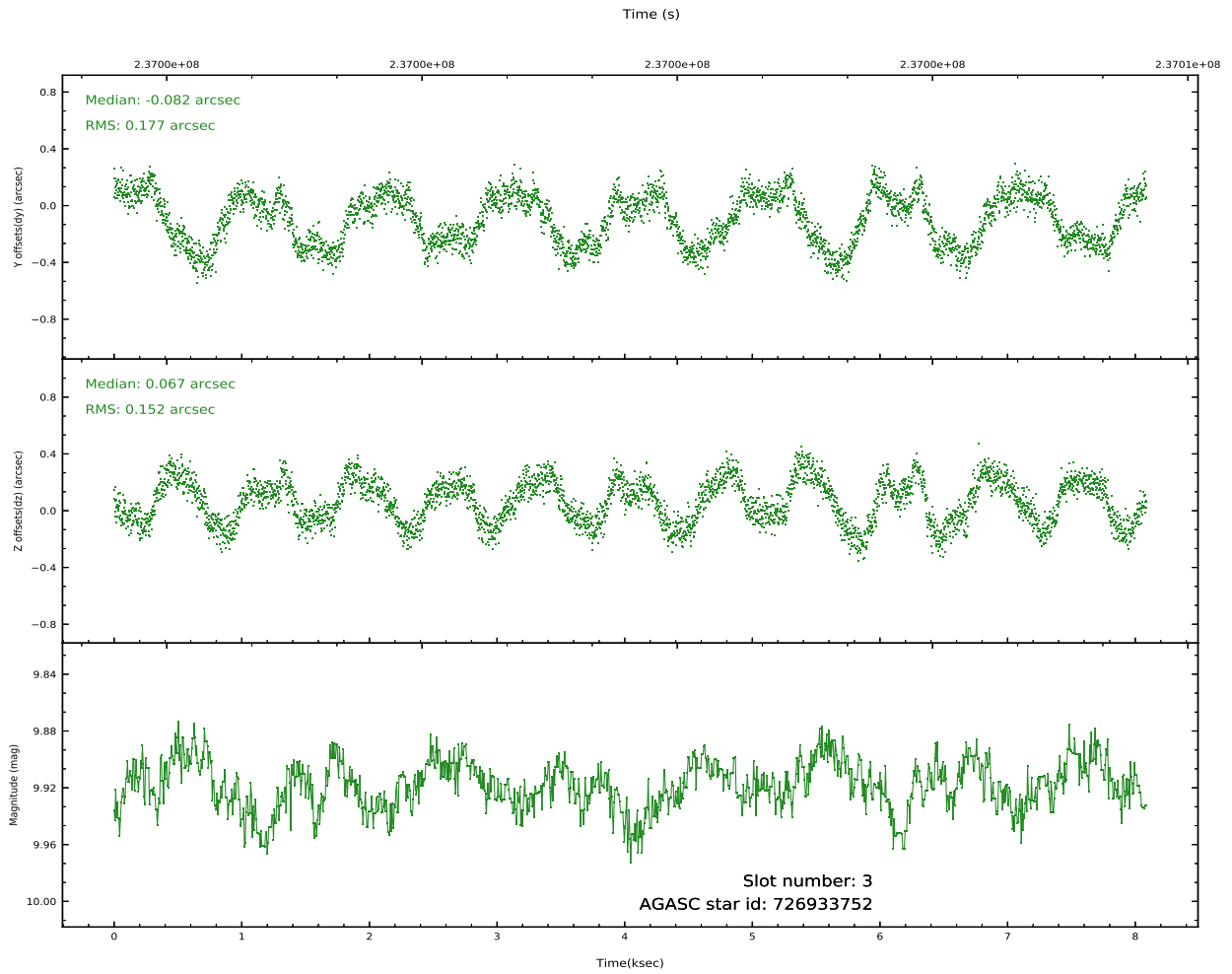
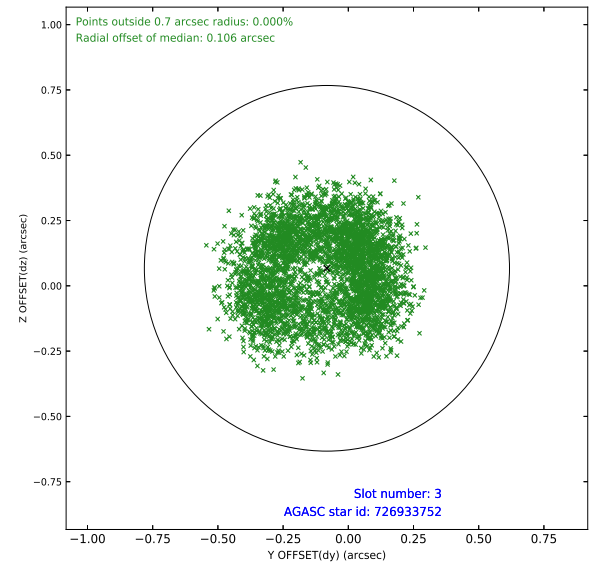
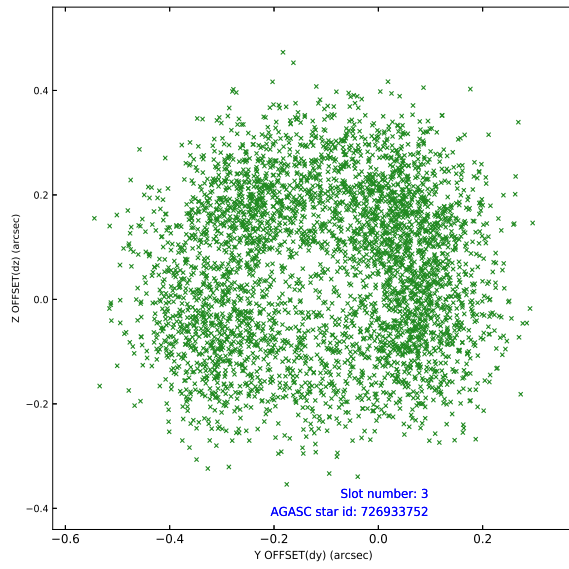


