

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20678 - L2 Version 2
Chandra X-Ray Center

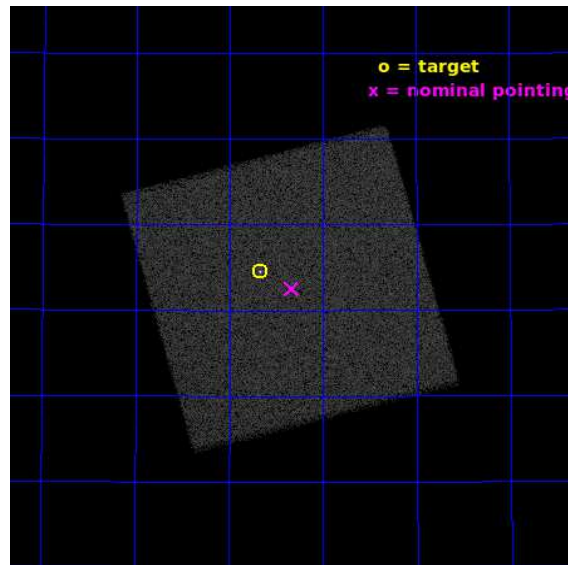
L2 Processing Date : Oct 27 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

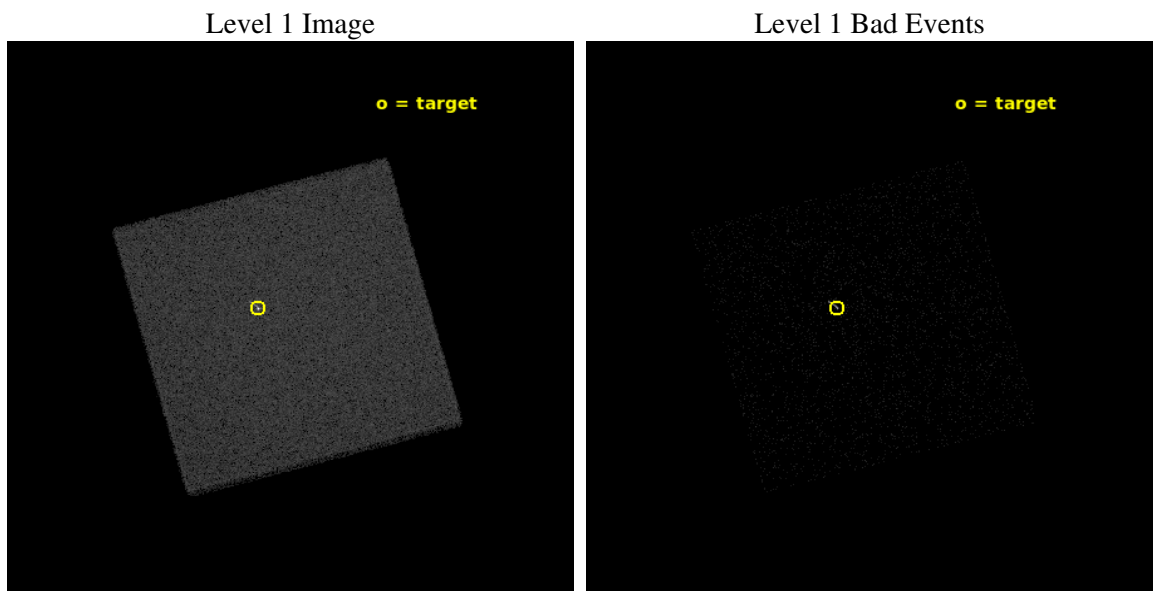
seq_num	291389	Sequence number
obs_id	20678	Observation id
title	AO-19 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.08309352504	Nominal RA [deg]
dec_nom	45.709008783938	Nominal Dec [deg]
roll_nom	209.74185719078	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1177.9813201427	[s]
livetime	1161.376886307	Ontime multiplied by DTCOR
l2events	145037	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	1177.9813201427	[s]
caldbver	4.9.3	 	l1events	243437	Number of level 1 events
date	2020-10-27T19:41:48	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

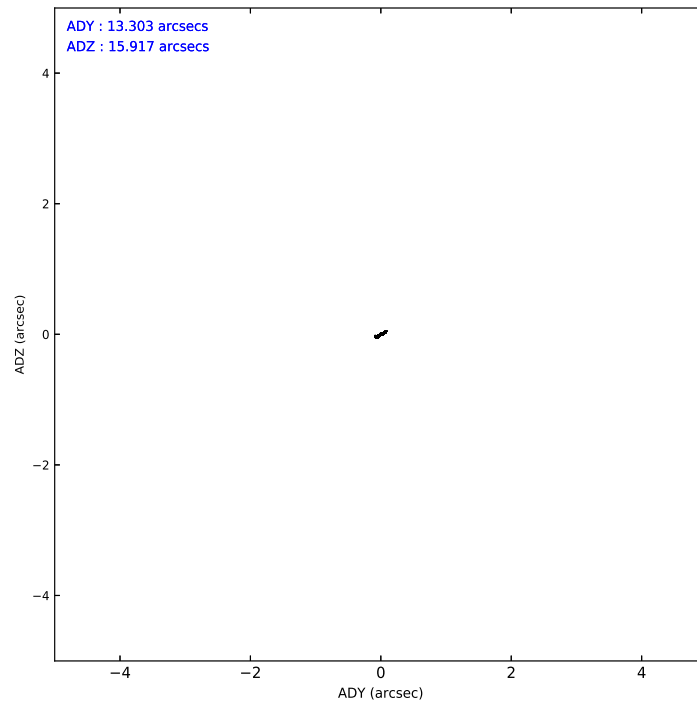
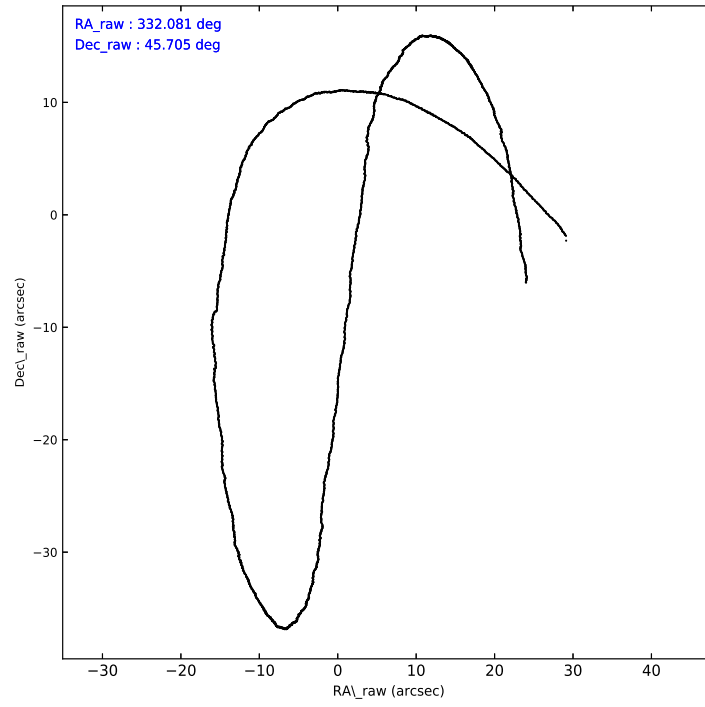
	segment 0
level 1 events	243437
rejected events	53460
rejected %	21%

