

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6334 - L2 Version 4
Chandra X-Ray Center

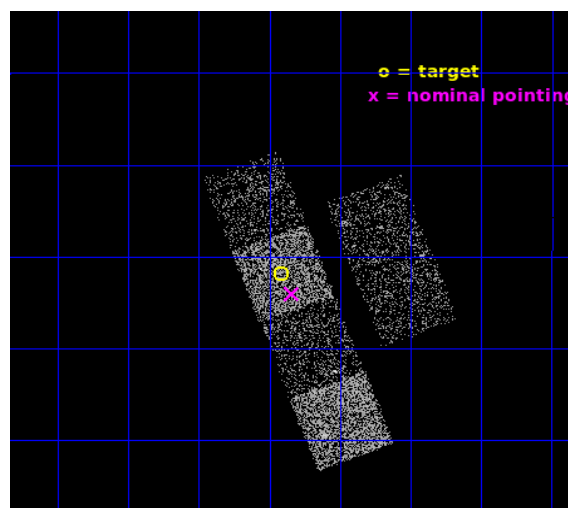
L2 Processing Date : Oct 9 2020

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1 Front

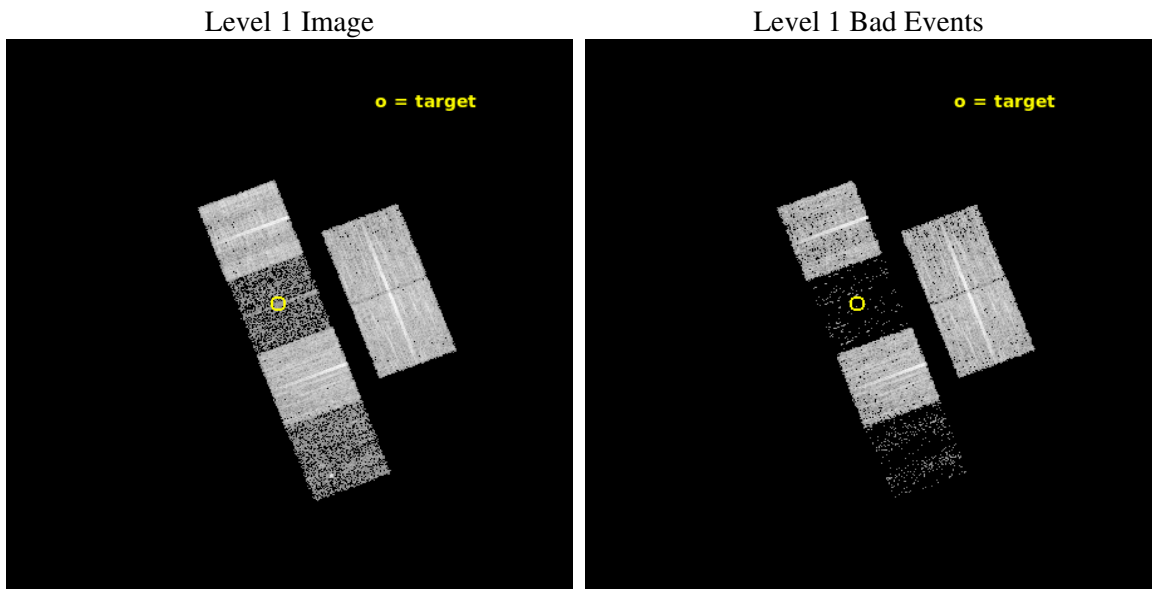
seq_num	100055	Sequence number
obs_id	6334	Observation id
title	Comet 9P/Tempel 1 During the Deep Impact Encounter	Proposal title
observer	Carey Lisse	Principal investigator
object	Comet 9P/Tempel 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	205.354412	Observer's specified target RA [deg]
dec_targ	-10.364373	Observer's specified target Dec [deg]
ra_nom	205.33508986373	Nominal RA [deg]
dec_nom	-10.400580800697	Nominal Dec [deg]
roll_nom	249.09261289896	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8079.9999698997	Sum of GTIs [s]
livetime	7977.6861450889	Livetime [s]
ontime2	8076.7589996159	Sum of GTIs [s]
ontime3	8079.9999698997	Sum of GTIs [s]
ontime5	8079.9999698997	Sum of GTIs [s]
ontime6	8076.7589996159	Sum of GTIs [s]
ontime7	8079.9999698997	Sum of GTIs [s]
ontime8	8076.7590095997	Sum of GTIs [s]
l2events	11290	Number of level 2 events



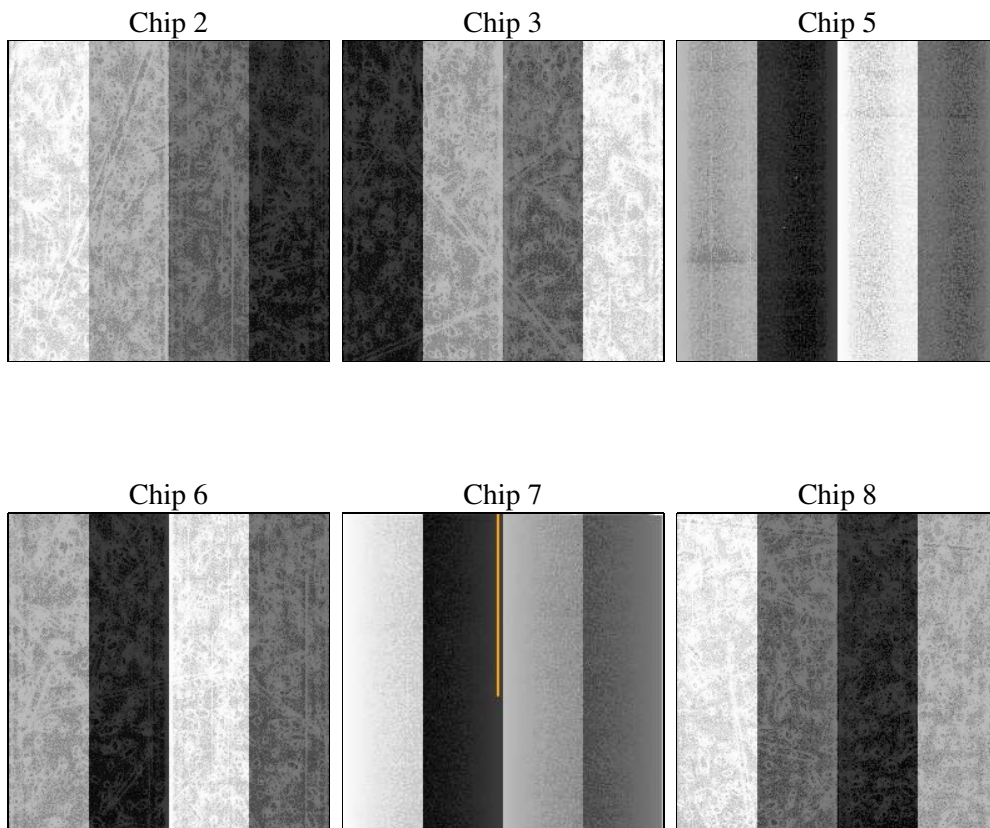
2 OBI

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	8079.9999698997	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	8076.7589996159	Sum of GTIs [s]
date	2020-10-09T08:19:23	Date and time of file creation	ontime3	8079.9999698997	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	8079.9999698997	Sum of GTIs [s]
			ontime6	8076.7589996159	Sum of GTIs [s]
			ontime7	8079.9999698997	Sum of GTIs [s]
			ontime8	8076.7590095997	Sum of GTIs [s]
			l1events	172081	Number of level 1 events