Slot Statistics

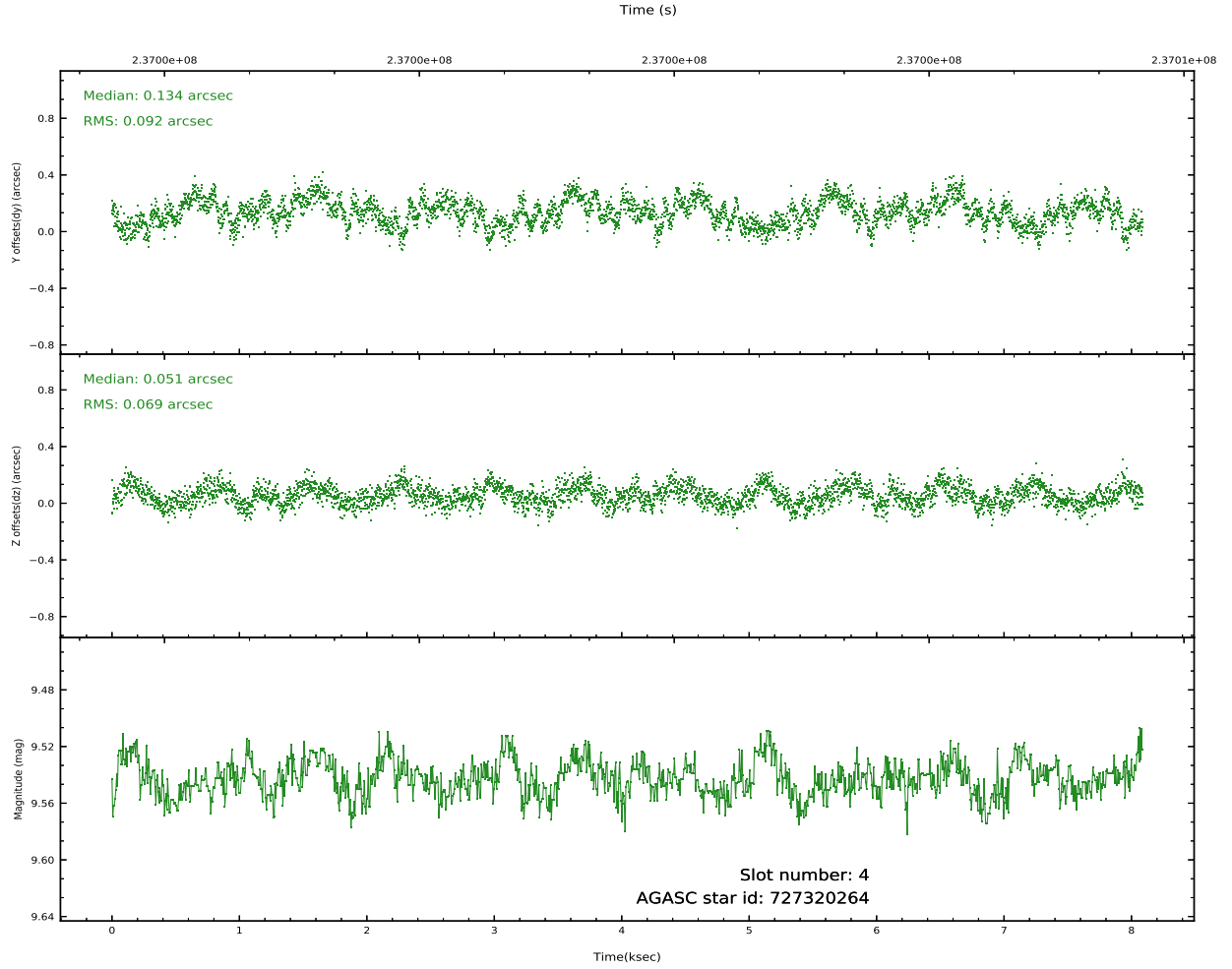
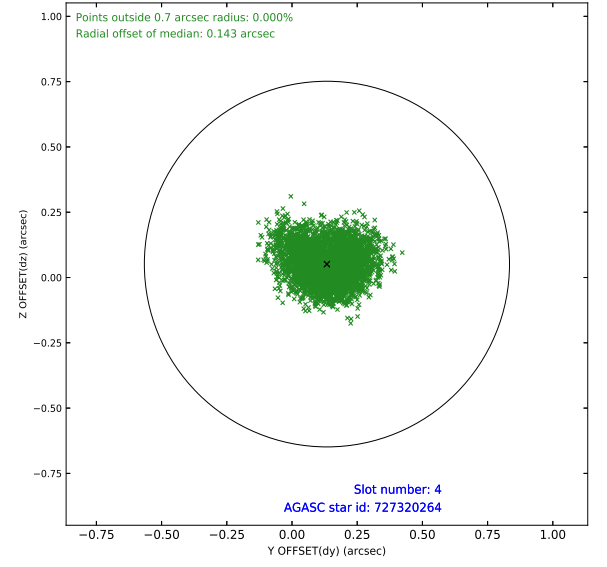
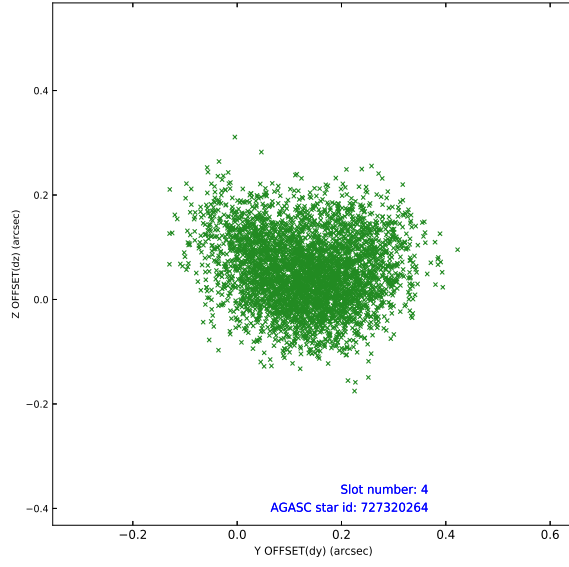
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1973	1.000	-0.083	-0.054	0.008	0.013	0.000000	0.000000	-760.08	-1731
1	FID		ACIS-S-4	7.20	1973	1.000	0.160	0.054	0.007	0.012	0.000000	0.000000	2153.05	176
2	FID		ACIS-S-5	7.23	1973	1.000	-0.108	0.009	0.006	0.011	0.000000	0.000000	-1812.13	170
3	GUIDE	used	726933752	9.92	3941	1.000	-0.082	0.067	0.257	0.358	205.376260	-9.946078	-1418.14	-224
4	GUIDE	used	727320264	9.54	3944	1.000	0.134	0.051	0.123	0.198	205.464326	-10.871323	1577.95	1263
5	GUIDE	used	727320968	9.33	3940	1.000	-0.187	0.045	0.112	0.176	205.790359	-10.593418	230.79	1981
6	GUIDE	used	727321088	9.45	3943	1.000	0.131	-0.174	0.104	0.161	204.964296	-10.686432	1594.12	-626
7	GUIDE	used	727321928	10.09	3941	1.000	0.017	0.013	0.132	0.211	205.258401	-10.105722	-731.32	-407