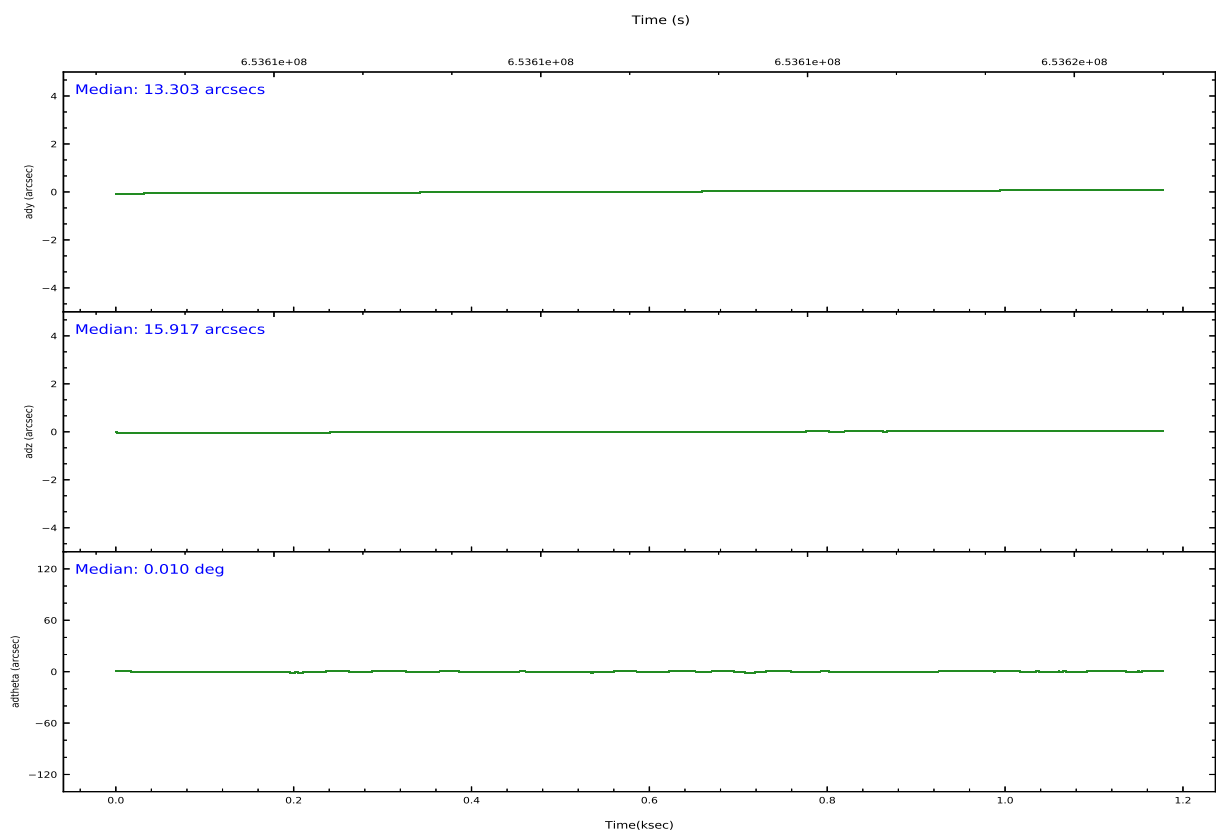
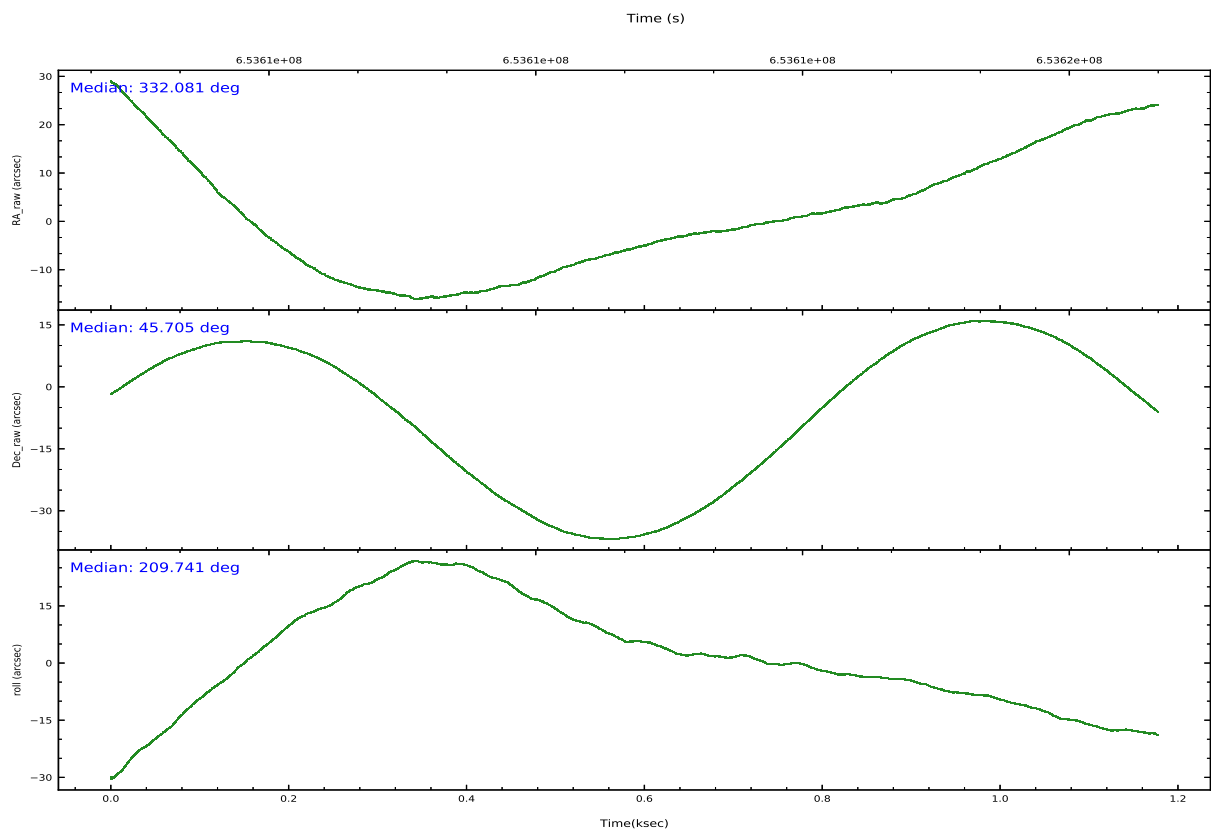
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.100686	332.08309352504
[deg] Pointing Dec	45.725854	45.709008783938
[deg] Pointing Roll	209.838864	209.74185719078
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9829799899862
[mm] SIM translation stage offset	0	0.002508901615314585
[s] Observation start time (MET)	653614300.184000	653613923.9295599
Observation start date	2018-09-17T23:30:31	2018-09-17T23:25:23
[s] Observation end time (MET)	653615300.184000	653615433.75465
Observation end date	2018-09-17T23:47:11	2018-09-17T23:50:33

