

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 18339 - L2 Version 2
Chandra X-Ray Center

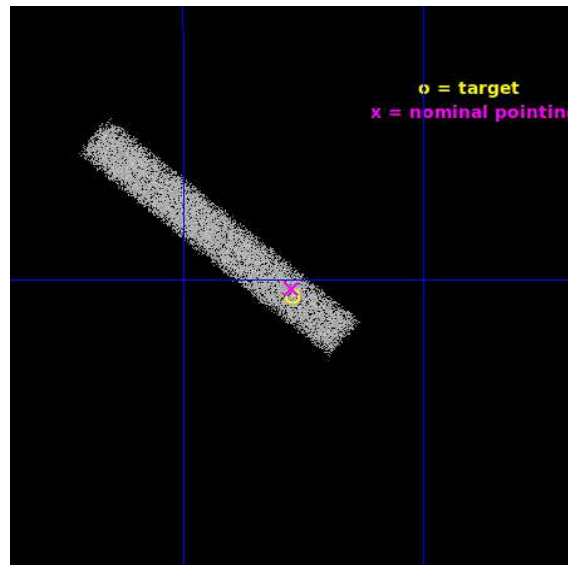
L2 Processing Date : Oct 25 2020

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1 Front

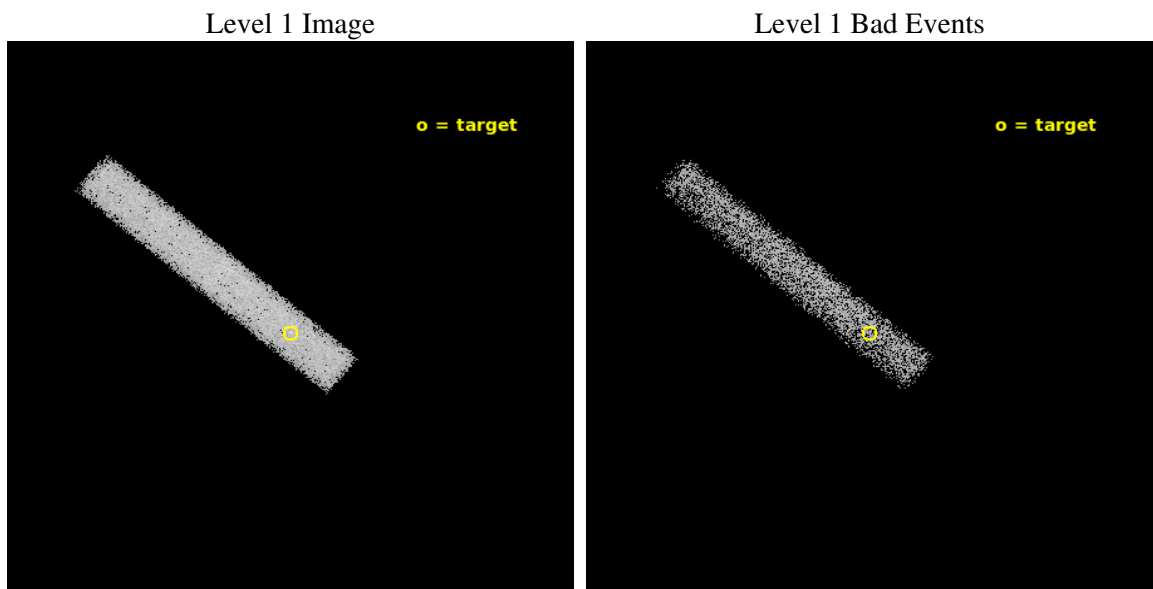
seq_num	401808	Sequence number
obs_id	18339	Observation id
title	Crust cooling of accretion-heated neutron stars	Proposal title
observer	Rudy Wijnands	Principal investigator
object	MAXI J0556-332	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	89.193	Observer's specified target RA [deg]
dec_targ	-33.1745	Observer's specified target Dec [deg]
ra_nom	89.193243855811	Nominal RA [deg]
dec_nom	-33.170946764802	Nominal Dec [deg]
roll_nom	220.15392763991	Nominal Roll [deg]
revision	2	Processing version of data
ontime	31068.798148036	Sum of GTIs [s]
livetime	28177.759974638	Livetime [s]
ontime7	31068.798148036	Sum of GTIs [s]
l2events	18639	Number of level 2 events



2 OBI

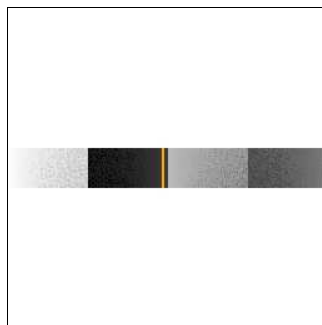
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	31000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	31068.798148036	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	31068.798148036	Sum of GTIs [s]
date	2020-10-26T00:39:39	Date and time of file creation	l1events	39408	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

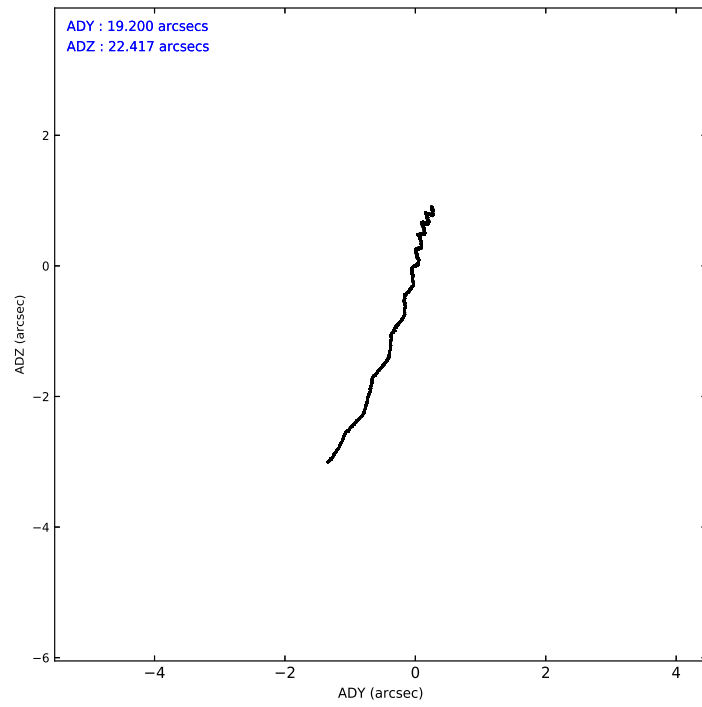
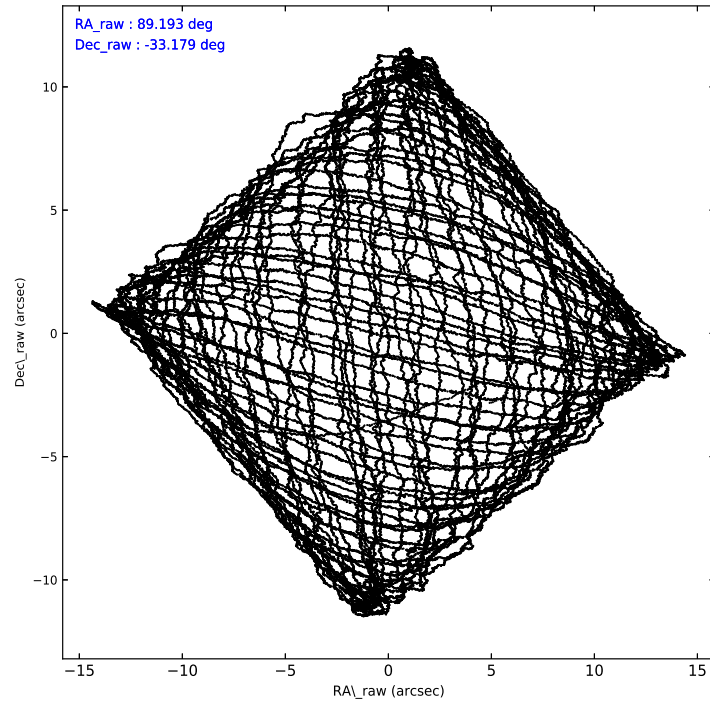
	ccd 7
level 1 events	39408
rejected events	19875
rejected %	50%

