

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20663 - L2 Version 2
Chandra X-Ray Center

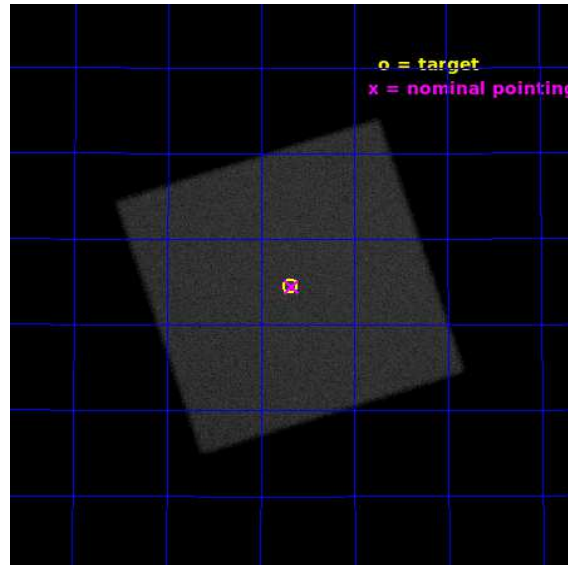
L2 Processing Date : Oct 27 2020

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

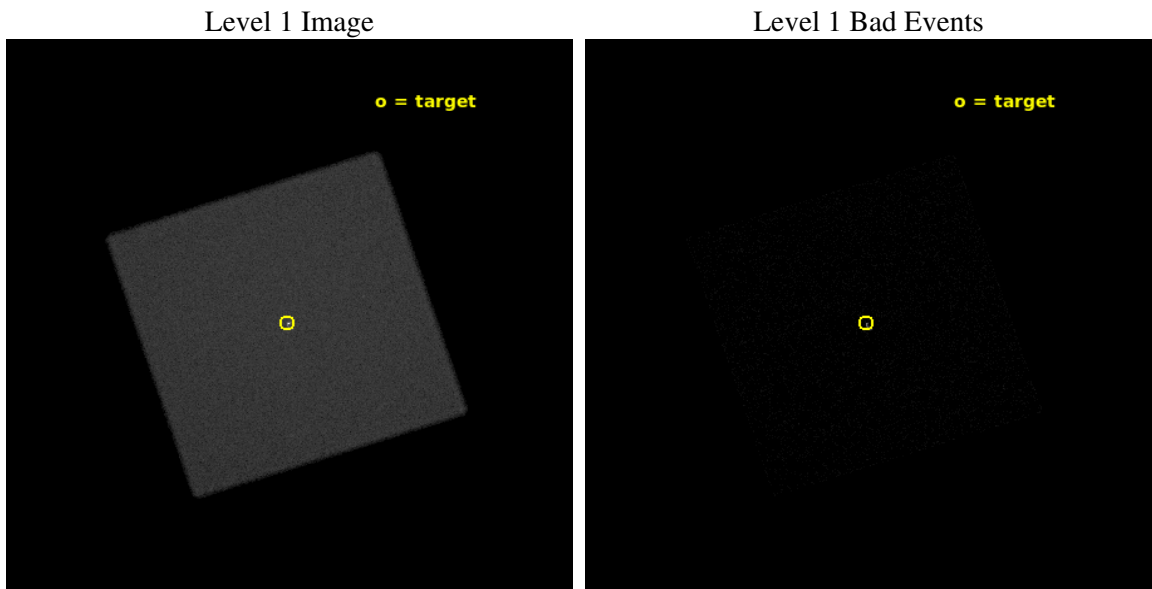
seq_num	291374	Sequence number
obs_id	20663	Observation id
title	AO-19 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.16659760886	Nominal RA [deg]
dec_nom	45.741154905424	Nominal Dec [deg]
roll_nom	206.89572095847	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5150.8815561533	[s]
livetime	5077.892507073	Ontime multiplied by DTCOR
l2events	638584	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	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	5150.8815561533	[s]
caldsver	4.9.3	 	l1events	989930	Number of level 1 events
date	2020-10-27T19:07:36	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

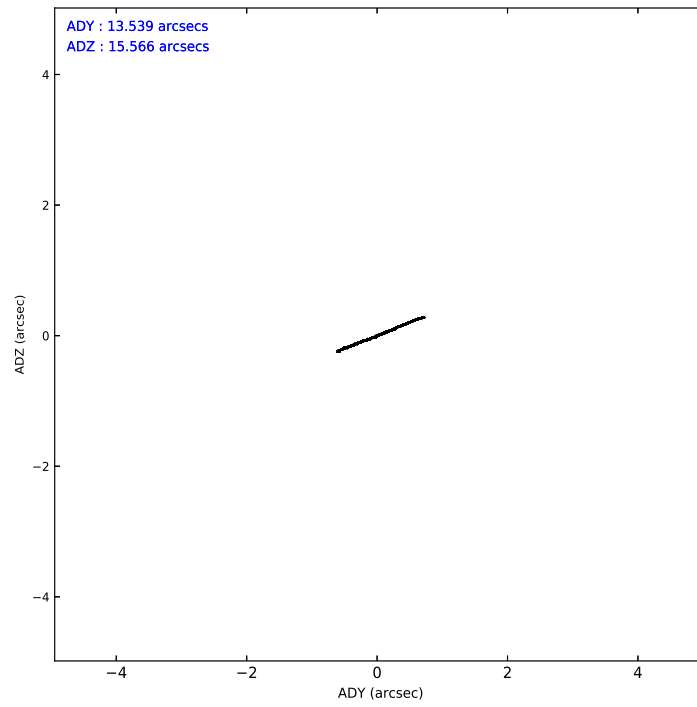
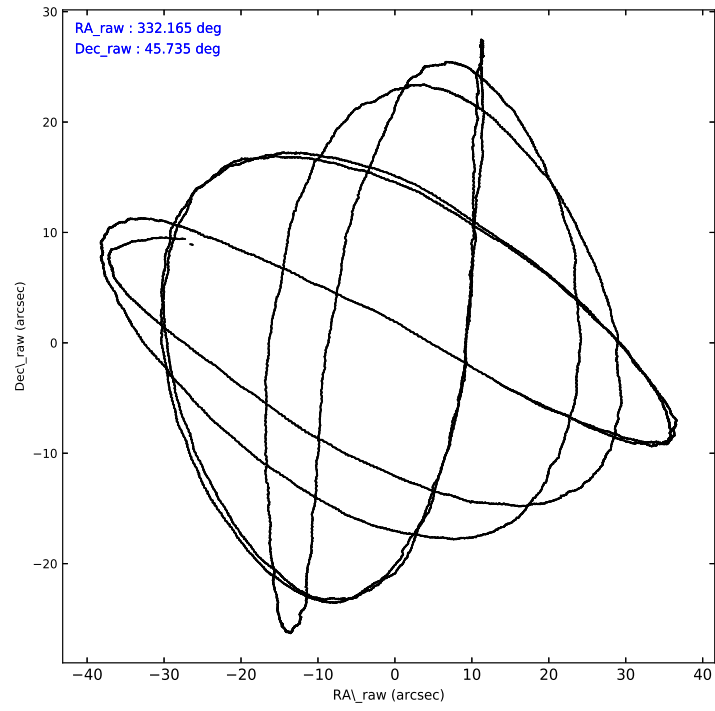
	segment 0
level 1 events	989930
rejected events	155850
rejected %	15%