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect



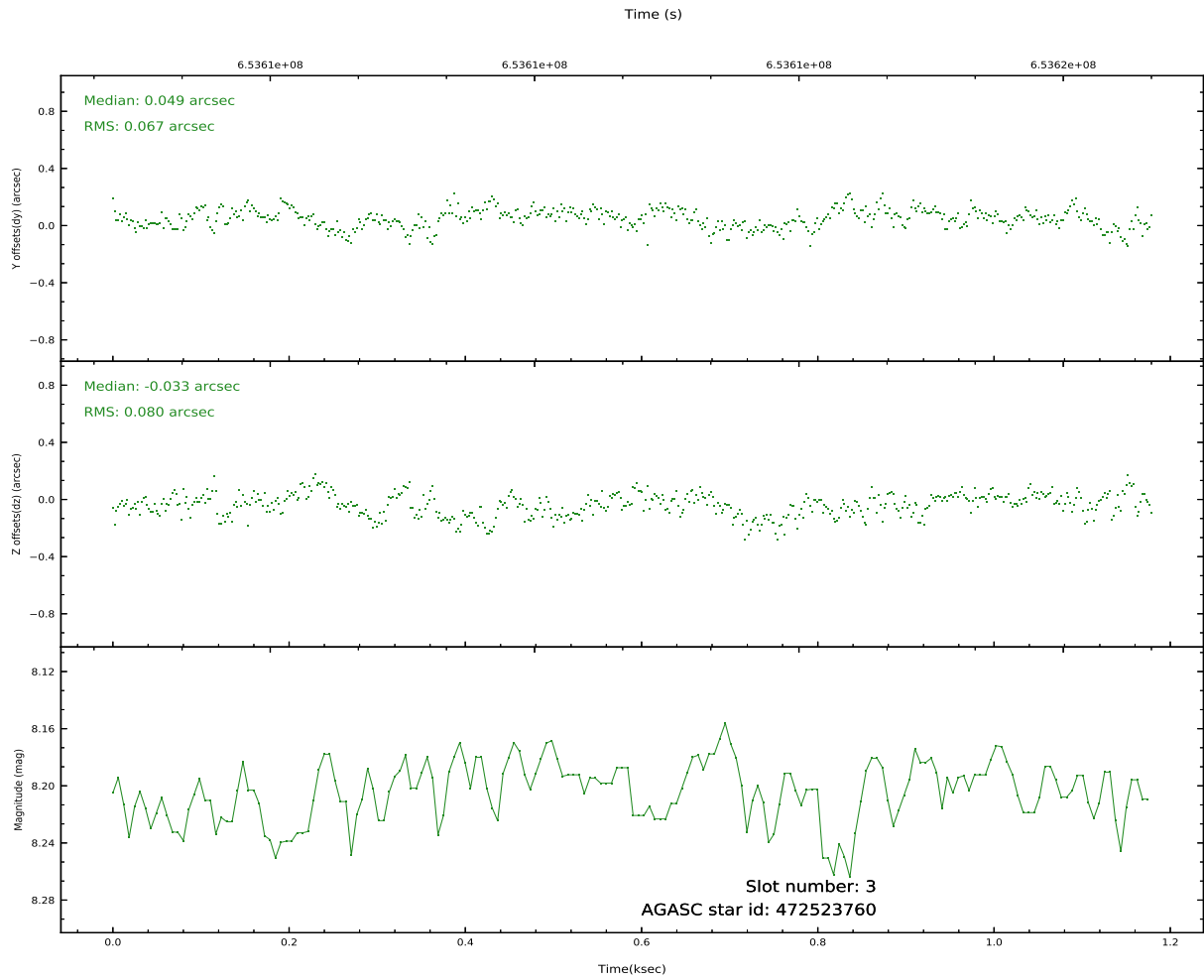
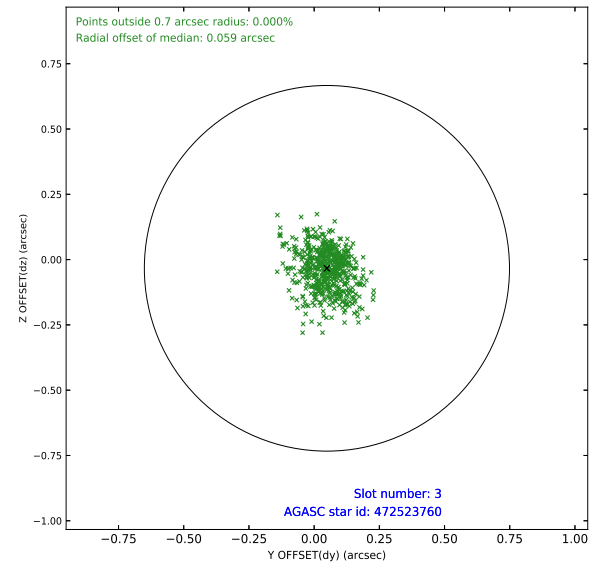
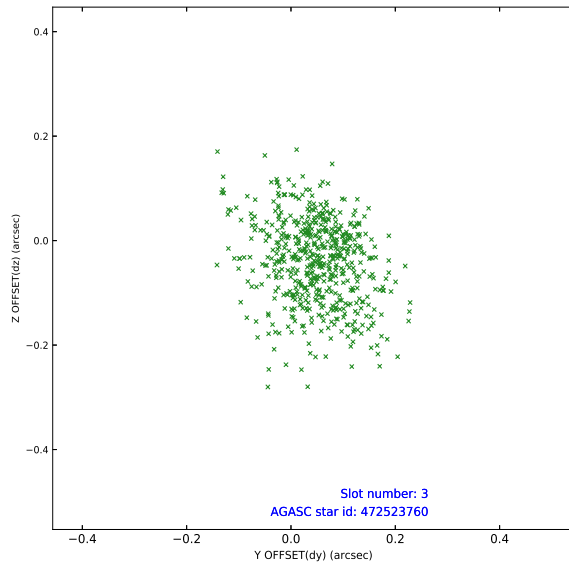


Slot Statistics

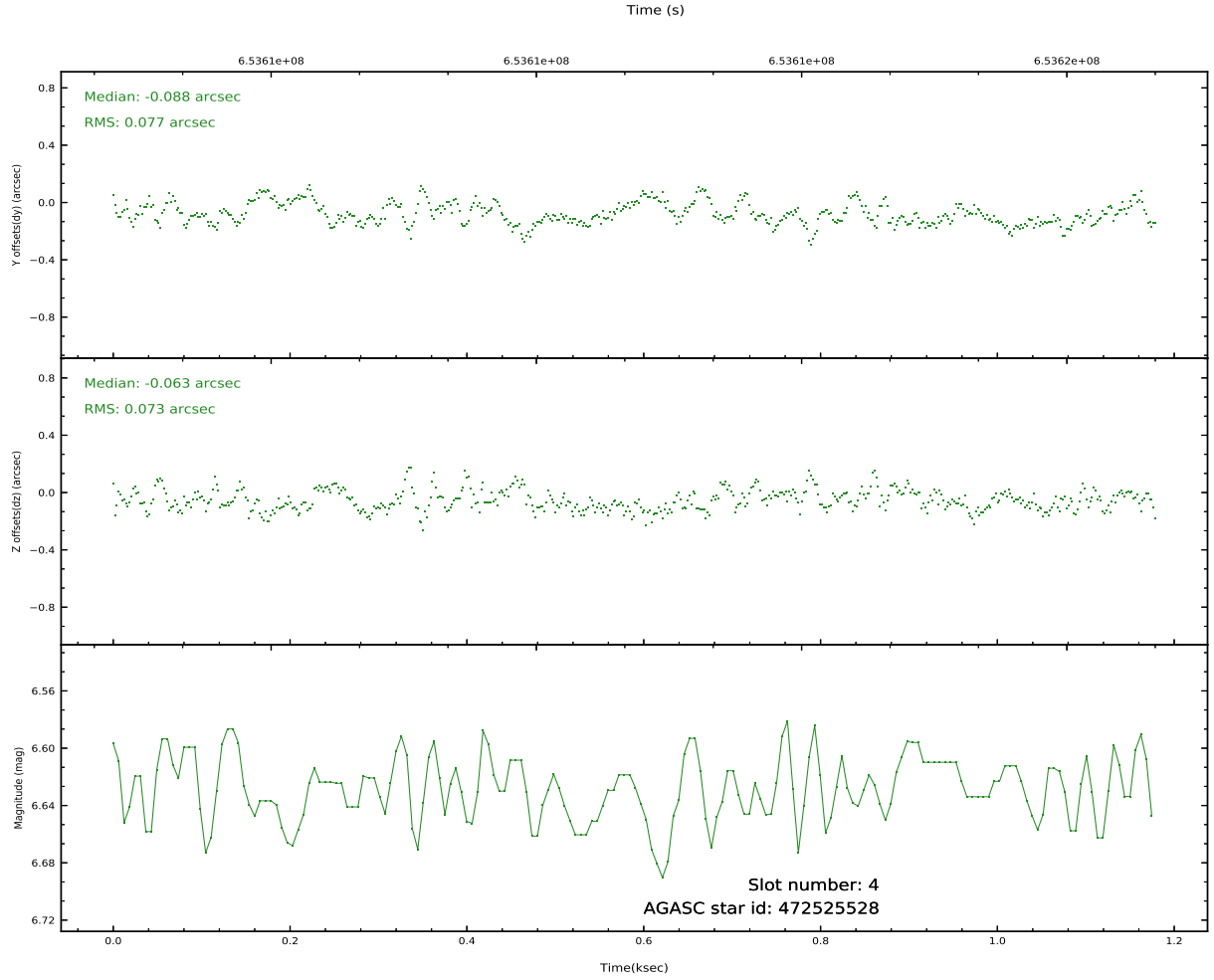
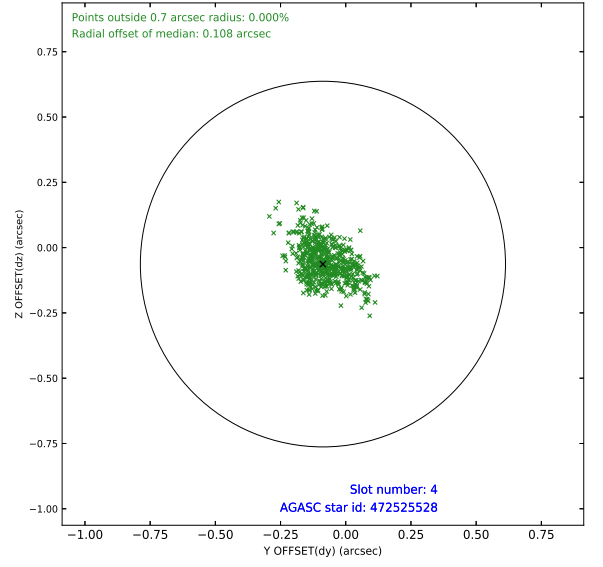
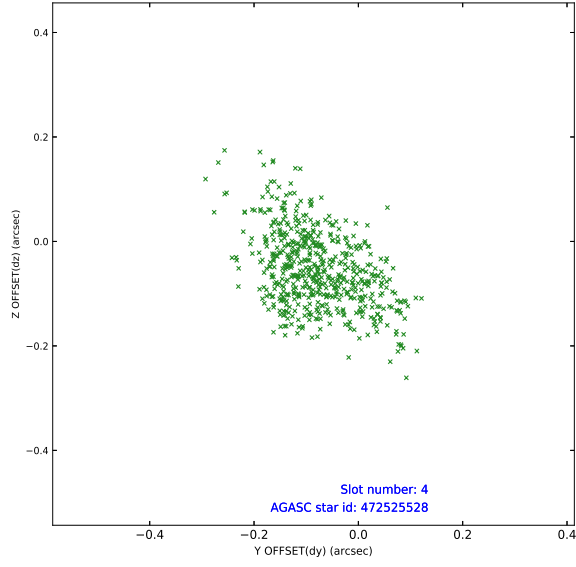
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.03	288	1.000	-0.085	0.038	0.007	0.011	0.000000	0.000000	-769.17	-1303
1	FID		HRC-I-2	7.04	288	1.000	0.333	-0.235	0.005	0.008	0.000000	0.000000	841.20	-1310
2	FID		HRC-I-3	7.09	288	1.000	-0.129	0.108	0.006	0.010	0.000000	0.000000	-1194.74	996
3	GUIDE	used	472523760	8.20	576	1.000	0.049	-0.033	0.108	0.189	331.645363	45.403260	1576.67	436
4	GUIDE	used	472525528	6.63	576	1.000	-0.088	-0.063	0.108	0.192	331.551102	45.248694	2064.75	798
5	GUIDE	used	472651904	6.40	576	1.000	-0.074	-0.206	0.128	0.220	332.170077	45.742257	-174.82	39
6	GUIDE	used	420754040	9.03	576	1.000	0.011	0.013	0.144	0.255	331.917939	44.882543	1913.95	2405
7	GUIDE	used	472533912	9.11	574	1.000	0.103	0.289	0.163	0.264	331.791136	46.368695	-479.62	-2382

