

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6332 - L2 Version 4
Chandra X-Ray Center

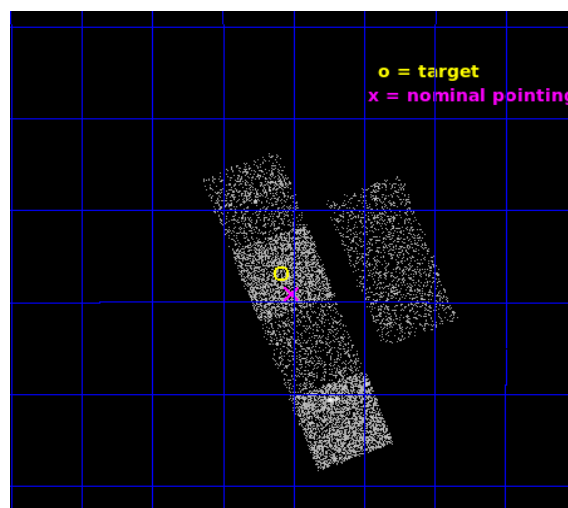
L2 Processing Date : Oct 9 2020

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1 Front

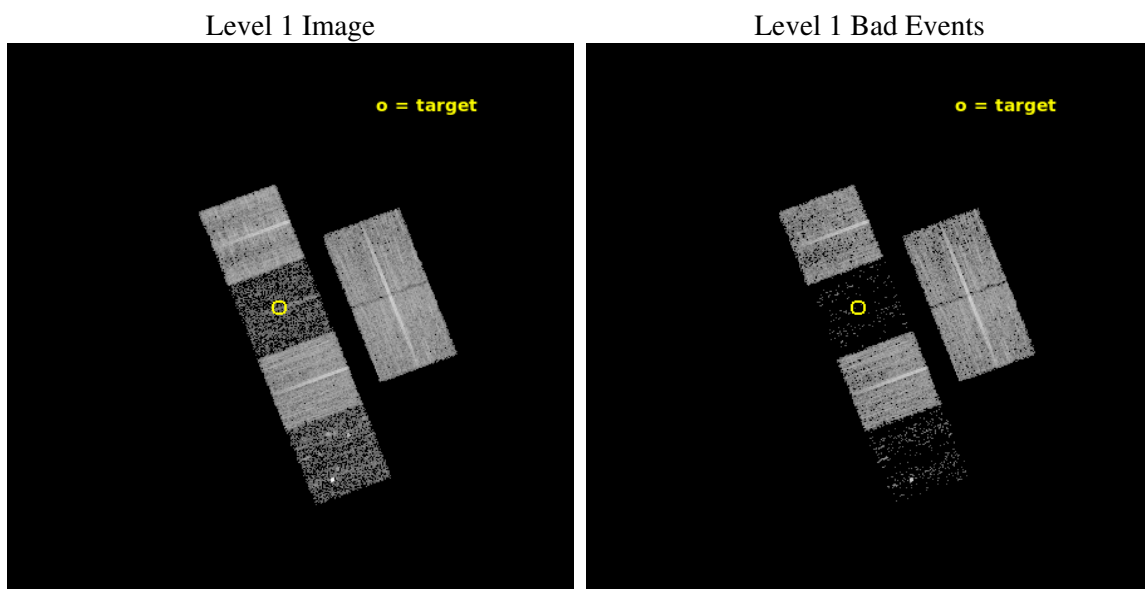
seq_num	100055	Sequence number
obs_id	6332	Observation id
title	Comet 9P/Tempel 1 During the Deep Impact Encounter	Proposal title
observer	Carey Lisse	Principal investigator
object	Comet 9P/Tempel 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	205.272362	Observer's specified target RA [deg]
dec_targ	-10.281762	Observer's specified target Dec [deg]
ra_nom	205.25296232739	Nominal RA [deg]
dec_nom	-10.318158776138	Nominal Dec [deg]
roll_nom	249.06254219502	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8079.9999698997	Sum of GTIs [s]
livetime	7977.6861450889	Livetime [s]
ontime2	8079.9999698997	Sum of GTIs [s]
ontime3	8079.9999698997	Sum of GTIs [s]
ontime5	8079.9999698997	Sum of GTIs [s]
ontime6	8079.9999698997	Sum of GTIs [s]
ontime7	8079.9999698997	Sum of GTIs [s]
ontime8	8079.9999698997	Sum of GTIs [s]
l2events	11350	Number of level 2 events



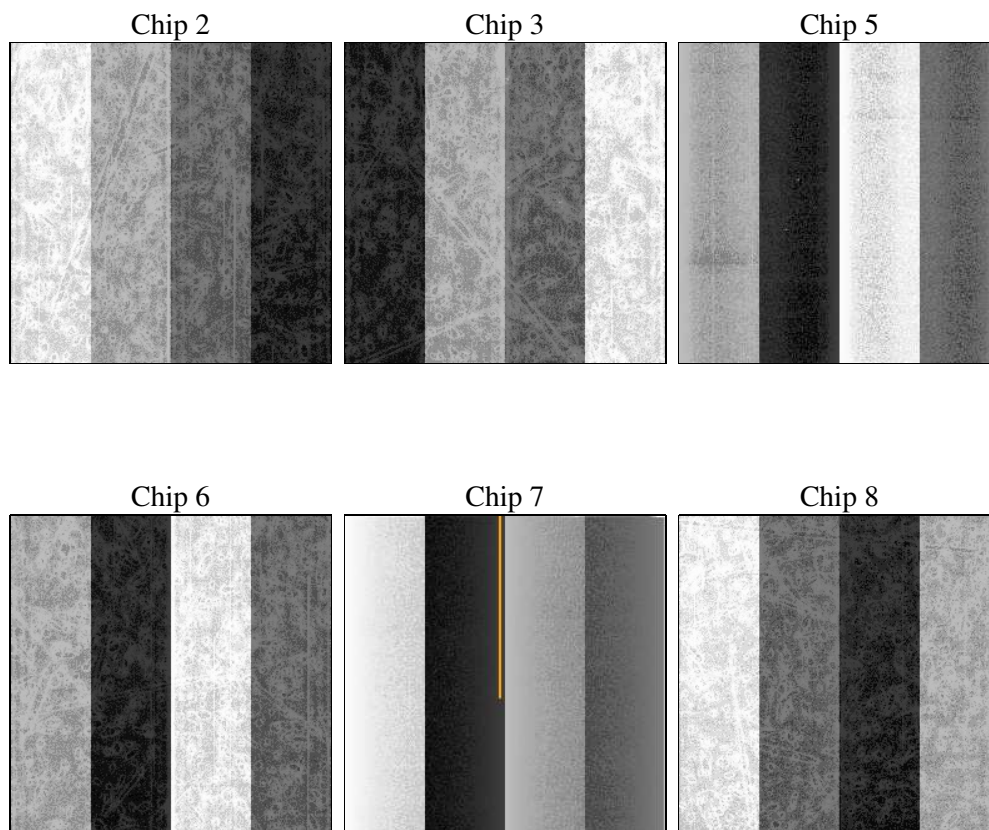
2 OBI

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	8079.9999698997	Sum of GTIs [s]
date	2020-10-09T07:18:36	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	8079.9999698997	Sum of GTIs [s]
			ontime7	8079.9999698997	Sum of GTIs [s]
			ontime8	8079.9999698997	Sum of GTIs [s]
			l1events	172530	Number of level 1 events