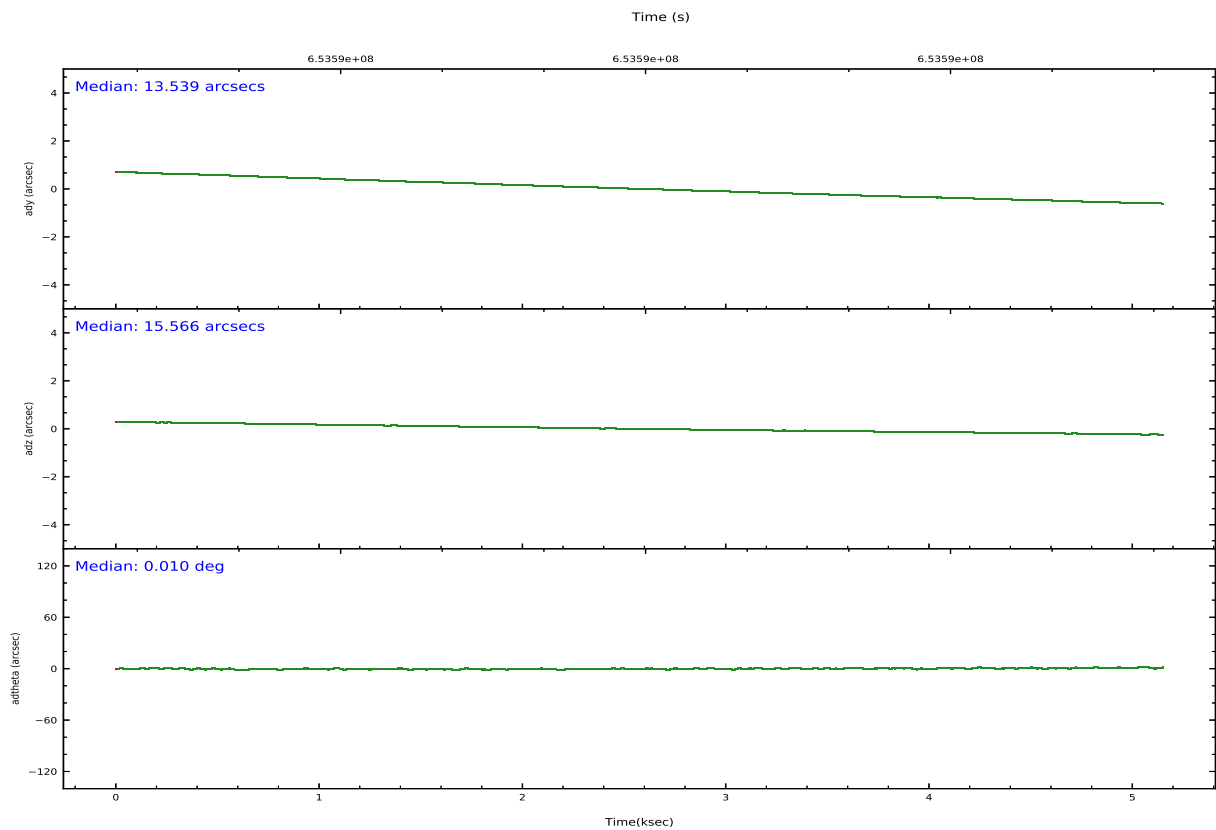
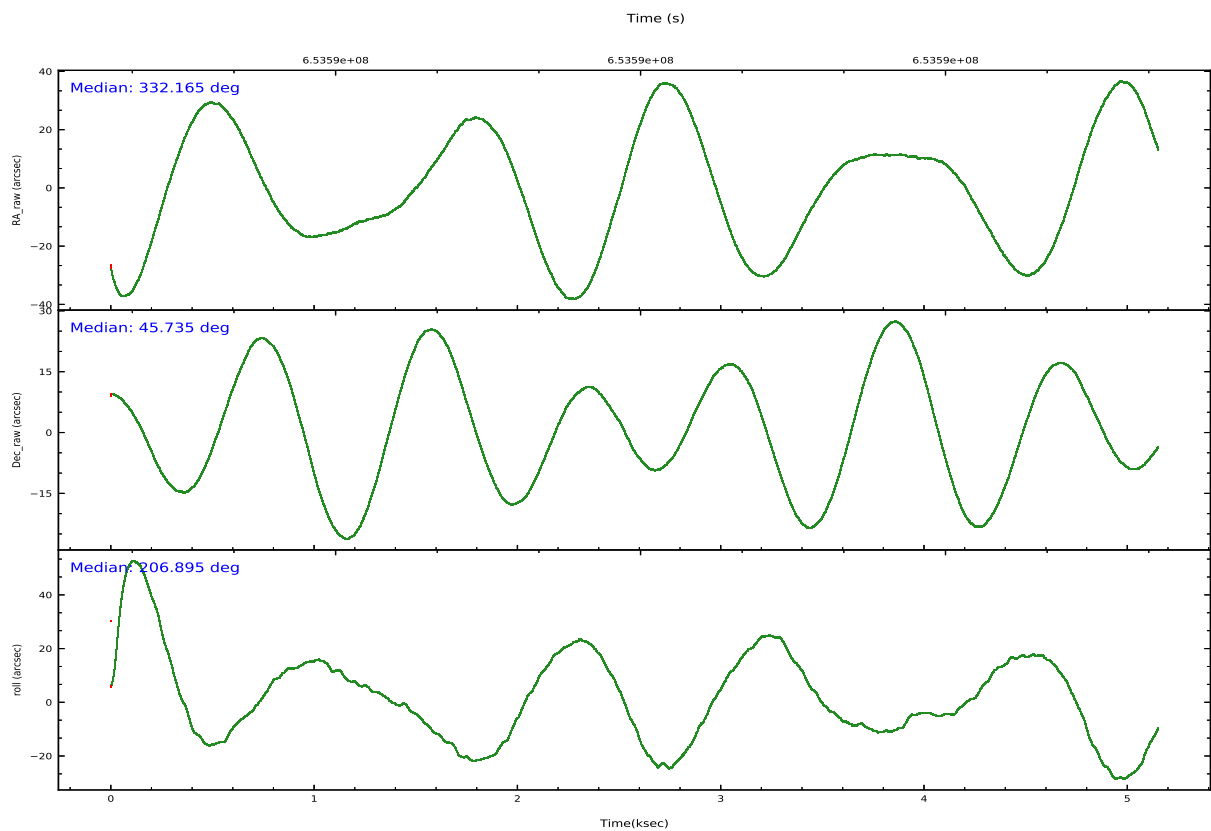
2.2 Compared Parameters