2.4 Star Slots

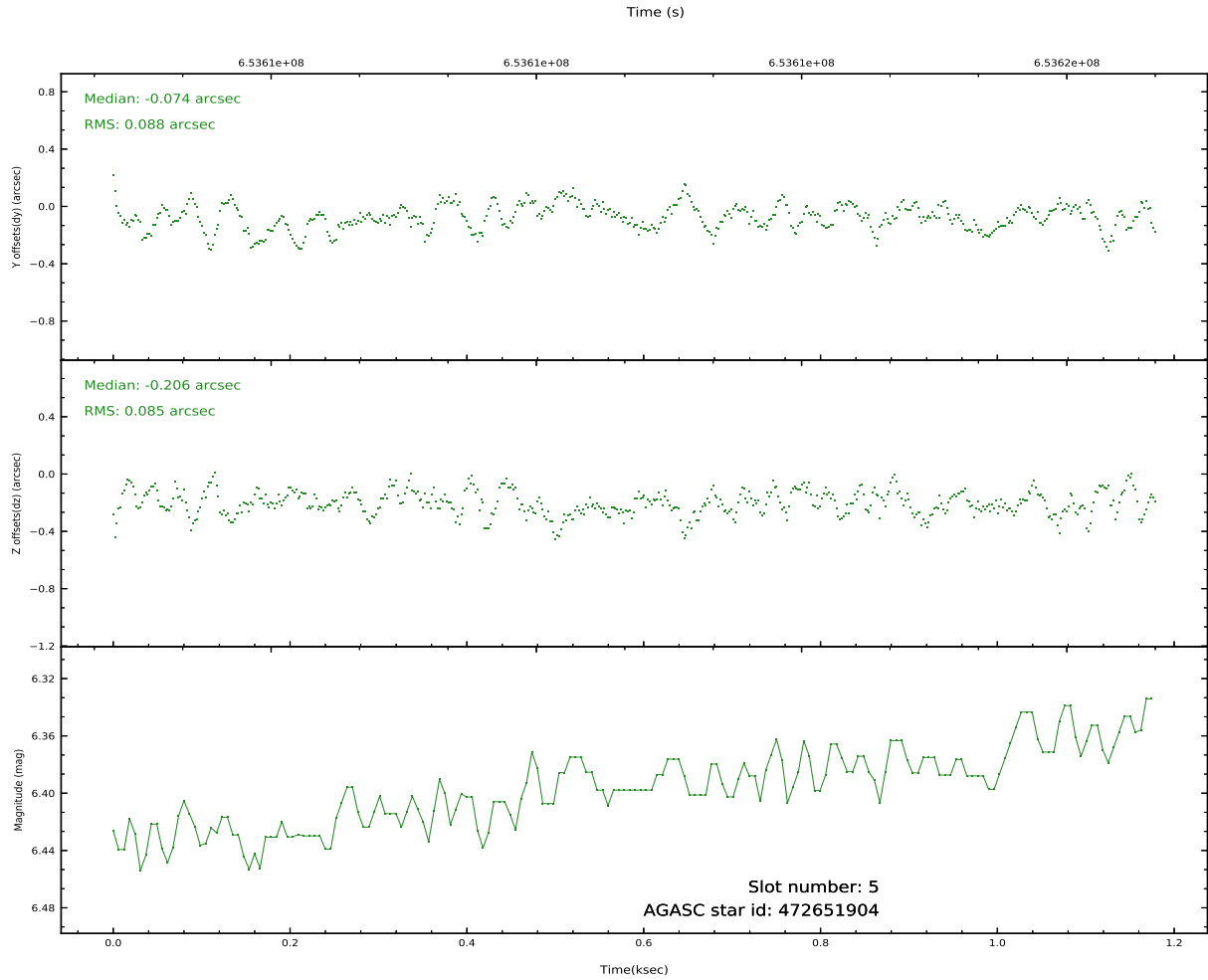
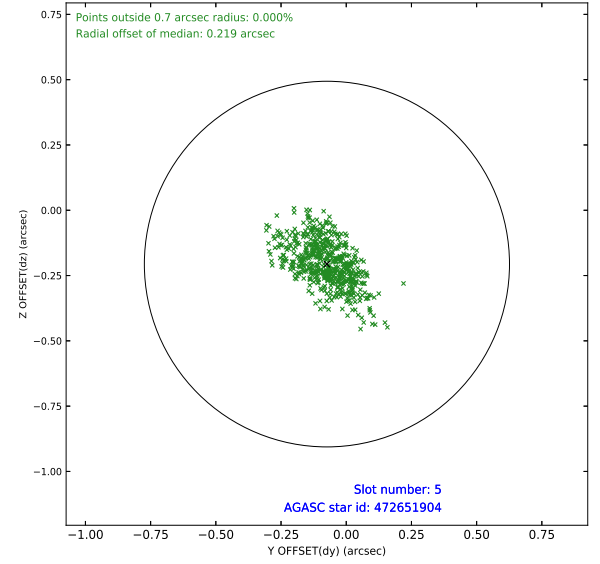
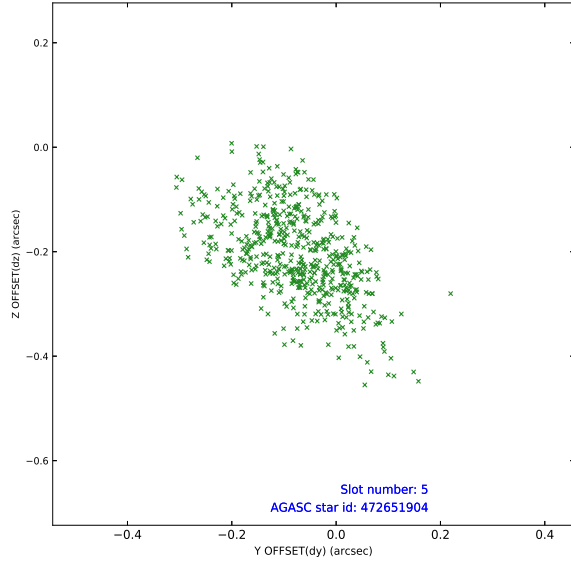
2.4.1 Slot 3