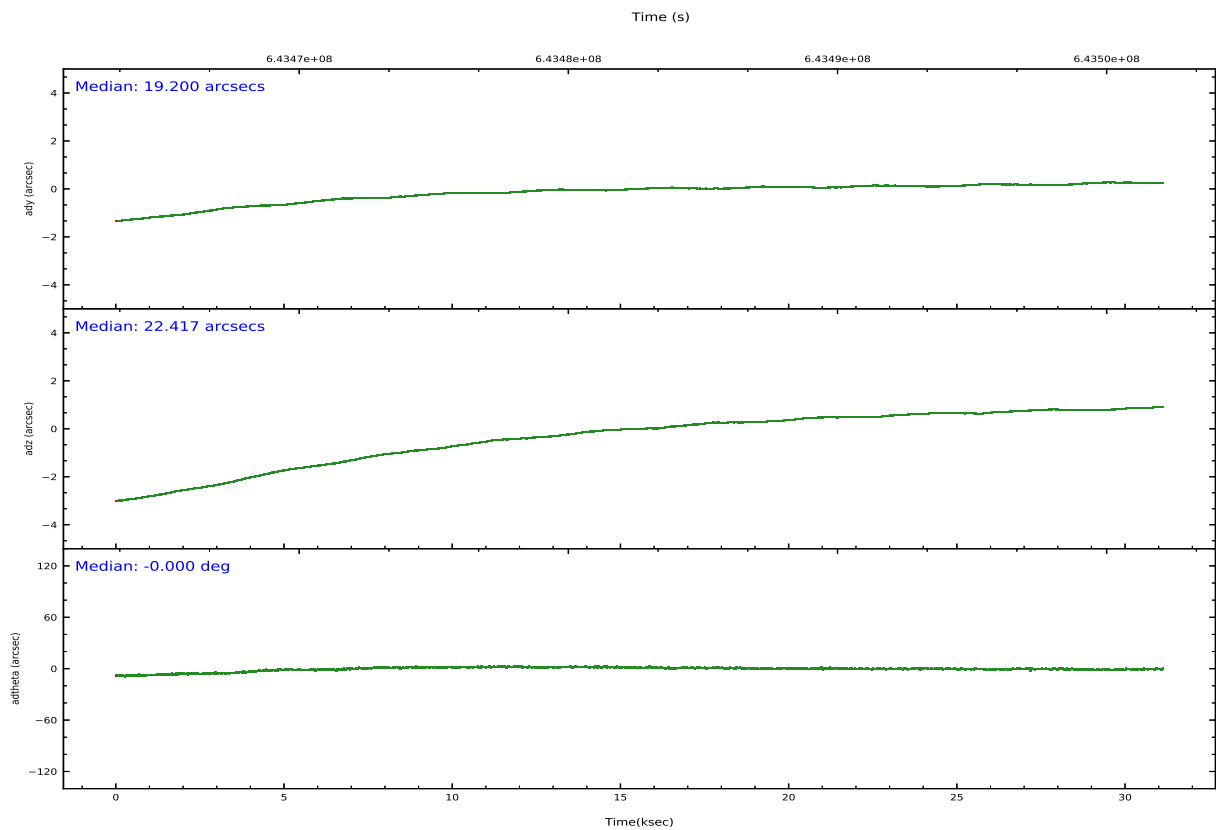
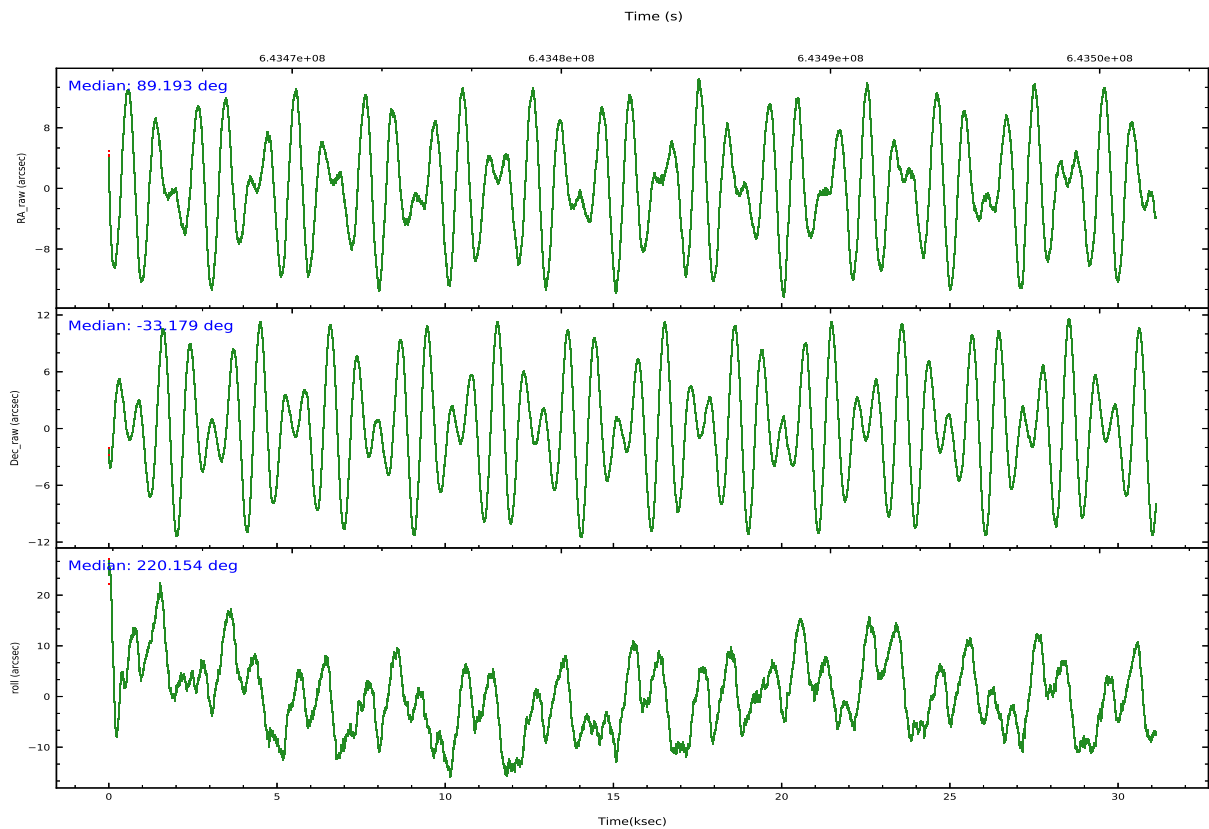
	ccd 7
grade 0 events	2005
	5%
grade 1 events	79
	0%
grade 2 events	3963
	10%
grade 3 events	2562
	6%
grade 4 events	2439
	6%
grade 5 events	4109
	10%
grade 6 events	8564
	21%
grade 7 events	15687
	39%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	89.203784	89.19324385581101	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-33.153420	-33.170946764802	Subarray start row	449	449
[deg] Pointing Roll	220.005900	220.15392763991	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	643466680.184000	643465181.02808			
Observation start date	2018-05-23T12:43:31	2018-05-23T12:19:41			
[s] Observation end time (MET)	643497680.184000	643498505.83005			
Observation end date	2018-05-23T21:20:11	2018-05-23T21:35:05			
Read mode	TIMED	TIMED			