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	332.184821	332.16659760886
[deg] Pointing Dec	45.758599	45.741154905424
[deg] Pointing Roll	206.989382	206.89572095847
[s] Window start time (MET)	649468869.184000	649468869.184000
[s] Window stop time (MET)	657331269.184000	657331269.184000
[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)	653587546.184000	653586605.11544
Observation start date	2018-09-17T16:04:37	2018-09-17T15:50:05
[s] Observation end time (MET)	653592546.184000	653592732.5658
Observation end date	2018-09-17T17:27:57	2018-09-17T17:32:12

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

2.3 Aspect



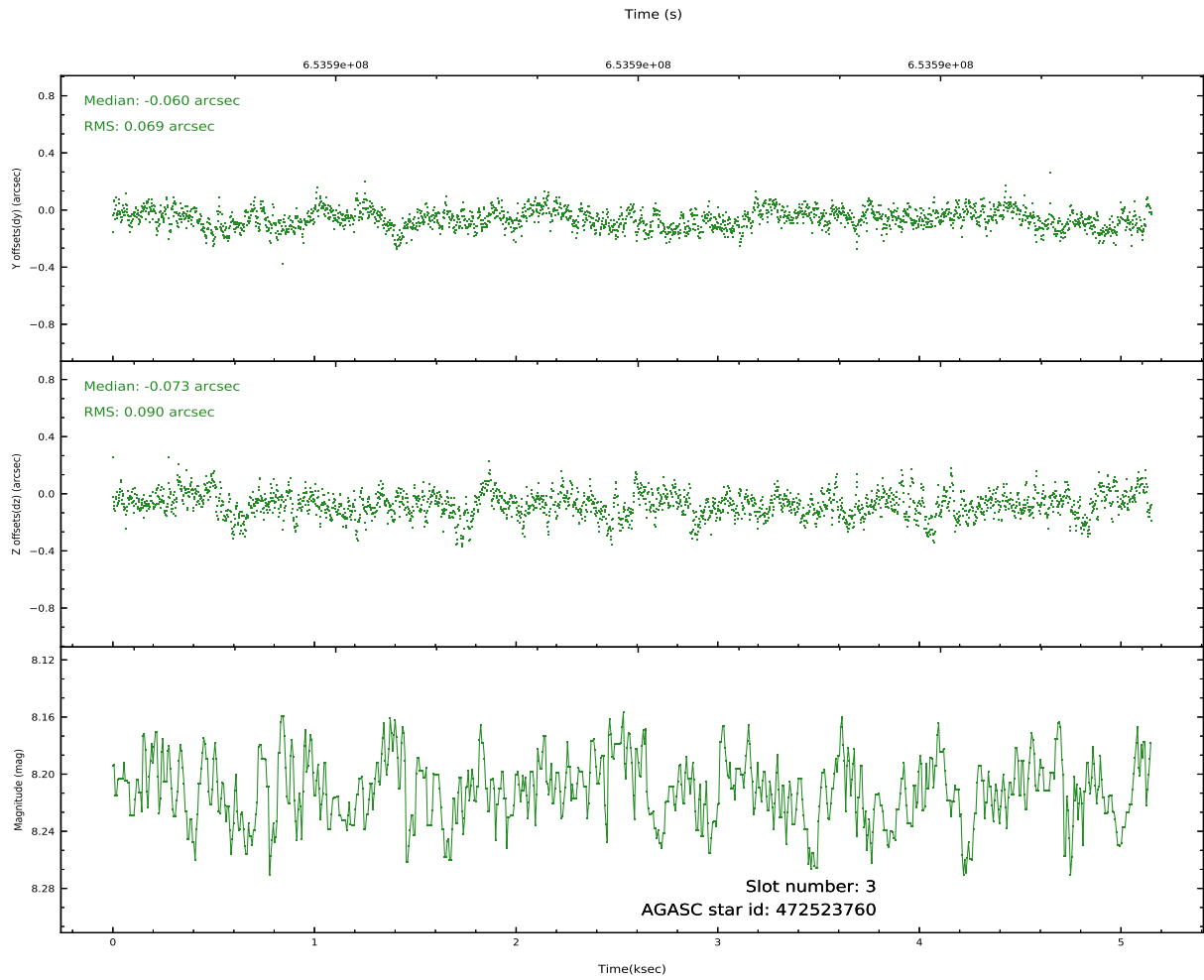
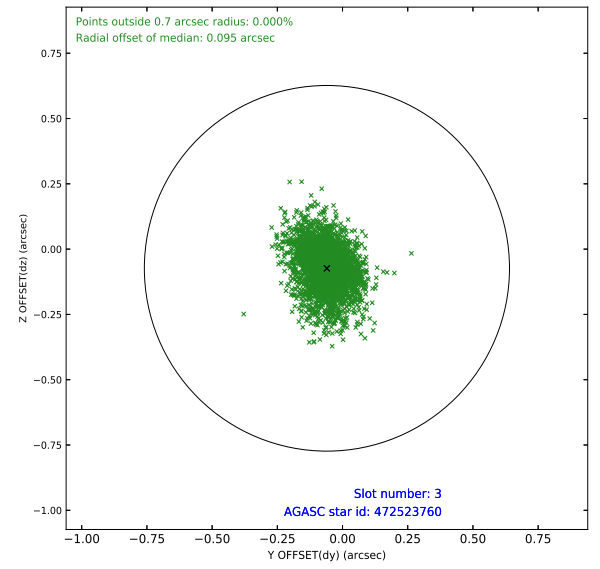
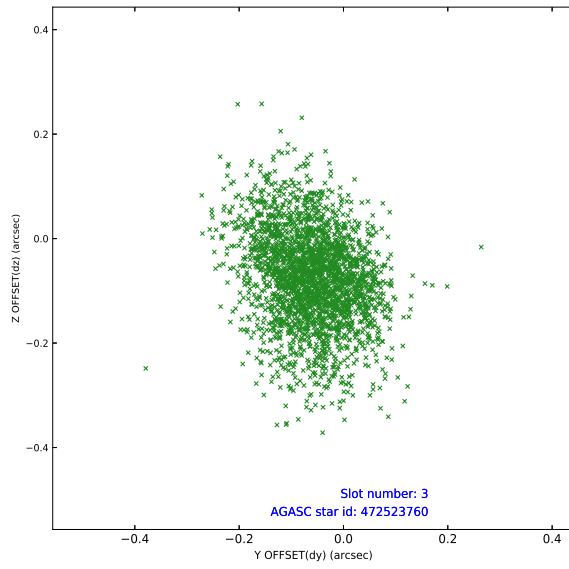


