

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6320 - L2 Version 4
Chandra X-Ray Center

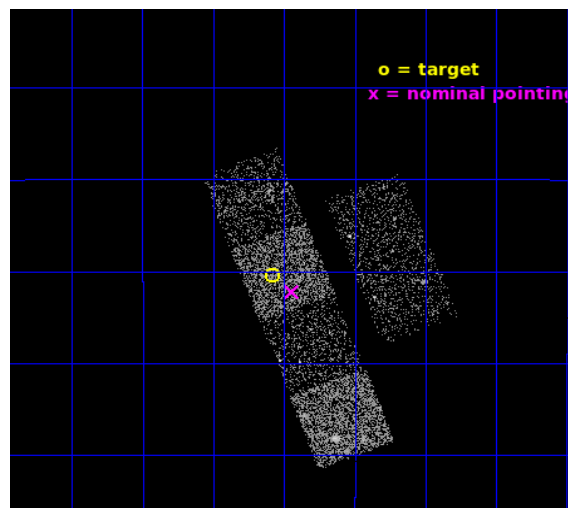
L2 Processing Date : Oct 9 2020

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1 Front

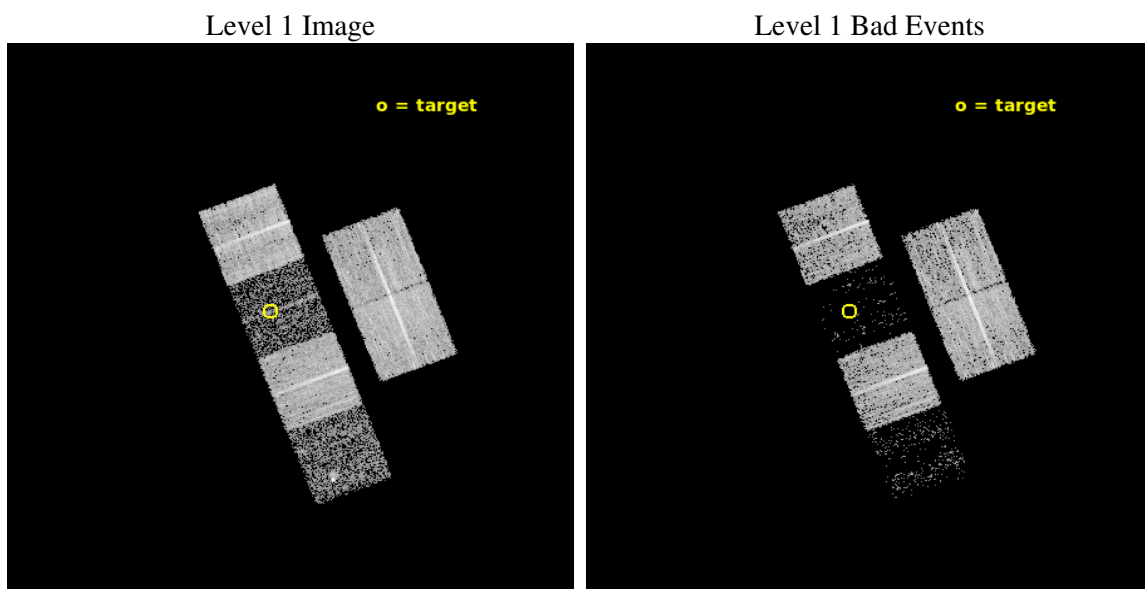
seq_num	100060	Sequence number
obs_id	6320	Observation id
title	Comet 9P/Tempel 1 During the Deep Impact Encounter	Proposal title
observer	Carey Lisse	Principal investigator
object	Comet 9P/Tempel 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	204.520953	Observer's specified target RA [deg]
dec_targ	-9.673485	Observer's specified target Dec [deg]
ra_nom	204.4860159424	Nominal RA [deg]
dec_nom	-9.7037278048947	Nominal Dec [deg]
roll_nom	248.85820657267	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7177.5999732614	Sum of GTIs [s]
livetime	7086.7128805681	Livetime [s]
ontime2	7177.5999732614	Sum of GTIs [s]
ontime3	7177.5999732614	Sum of GTIs [s]
ontime5	7177.5999732614	Sum of GTIs [s]
ontime6	7177.5999732614	Sum of GTIs [s]
ontime7	7177.5999732614	Sum of GTIs [s]
ontime8	7177.5999732614	Sum of GTIs [s]
l2events	10423	Number of level 2 events



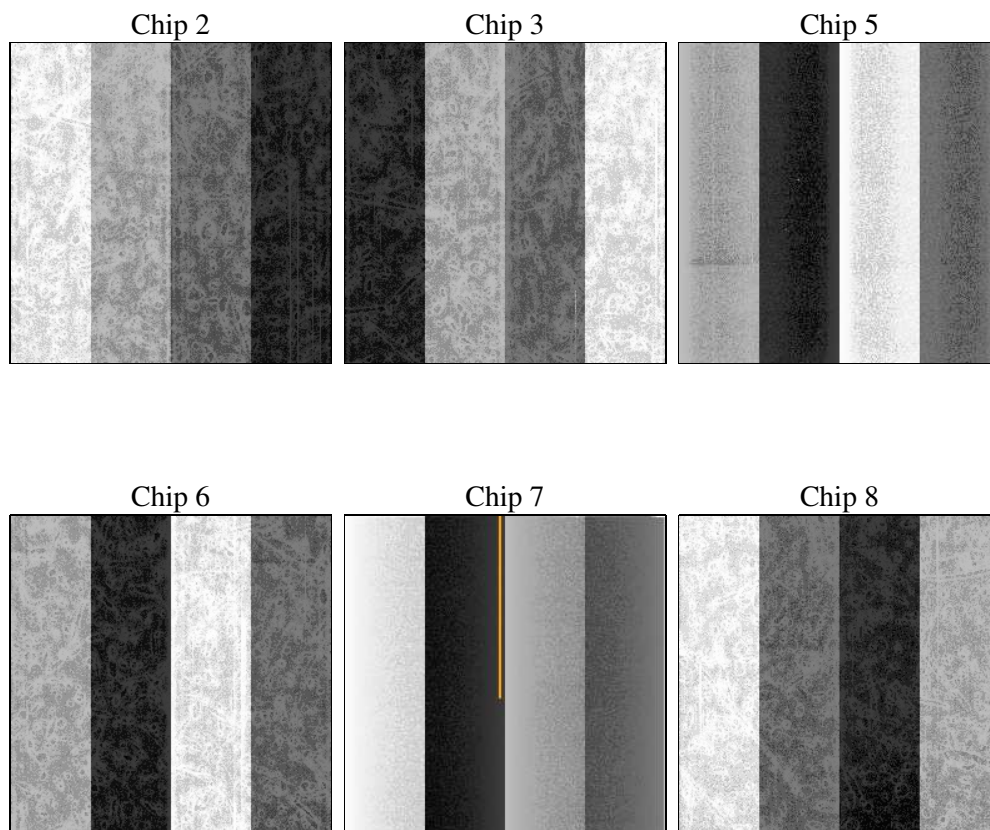
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	7177.5999732614	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	7177.5999732614	Sum of GTIs [s]
date	2020-10-09T07:47:31	Date and time of file creation	ontime3	7177.5999732614	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	7177.5999732614	Sum of GTIs [s]
			ontime6	7177.5999732614	Sum of GTIs [s]
			ontime7	7177.5999732614	Sum of GTIs [s]
			ontime8	7177.5999732614	Sum of GTIs [s]
			l1events	152089	Number of level 1 events