2.3 Aspect



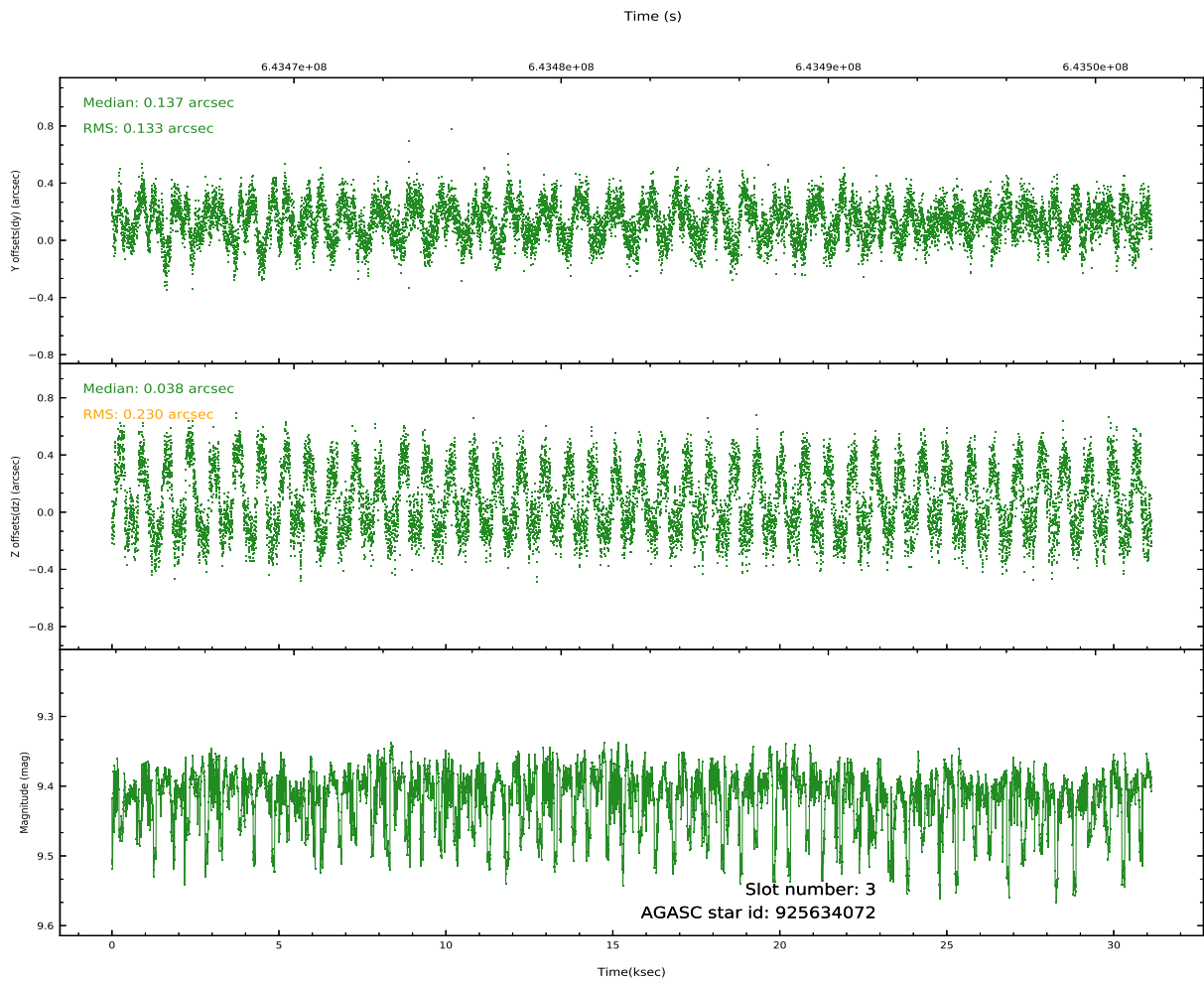
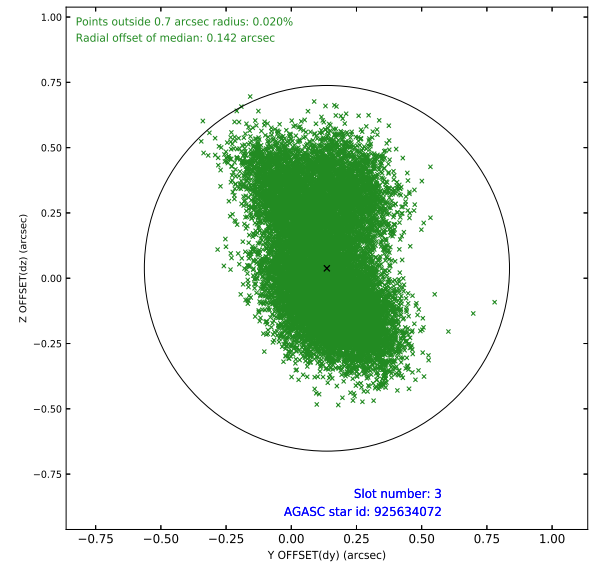
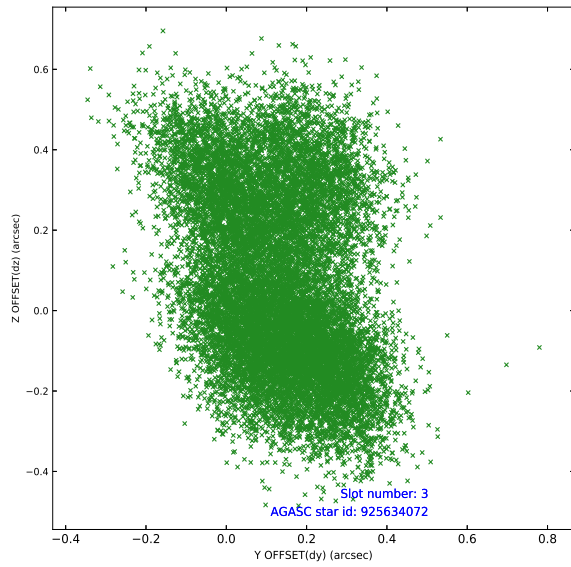