Slot Statistics

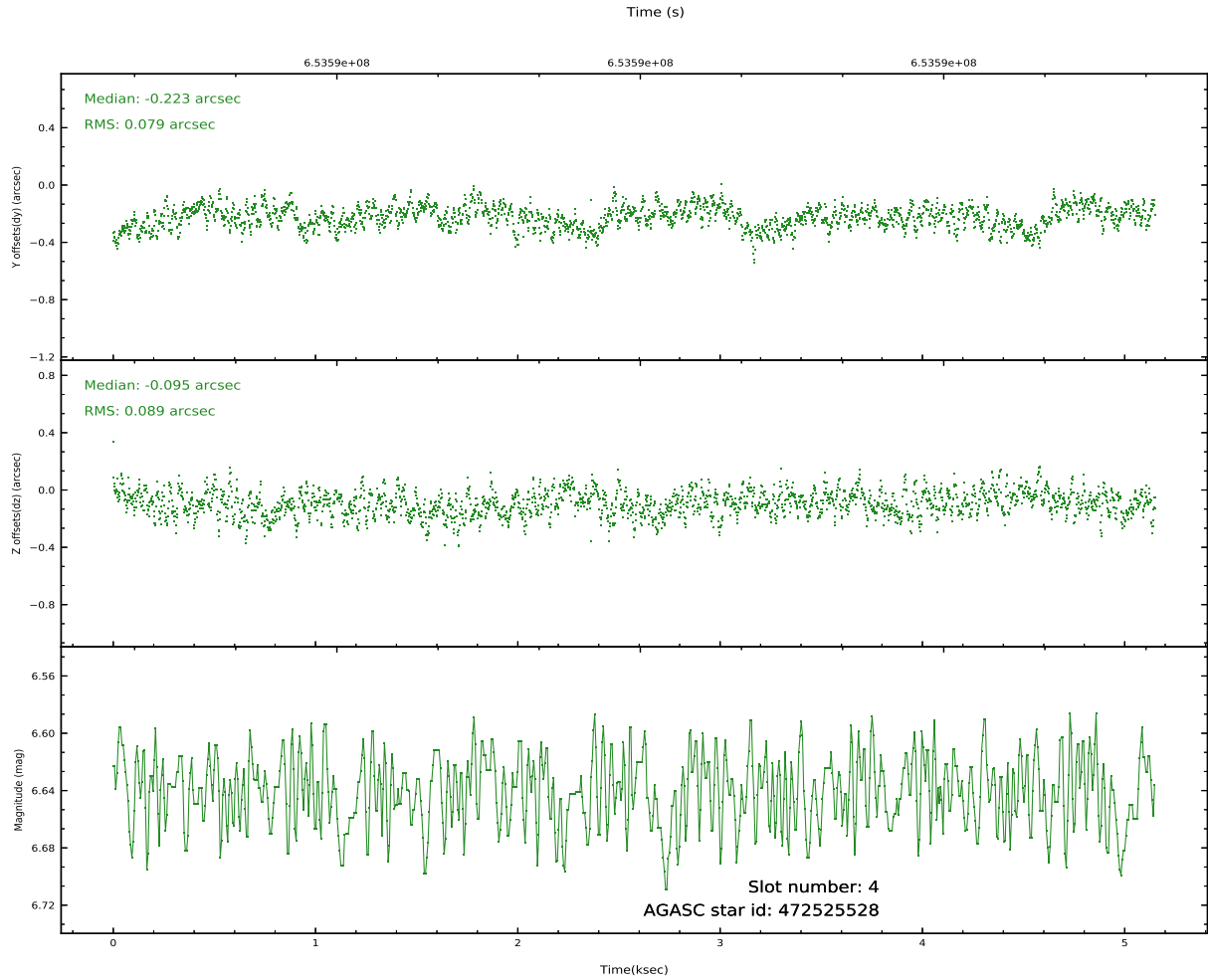
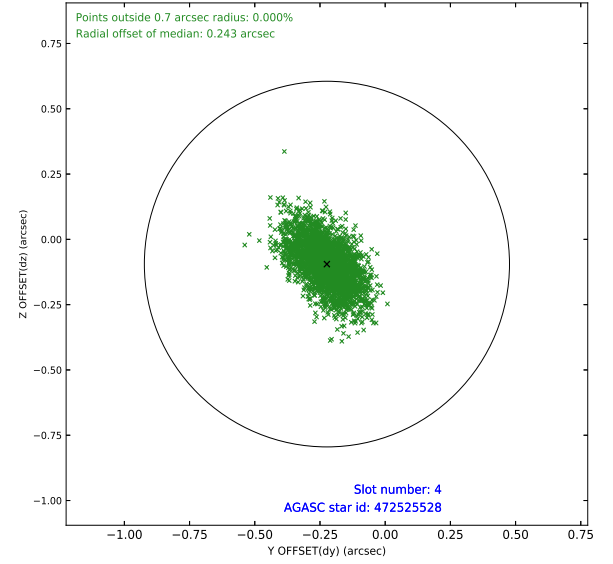
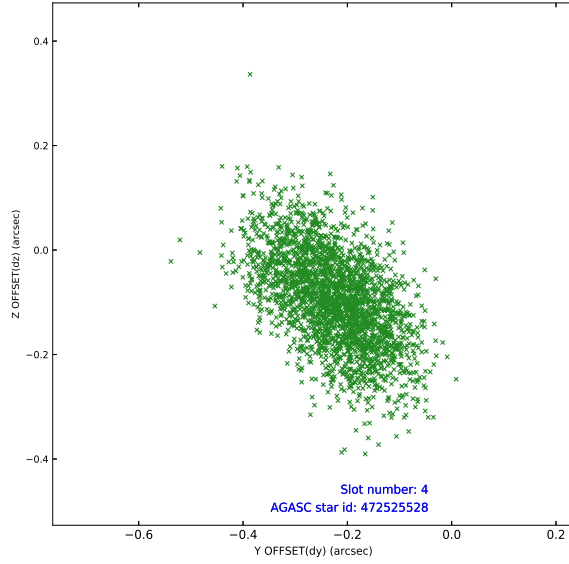
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-2	7.02	1257	1.000	0.210	-0.144	0.015	0.022	0.000000	0.000000	843.49	-1305
1	FID		HRC-I-3	7.08	1256	1.000	-0.208	0.150	0.016	0.023	0.000000	0.000000	-1197.32	1000
2	FID		HRC-I-4	7.01	1256	1.000	0.117	-0.091	0.021	0.031	0.000000	0.000000	1272.66	999
3	GUIDE	used	472523760	8.21	2510	1.000	-0.060	-0.073	0.117	0.203	331.645363	45.403260	1794.55	516
4	GUIDE	used	472525528	6.64	2514	1.000	-0.223	-0.095	0.125	0.210	331.551102	45.248694	2262.40	901
5	GUIDE	used	472665256	8.95	2511	1.000	0.121	0.279	0.126	0.215	332.808125	46.195041	-2097.93	-700
6	GUIDE	used	472533912	9.13	2509	1.000	0.188	0.066	0.164	0.280	331.791136	46.368695	-126.04	-2403
7	GUIDE	used	472655152	9.38	2509	1.000	-0.024	-0.187	0.199	0.326	332.504239	45.862991	-884.04	25