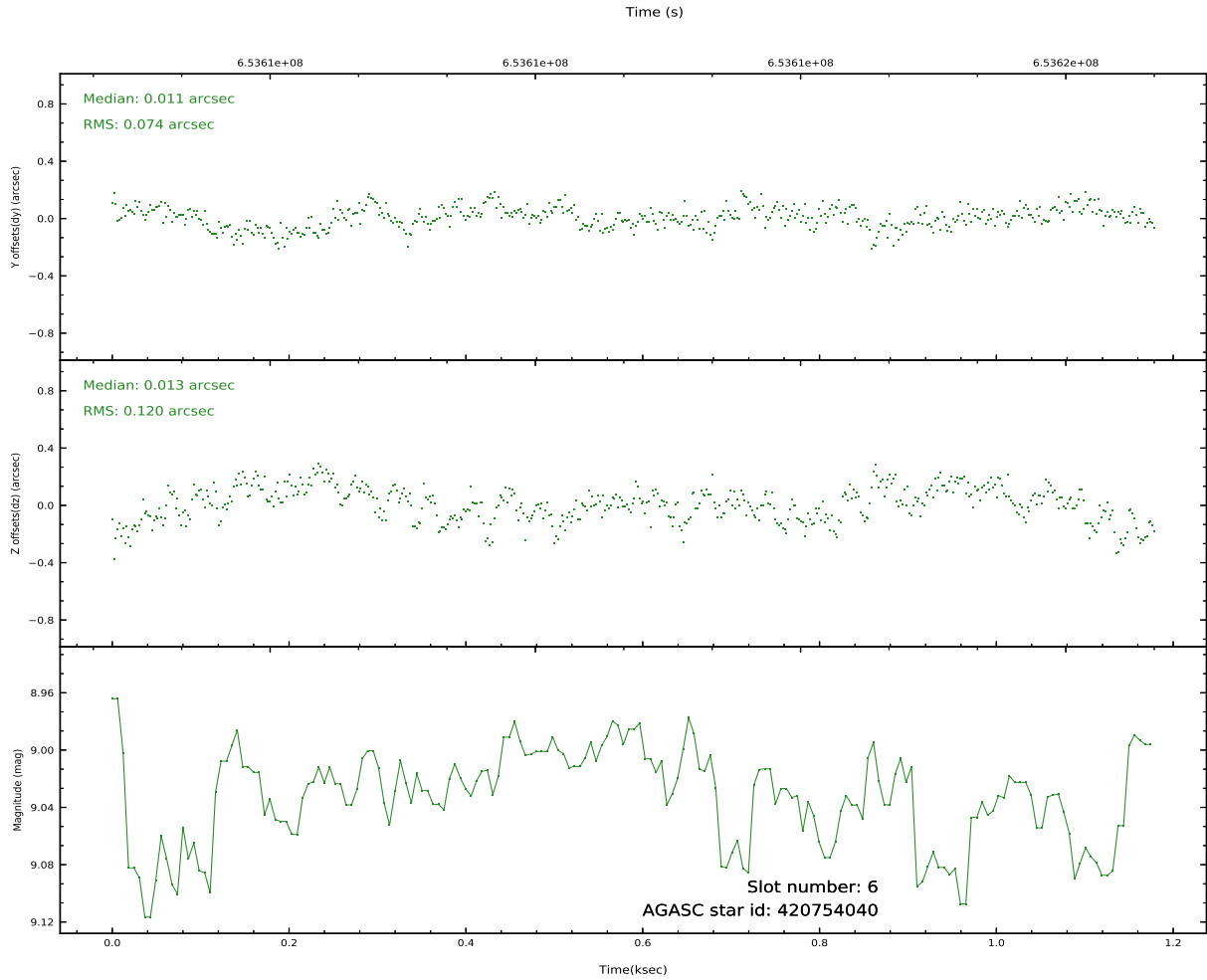
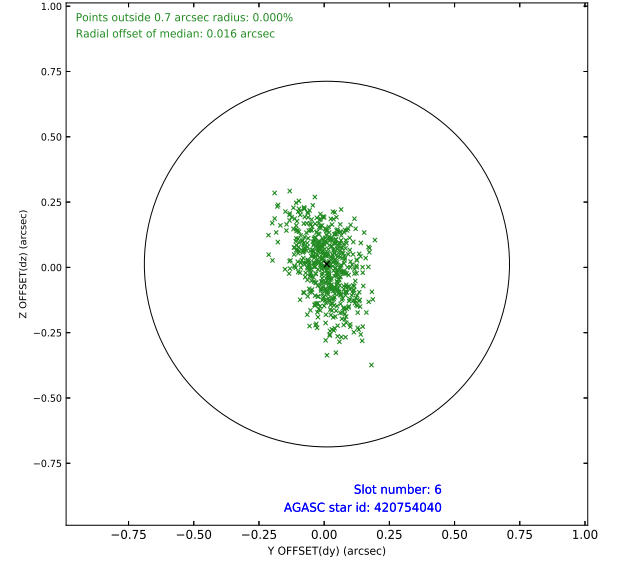
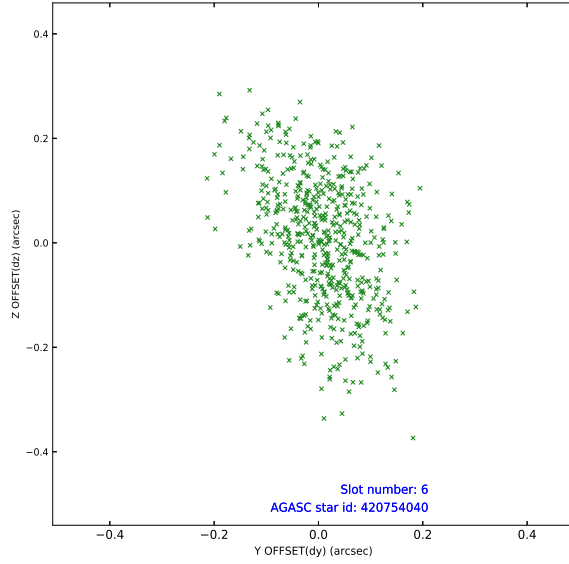
2.4.2 Slot 4