2.1.4 Events

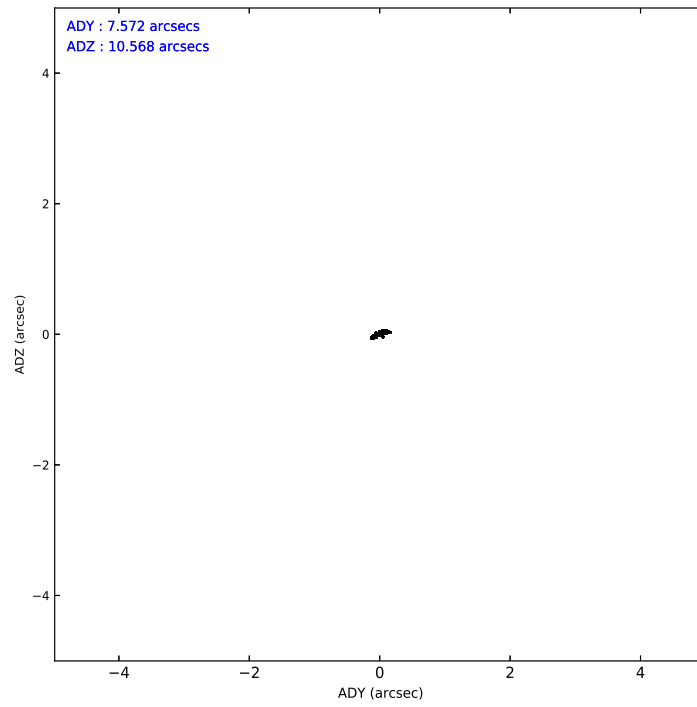
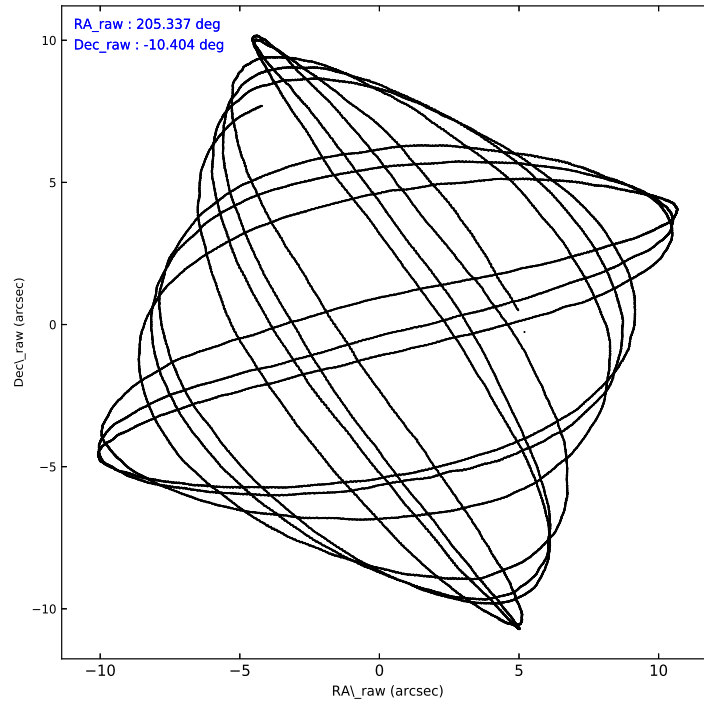
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	43178	36021	6578	37632	5293	43379
rejected events	41499	34774	2190	36063	1372	32986
rejected %	96%	96%	33%	95%	25%	76%

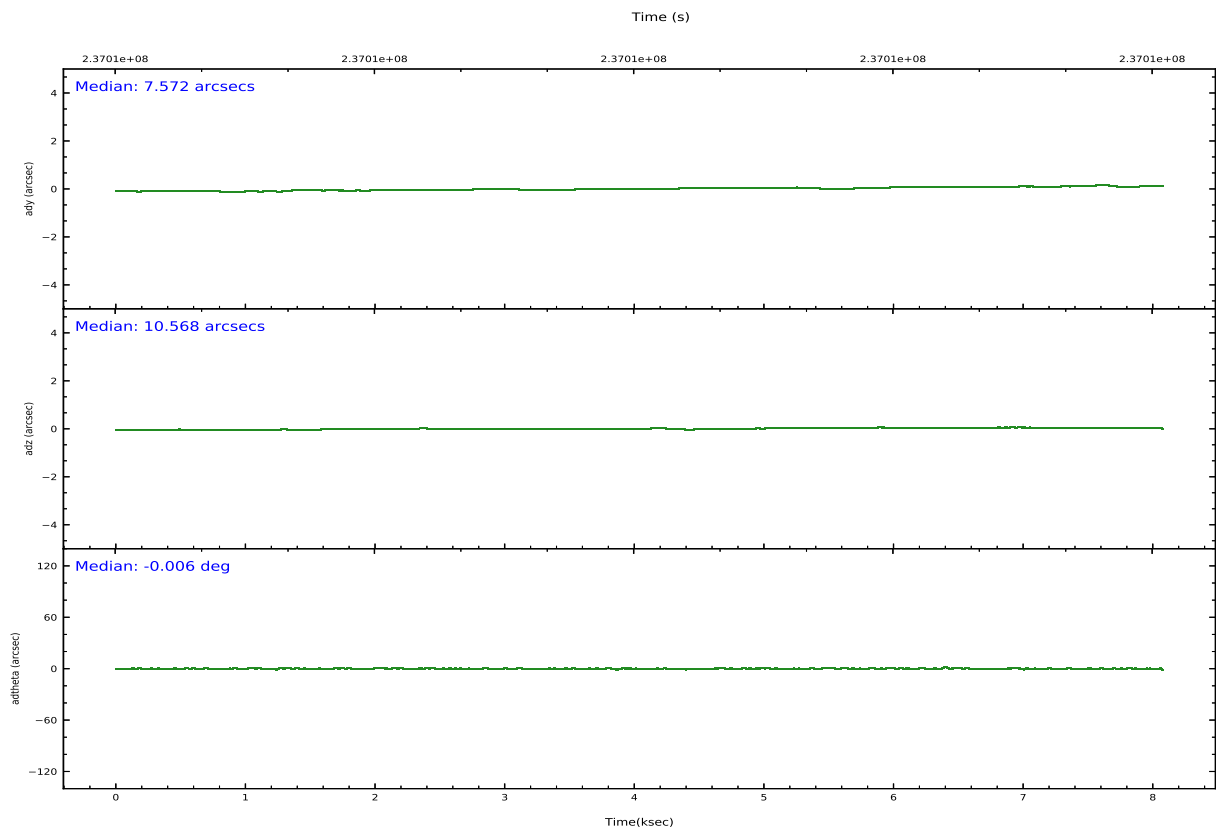
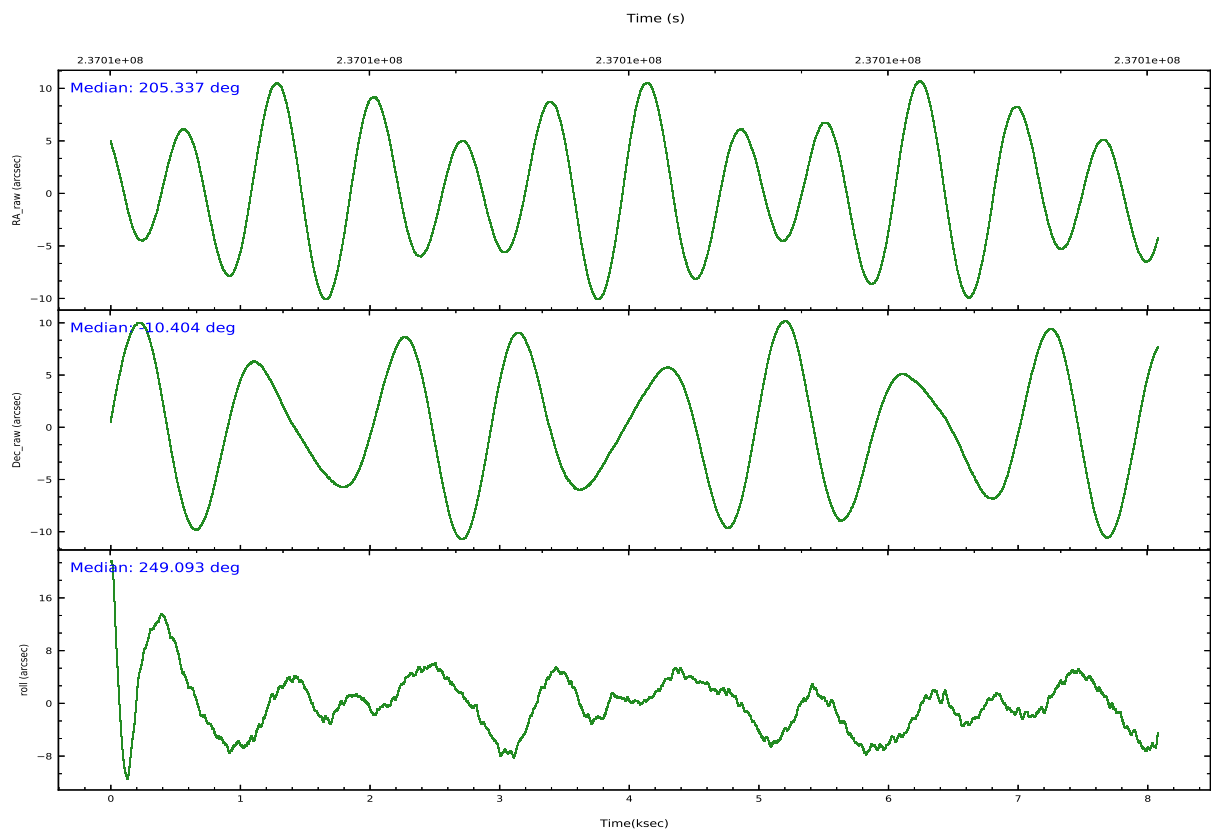
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	738	614	1313	818	1067	2977
	1%	1%	19%	2%	20%	6%
grade 1 events	9	8	48	13	36	33
	0%	0%	0%	0%	0%	0%
grade 2 events	351	191	1697	308	1323	2487
	0%	0%	25%	0%	24%	5%
grade 3 events	201	192	524	176	603	1282
	0%	0%	7%	0%	11%	2%
grade 4 events	276	201	526	226	600	1210
	0%	0%	7%	0%	11%	2%
grade 5 events	57	30	359	40	168	249
	0%	0%	5%	0%	3%	0%
grade 6 events	202	100	511	112	488	3011
	0%	0%	7%	0%	9%	6%
grade 7 events	41344	34685	1600	35939	1008	32130
	95%	96%	24%	95%	19%	74%