2.1.4 Events

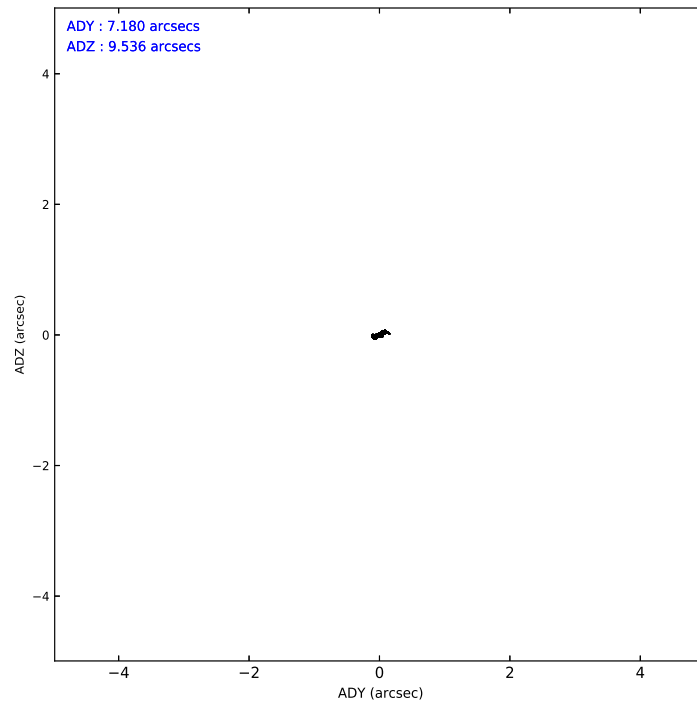
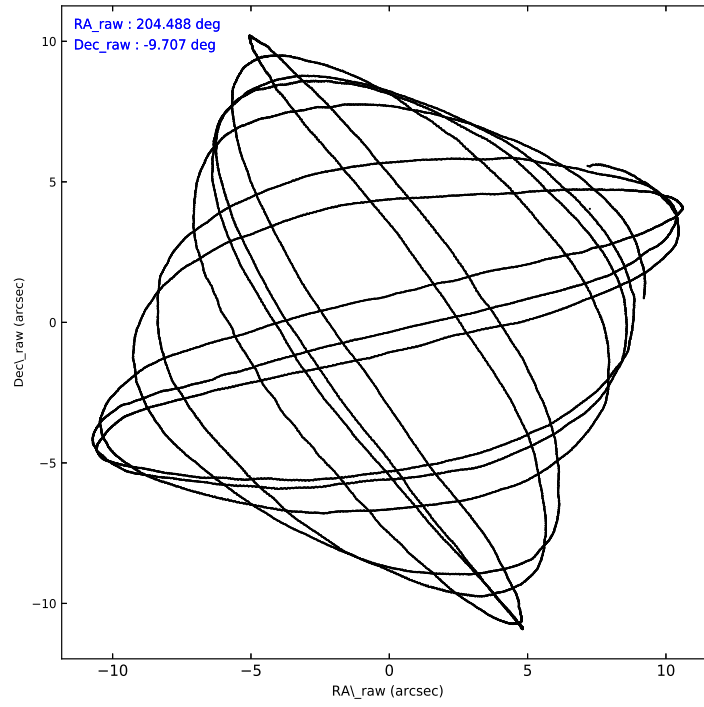
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	38795	32059	6604	32728	4426	37477
rejected events	37200	30895	2168	31199	1059	28088
rejected %	95%	96%	32%	95%	23%	74%

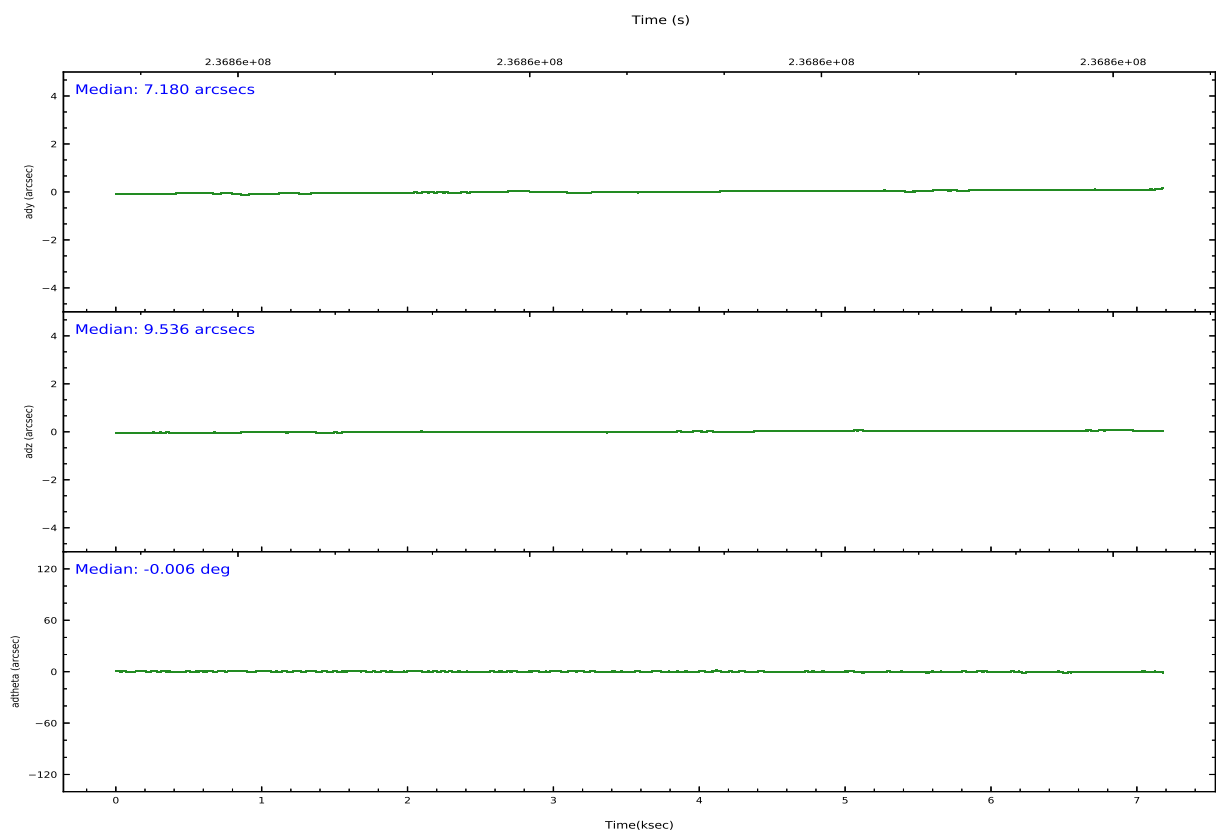
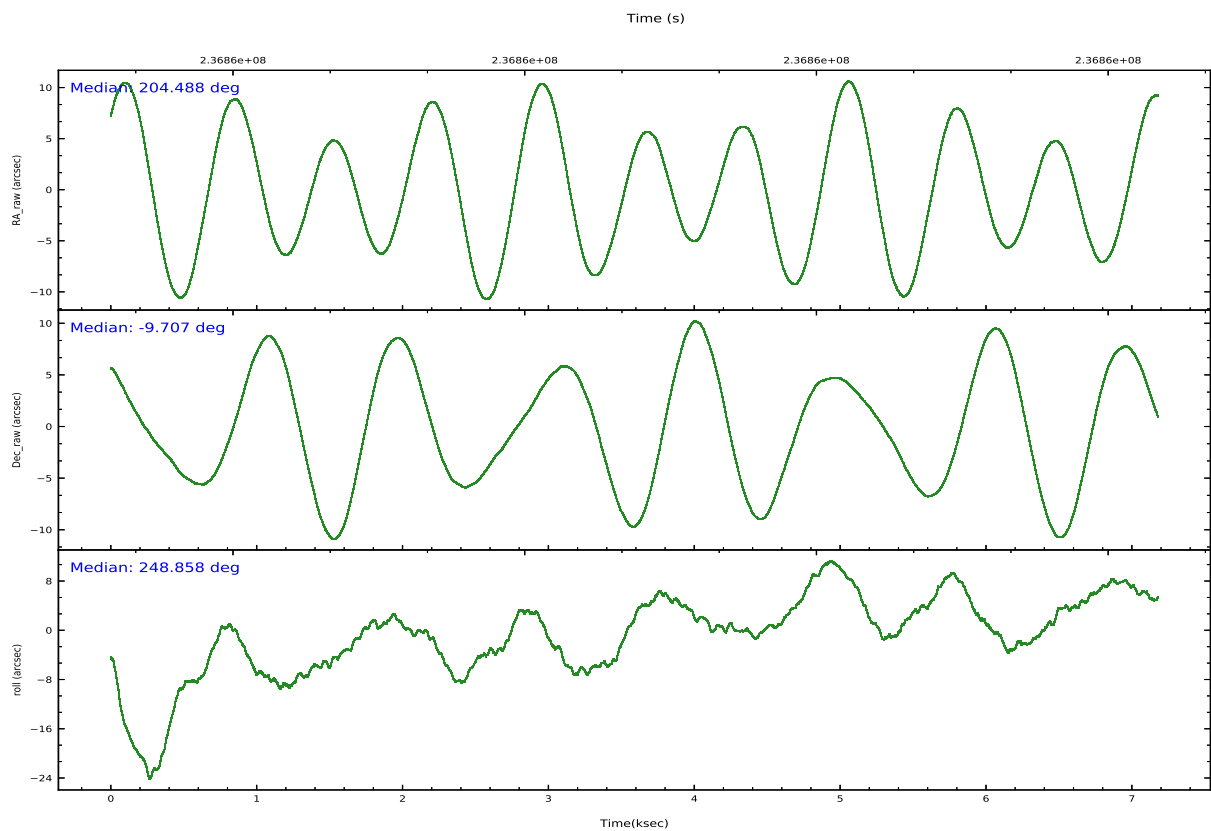
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	634	602	1529	811	905	2774
	1%	1%	23%	2%	20%	7%
grade 1 events	9	13	45	9	36	32
	0%	0%	0%	0%	0%	0%
grade 2 events	453	154	1696	269	1182	2206
	1%	0%	25%	0%	26%	5%
grade 3 events	199	196	517	217	537	1123
	0%	0%	7%	0%	12%	2%
grade 4 events	221	173	425	200	510	1029
	0%	0%	6%	0%	11%	2%
grade 5 events	54	25	345	31	118	203
	0%	0%	5%	0%	2%	0%
grade 6 events	153	86	487	108	384	2670
	0%	0%	7%	0%	8%	7%
grade 7 events	37072	30810	1560	31083	754	27440
	95%	96%	23%	94%	17%	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	204.483239	204.4860159424	Subarray requested	NONE	NONE
[deg] Pointing Dec	-9.679914	-9.703727804894701	Alternating exposures requested	N	N
[deg] Pointing Roll	248.699029	248.85820657267	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	236857343.184000	236856967.24789			
Observation start date	2005-07-04T09:41:19	2005-07-04T09:36:07			
[s] Observation end time (MET)	236864343.184000	236864477.42324			
Observation end date	2005-07-04T11:37:59	2005-07-04T11:41:17			
Read mode	TIMED	TIMED			