Slot Statistics

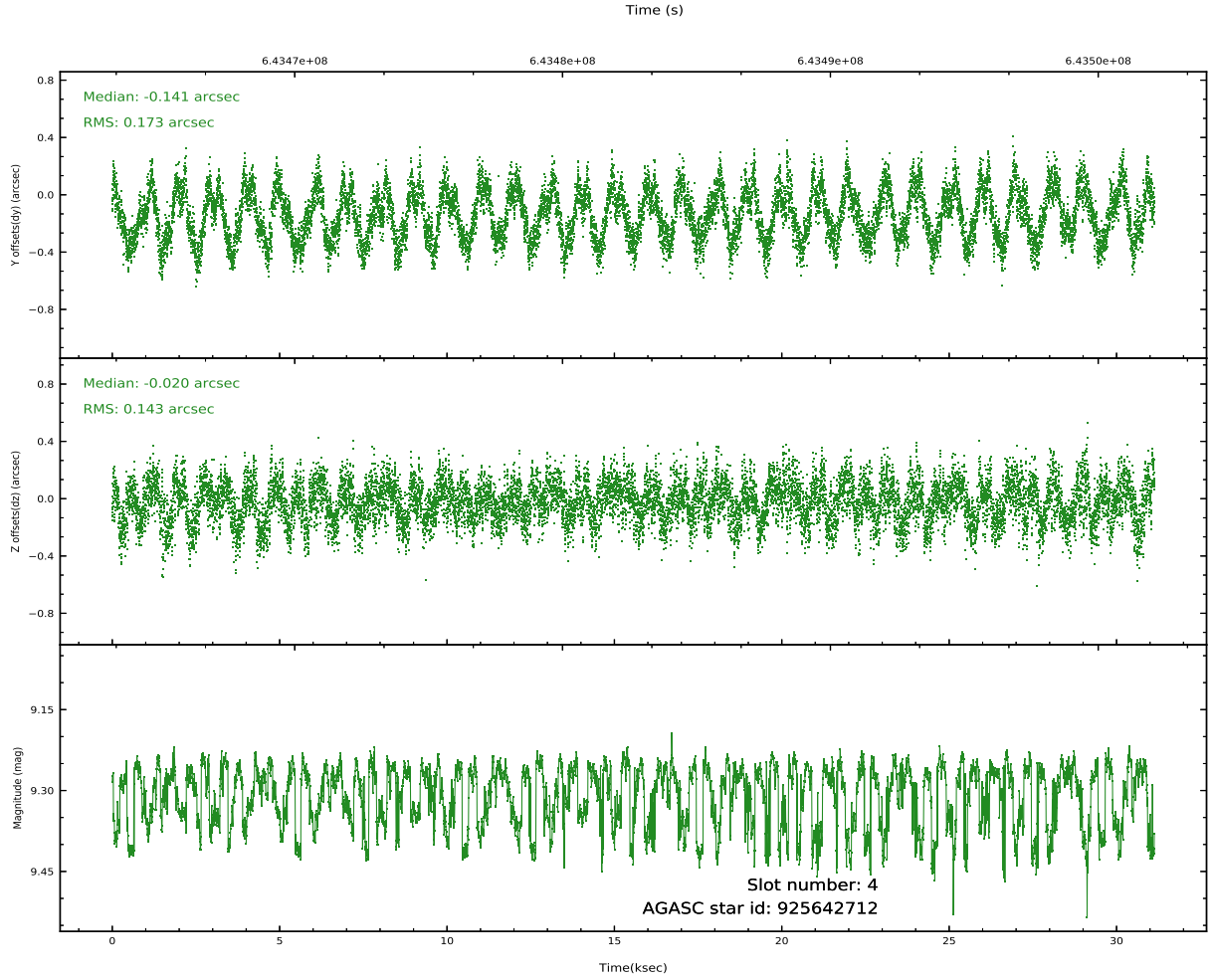
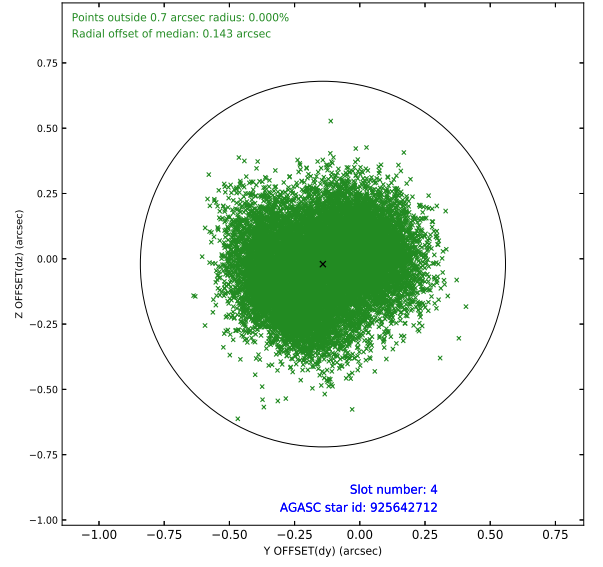
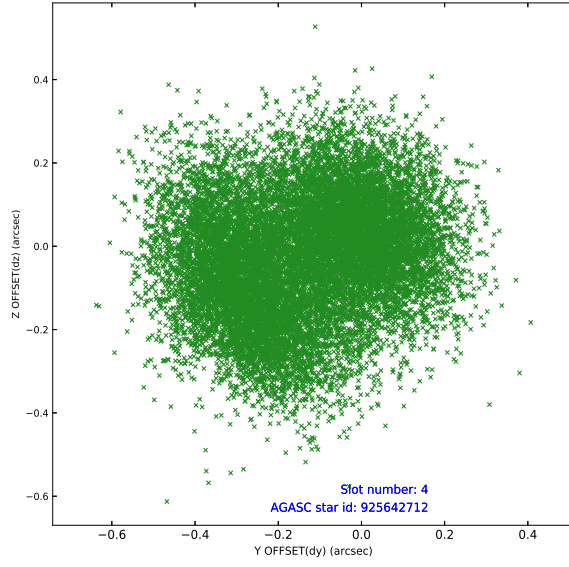
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.08	7591	1.000	0.267	-0.134	0.033	0.050	0.000000	0.000000	924.03	-1739
1	FID		ACIS-S-2	6.99	7594	1.000	-0.026	-0.096	0.030	0.063	0.000000	0.000000	-772.13	-1743
2	FID		ACIS-S-5	7.11	7593	1.000	-0.264	0.229	0.025	0.036	0.000000	0.000000	-1825.51	158
3	GUIDE	used	925634072	9.41	15133	1.000	0.137	0.038	0.288	0.451	89.639500	-32.781209	-1869.30	-176
4	GUIDE	used	925642712	9.30	15165	1.000	-0.141	-0.020	0.247	0.360	89.246145	-33.485552	671.79	998
5	GUIDE	used	925642880	7.74	15181	1.000	-0.016	-0.122	0.222	0.350	89.133148	-33.434507	813.33	638
6	GUIDE	used	925643520	9.24	15171	1.000	0.036	0.059	0.223	0.349	88.970468	-33.727415	1865.50	1135
7	GUIDE	used	925645552	7.59	15181	1.000	-0.035	0.006	0.162	0.247	88.738097	-33.665766	2257.03	518

2.4 Star Slots

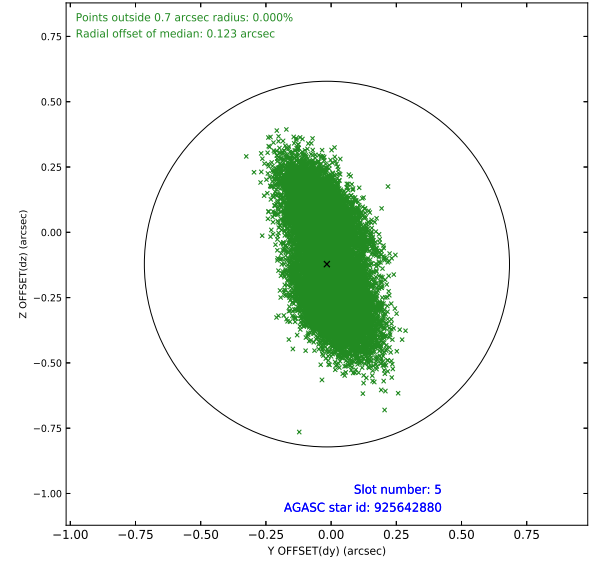
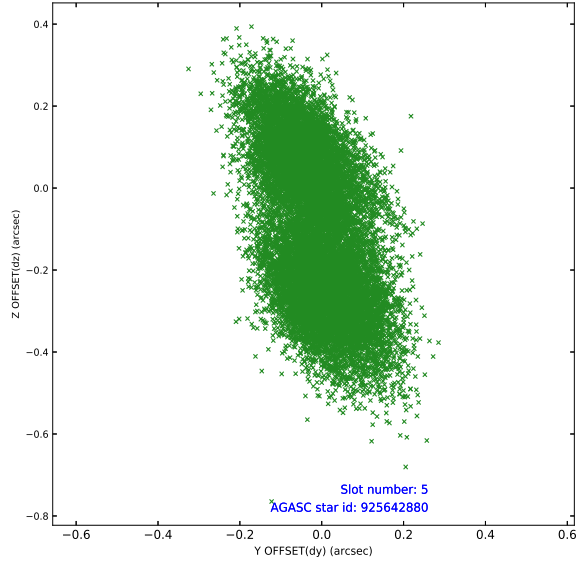
2.4.1 Slot 3