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	205.332452	205.33508986373	Subarray requested	NONE	NONE
[deg] Pointing Dec	-10.376957	-10.400580800697	Alternating exposures requested	N	N
[deg] Pointing Roll	248.936831	249.09261289896	[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)	237006186.184000	237005810.06721			
Observation start date	2005-07-06T03:02:02	2005-07-06T02:56:50			
[s] Observation end time (MET)	237014086.184000	237014220.19259			
Observation end date	2005-07-06T05:13:42	2005-07-06T05:17:00			
Read mode	TIMED	TIMED			

2.3 Aspect



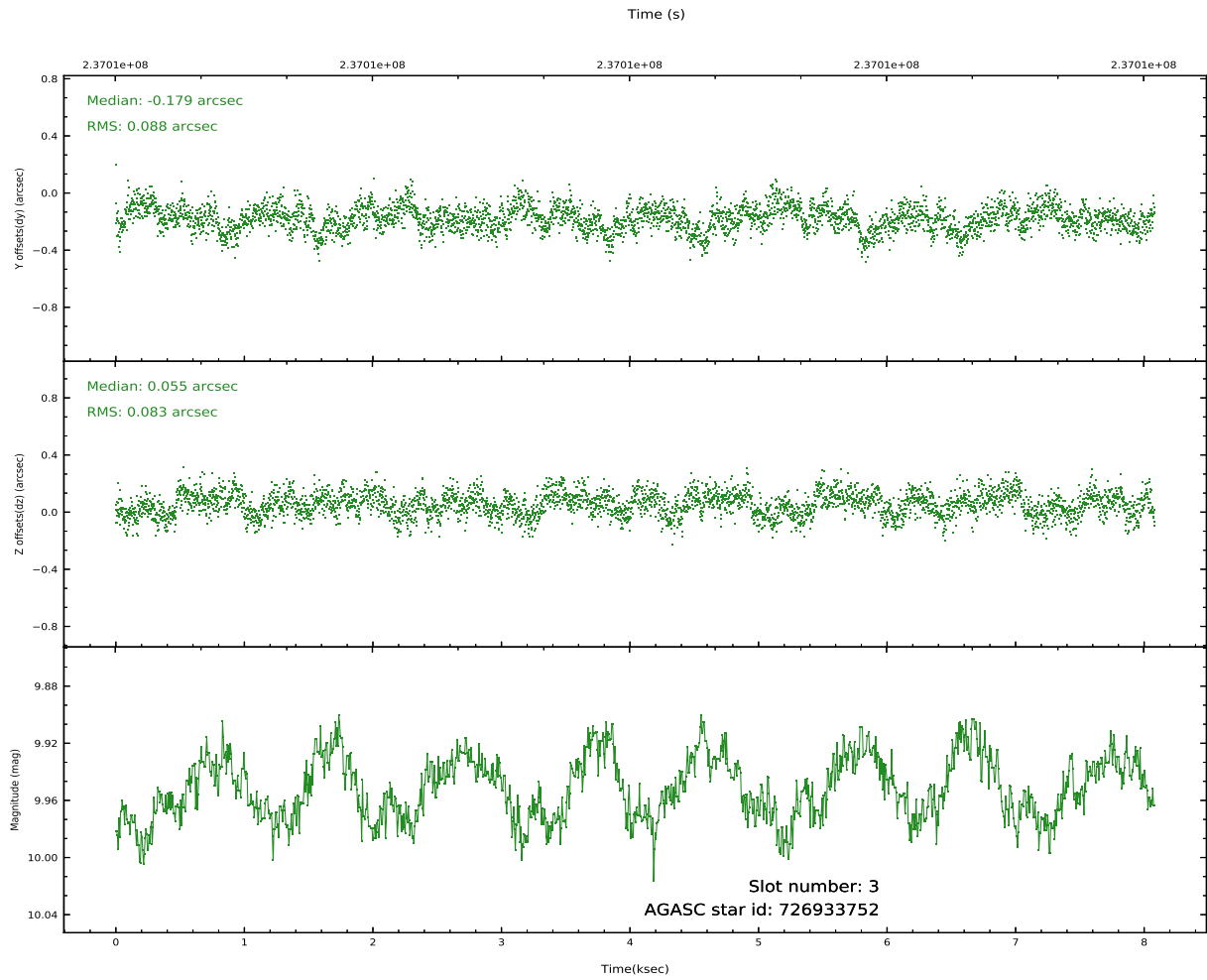
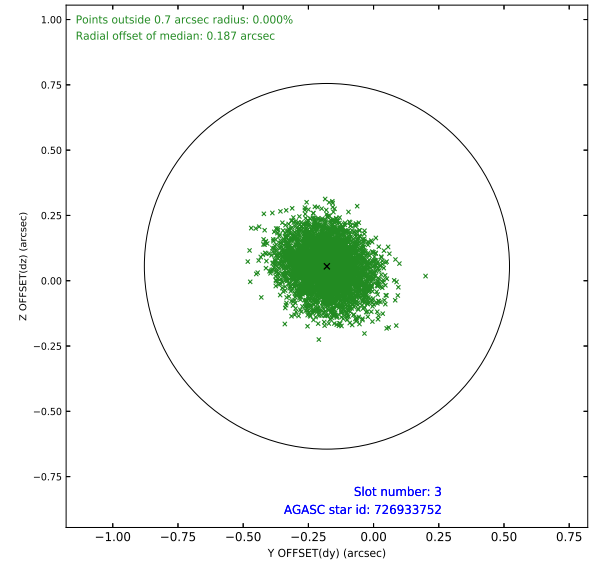
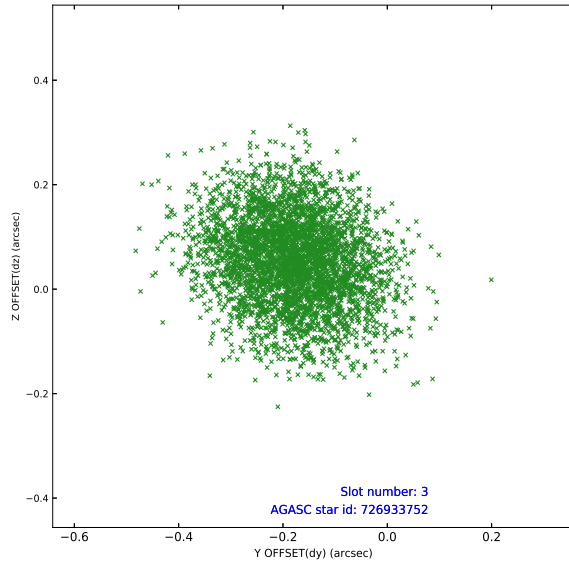