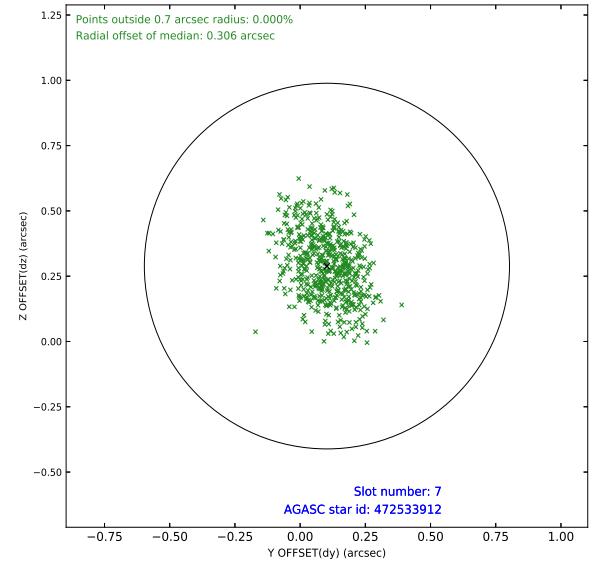
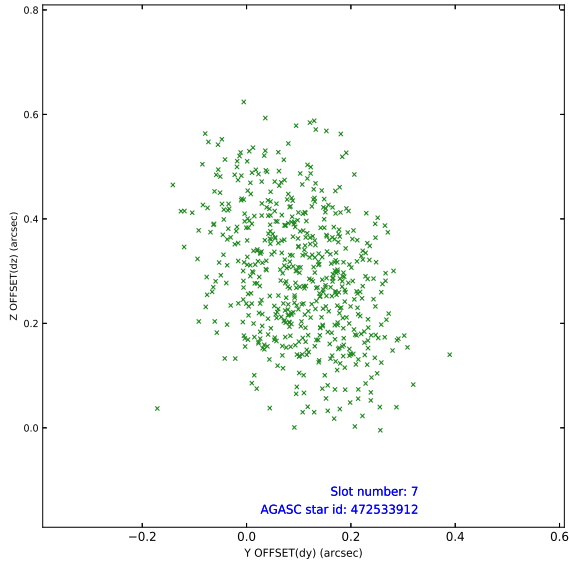
2.4.3 Slot 5