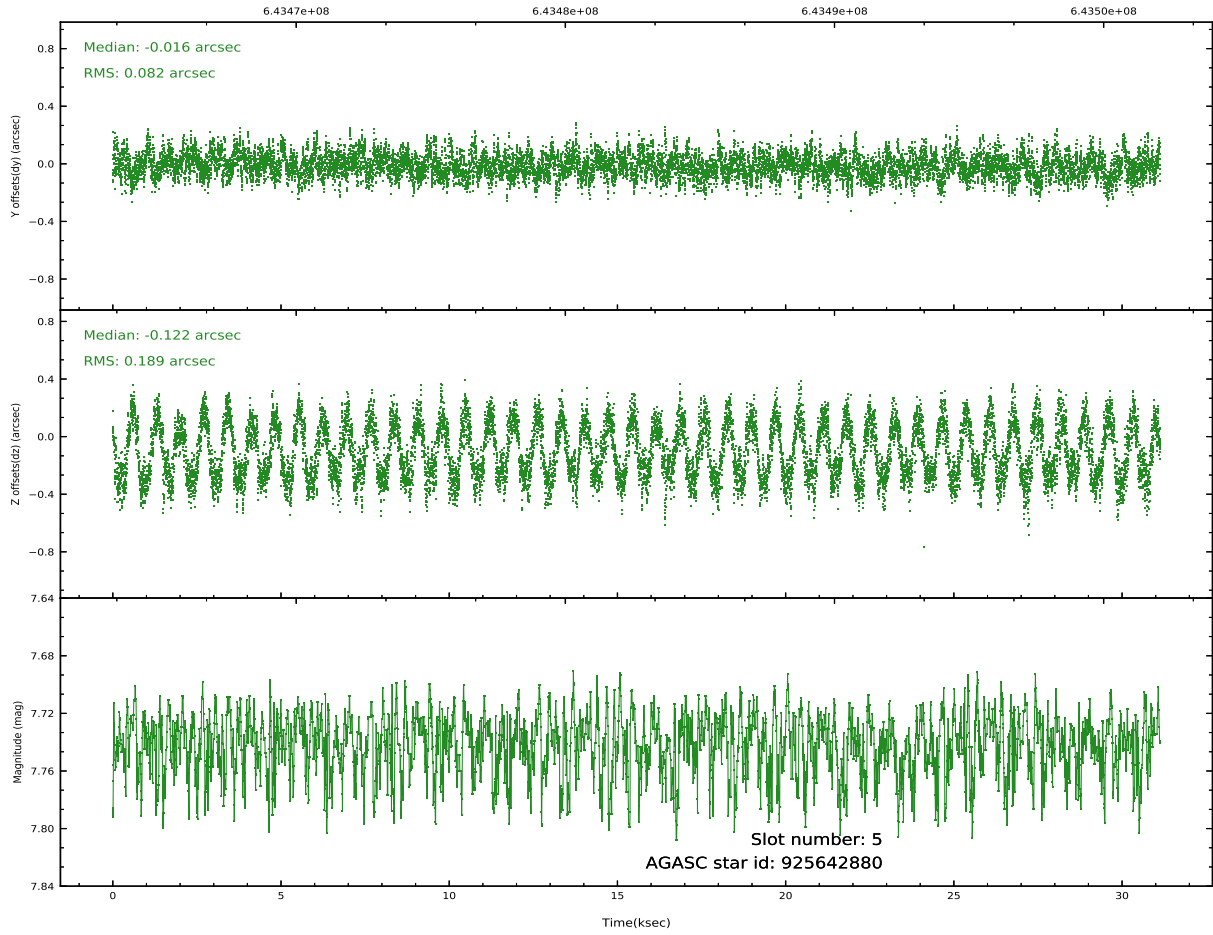
2.4.2 Slot 4



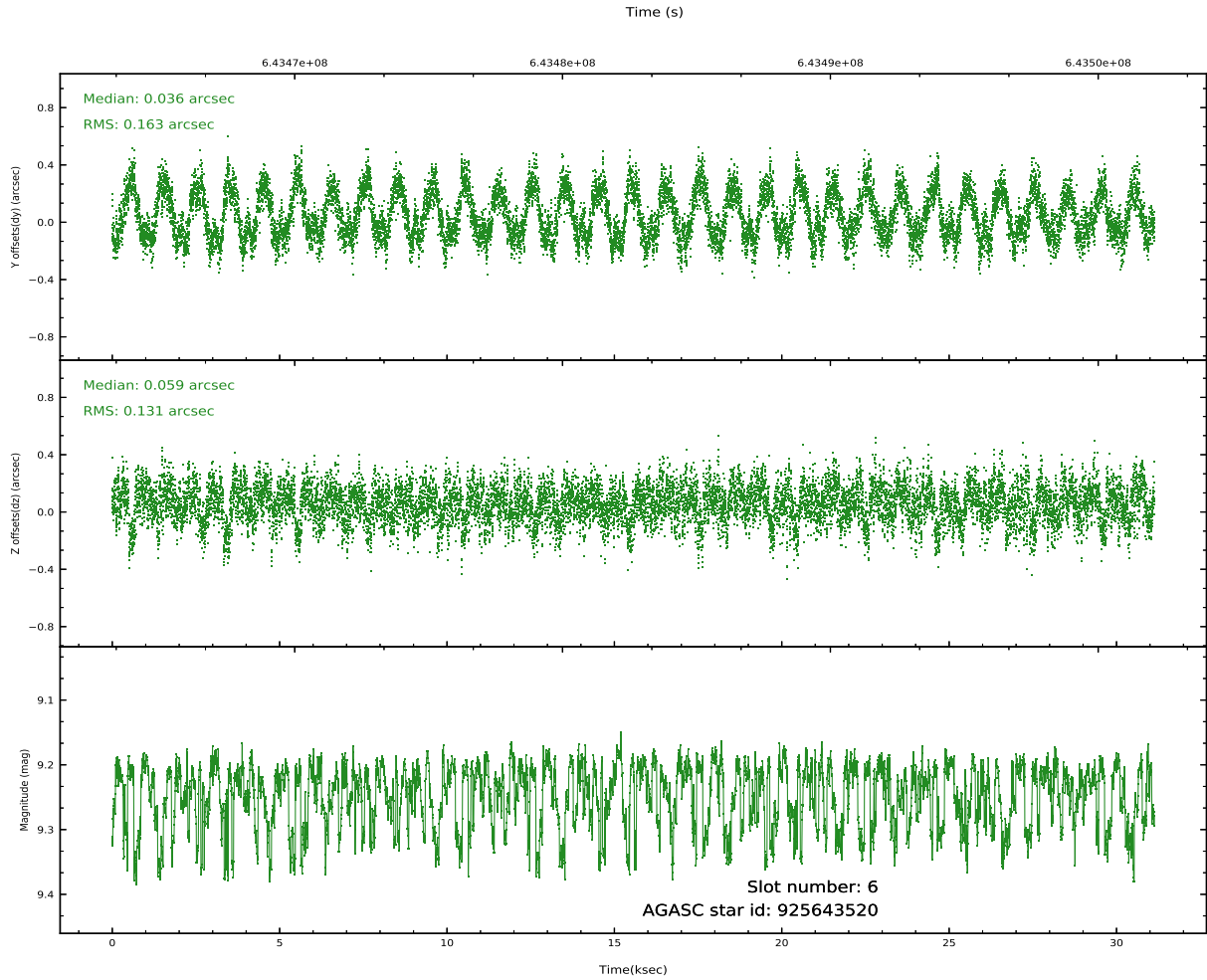
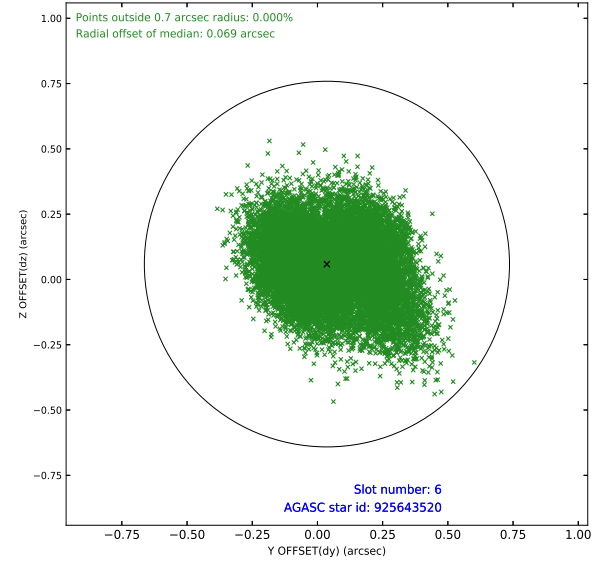
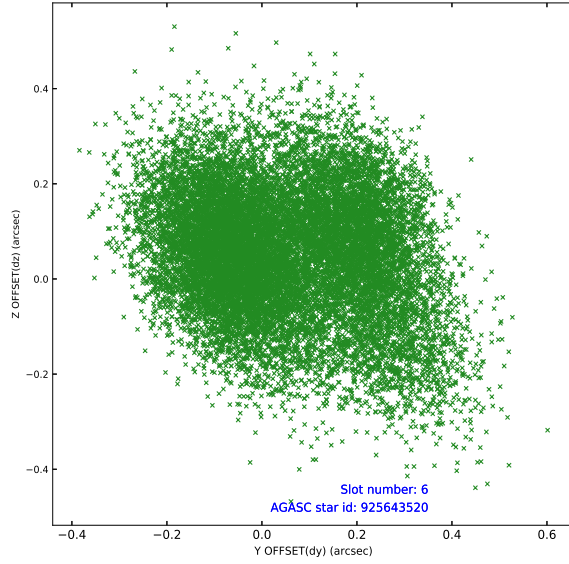
2.4.3 Slot 5