2.4 Star Slots

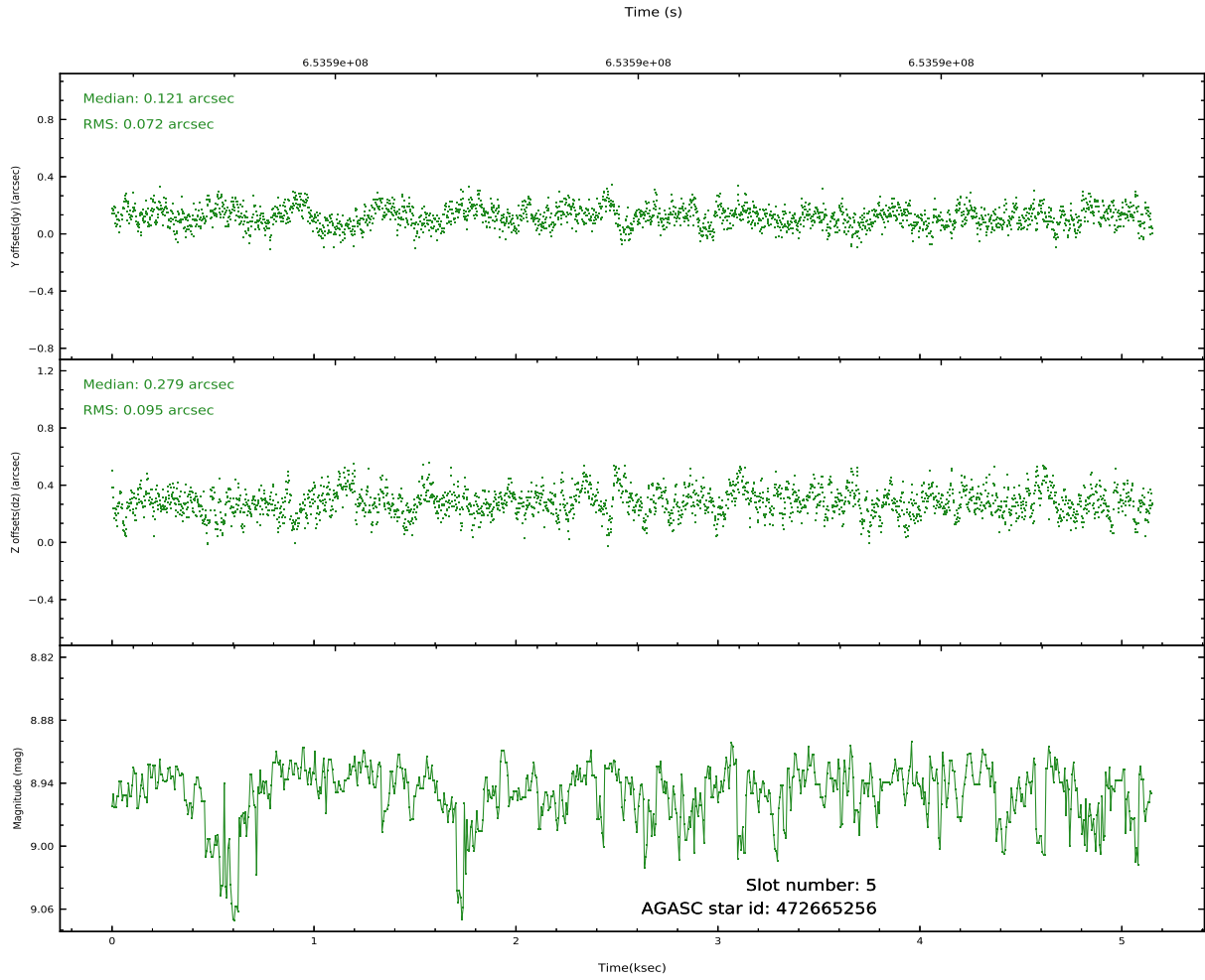
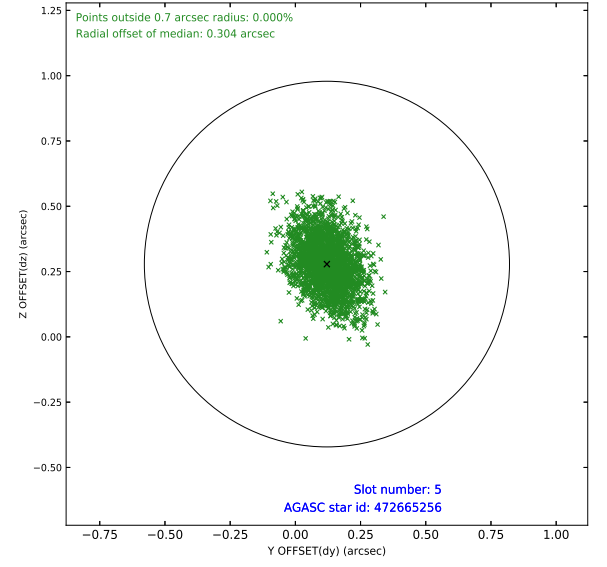
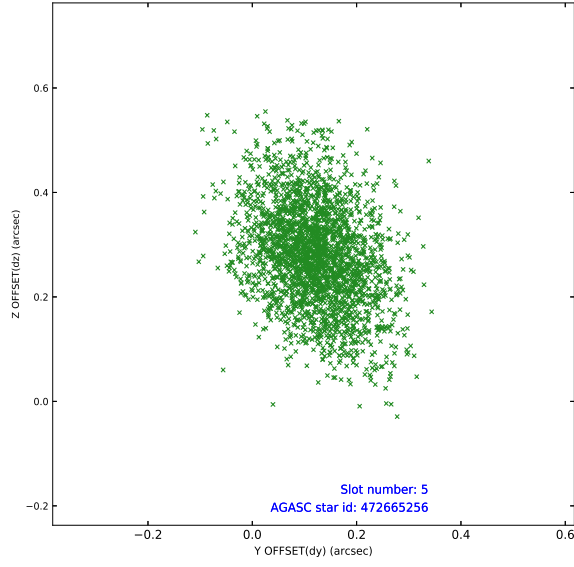
2.4.1 Slot 3