Slot Statistics

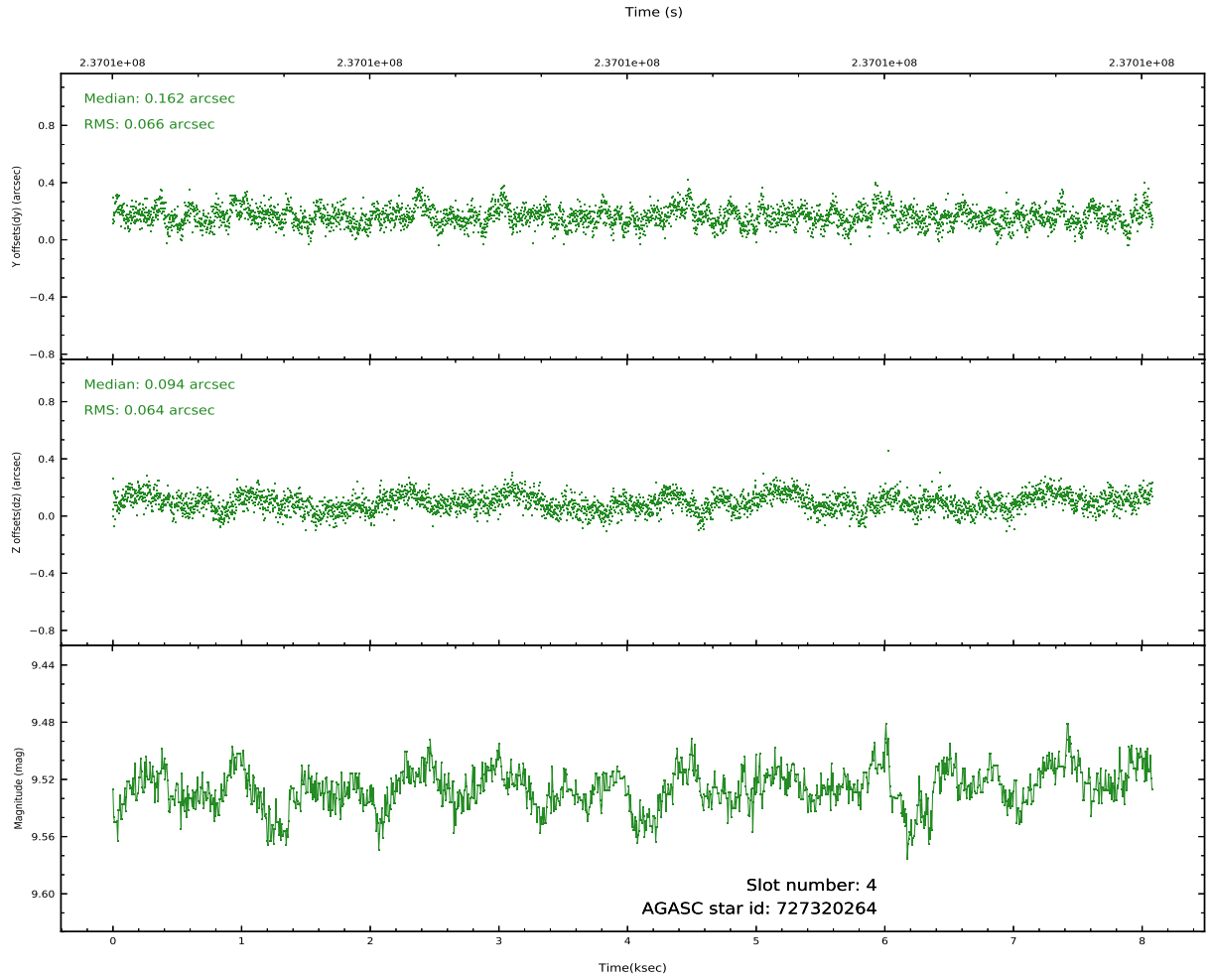
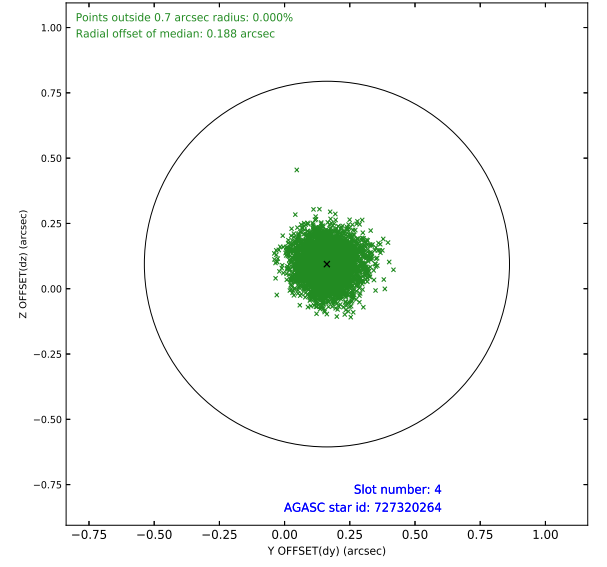
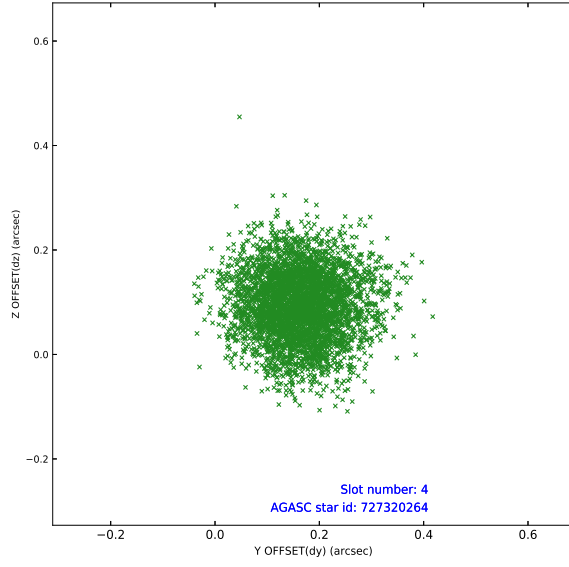
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1971	1.000	-0.079	-0.053	0.007	0.011	0.000000	0.000000	-760.35	-1731
1	FID		ACIS-S-4	7.20	1971	1.000	0.162	0.052	0.006	0.011	0.000000	0.000000	2152.78	176
2	FID		ACIS-S-5	7.23	1971	1.000	-0.114	0.010	0.007	0.012	0.000000	0.000000	-1812.41	170
3	GUIDE	used	726933752	9.95	3941	1.000	-0.179	0.055	0.129	0.205	205.376260	-9.946078	-1502.89	-412
4	GUIDE	used	727320264	9.53	3939	1.000	0.162	0.094	0.099	0.158	205.464326	-10.871323	1493.41	1075
5	GUIDE	used	727320968	9.35	3942	1.000	-0.157	0.044	0.107	0.168	205.790359	-10.593418	146.32	1793
6	GUIDE	used	727321088	9.44	3940	1.000	0.150	-0.163	0.091	0.149	204.964296	-10.686432	1509.43	-814
7	GUIDE	used	727321928	10.09	3939	1.000	0.019	-0.026	0.138	0.221	205.258401	-10.105722	-816.02	-595