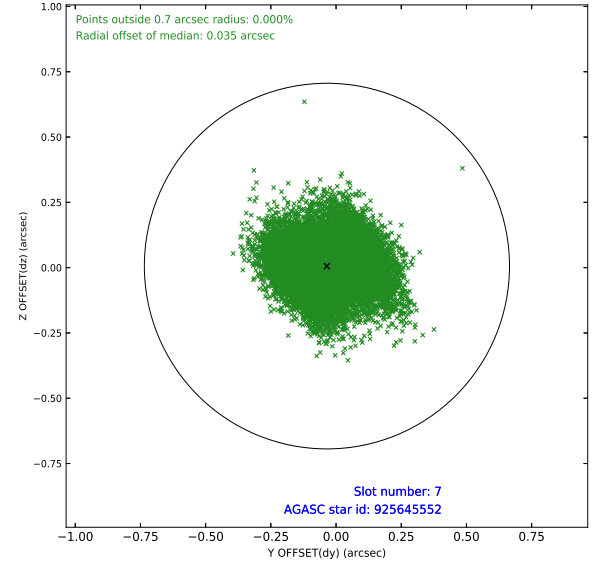
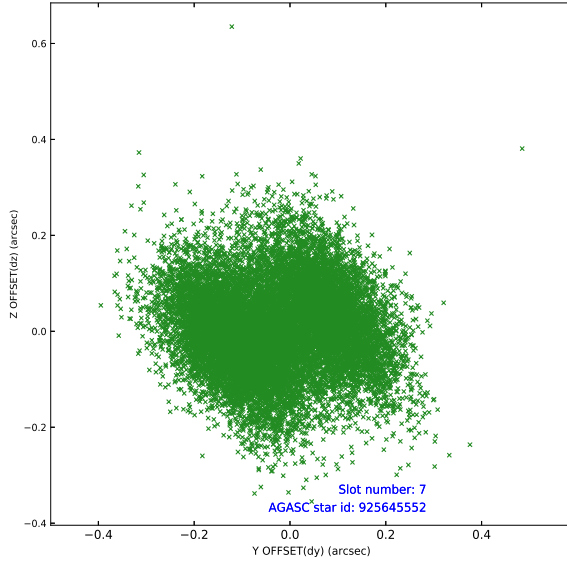
Time (s)