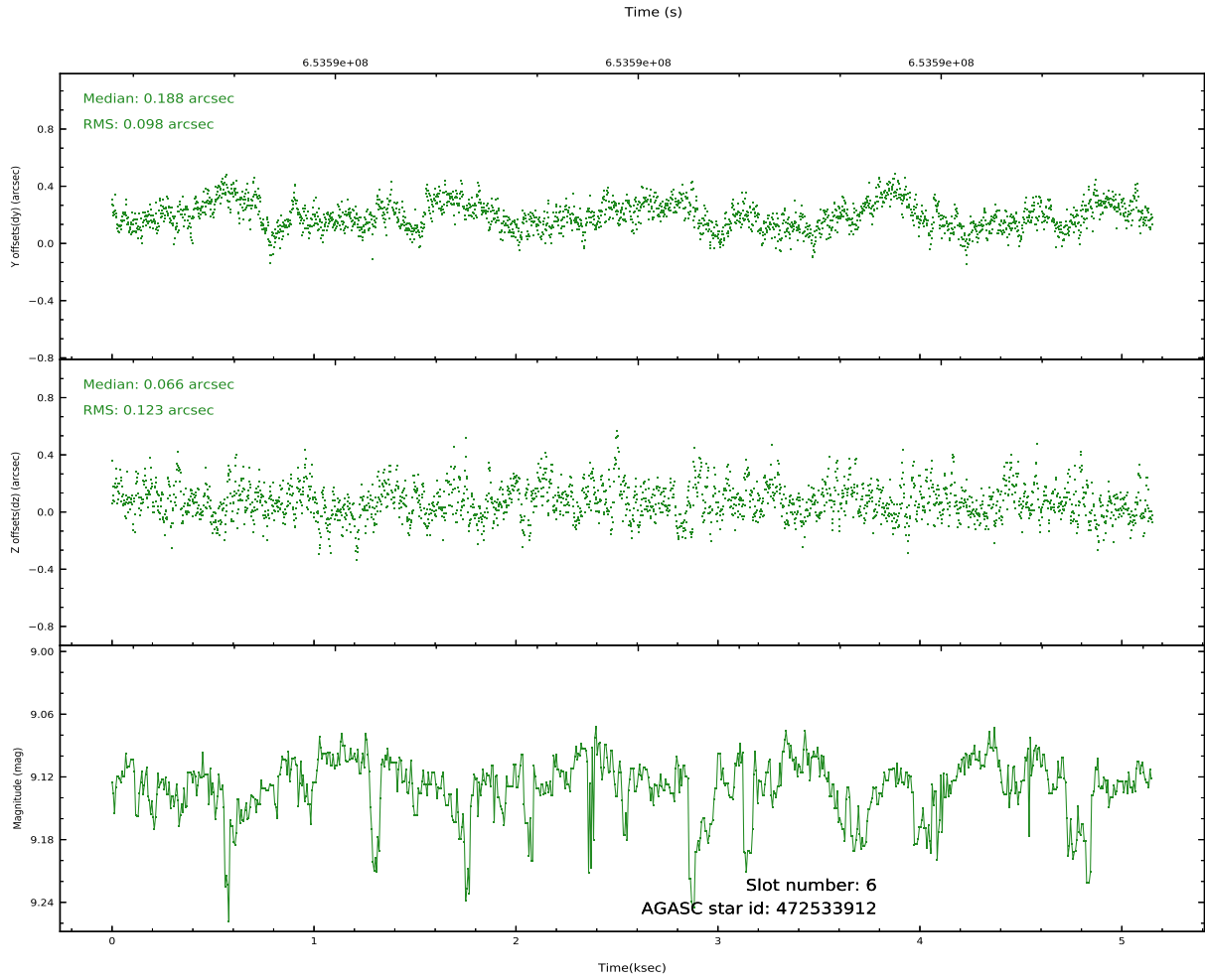
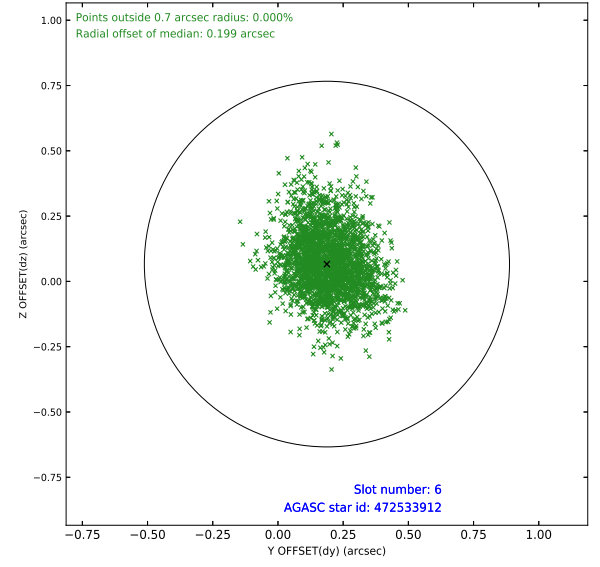
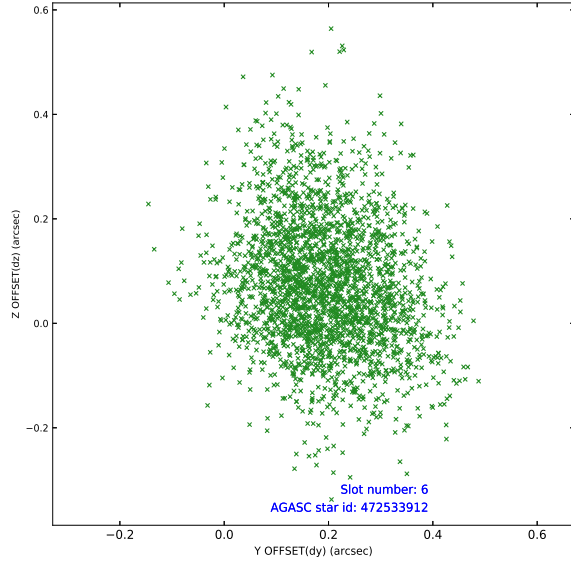
2.4.2 Slot 4