2.4 Star Slots

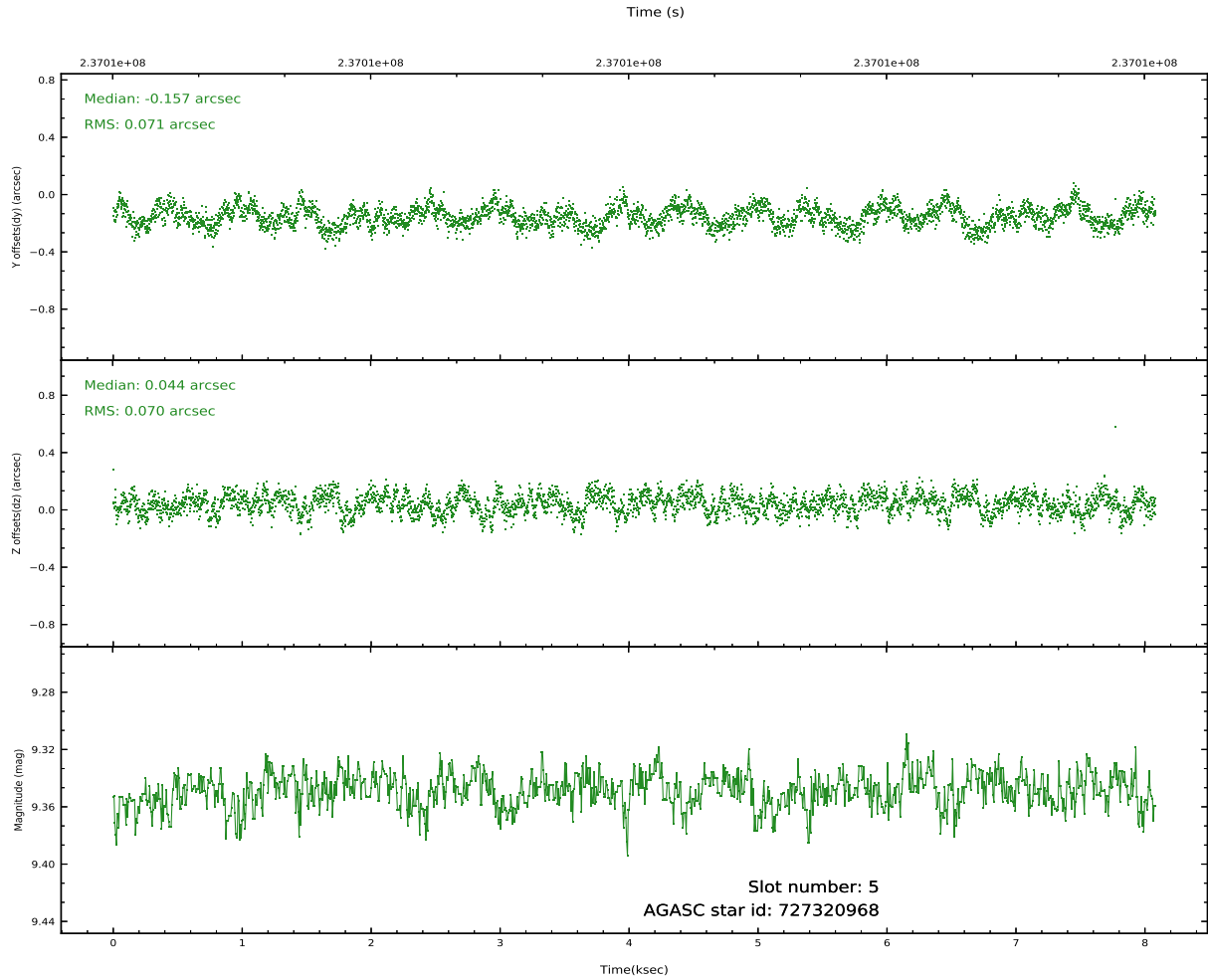
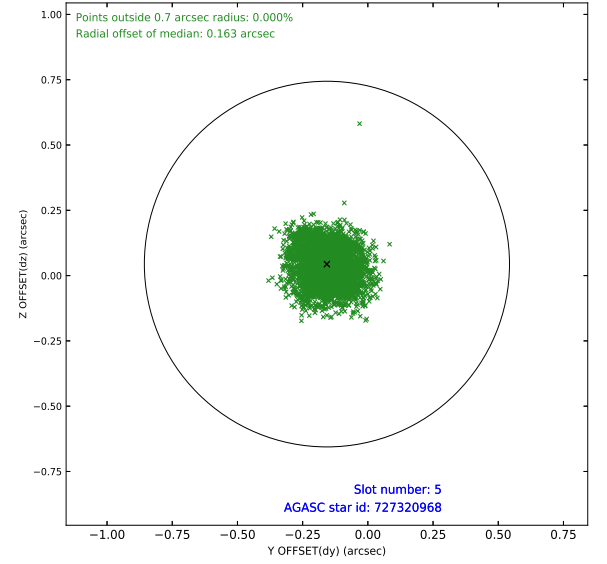
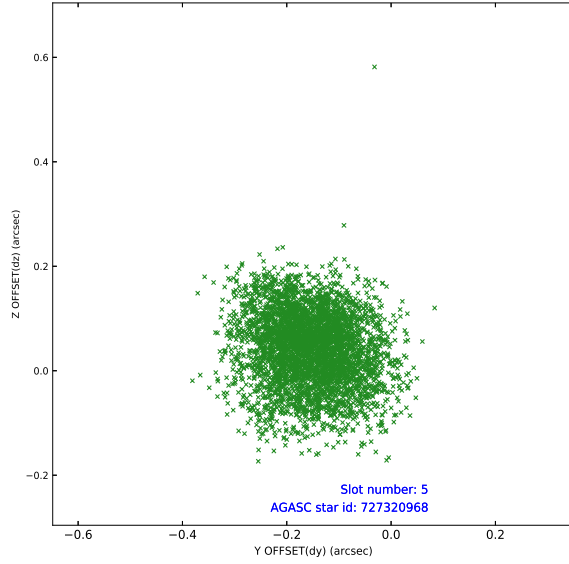
2.4.1 Slot 3



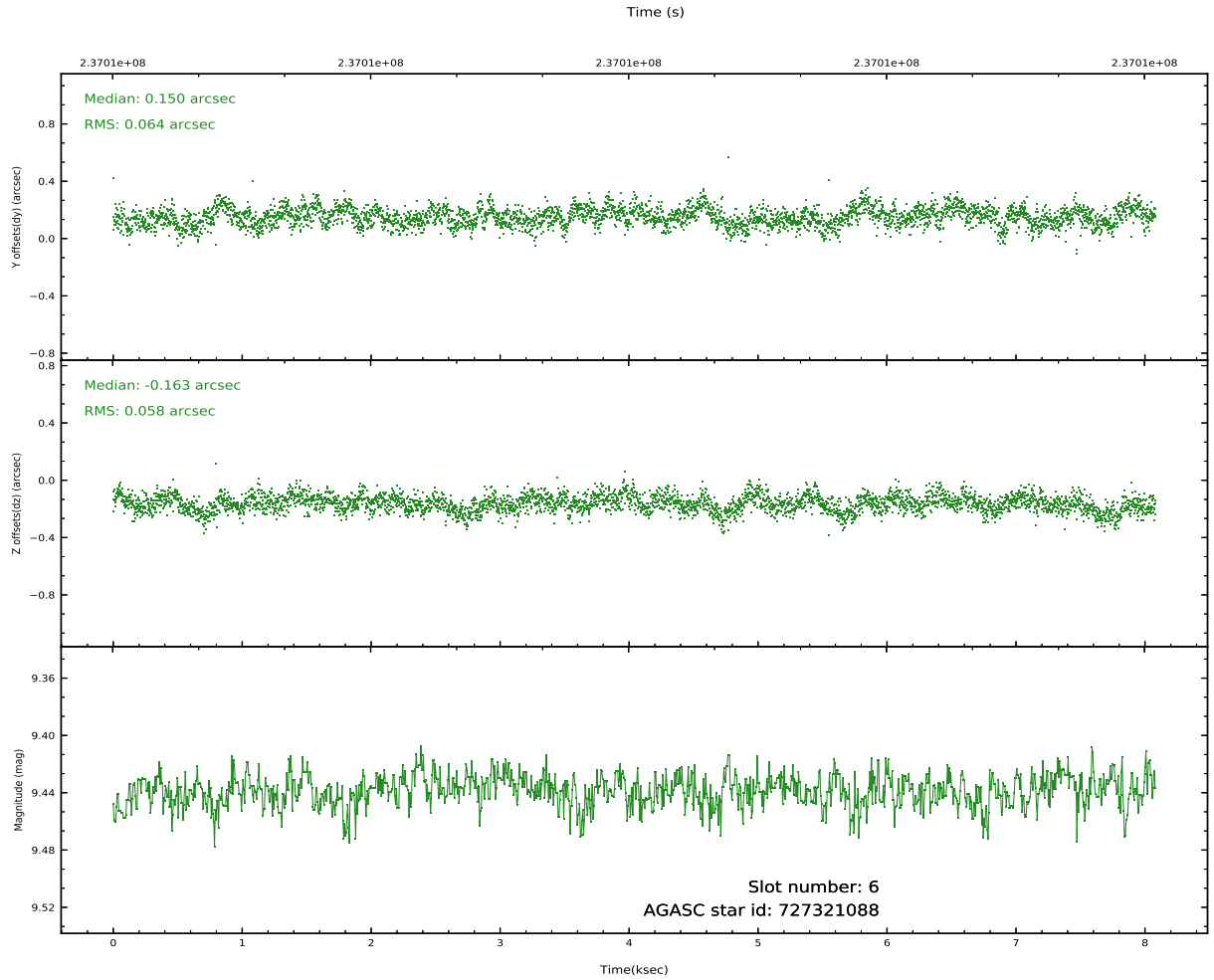
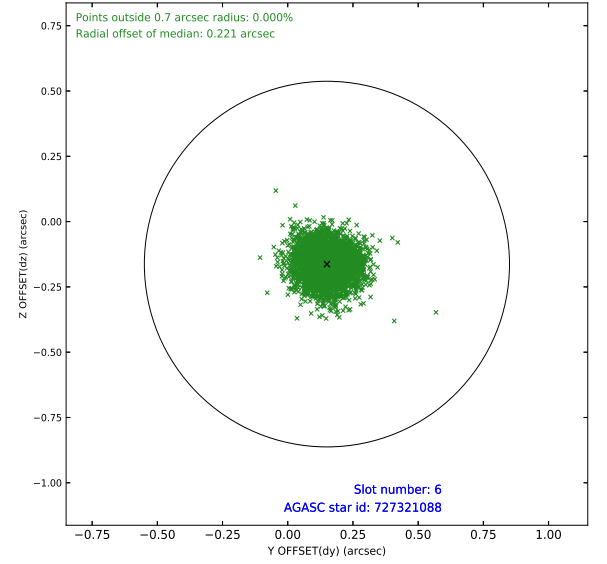
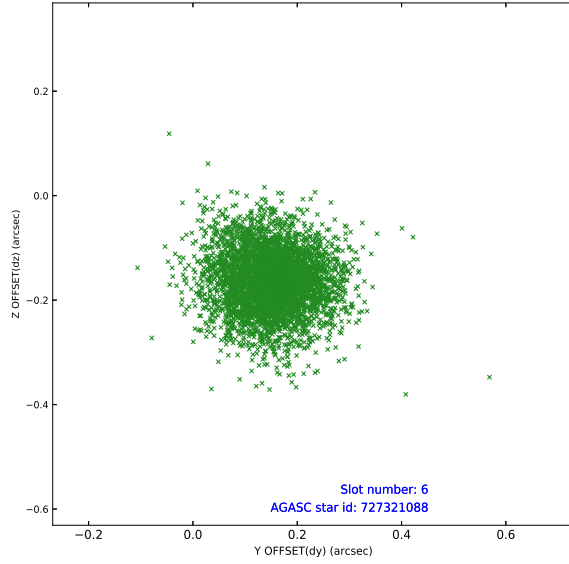
2.4.2 Slot 4