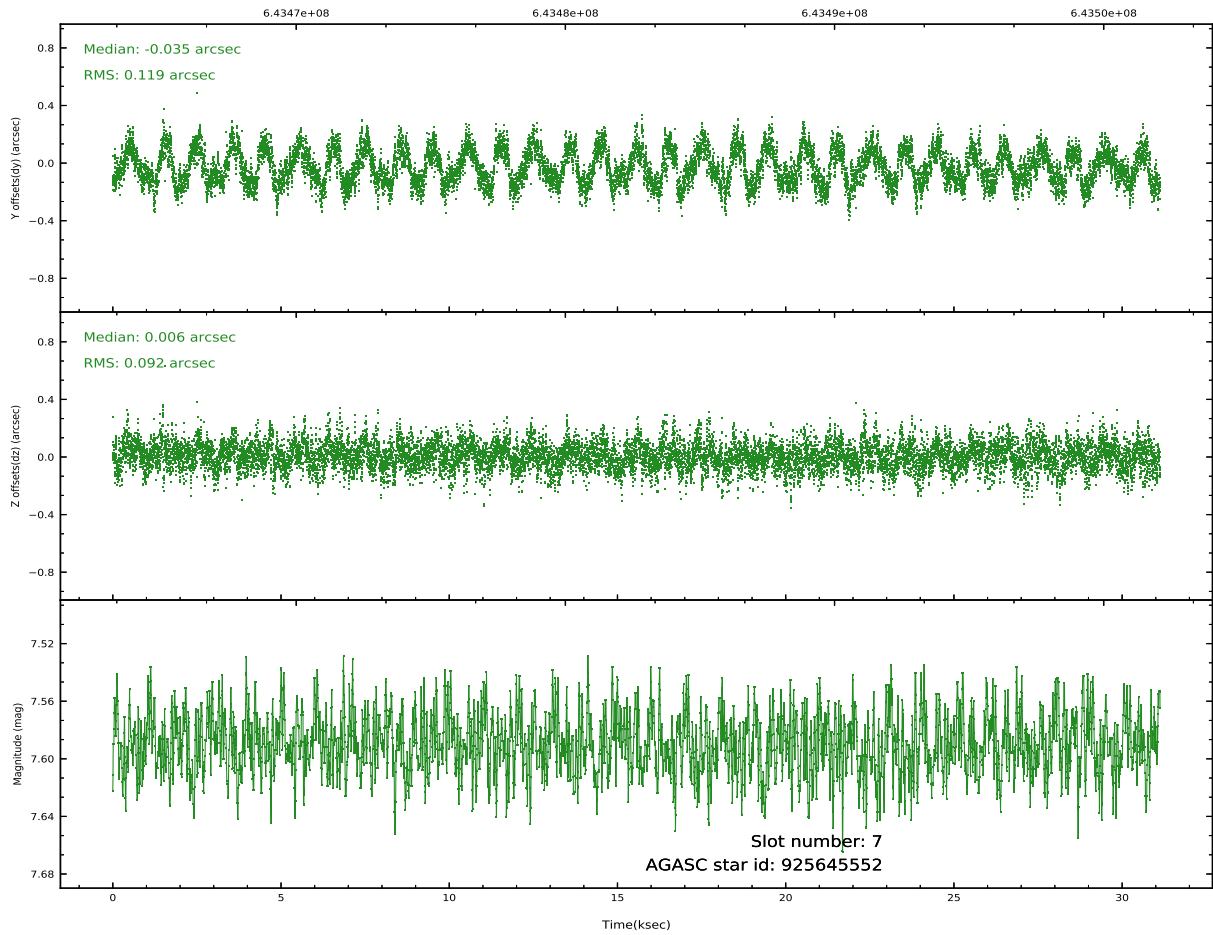
2.4.4 Slot 6



2.4.5 Slot 7

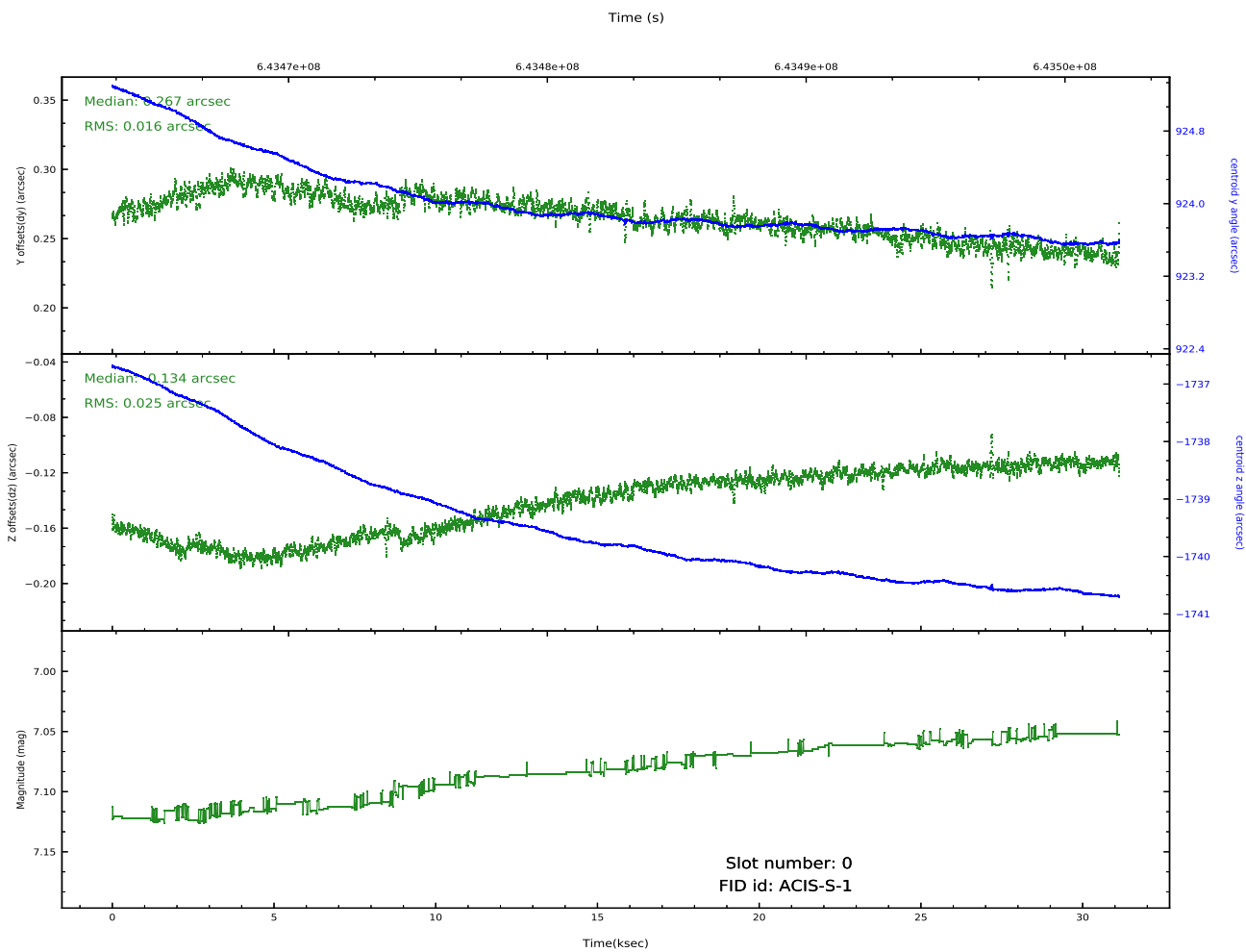
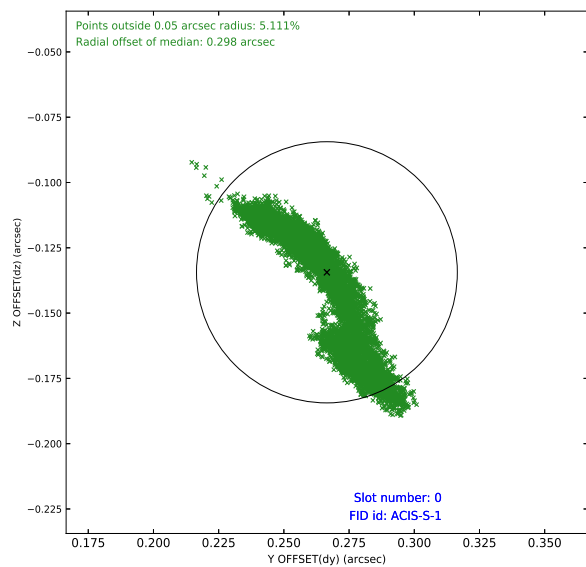
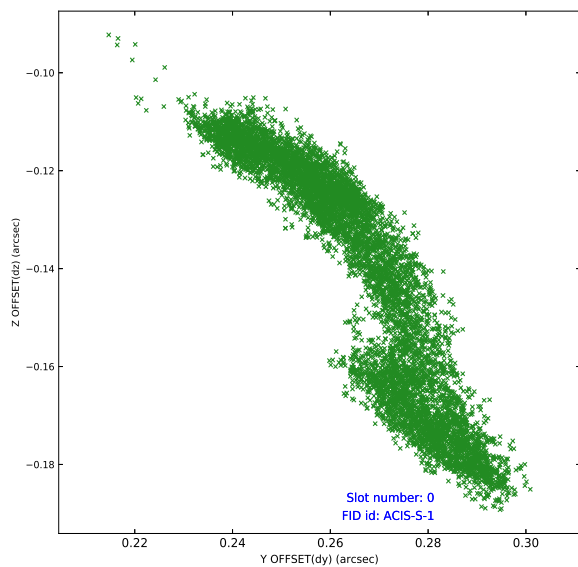


Time (s)

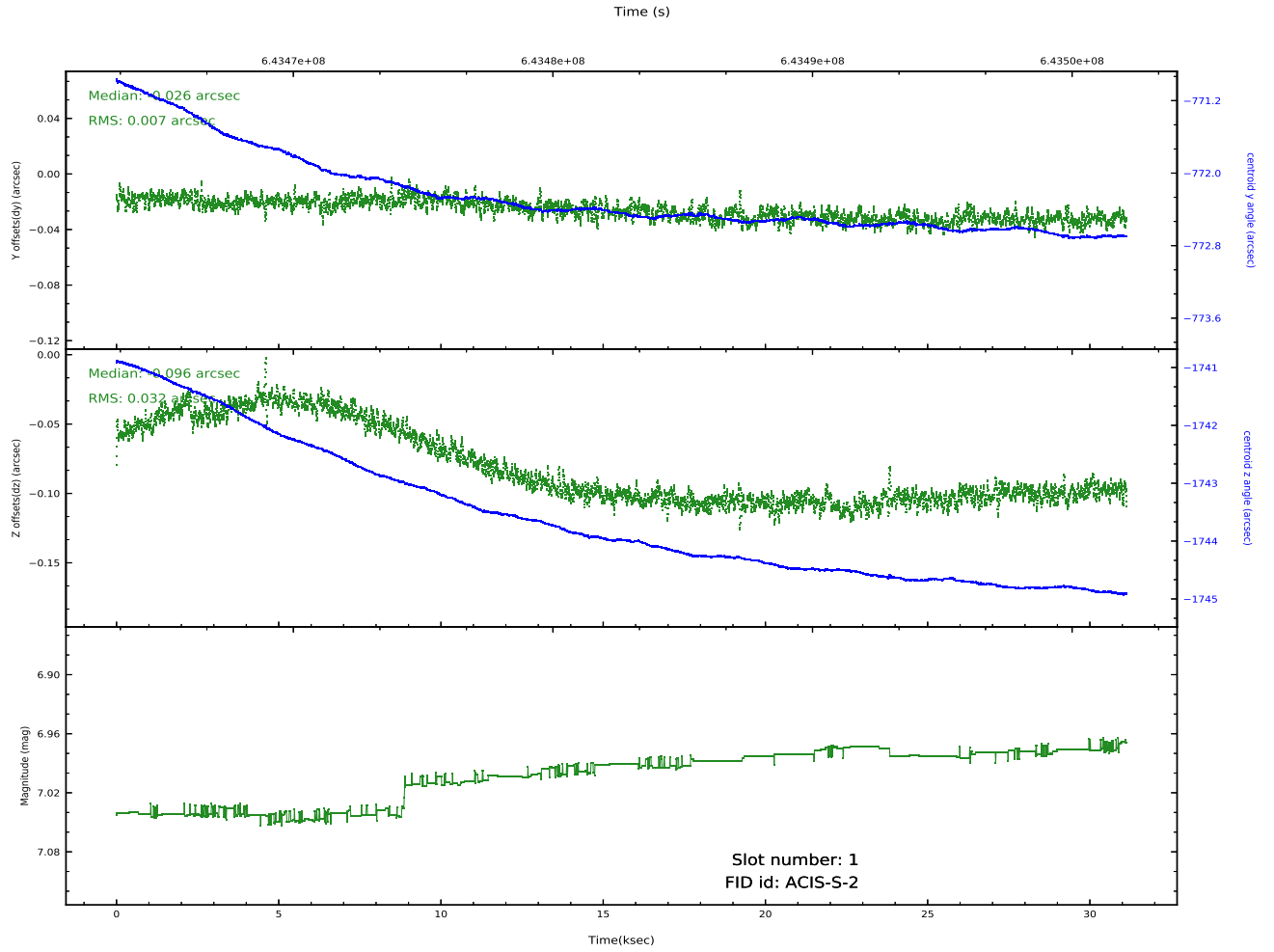
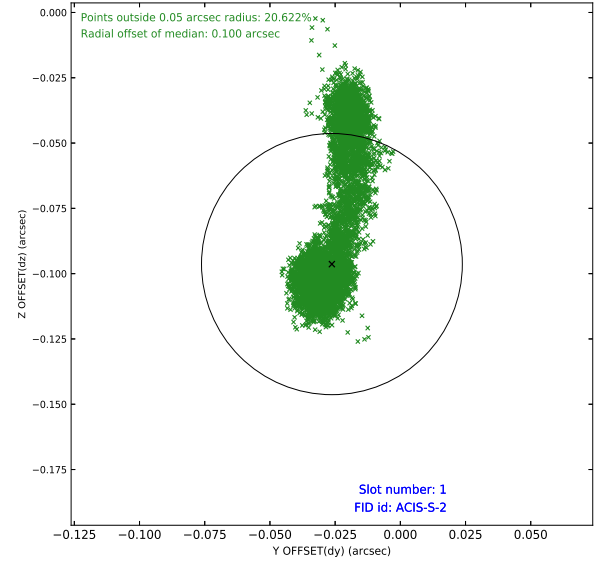
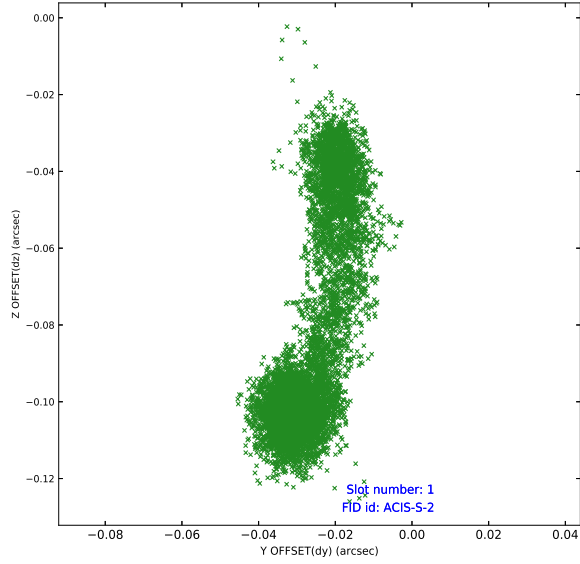