2.4 Star Slots

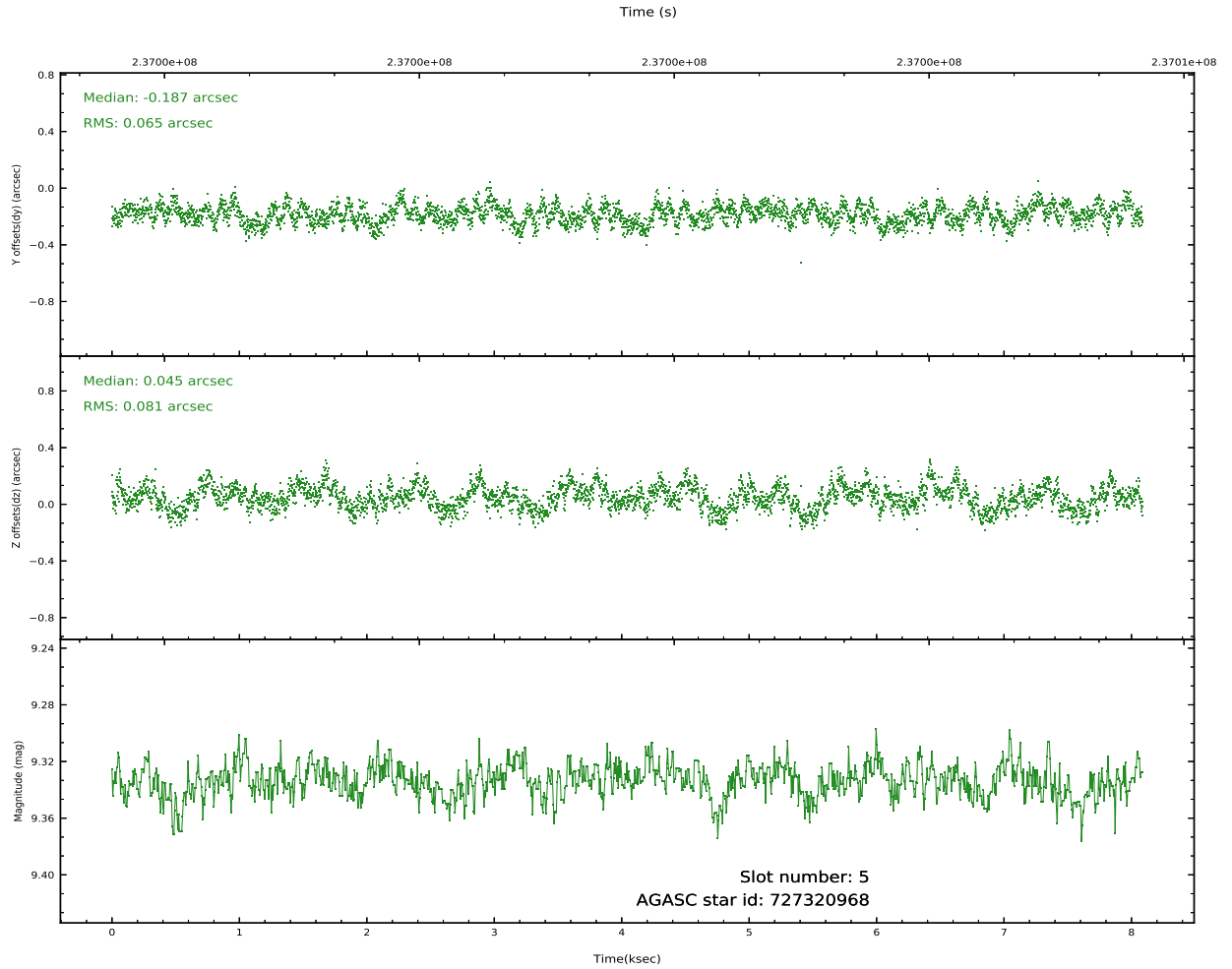
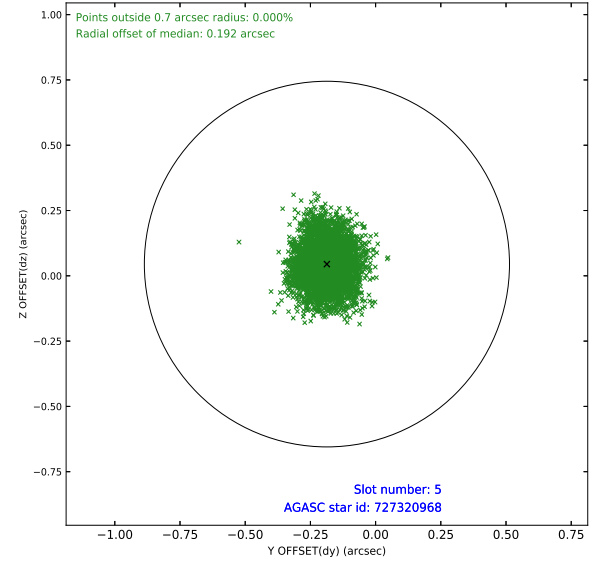
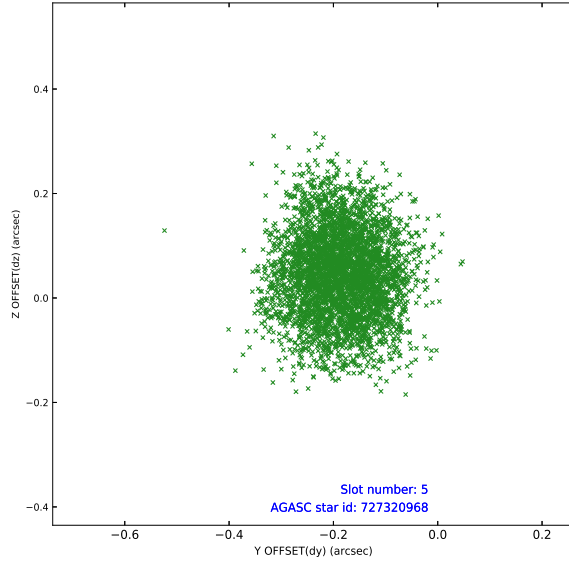
2.4.1 Slot 3