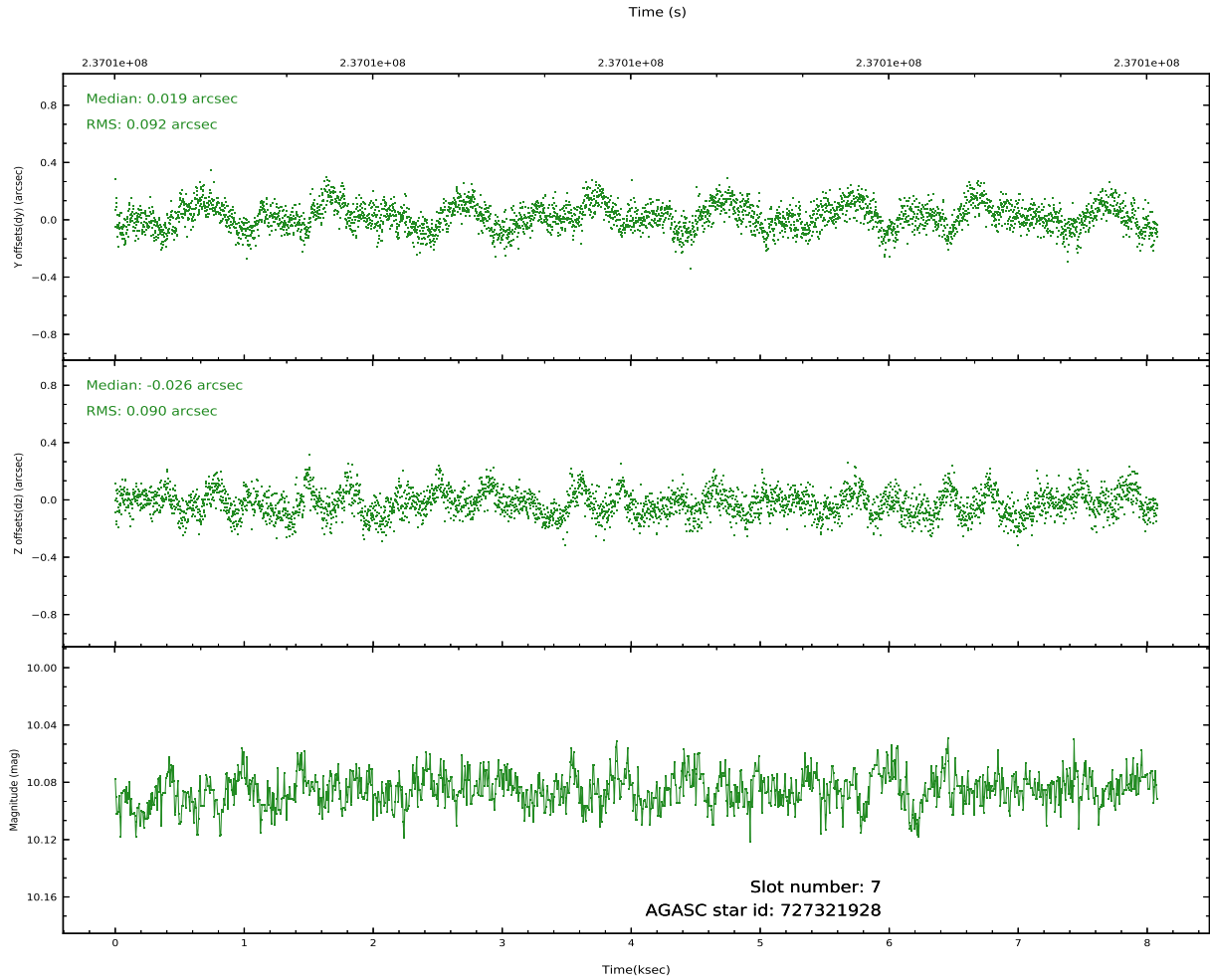
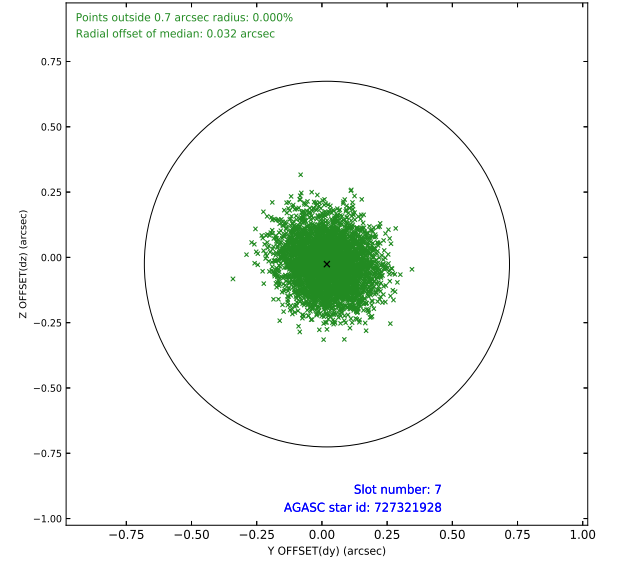
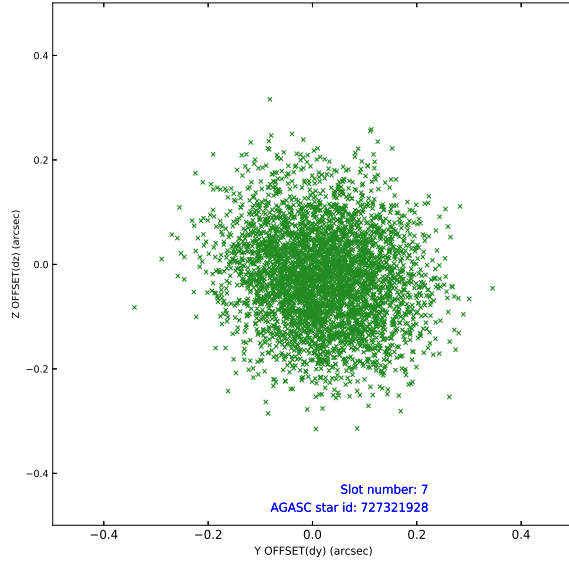
2.4.3 Slot 5