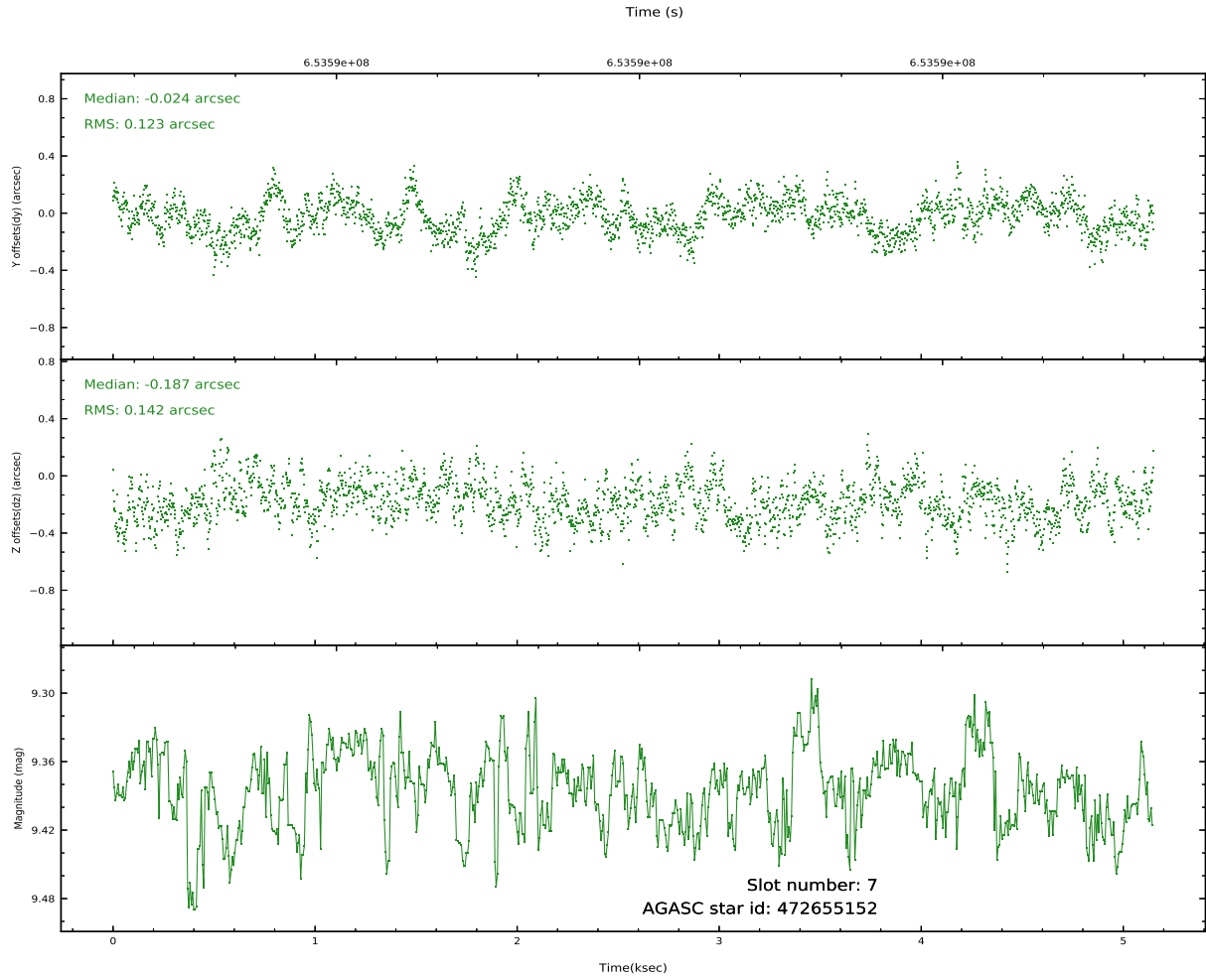
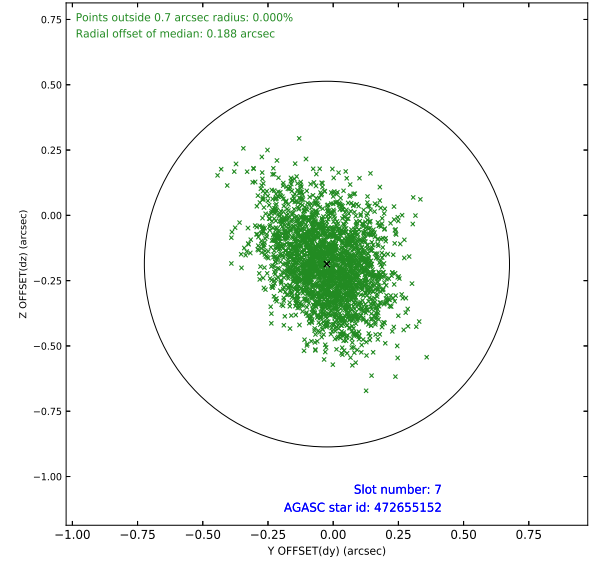
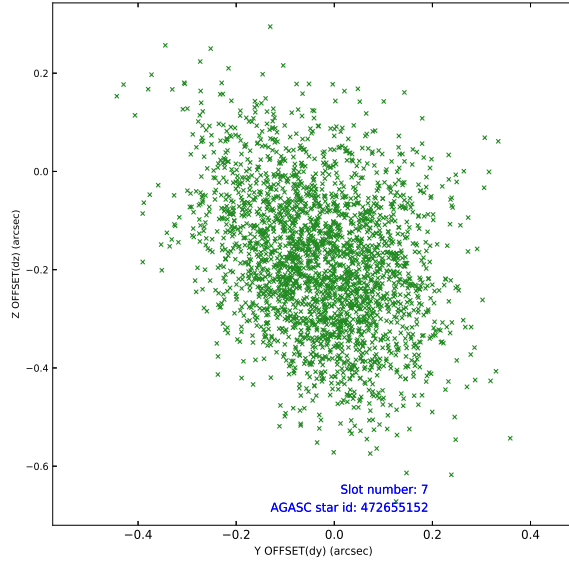
2.4.3 Slot 5