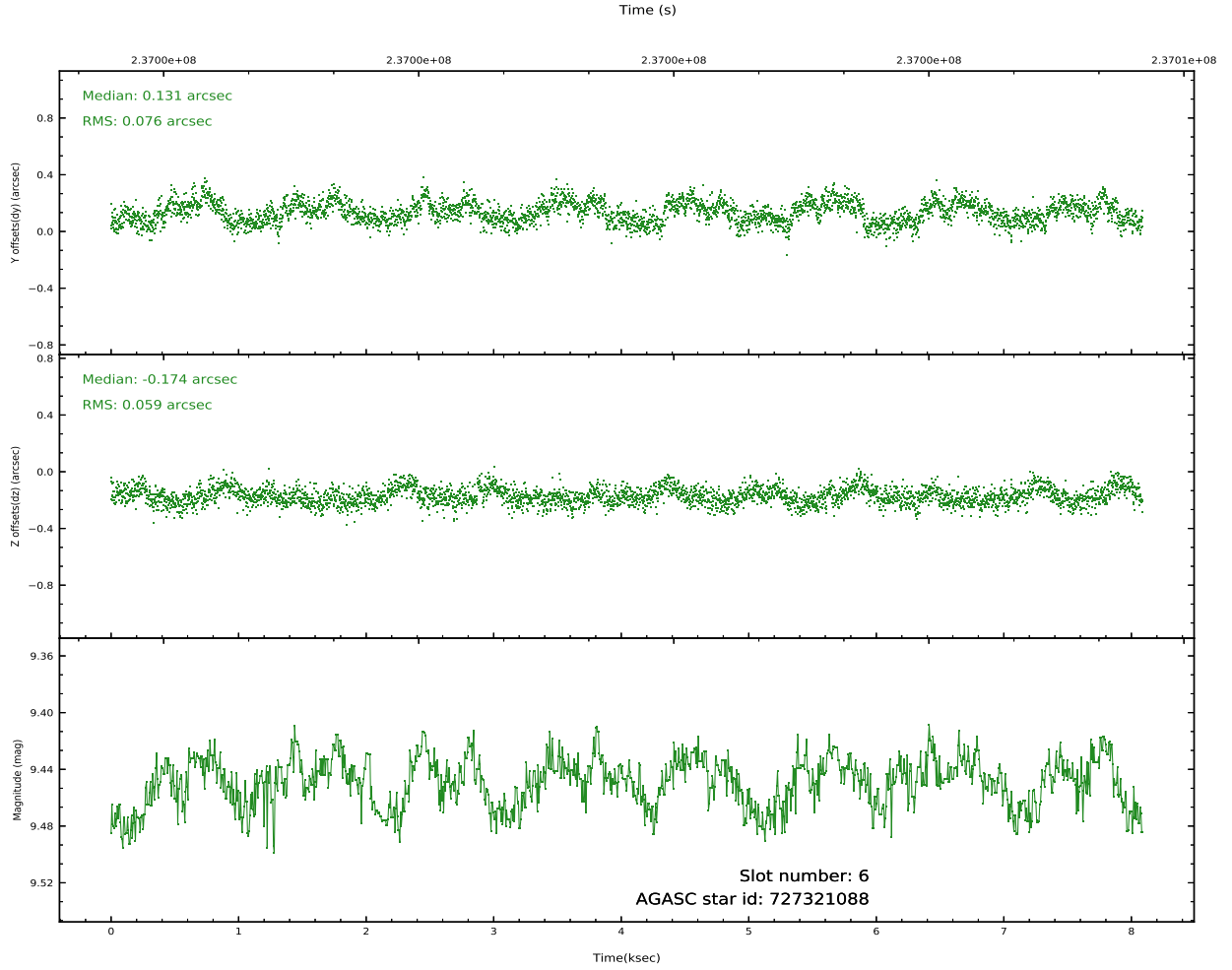
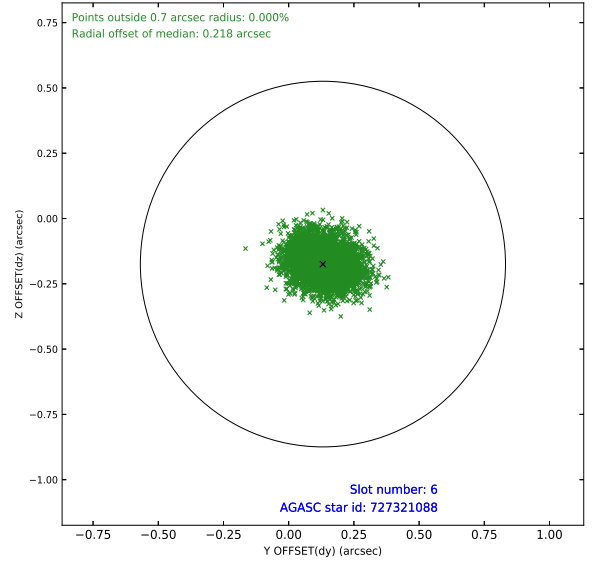
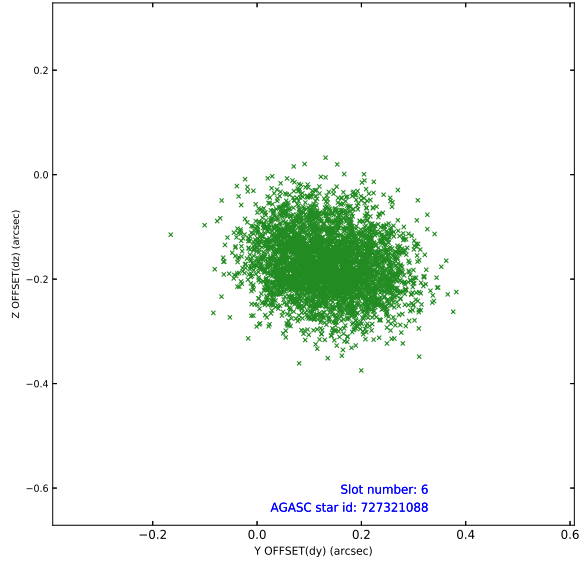
2.4.2 Slot 4