2.4.4 Slot 6

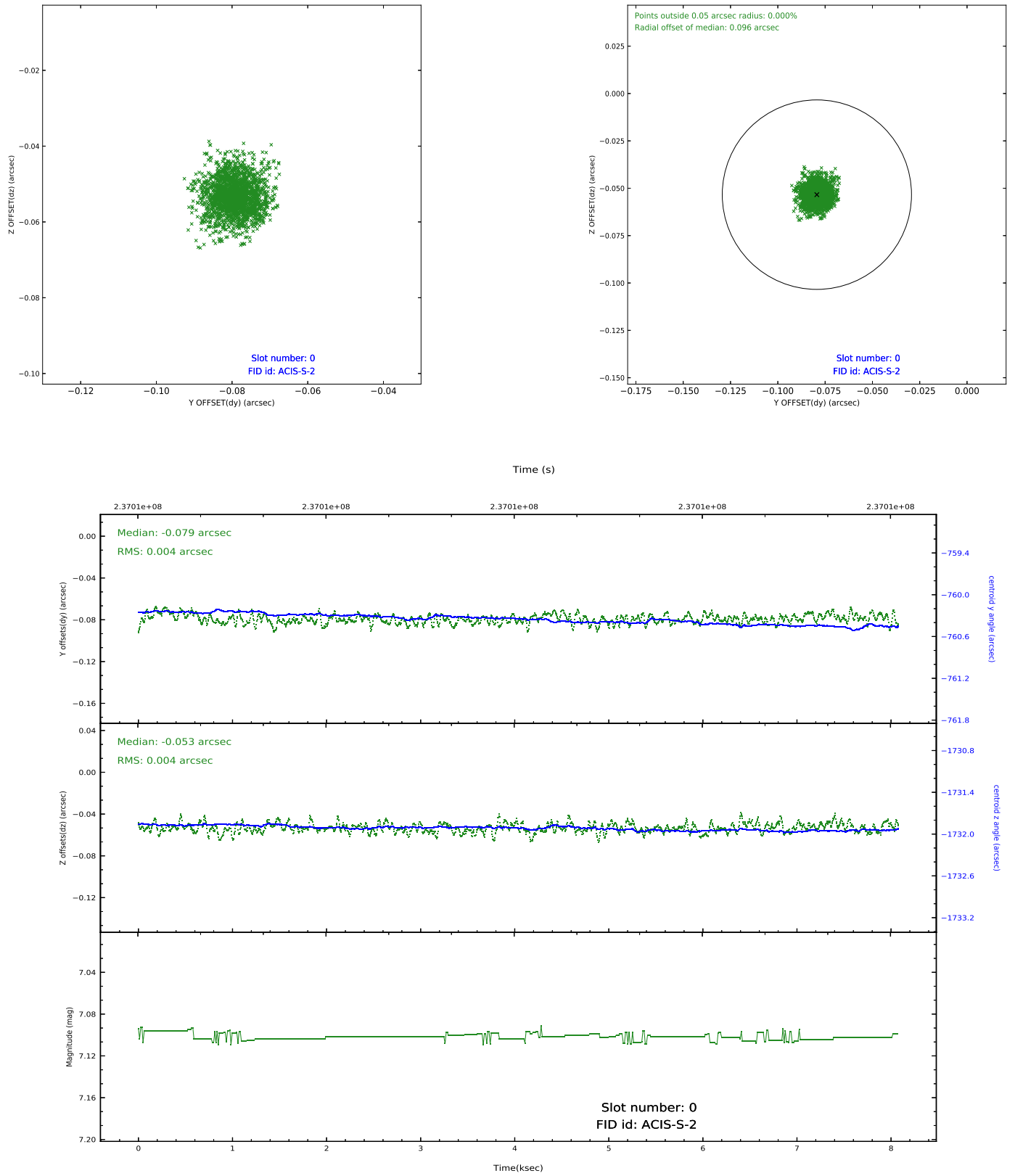


2.4.5 Slot 7

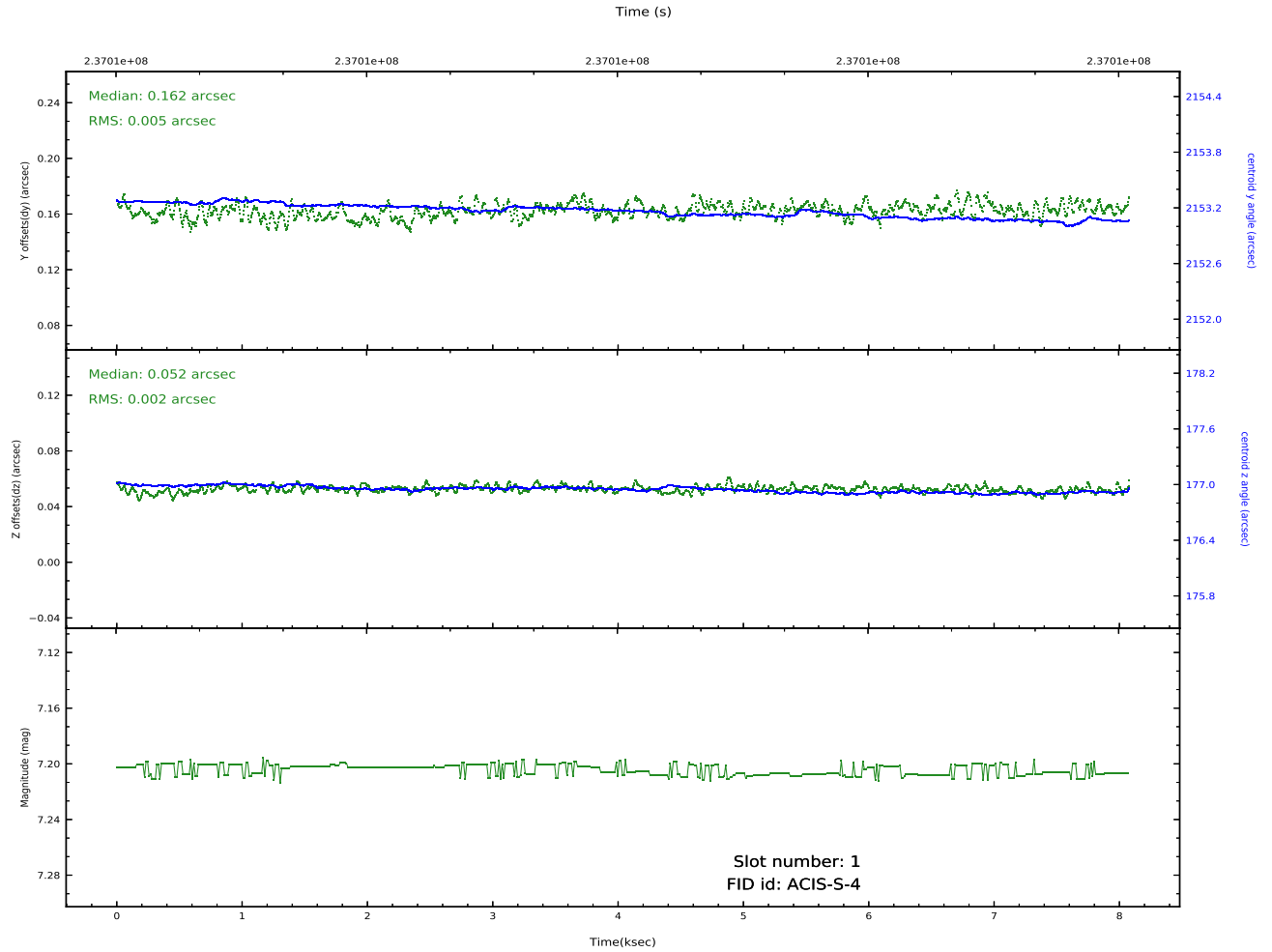
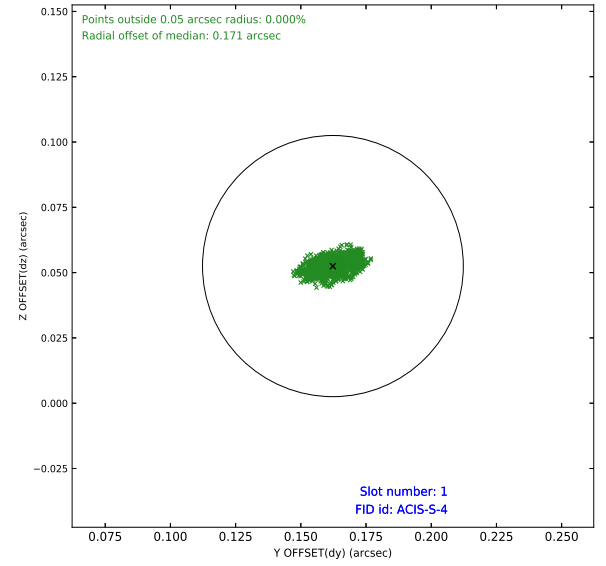
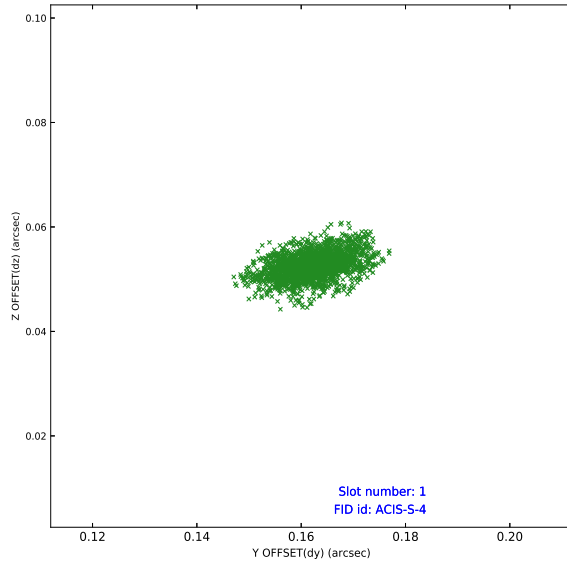