2.1.4 Events

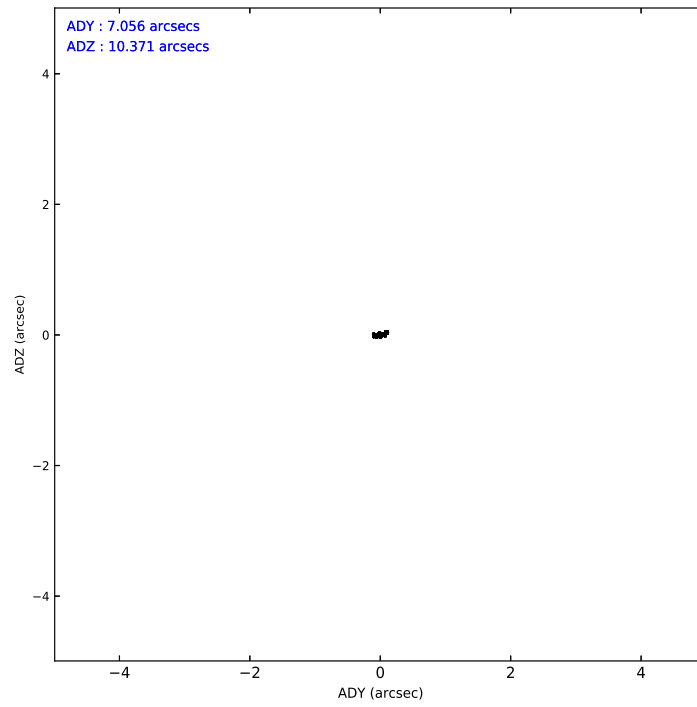
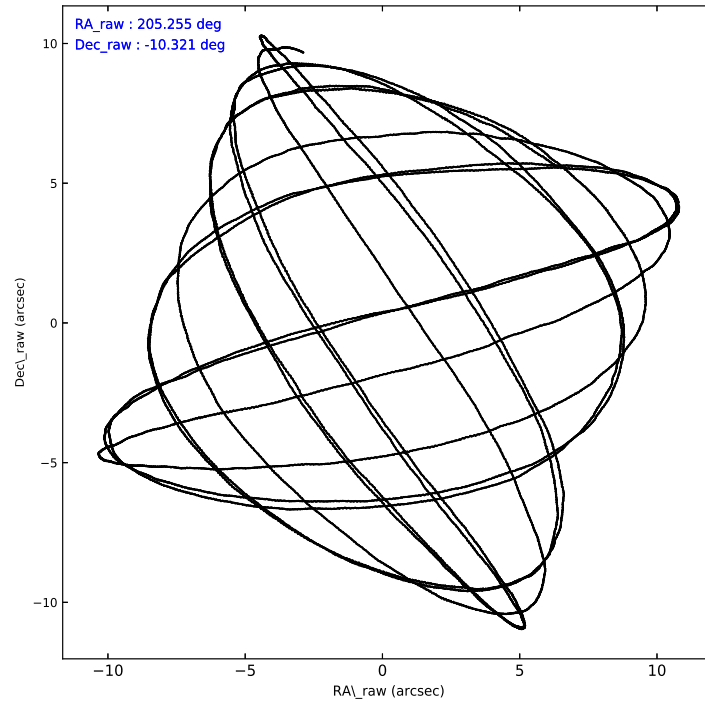
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	42997	34914	9043	38740	4912	41924
rejected events	41315	33697	2739	37139	1225	31975
rejected %	96%	96%	30%	95%	24%	76%

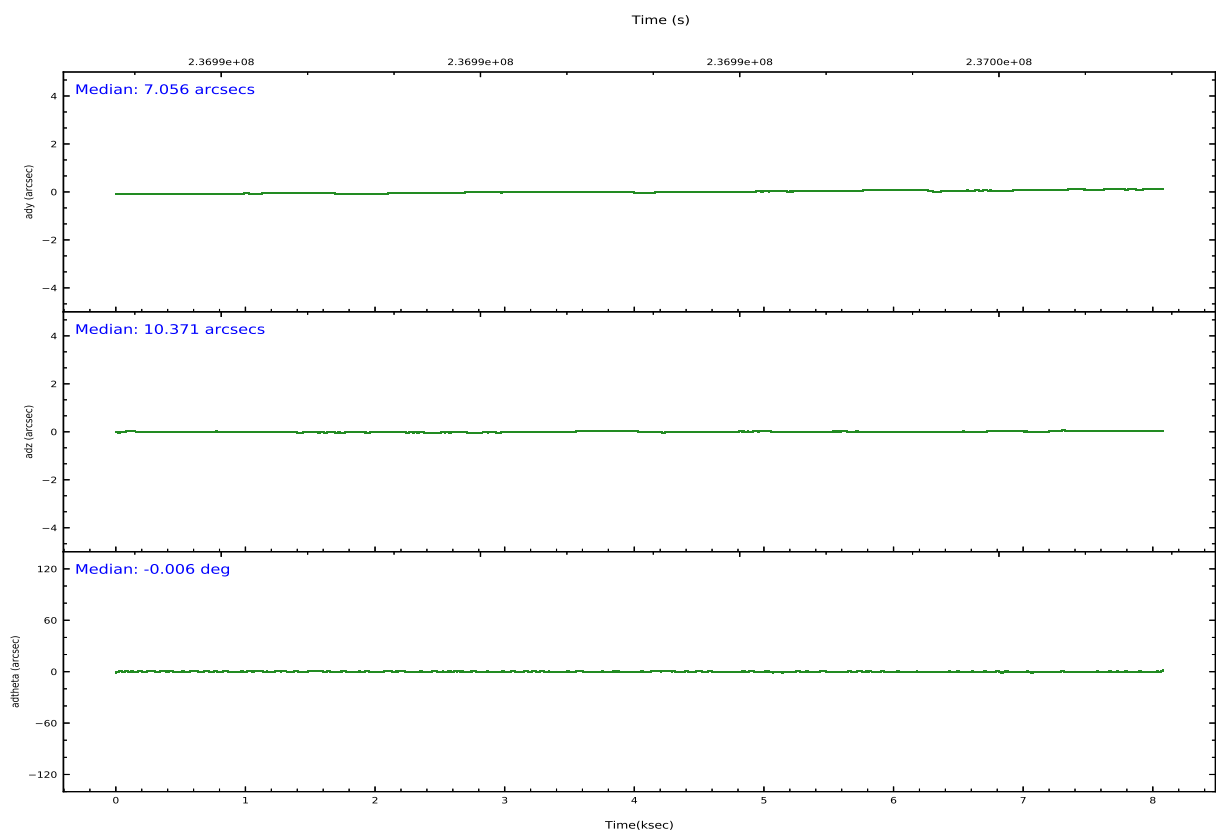
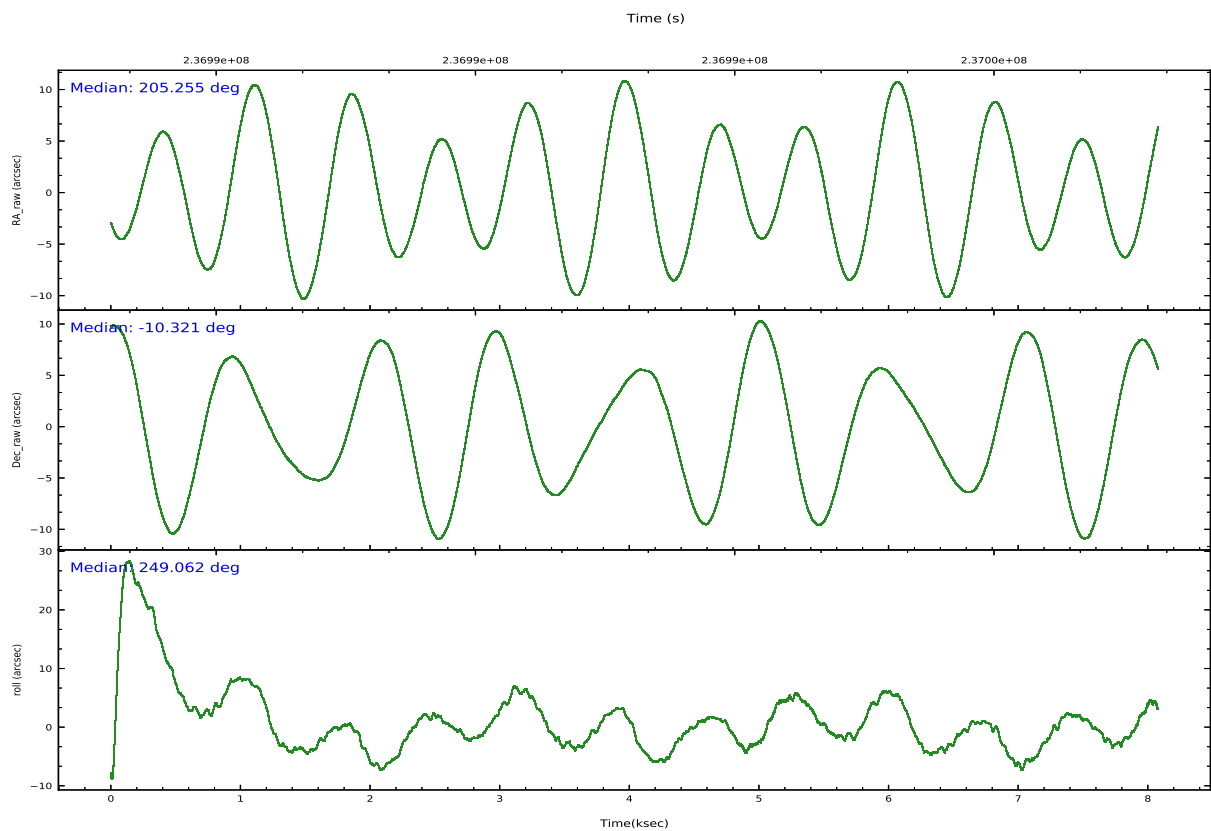
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	729	572	1987	770	972	2865
	1%	1%	21%	1%	19%	6%
grade 1 events	9	7	398	6	28	30
	0%	0%	4%	0%	0%	0%
grade 2 events	365	151	2927	321	1313	2348
	0%	0%	32%	0%	26%	5%
grade 3 events	230	234	556	247	541	1227
	0%	0%	6%	0%	11%	2%
grade 4 events	256	204	586	219	542	1098
	0%	0%	6%	0%	11%	2%
grade 5 events	55	30	362	30	143	198
	0%	0%	4%	0%	2%	0%
grade 6 events	171	103	526	113	466	2872
	0%	0%	5%	0%	9%	6%
grade 7 events	41182	33613	1701	37034	907	31286
	95%	96%	18%	95%	18%	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	205.250405	205.25296232739	Subarray requested	NONE	NONE
[deg] Pointing Dec	-10.294331	-10.318158776138	Alternating exposures requested	N	N
[deg] Pointing Roll	248.902249	249.06254219502	[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)	236989366.184000	236988990.32894			
Observation start date	2005-07-05T22:21:42	2005-07-05T22:16:30			
[s] Observation end time (MET)	236997266.184000	236997400.45432			
Observation end date	2005-07-06T00:33:22	2005-07-06T00:36:40			
Read mode	TIMED	TIMED			