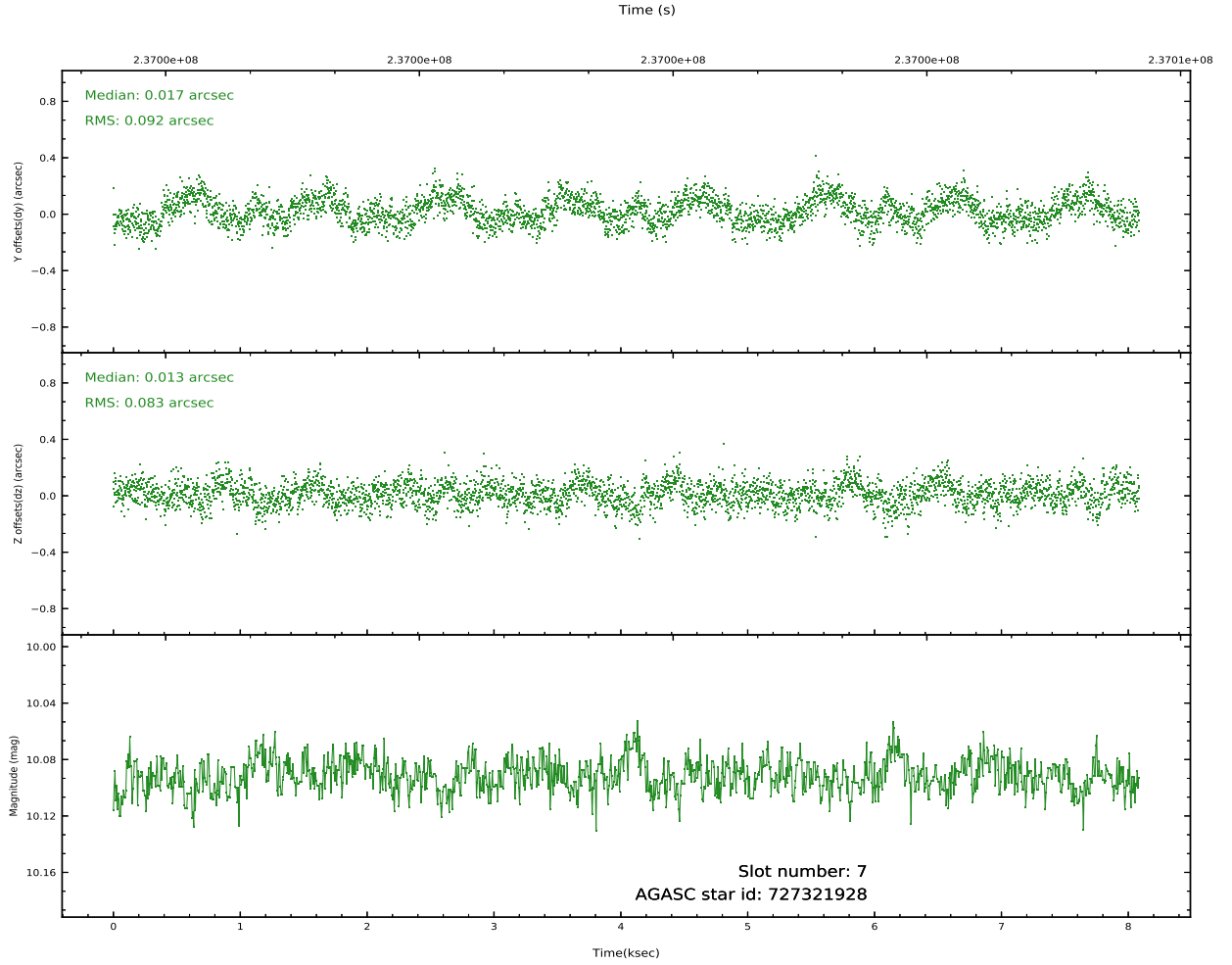
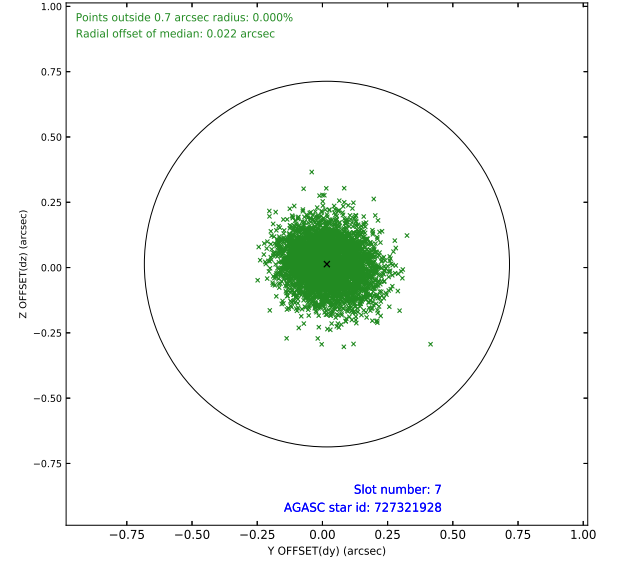
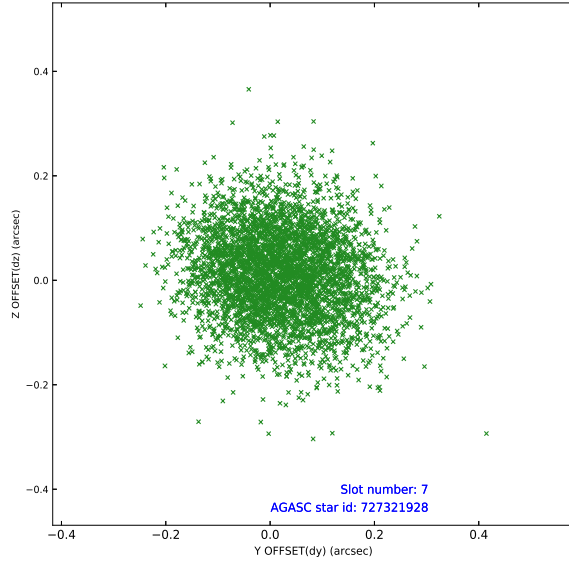
2.4.3 Slot 5