2.5 FID Slots

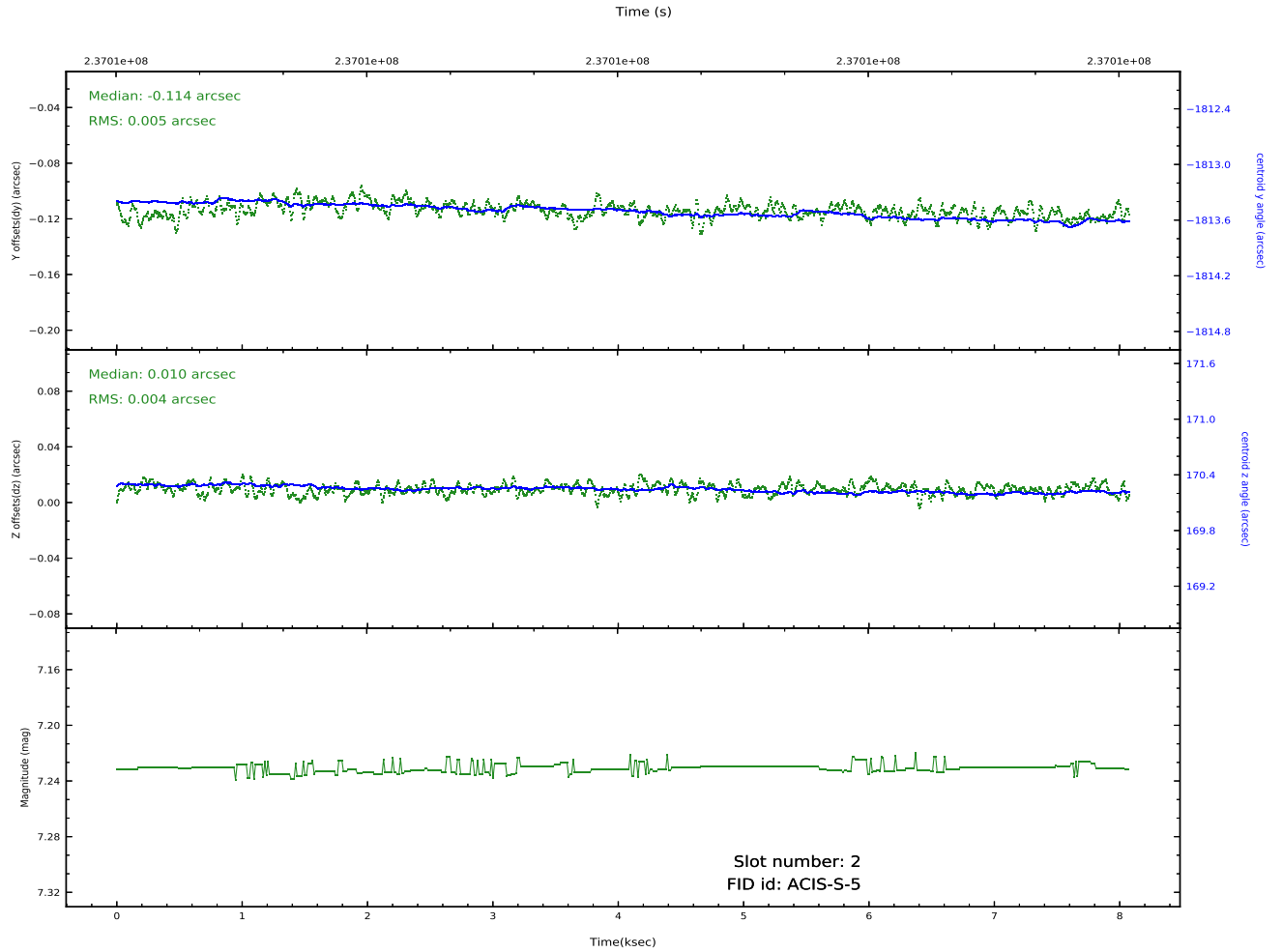
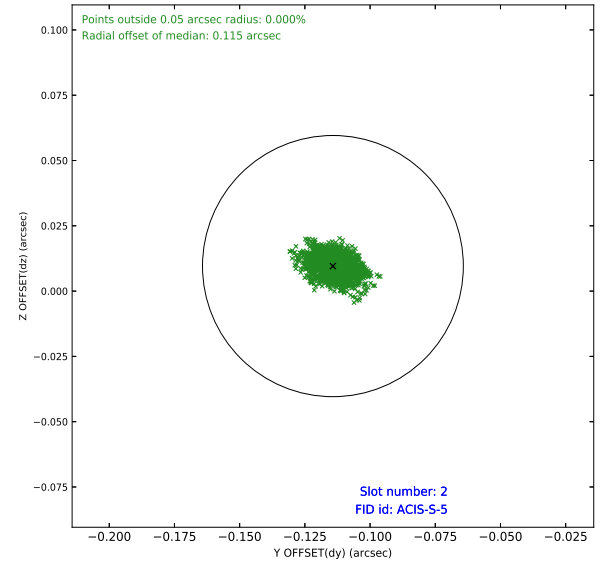
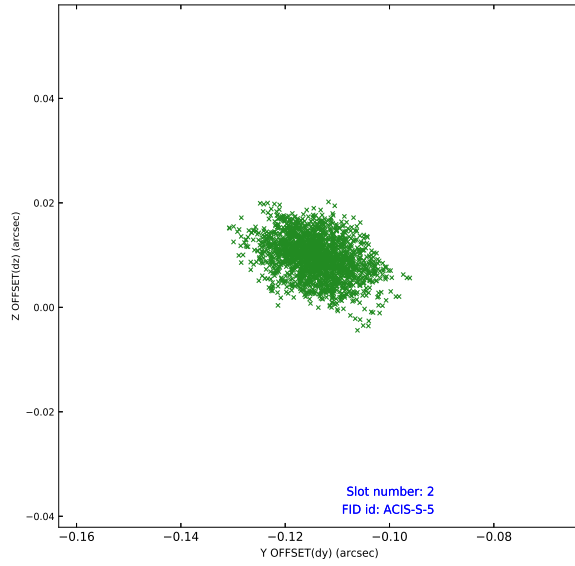
2.5.1 Slot 0



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	8.079999

A.2 Comments

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. Window constraint met.