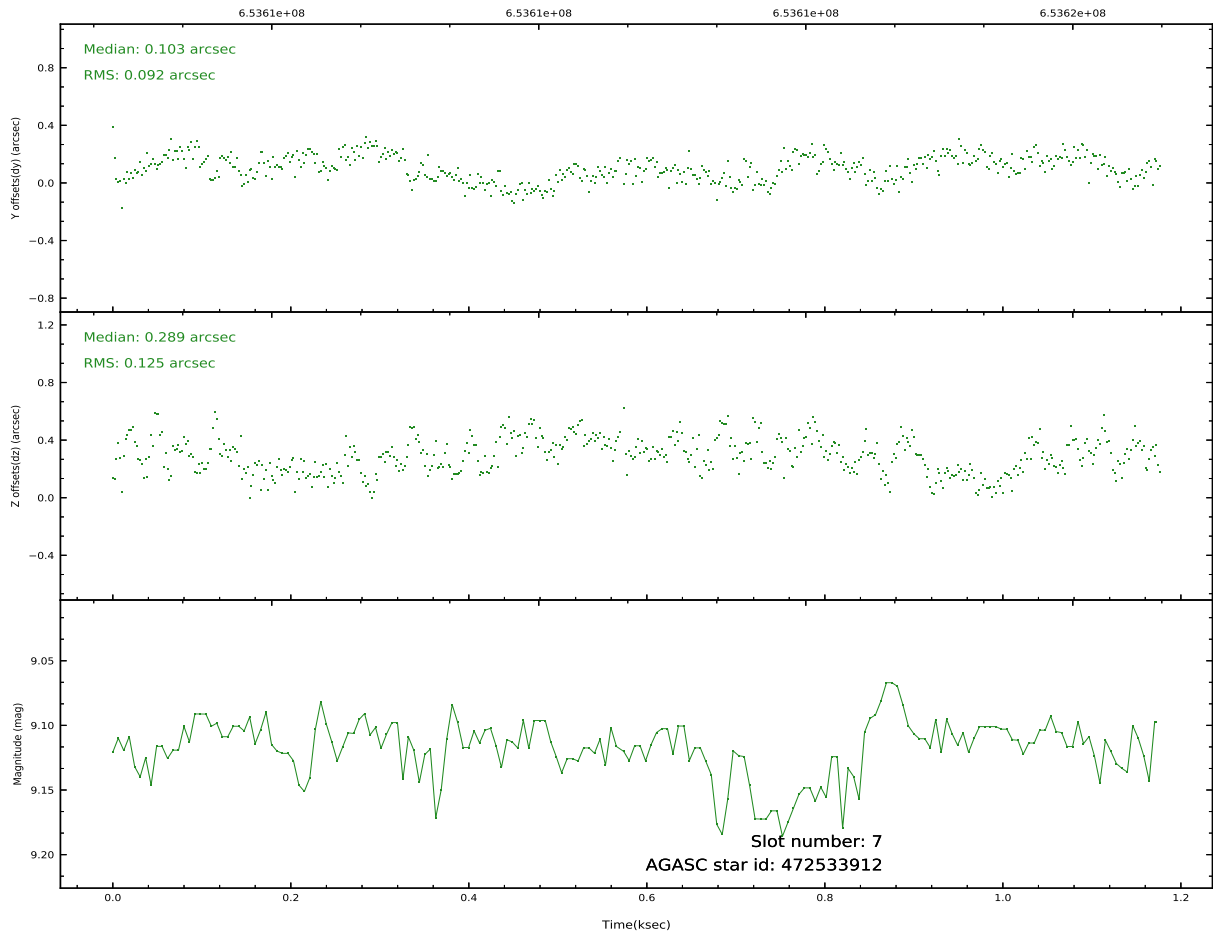
2.4.4 Slot 6



2.4.5 Slot 7

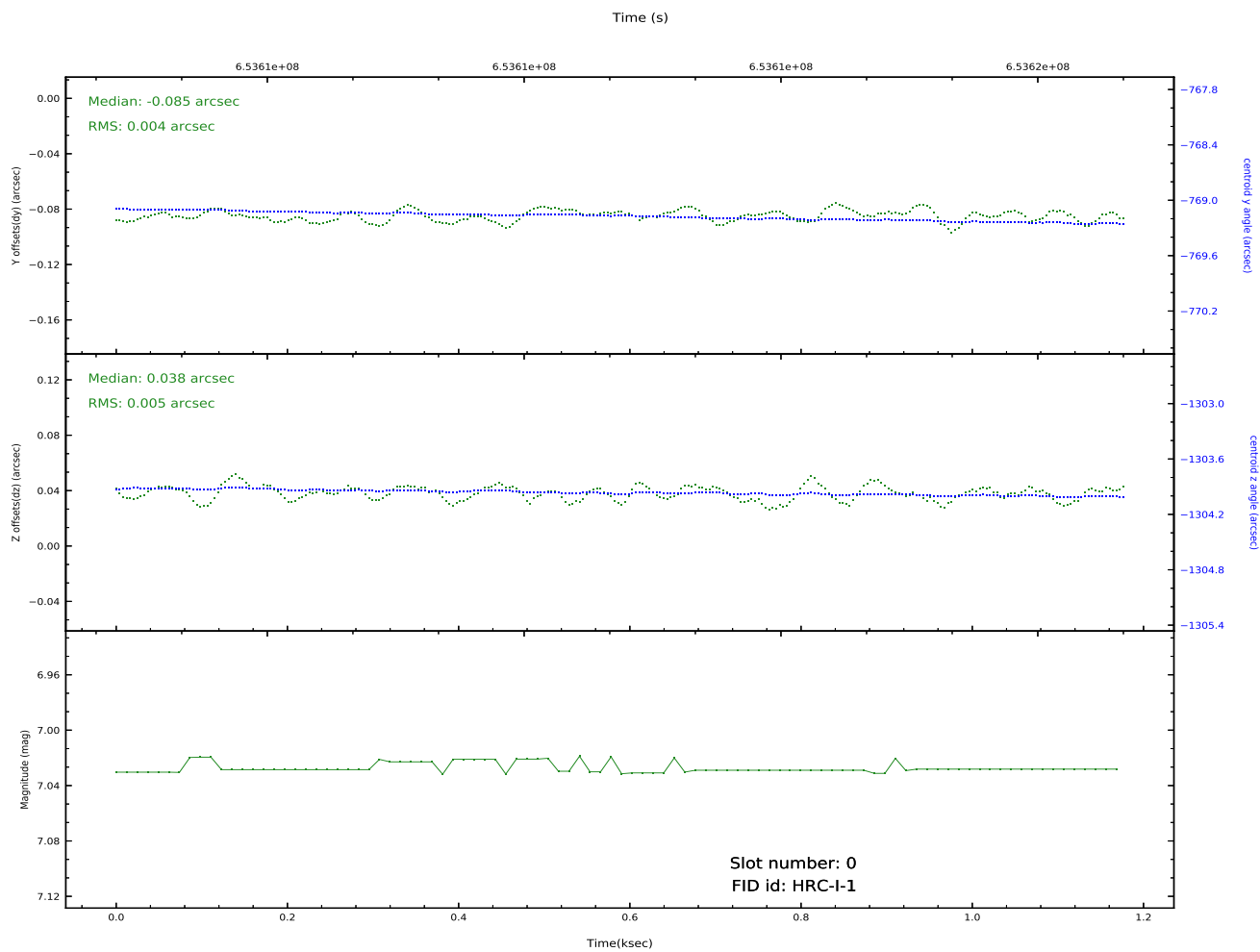
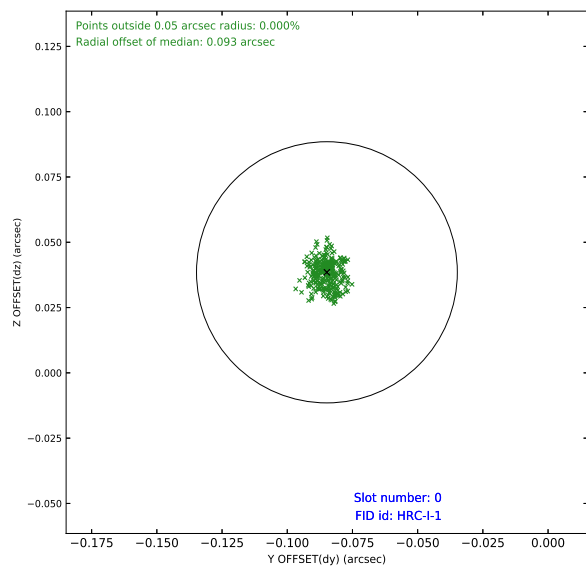
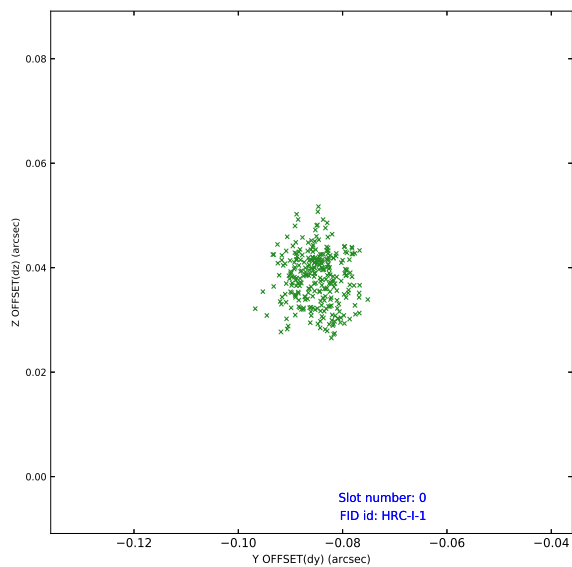


Time (s)

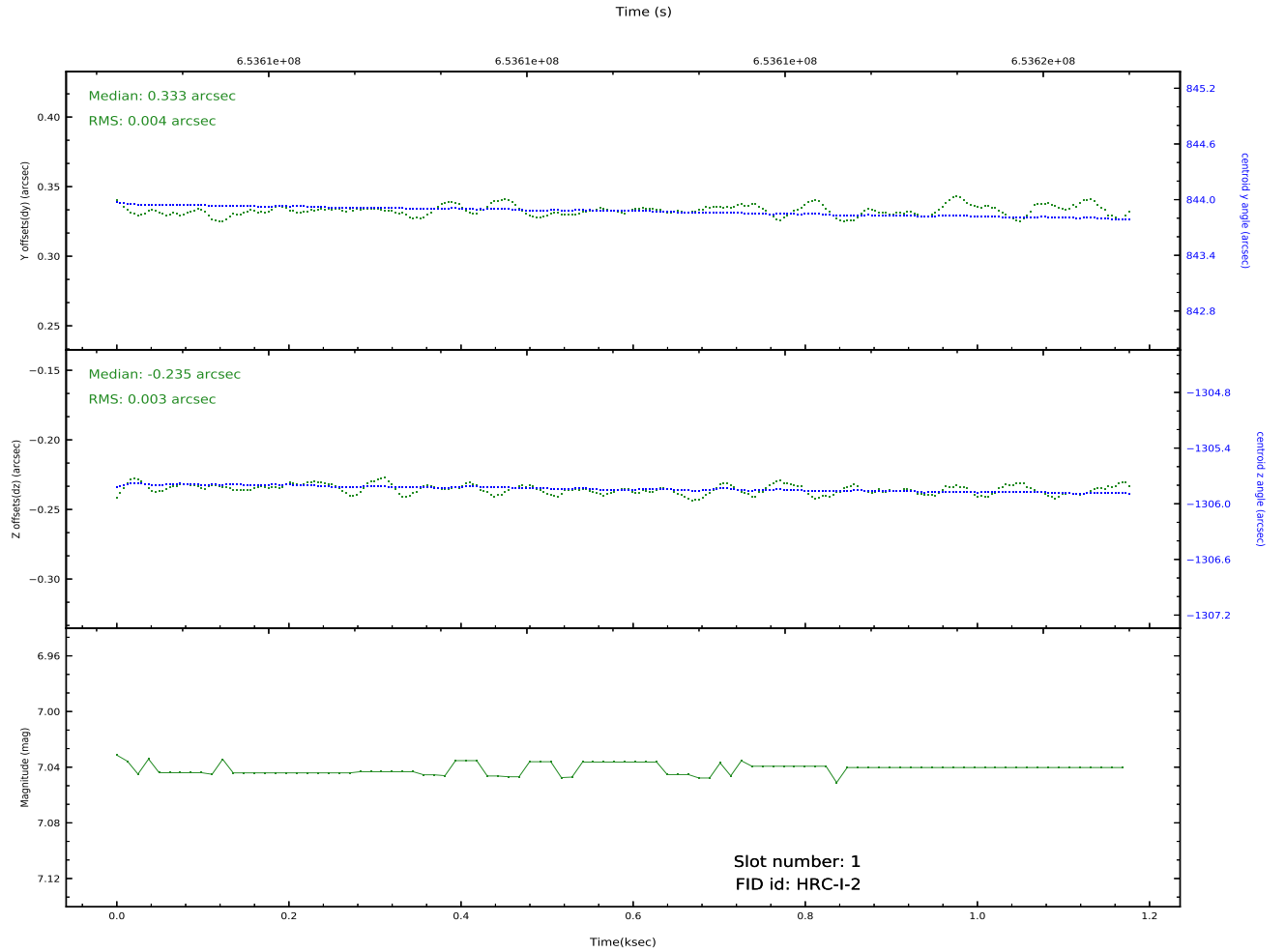
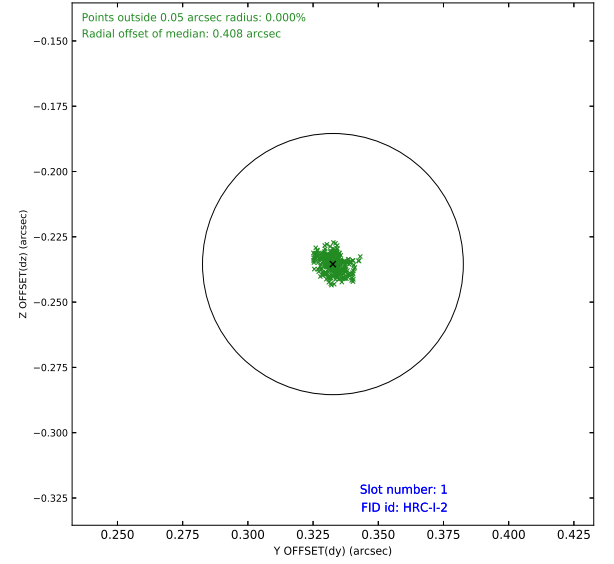
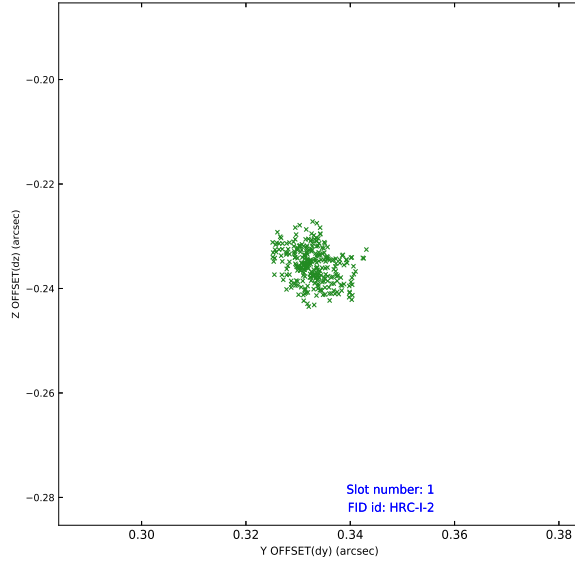