2.3 Aspect



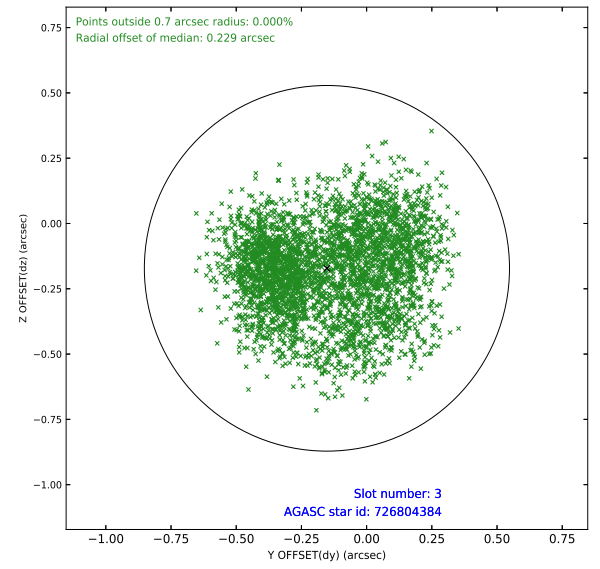
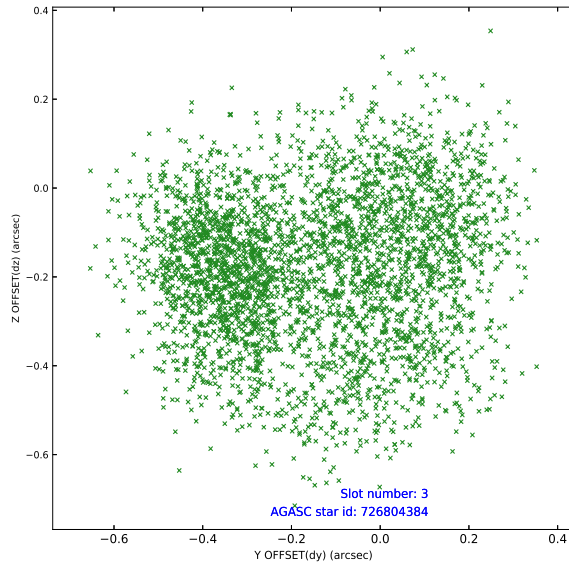


Slot Statistics

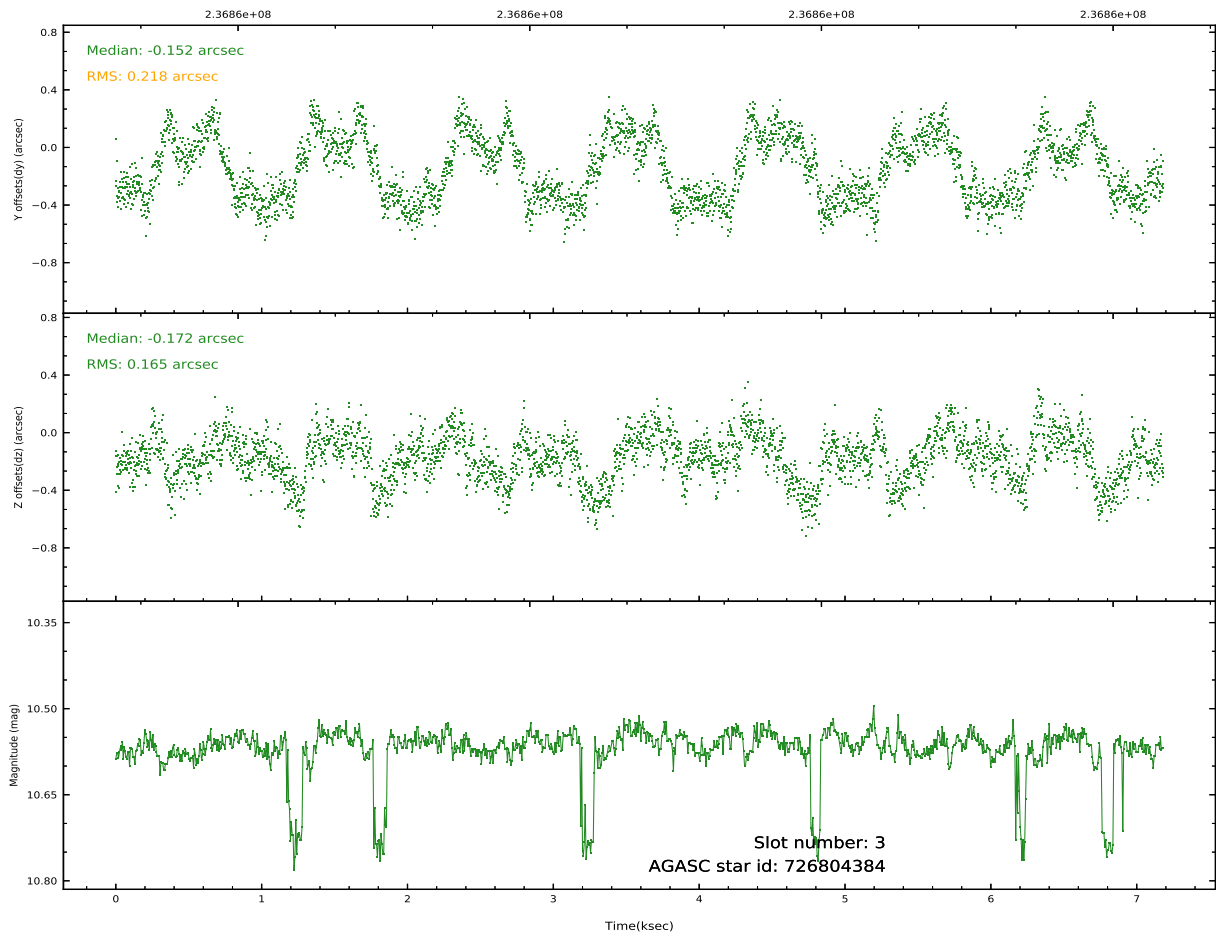
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1752	1.000	-0.076	-0.076	0.007	0.012	0.000000	0.000000	-759.96	-1730
1	FID		ACIS-S-4	7.21	1752	1.000	0.158	0.057	0.007	0.013	0.000000	0.000000	2153.13	177
2	FID		ACIS-S-5	7.23	1751	1.000	-0.114	0.028	0.006	0.011	0.000000	0.000000	-1811.87	171
3	GUIDE	used	726804384	10.56	3490	1.000	-0.152	-0.172	0.304	0.434	204.057952	-9.038299	-1601.45	-2248
4	GUIDE	used	726805320	10.35	3498	1.000	-0.153	-0.060	0.191	0.296	204.212849	-9.734967	533.47	-822
5	GUIDE	used	726932400	10.44	3502	1.000	-0.065	0.183	0.181	0.296	204.323420	-9.942274	1086.76	-185
6	GUIDE	used	726935840	9.52	3504	1.000	0.359	-0.113	0.133	0.229	205.084608	-9.297514	-2055.73	1490
7	GUIDE	used	727320712	10.45	3492	1.000	0.038	0.177	0.194	0.312	204.468965	-10.254166	1944.47	704