2.3 Aspect



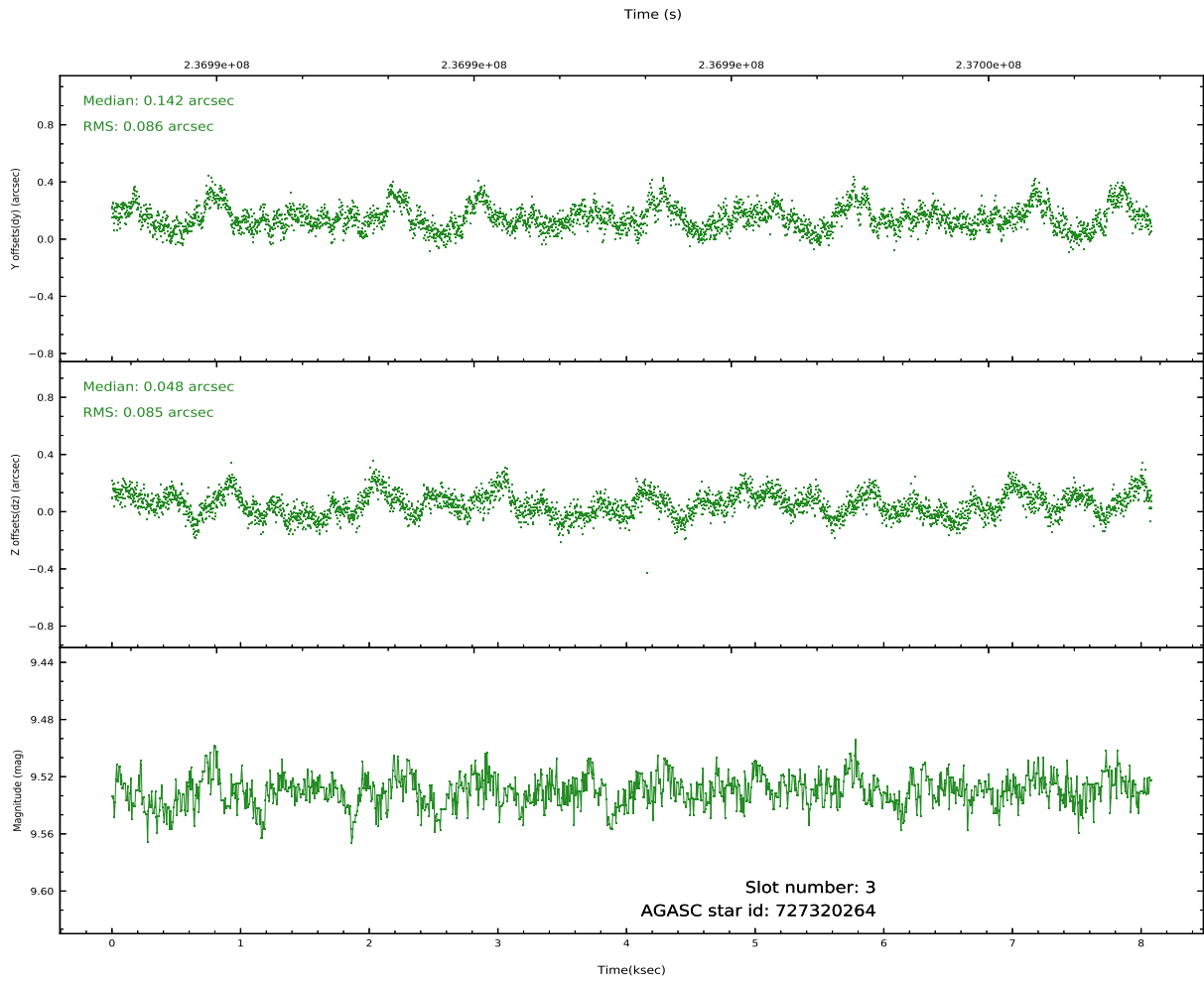
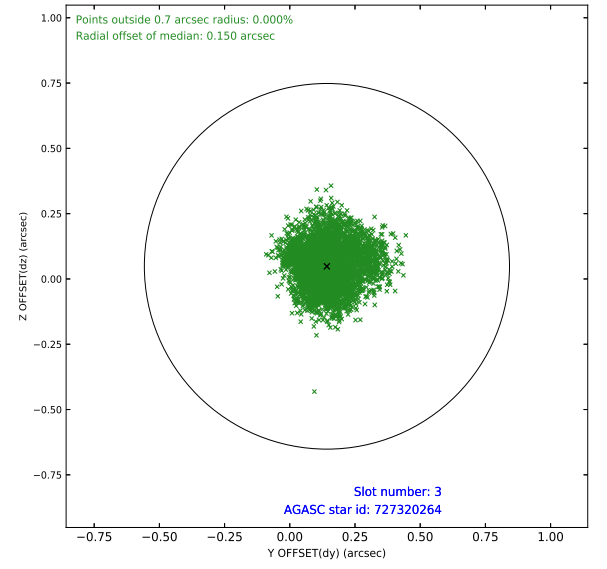
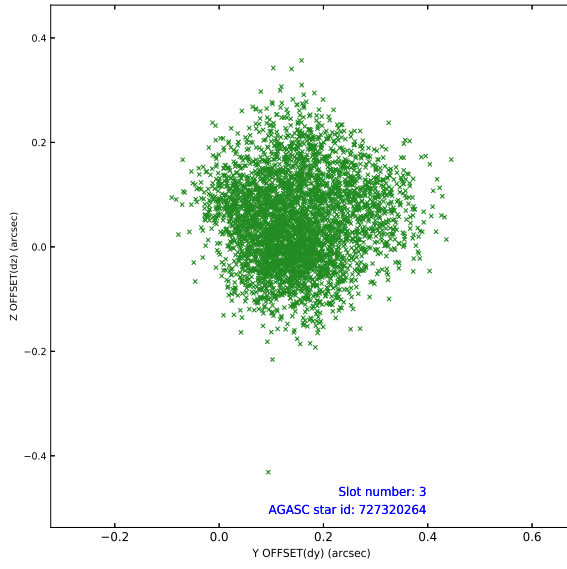