2.4.4 Slot 6

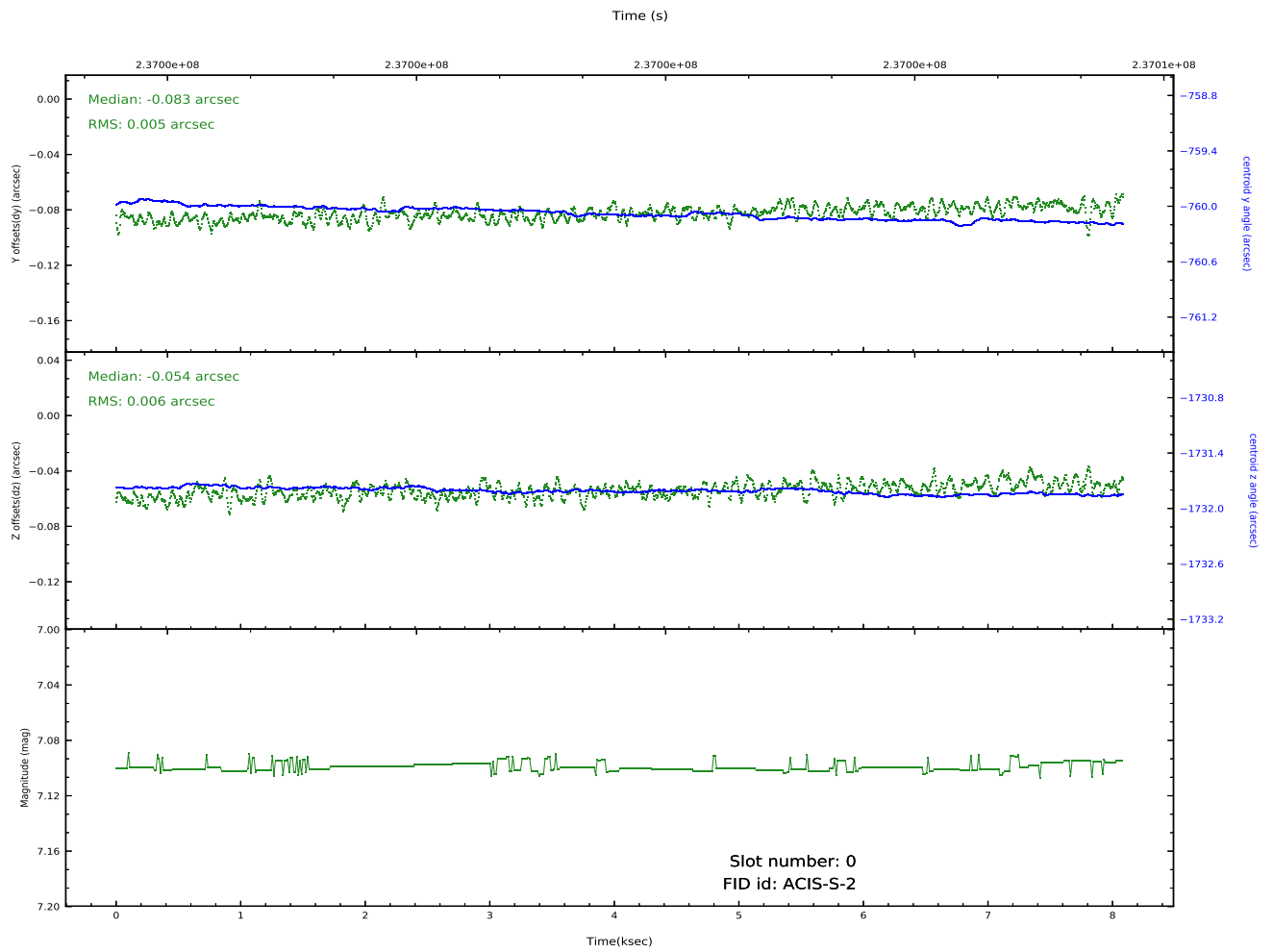
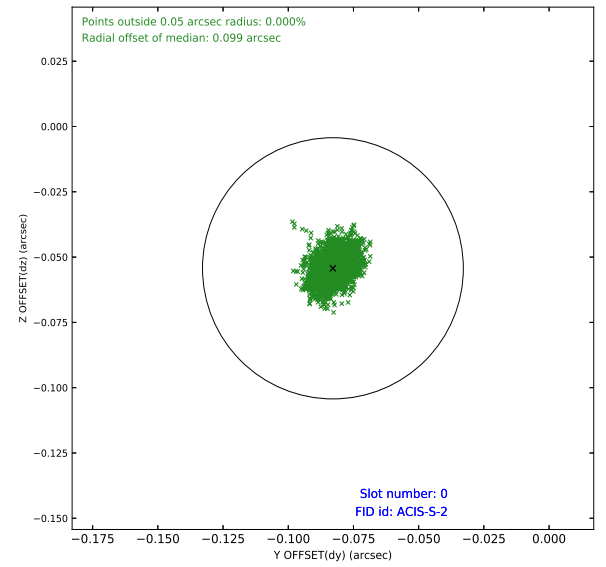
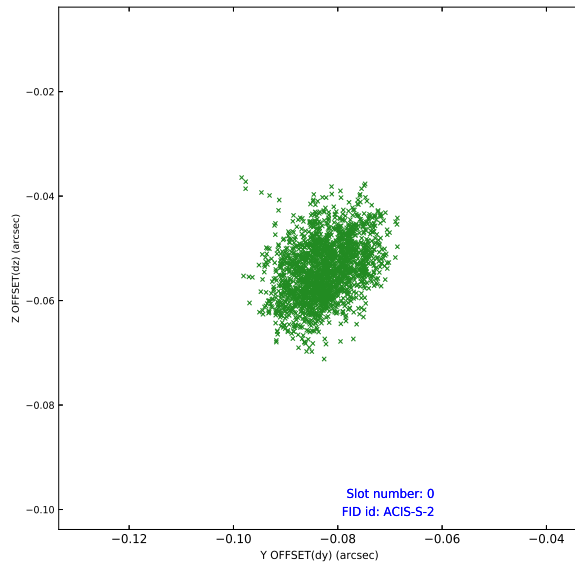