2.4 Star Slots

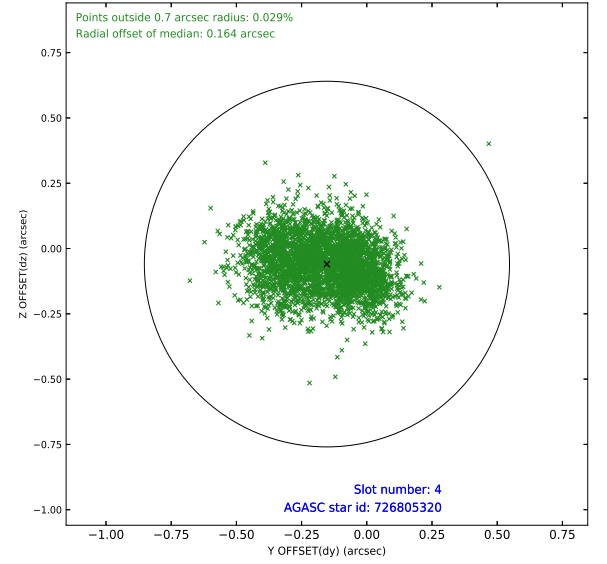
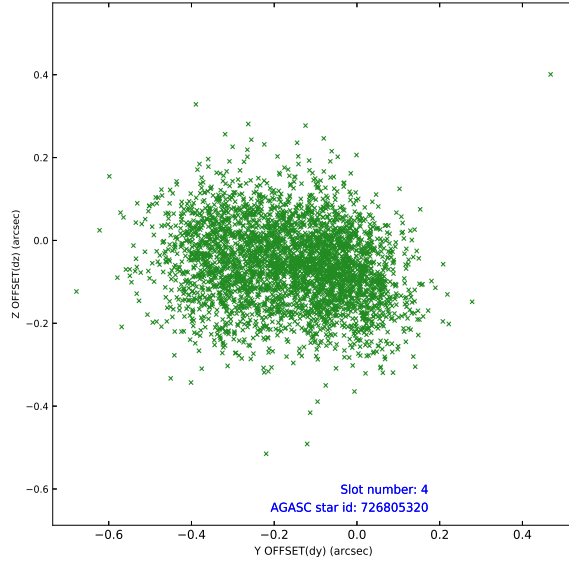
2.4.1 Slot 3



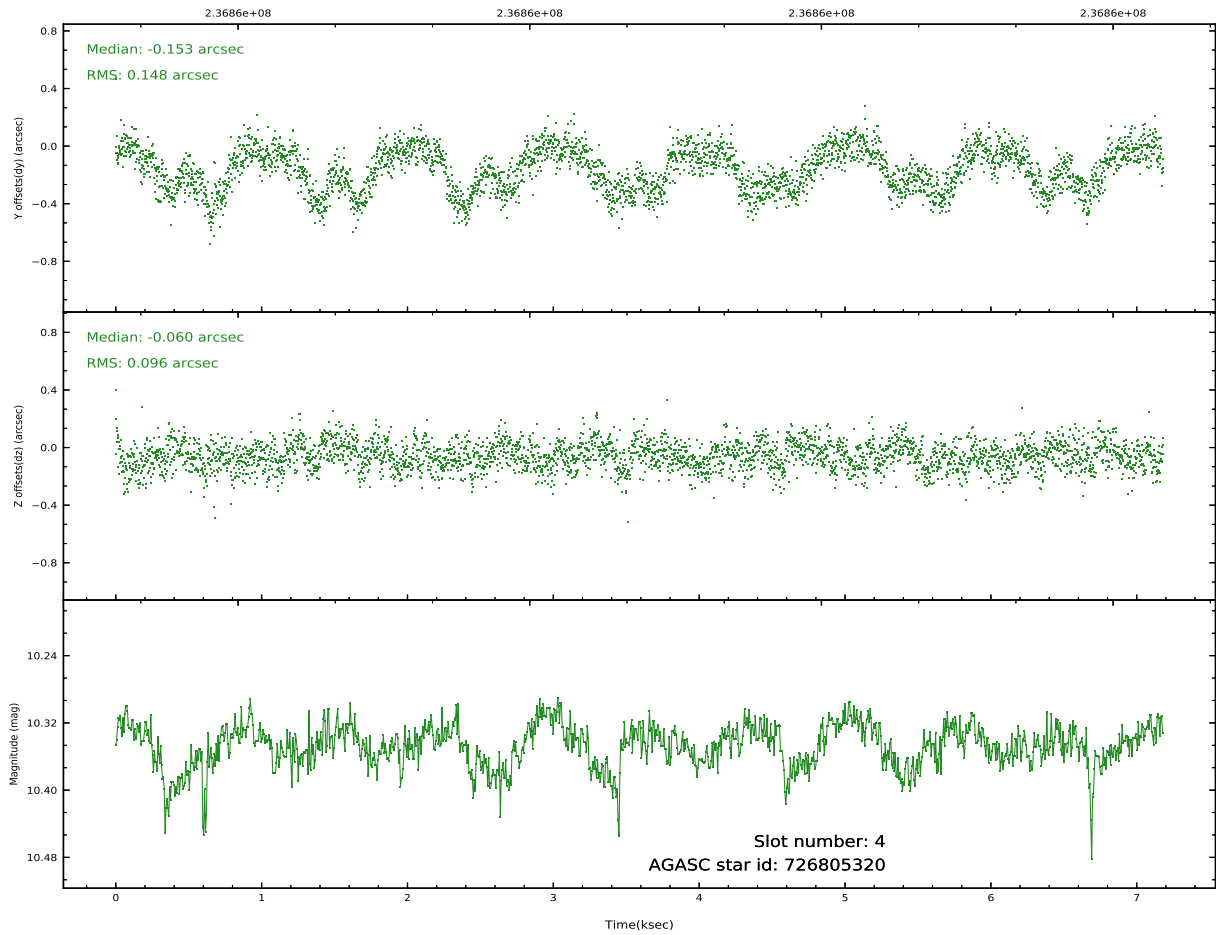
Time (s)