Slot Statistics

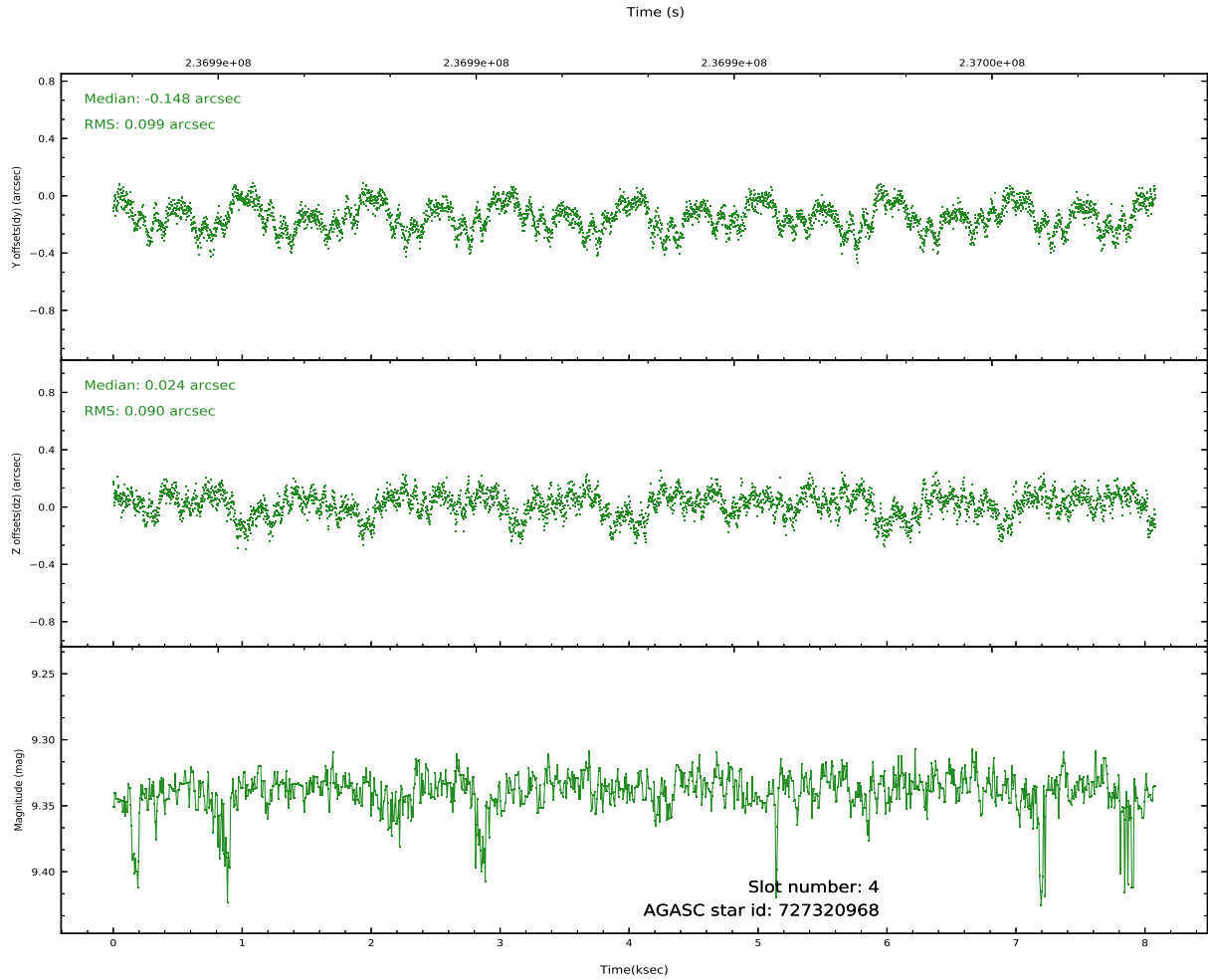
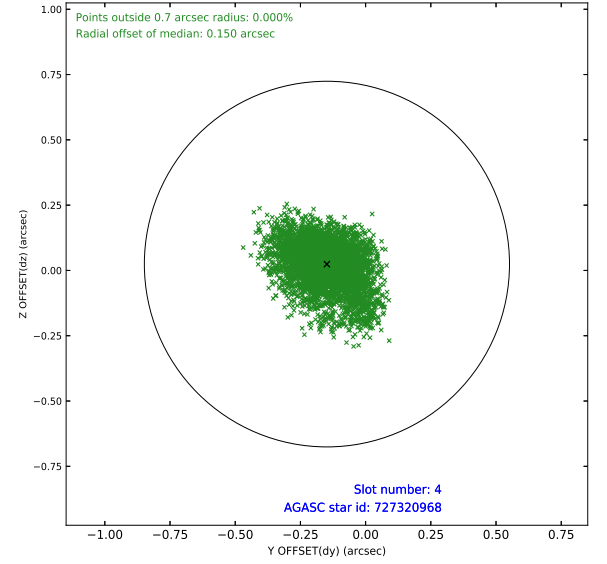
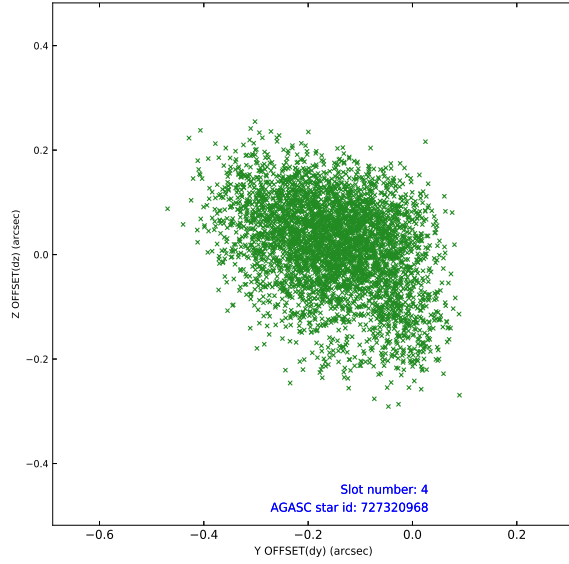
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1971	1.000	-0.091	-0.060	0.006	0.011	0.000000	0.000000	-759.83	-1731
1	FID		ACIS-S-4	7.21	1971	1.000	0.166	0.060	0.005	0.009	0.000000	0.000000	2153.31	176
2	FID		ACIS-S-5	7.23	1971	1.000	-0.107	0.009	0.006	0.011	0.000000	0.000000	-1811.87	170
3	GUIDE	used	727320264	9.53	3941	1.000	0.142	0.048	0.131	0.203	205.464326	-10.871323	1666.23	1454
4	GUIDE	used	727320968	9.34	3939	1.000	-0.148	0.024	0.143	0.235	205.790359	-10.593418	318.61	2171
5	GUIDE	used	727321088	9.45	3935	1.000	0.128	-0.182	0.110	0.171	204.964296	-10.686432	1682.36	-435
6	GUIDE	used	727321928	10.09	3937	1.000	0.013	0.062	0.166	0.264	205.258401	-10.105722	-643.13	-217
7	GUIDE	used	726937296	9.88	3940	1.000	-0.130	0.046	0.184	0.292	205.957534	-9.863016	-2348.89	1782