2.5 FID Slots

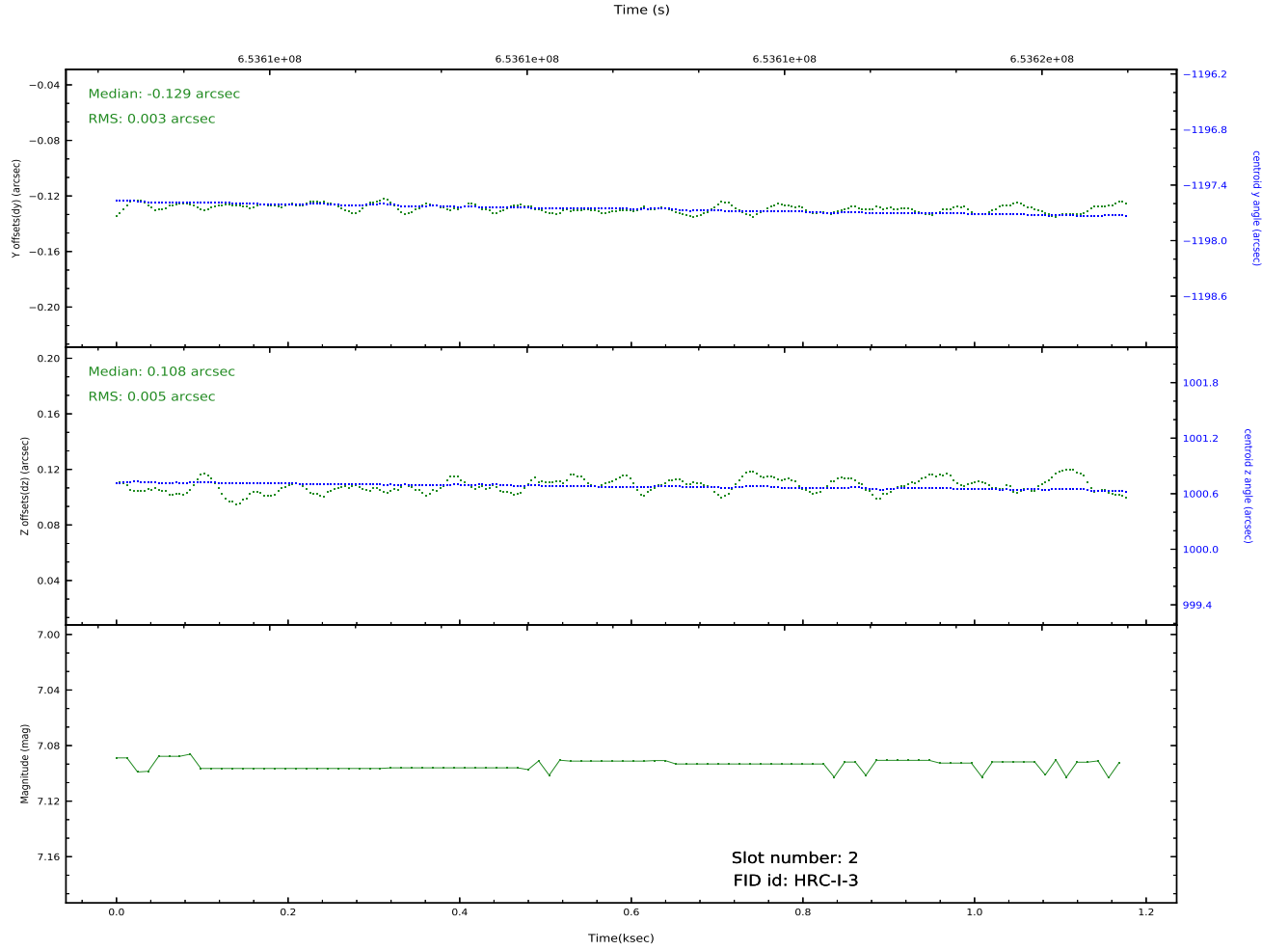
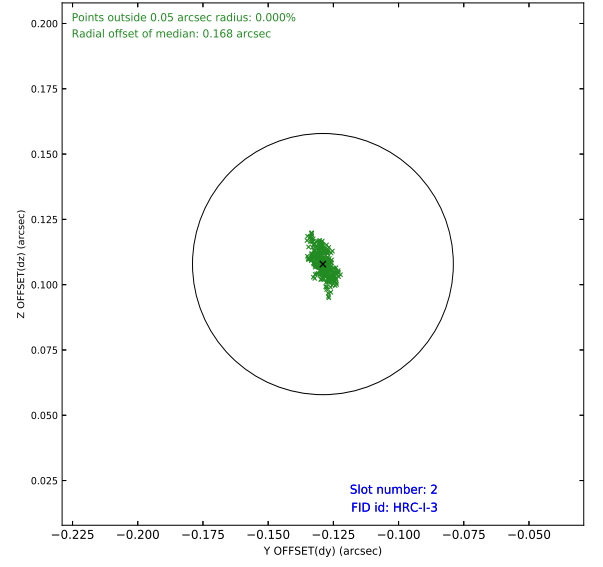
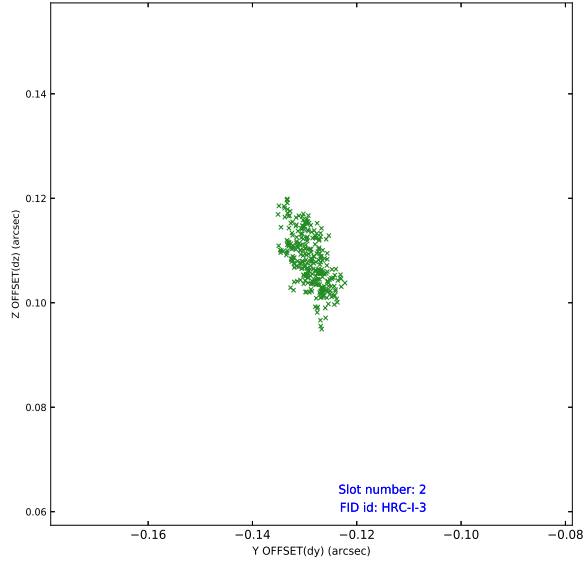
2.5.1 Slot 0



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)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1777250701189

A.2 Comments