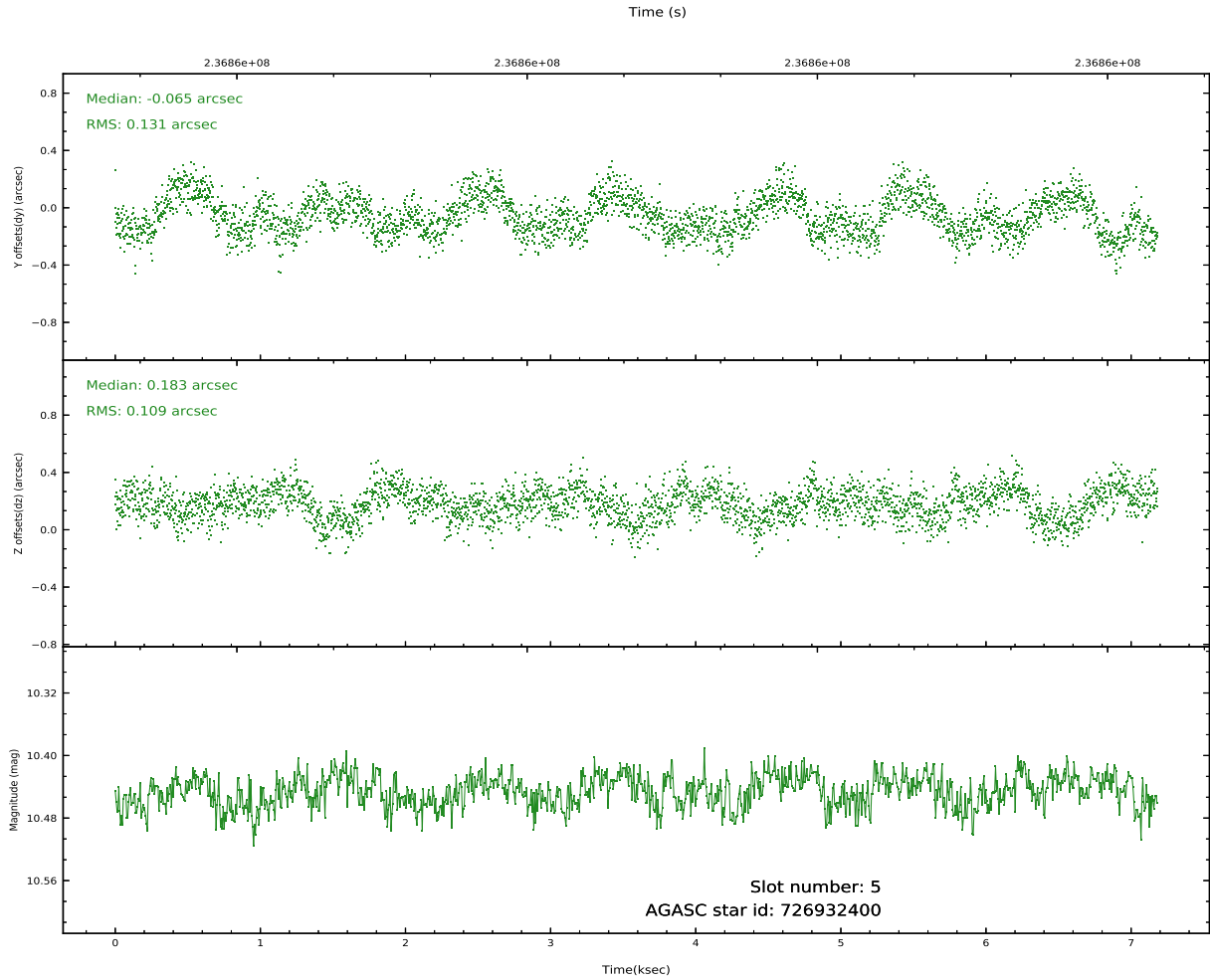
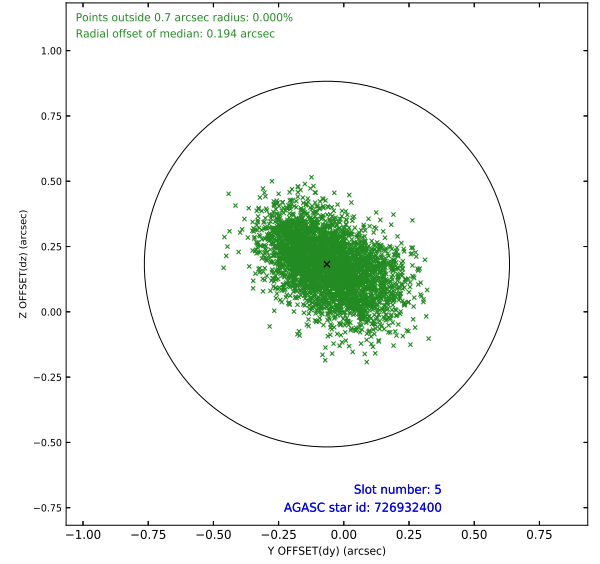
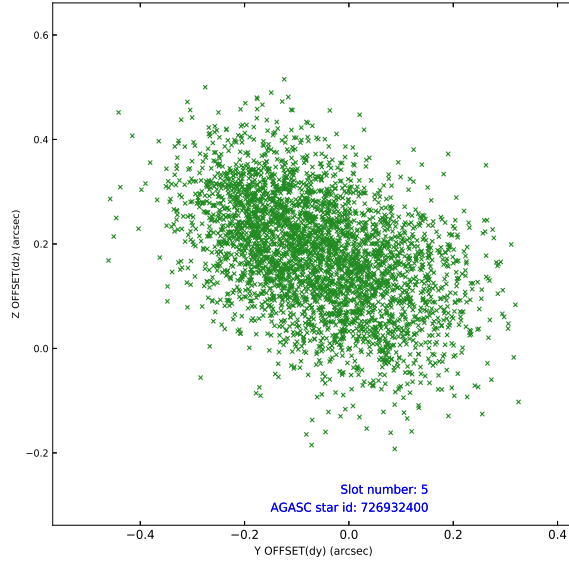
2.4.2 Slot 4



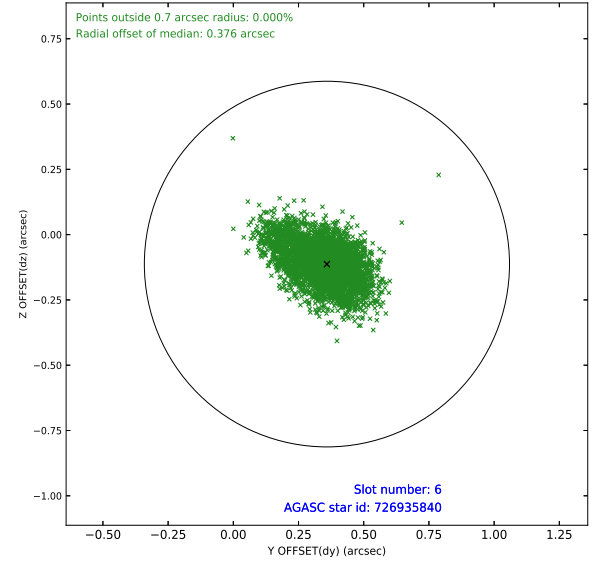
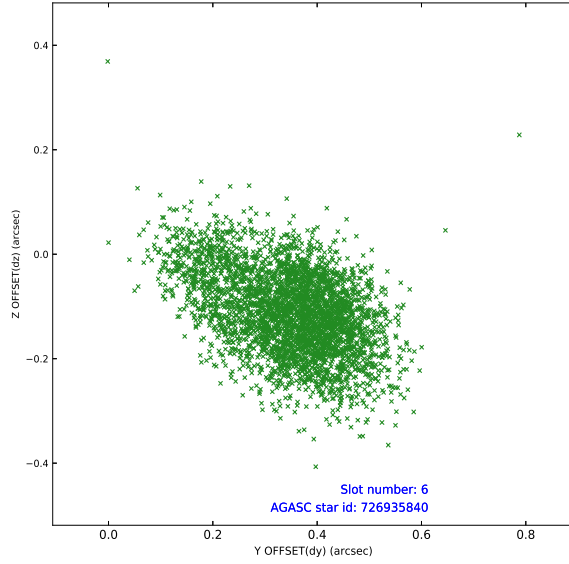
Time (s)