2.4 Star Slots

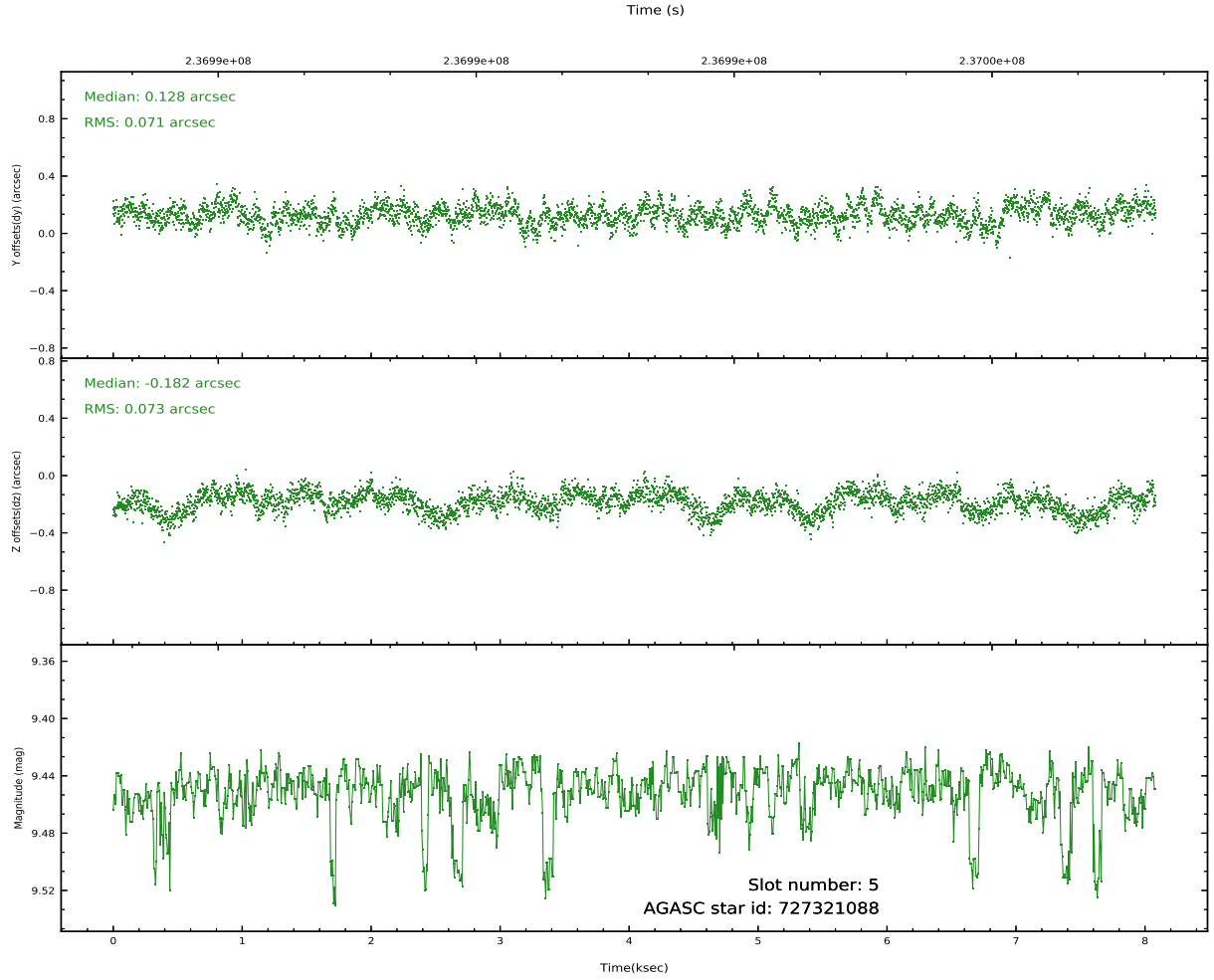
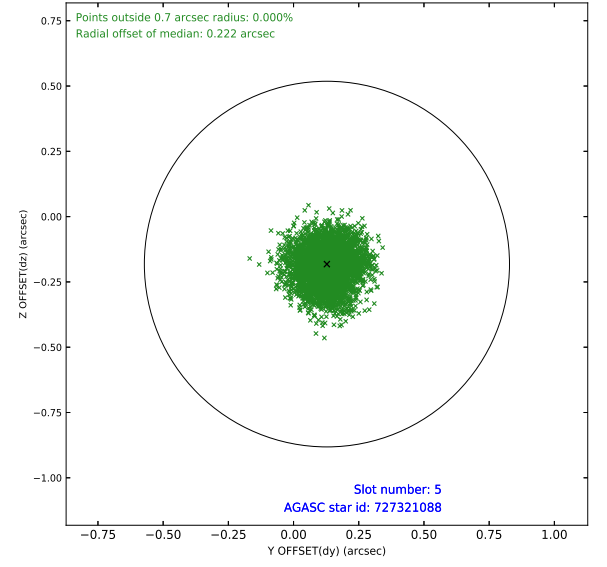
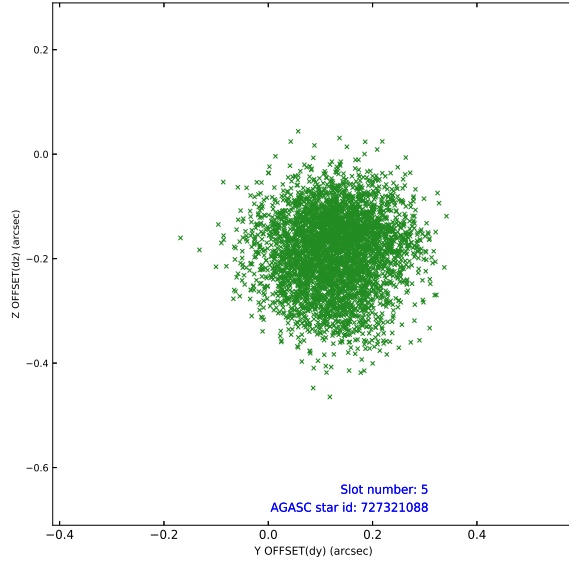
2.4.1 Slot 3



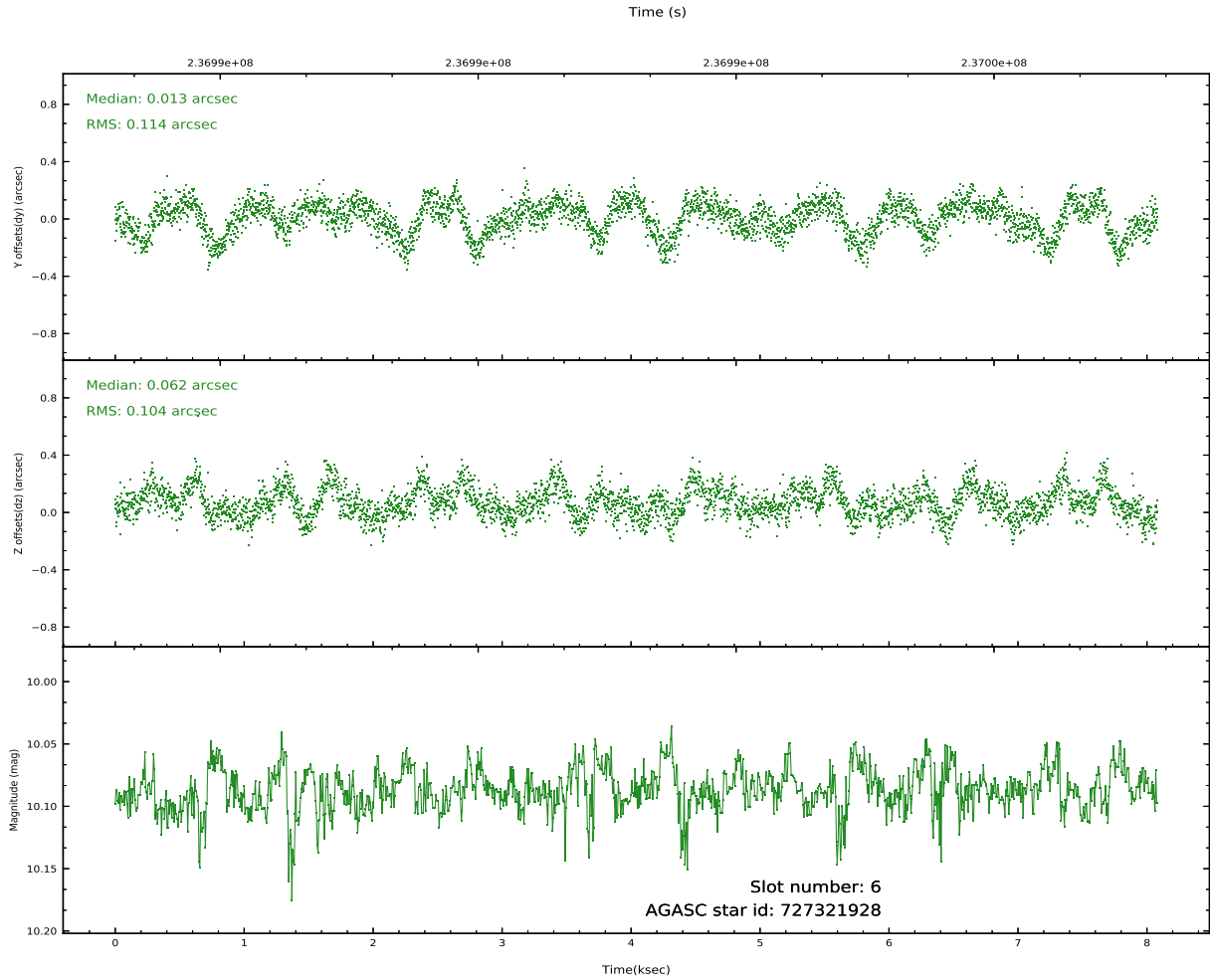
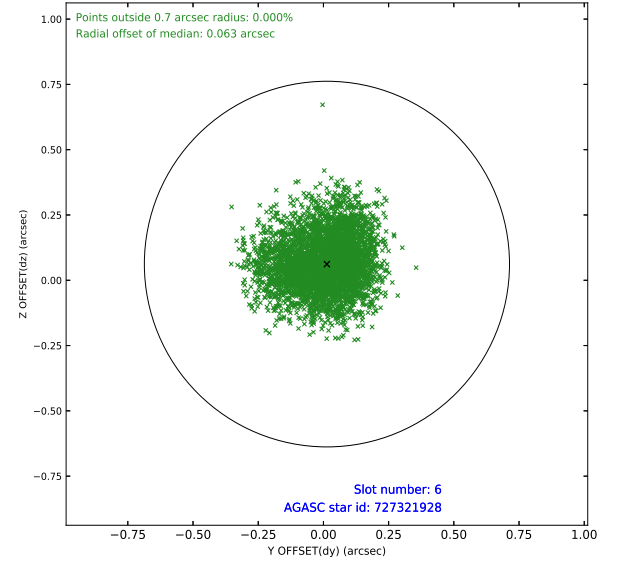
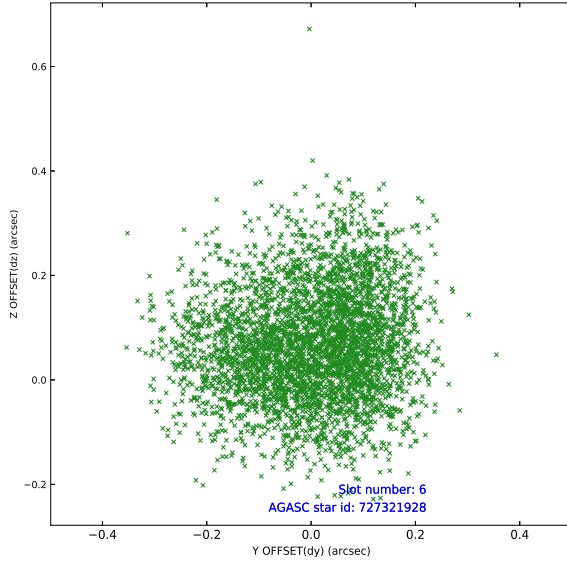
2.4.2 Slot 4