2.4.5 Slot 7

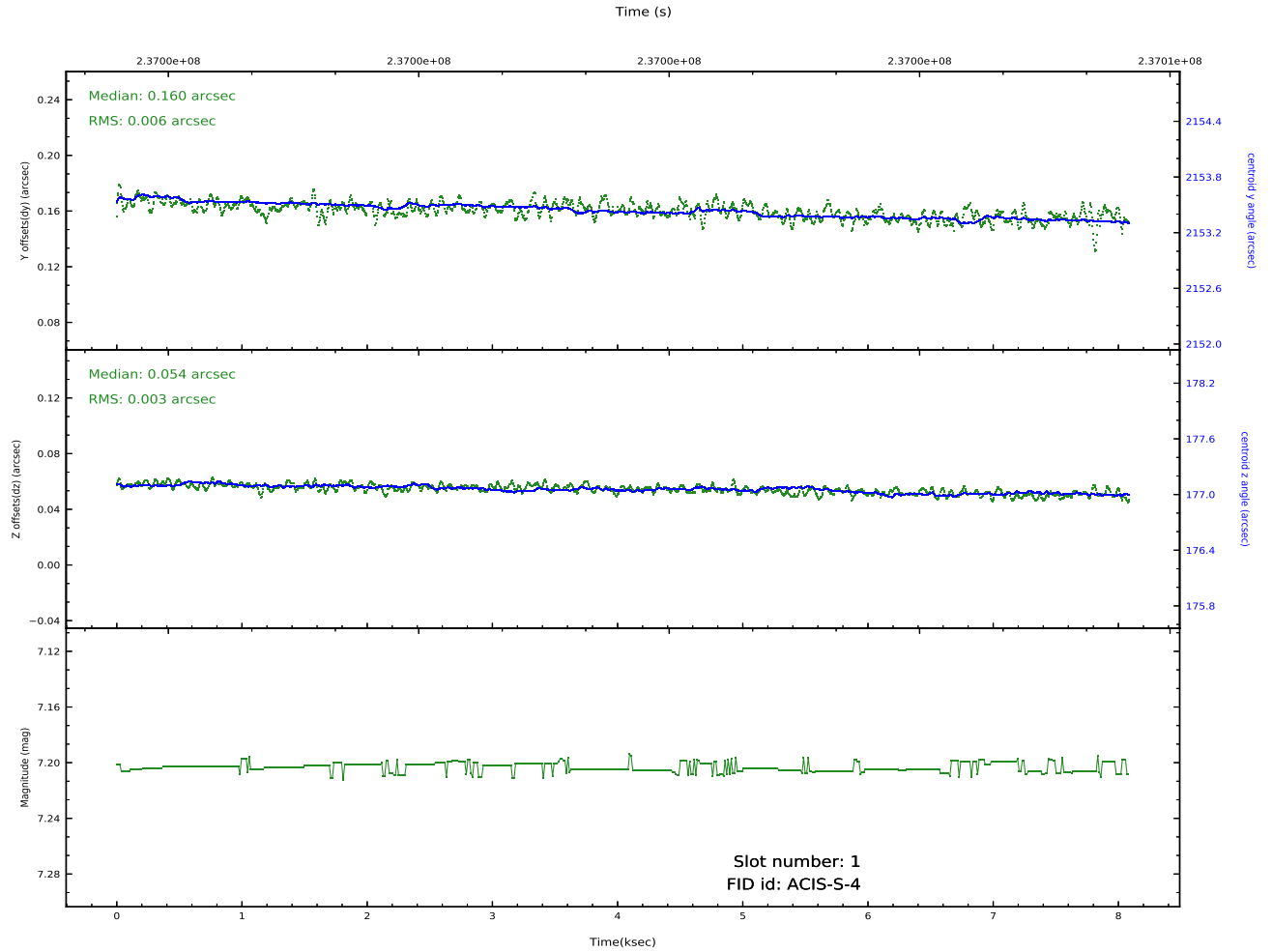
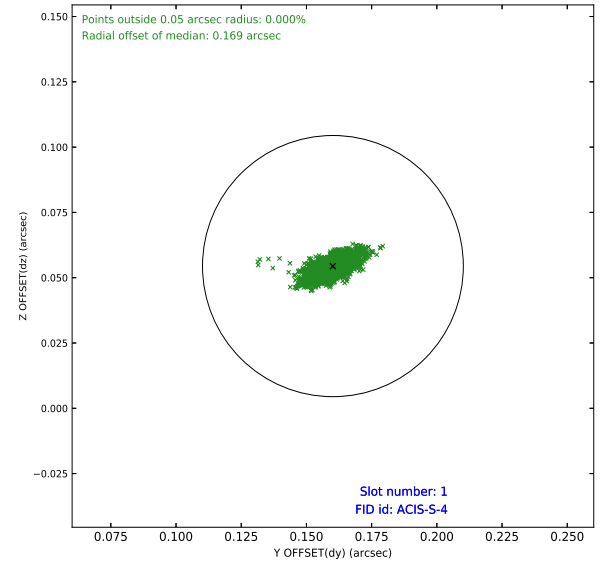
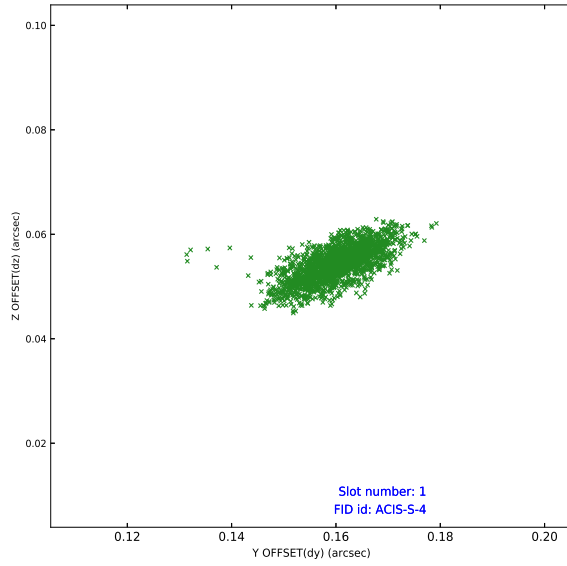