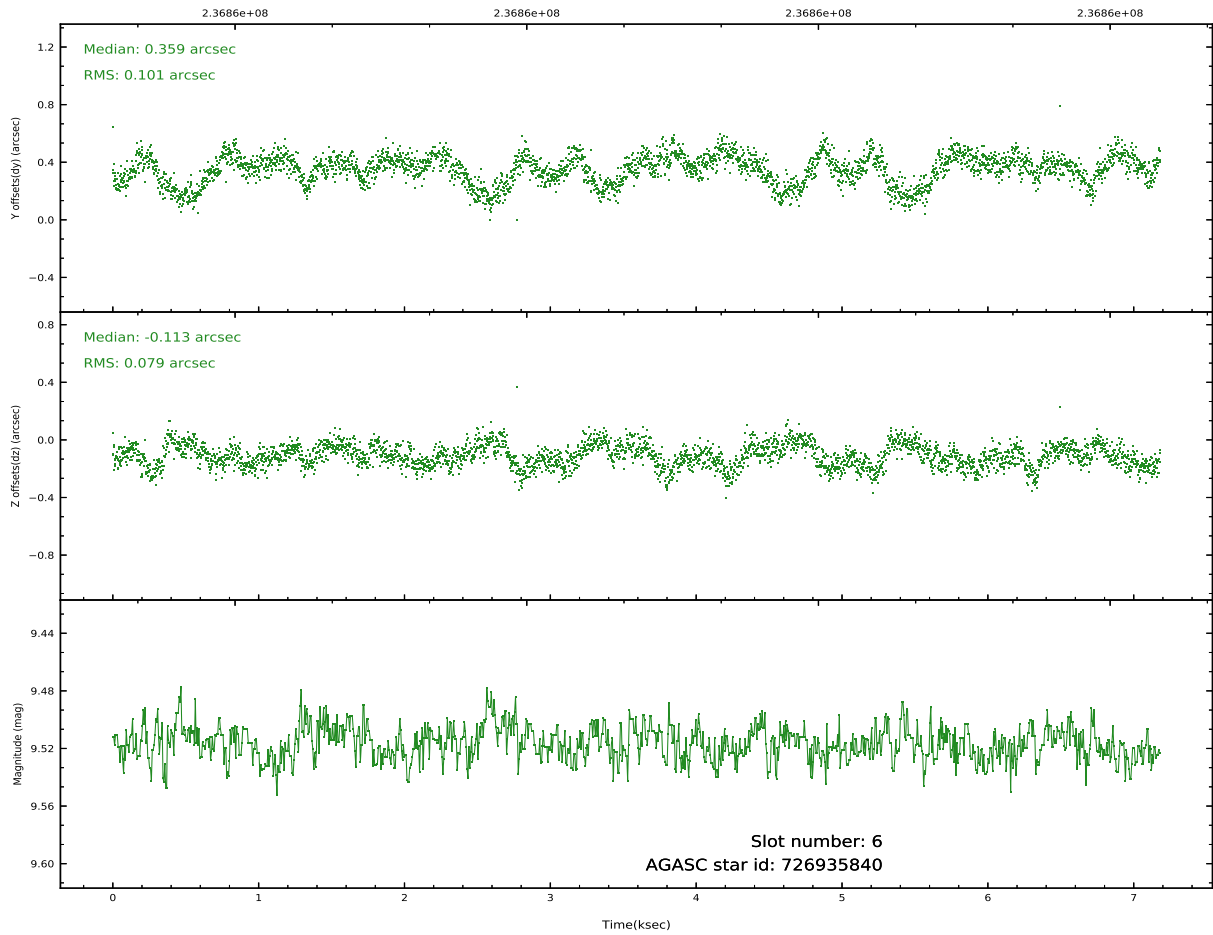
2.4.3 Slot 5



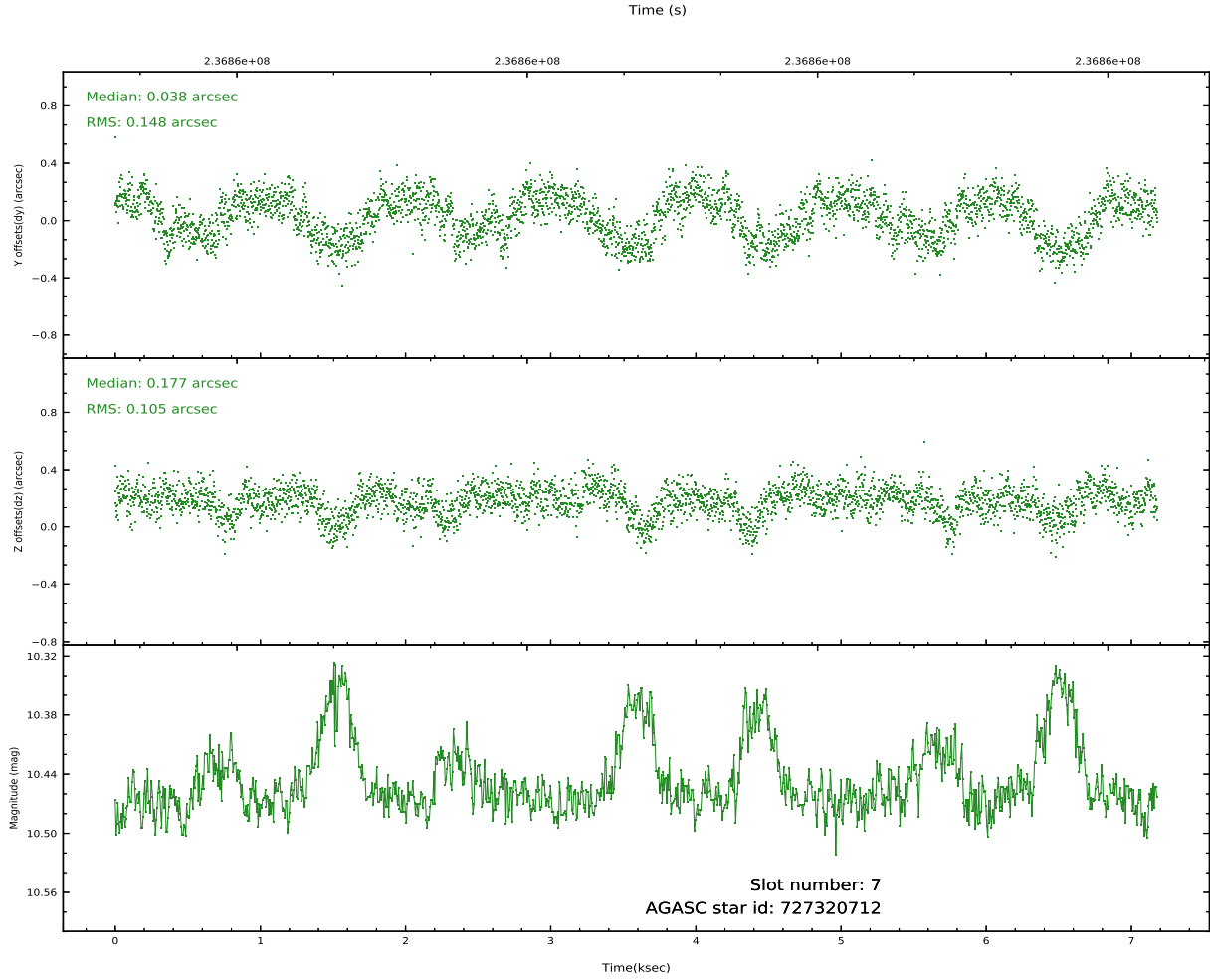
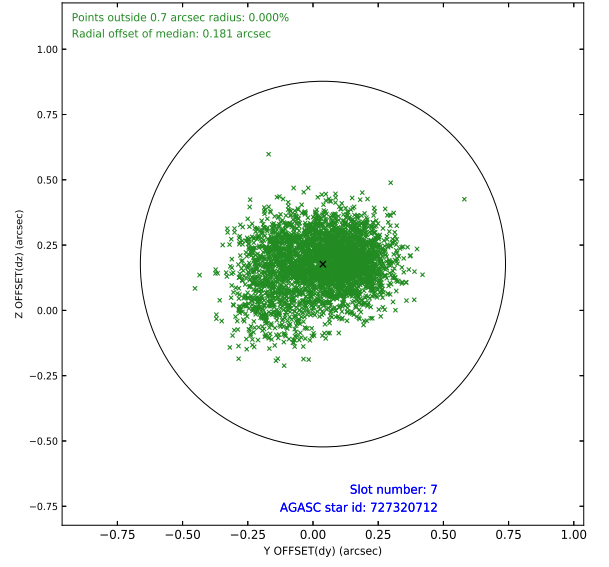
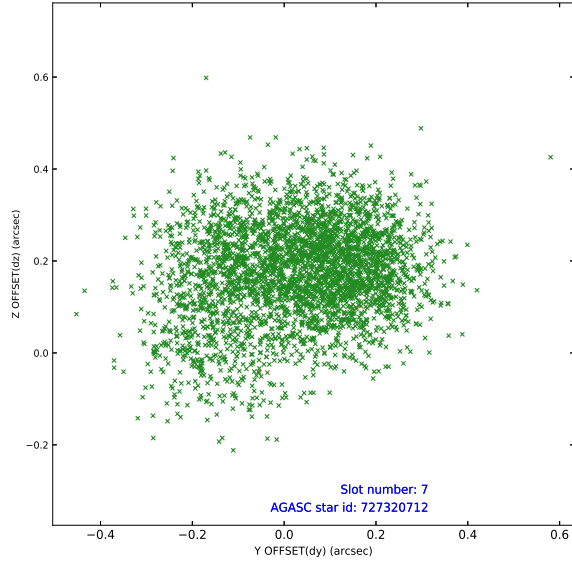
2.4.4 Slot 6