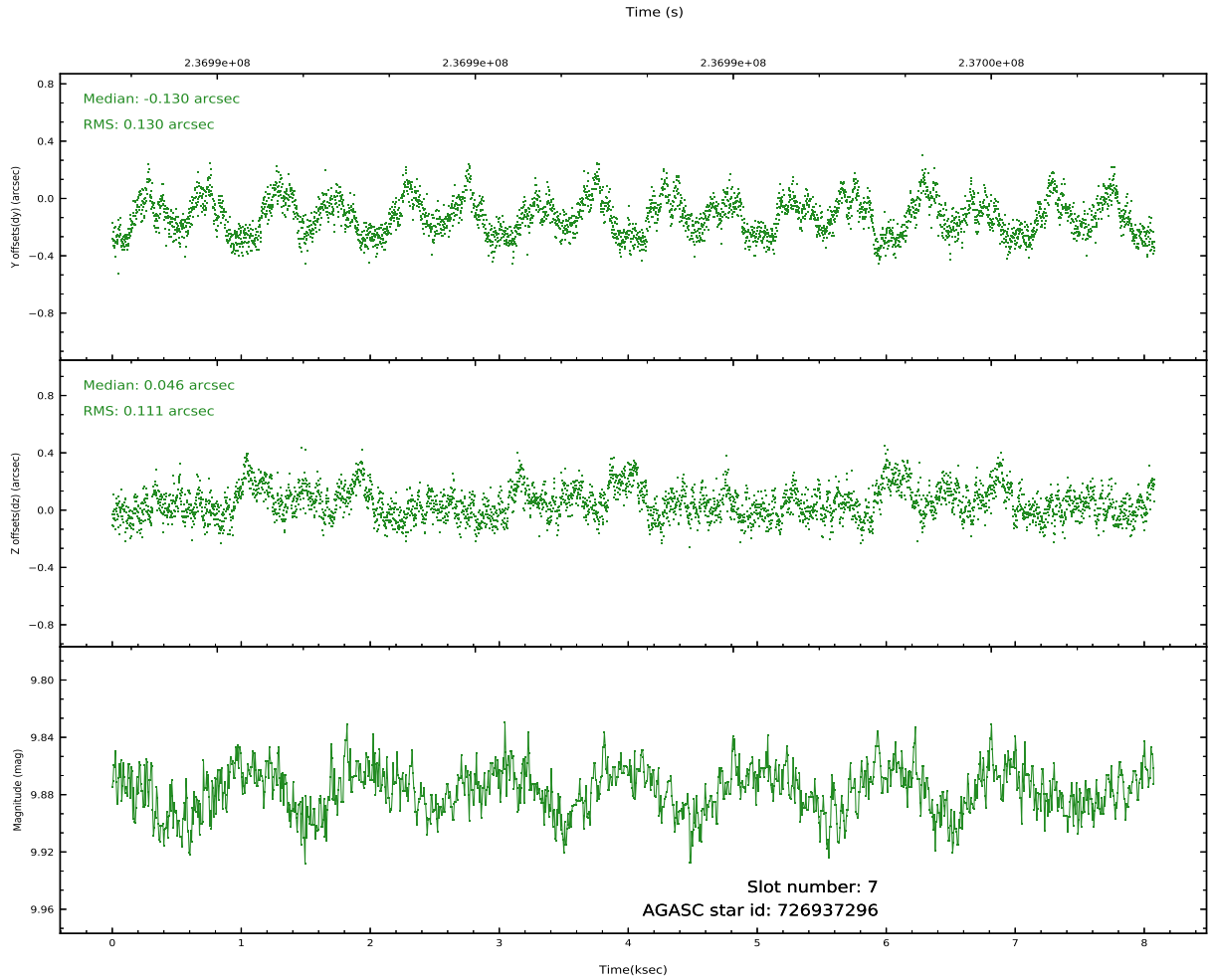
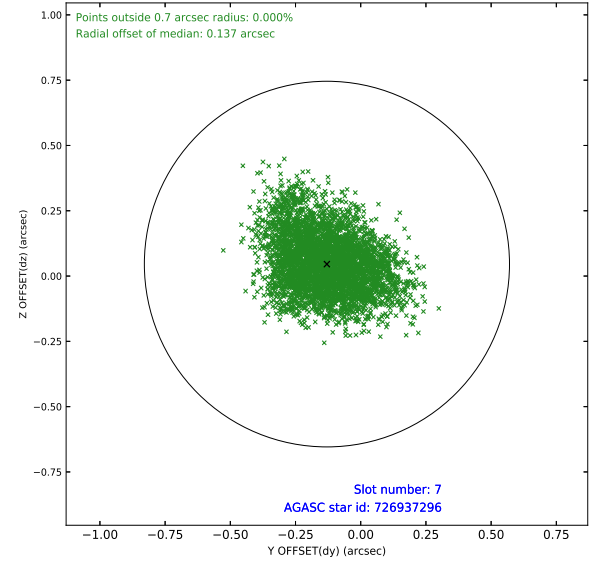
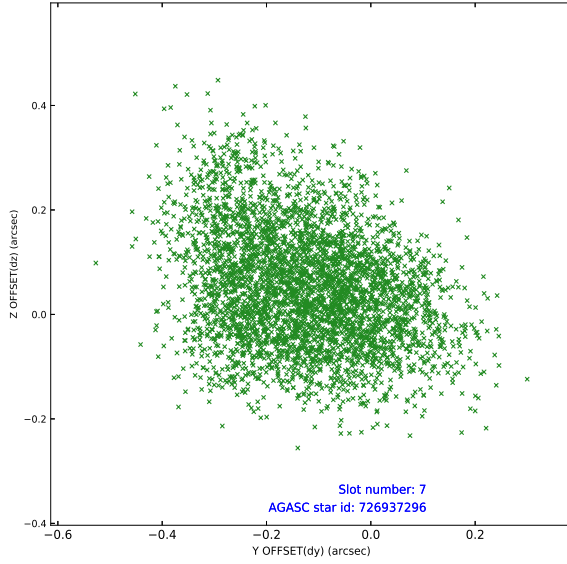
2.4.3 Slot 5