2.5 FID Slots

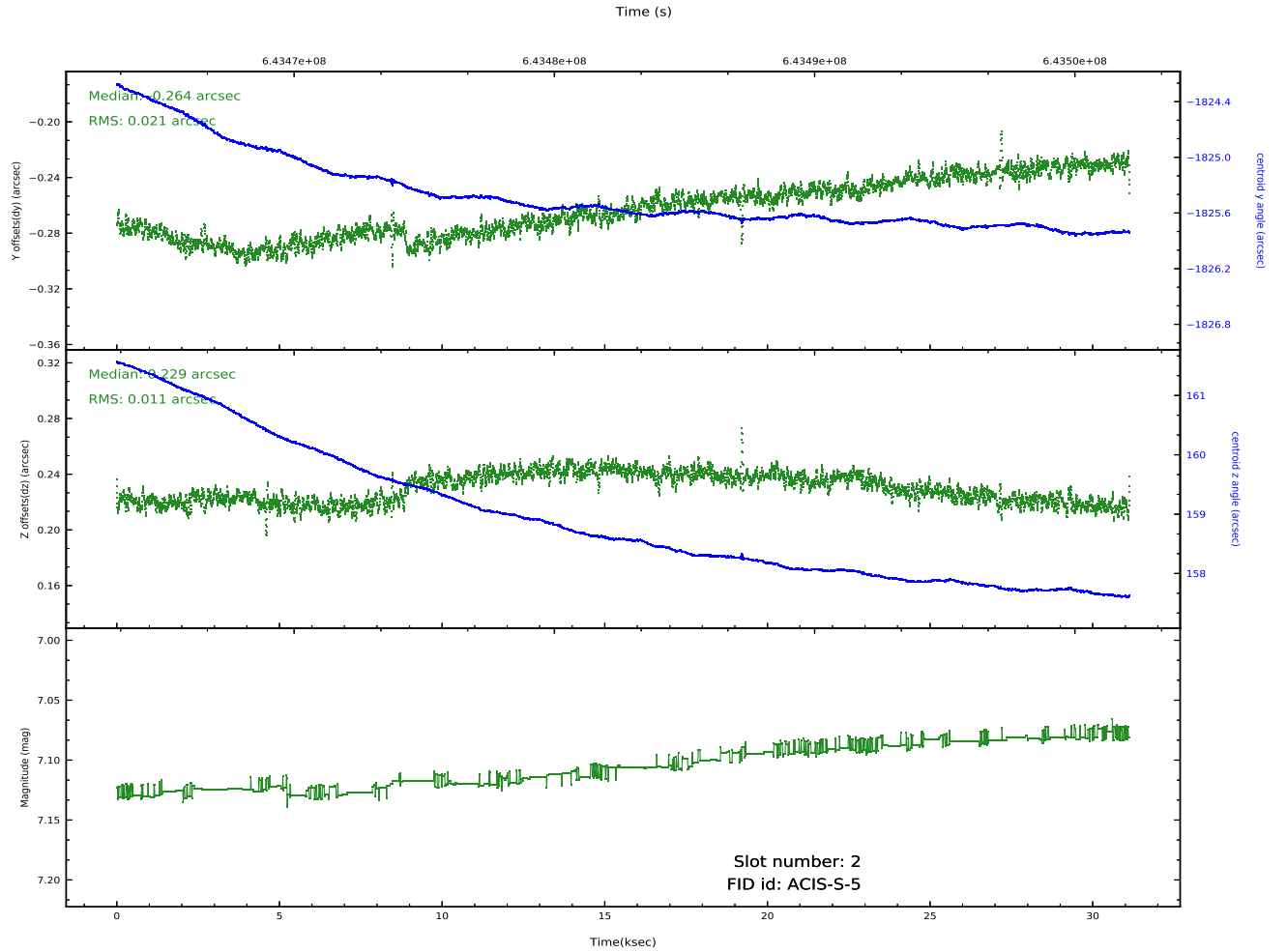
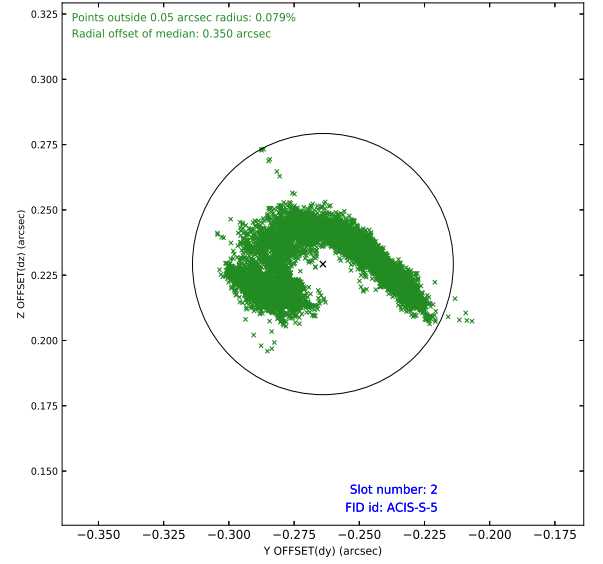
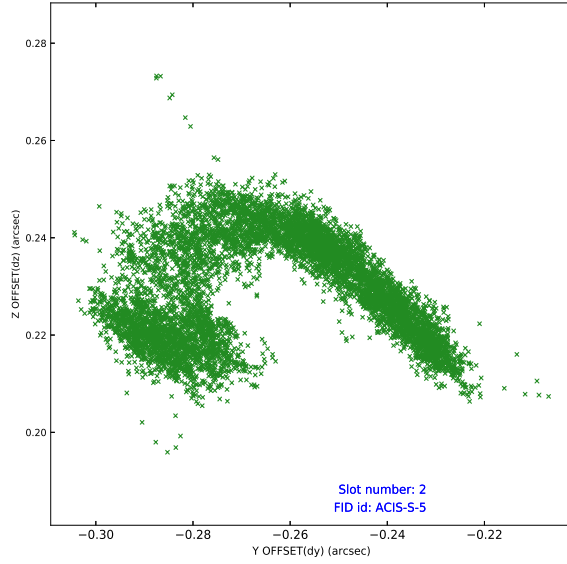
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.068798148036

A.2 Comments

Monitor constraint met.