Time (s)

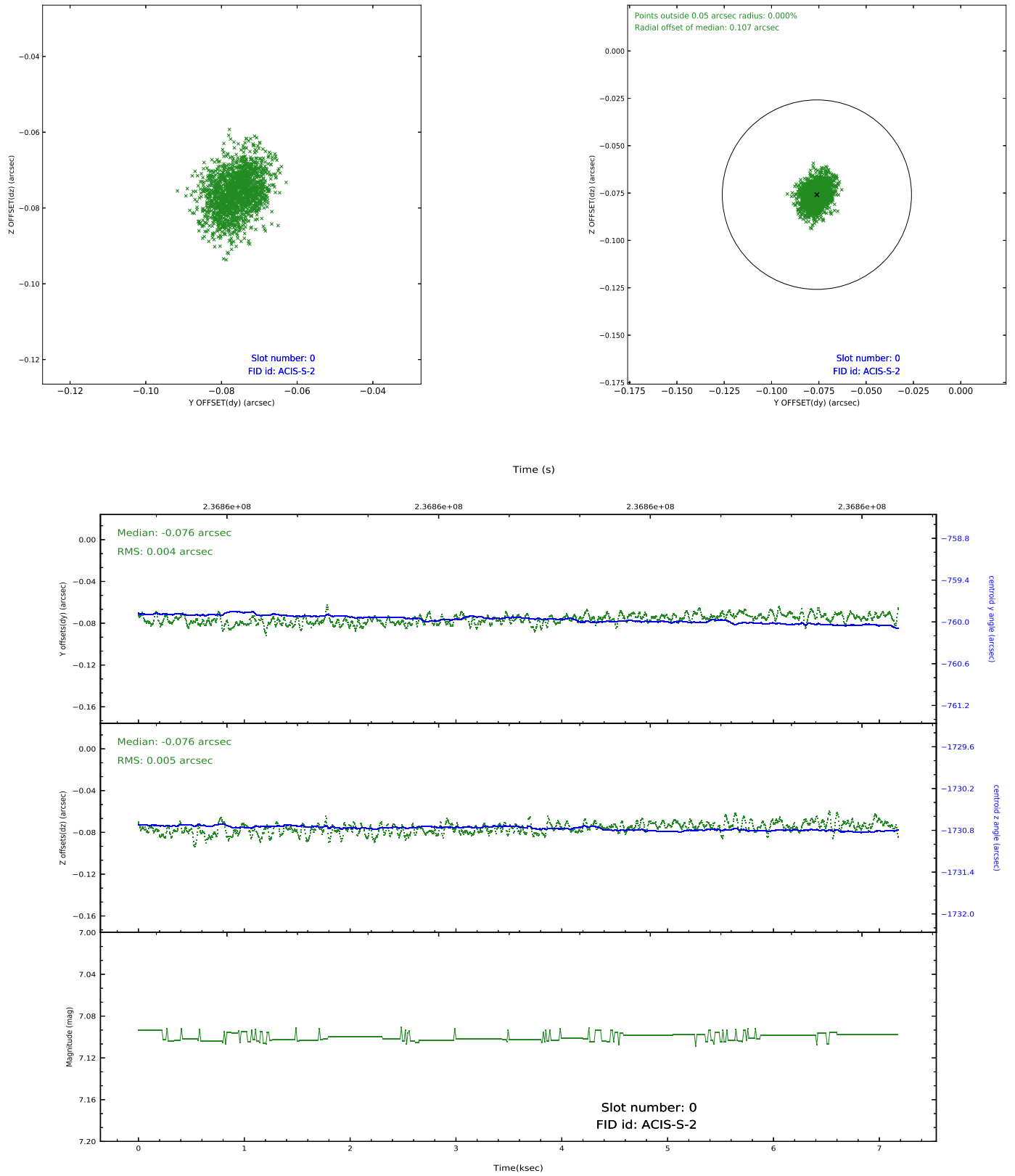


2.4.5 Slot 7

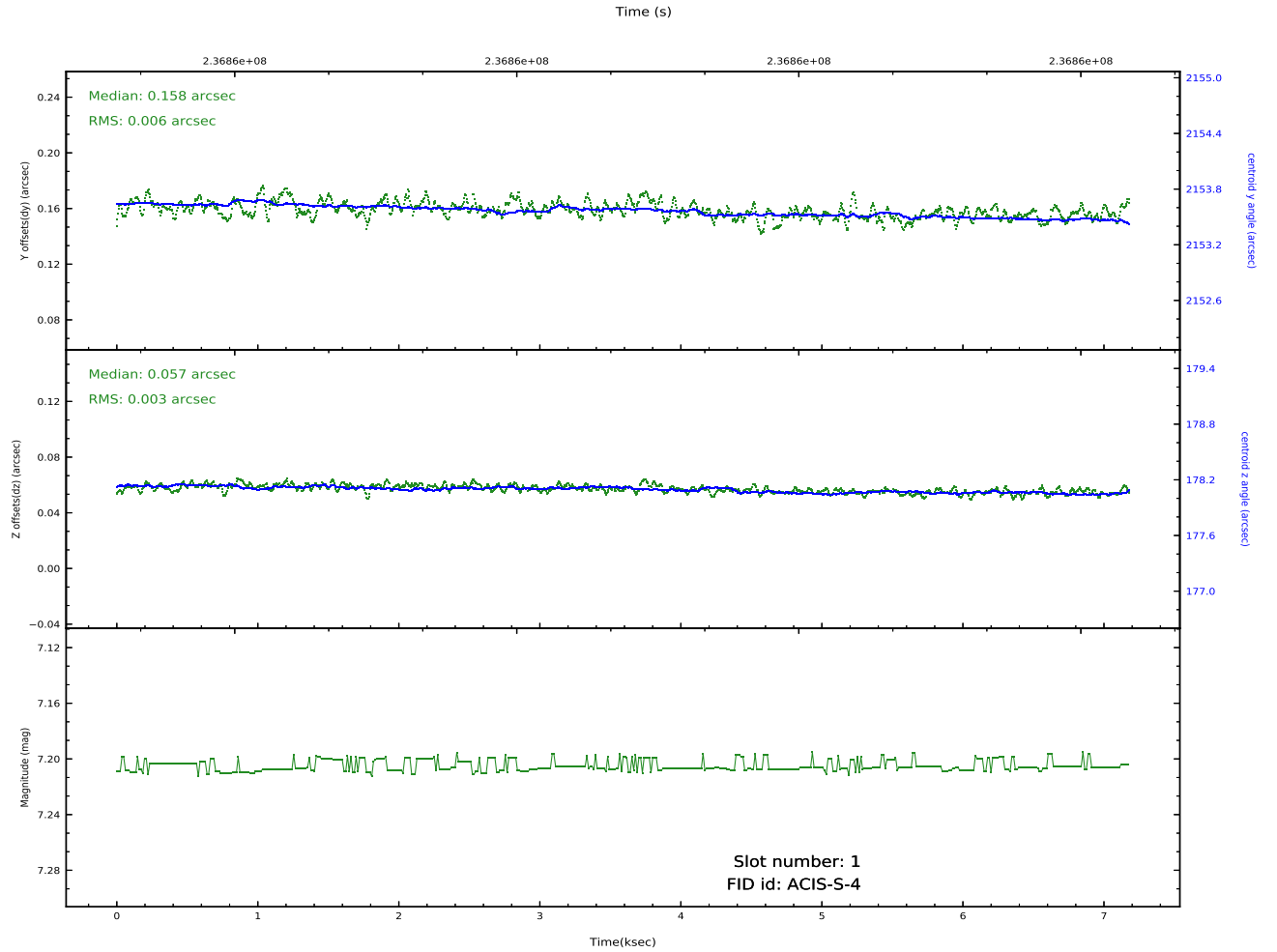
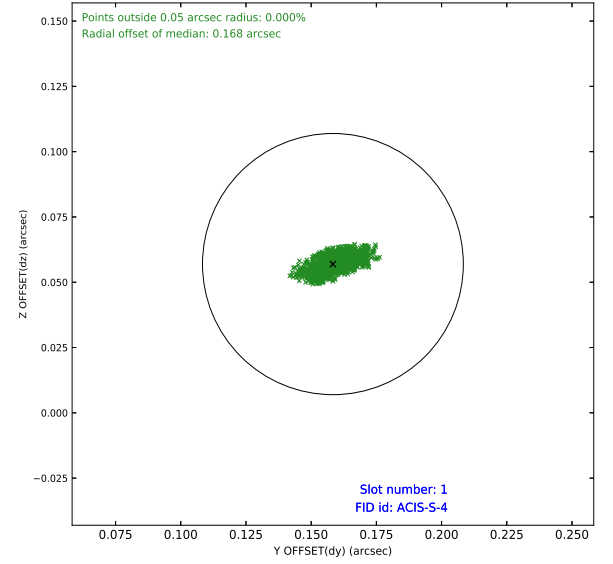
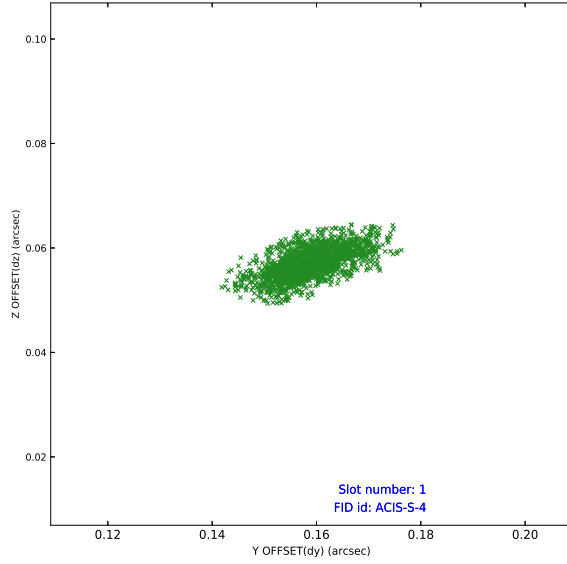