2.4.4 Slot 6

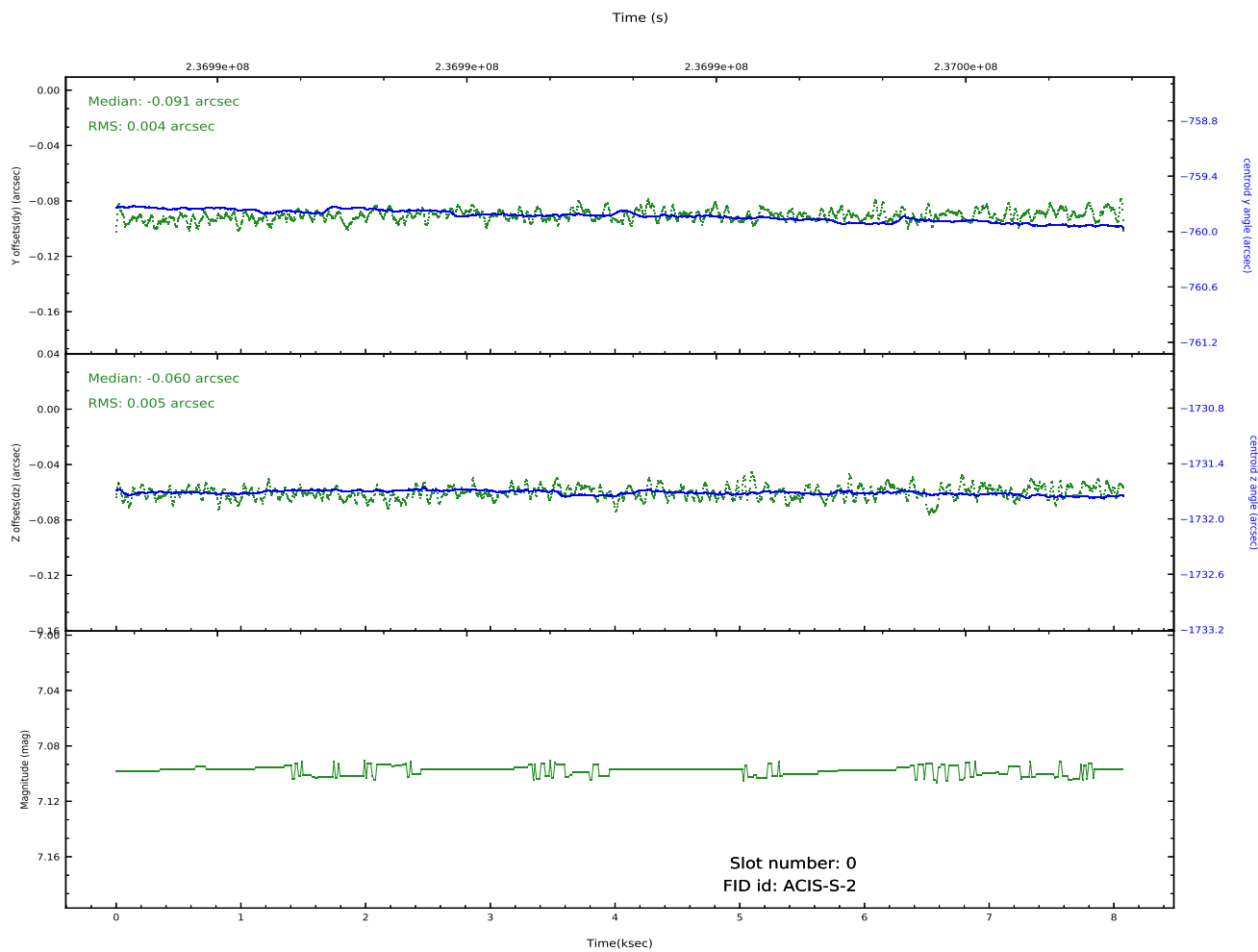
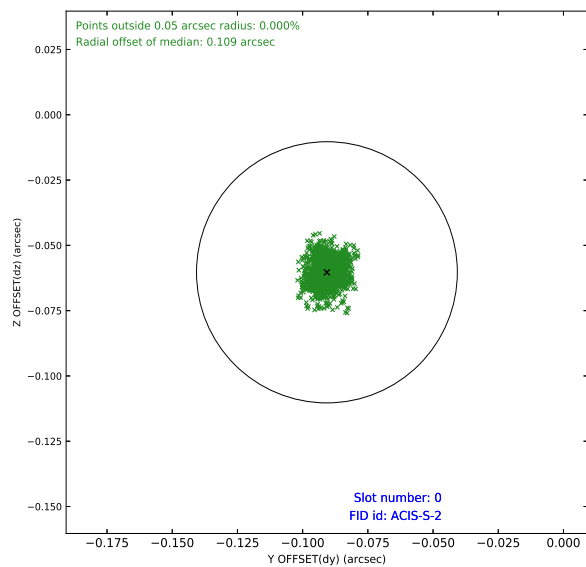
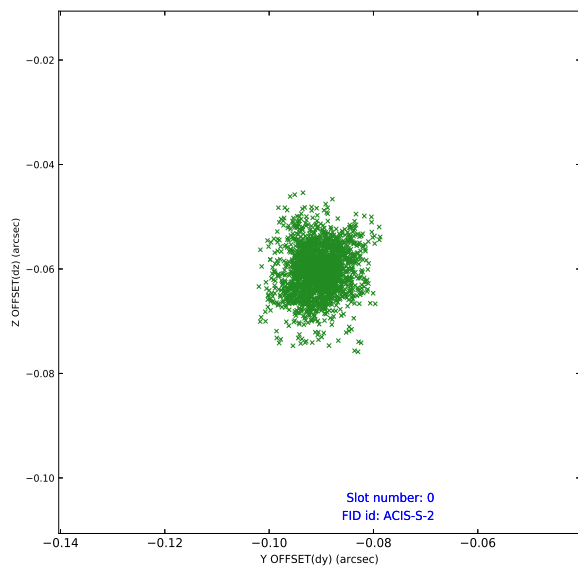


2.4.5 Slot 7

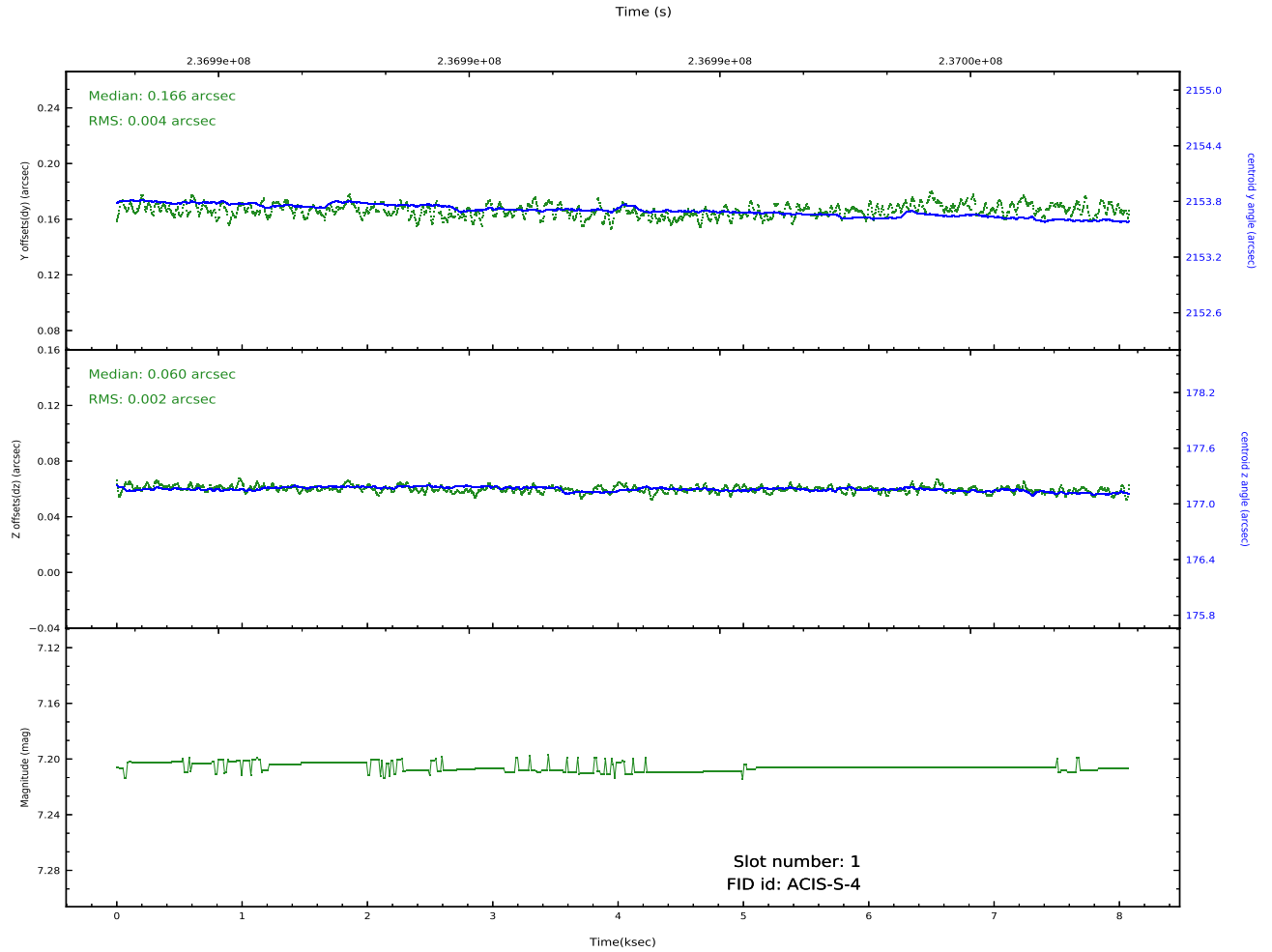
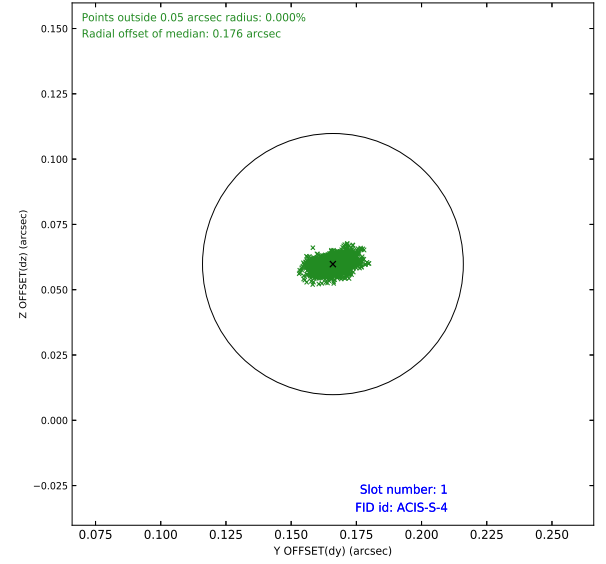
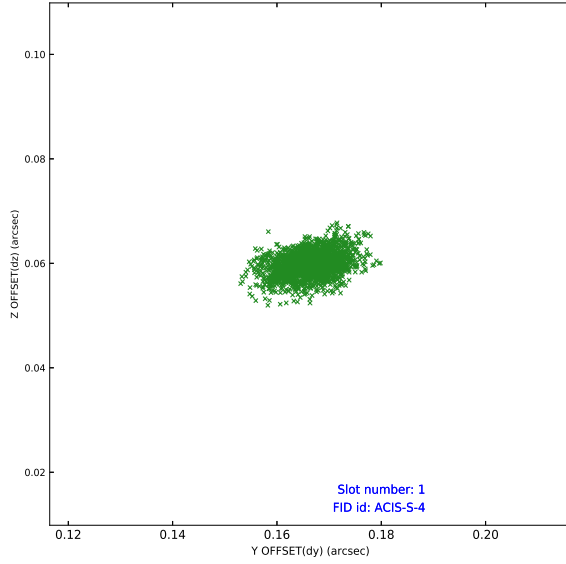