2.5 FID Slots

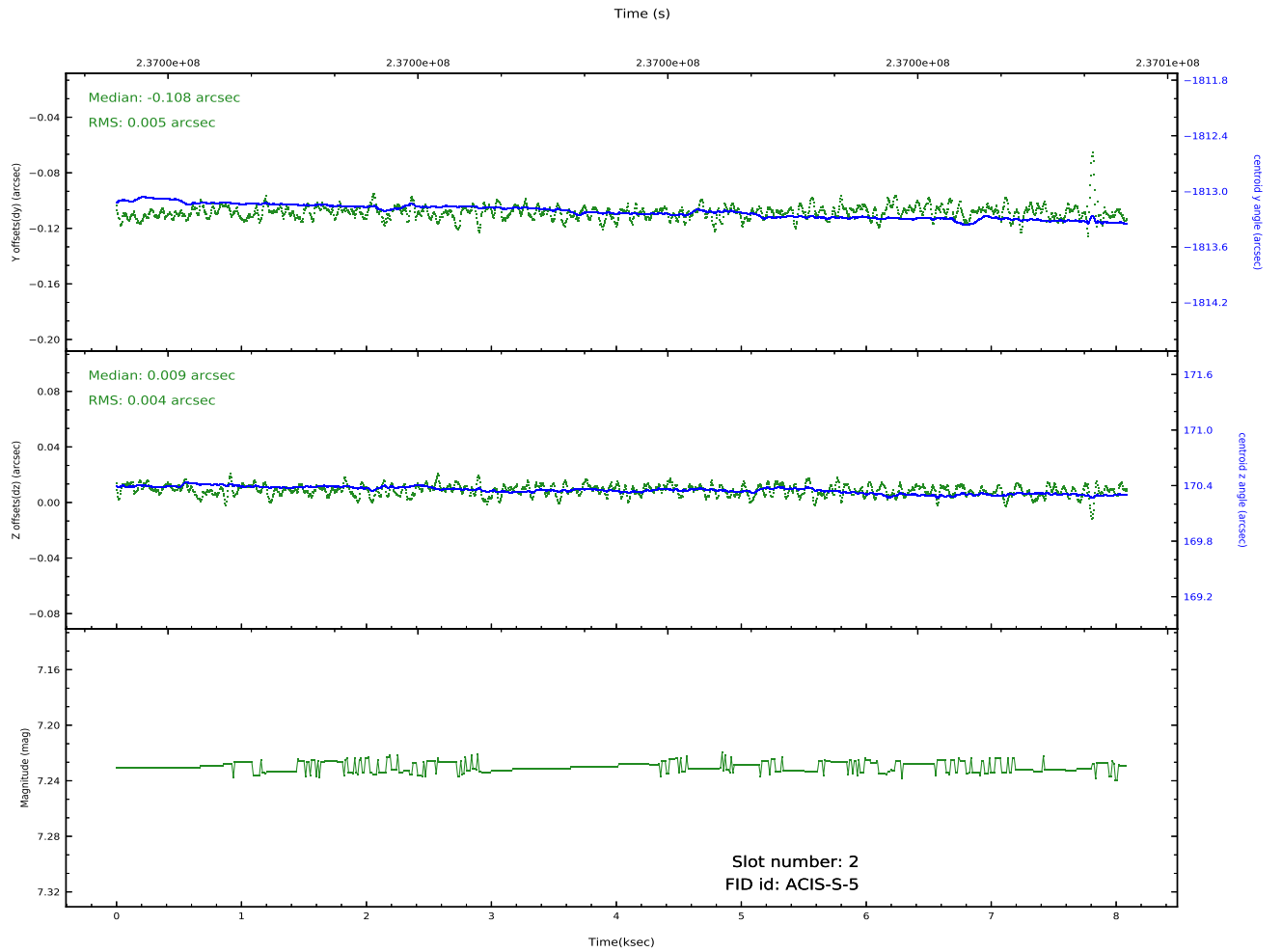
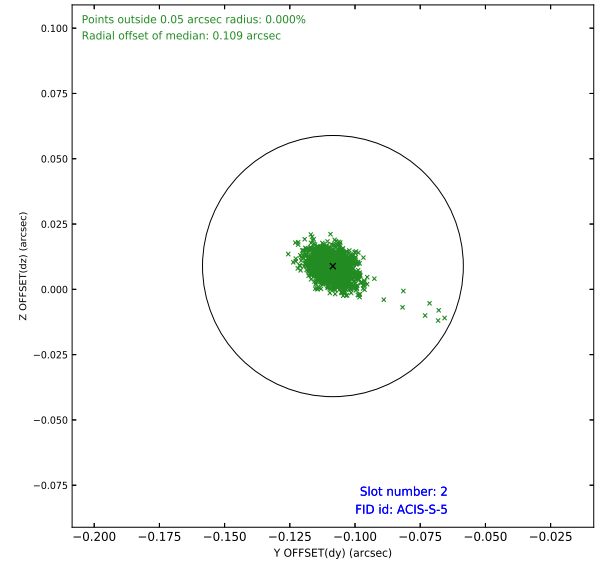
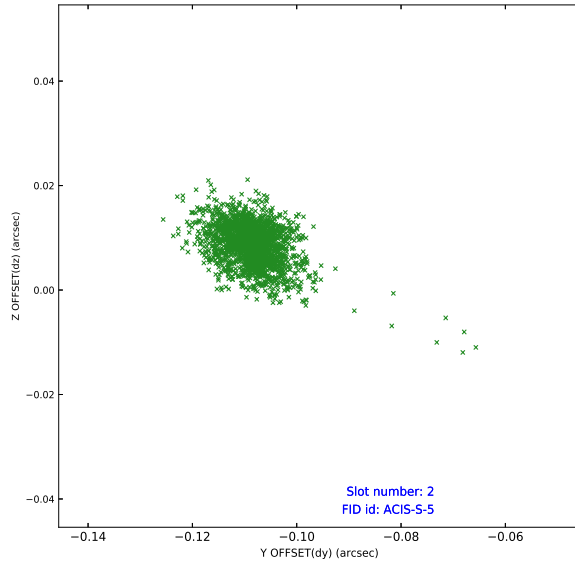
2.5.1 Slot 0



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)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.086399

A.2 Comments

Window constraint met. This is a moving target. Users will need to run sso_freeze or similar software to position the events in the reference frame of the target.