2.5 FID Slots

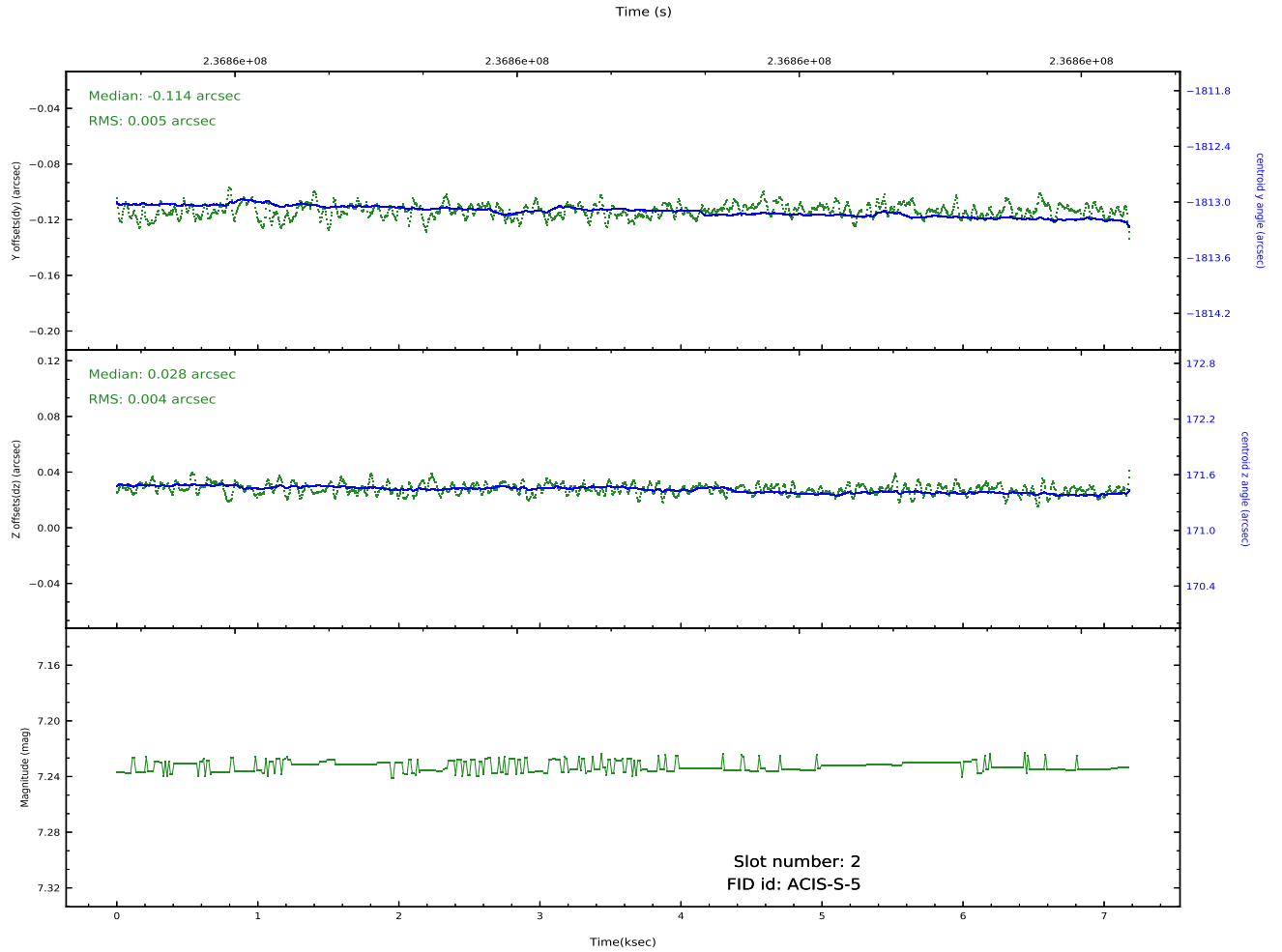
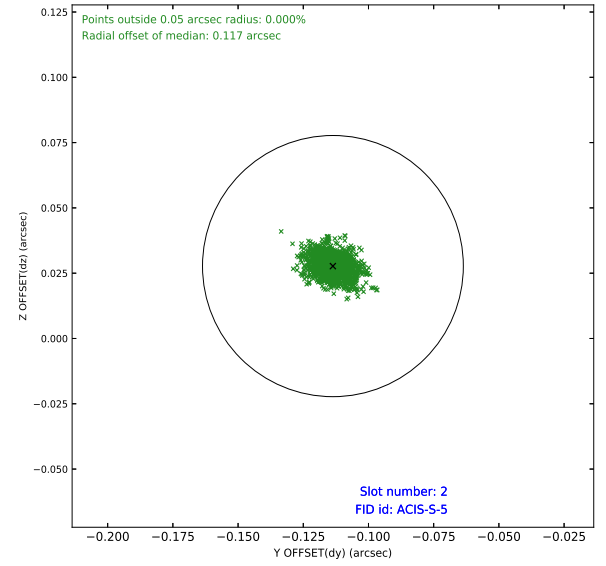
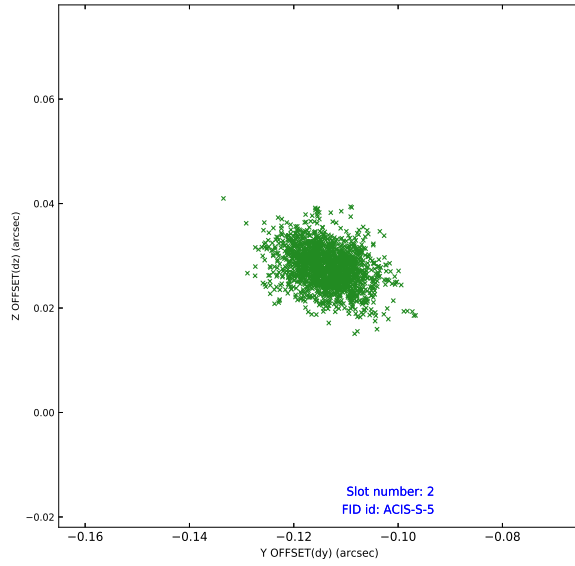
2.5.1 Slot 0



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)	2020.10.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.177599

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.