2.5 FID Slots

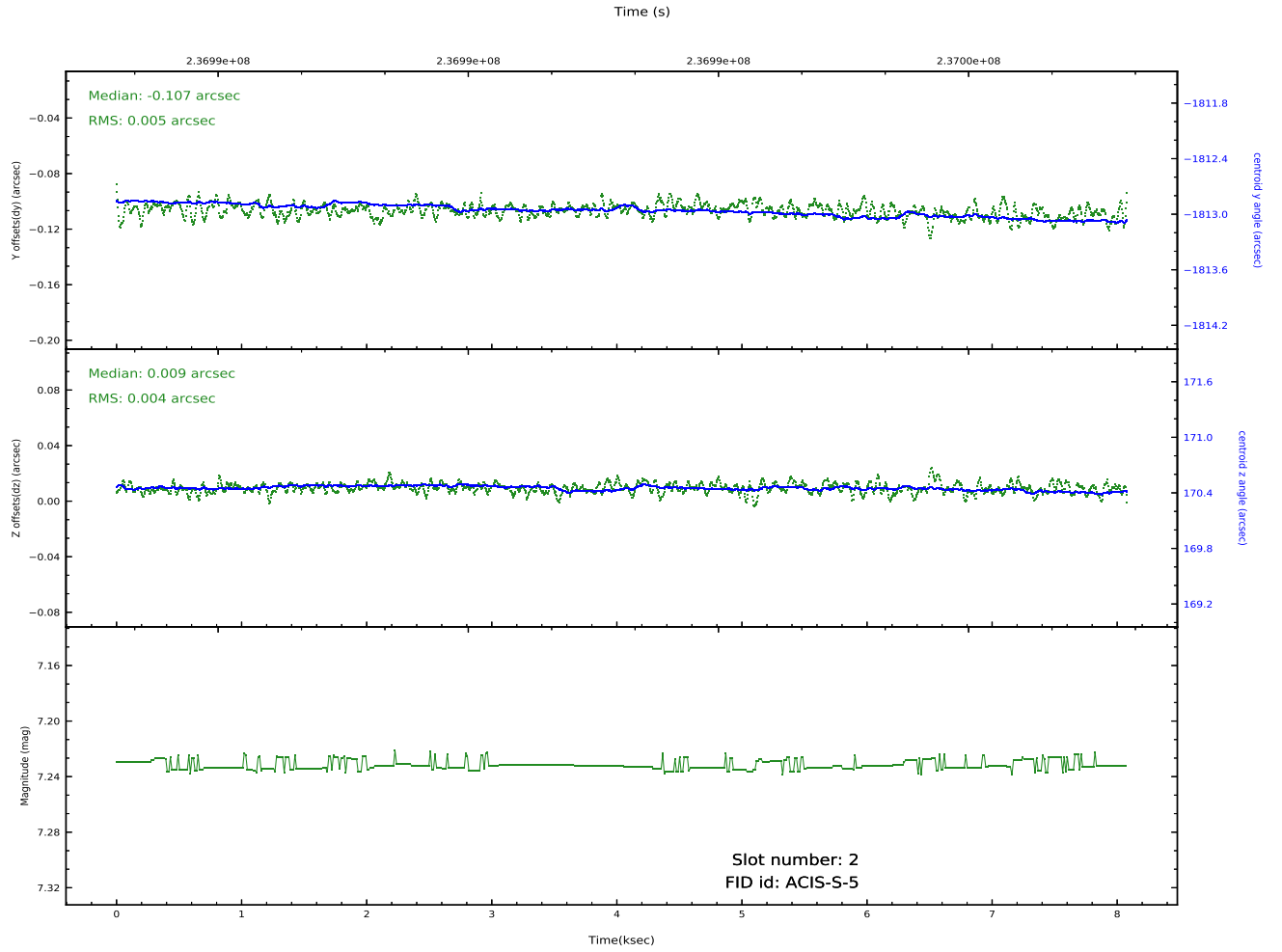
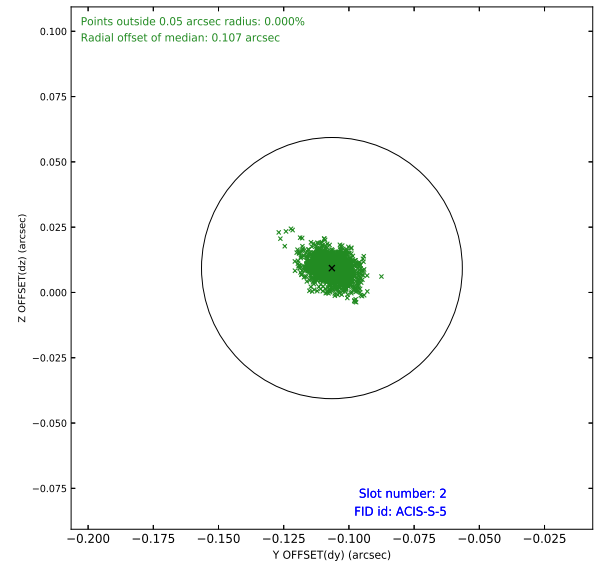
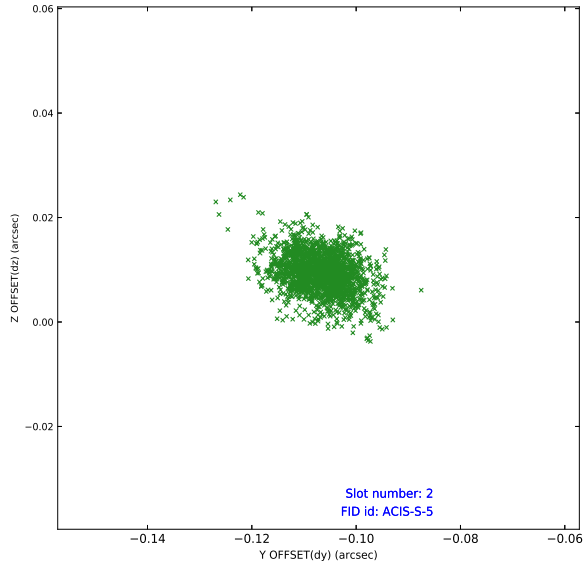
2.5.1 Slot 0



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

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.