2.4.4 Slot 6

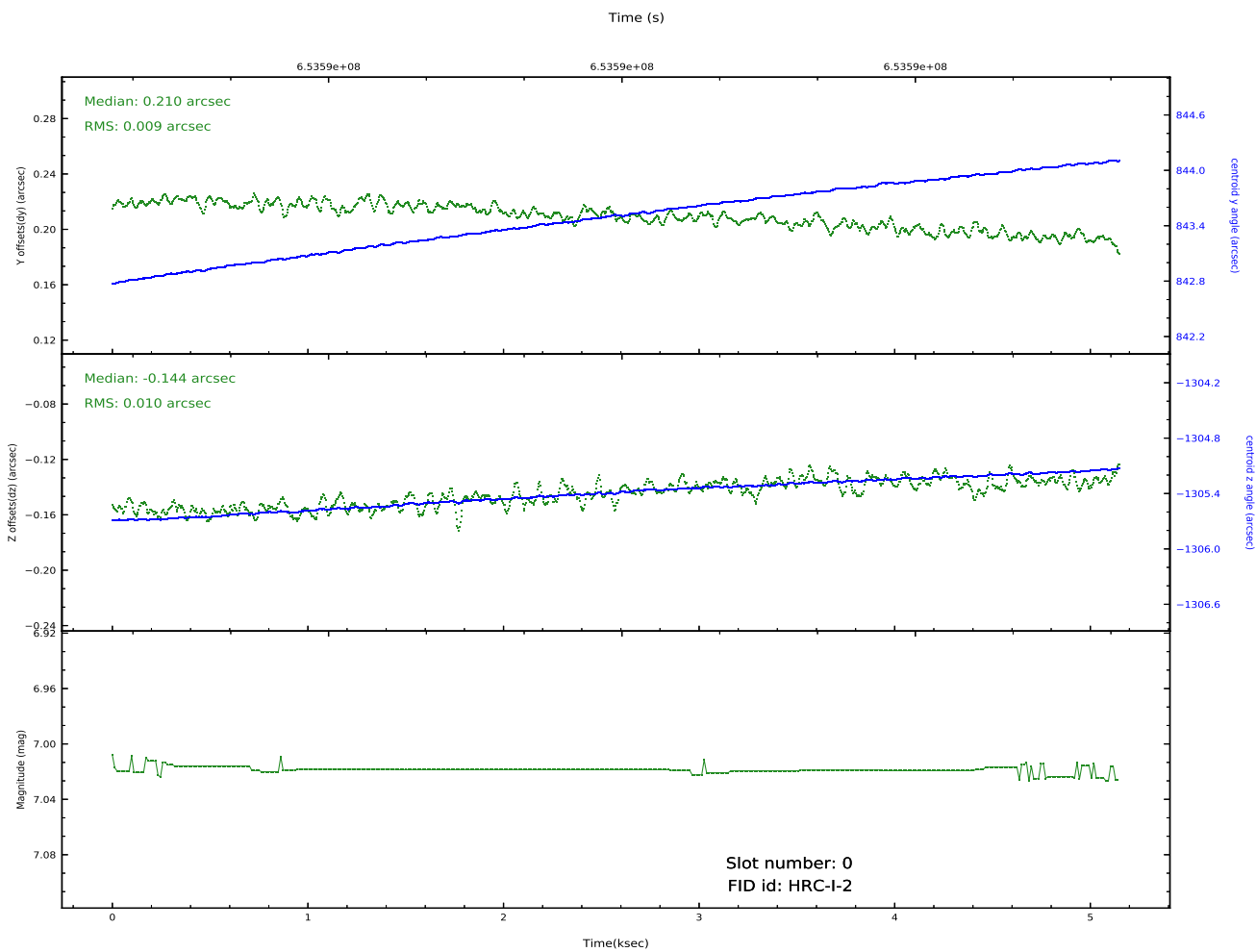
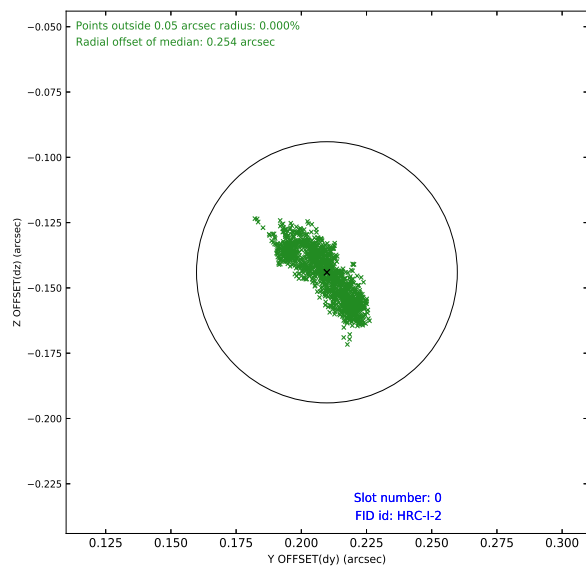
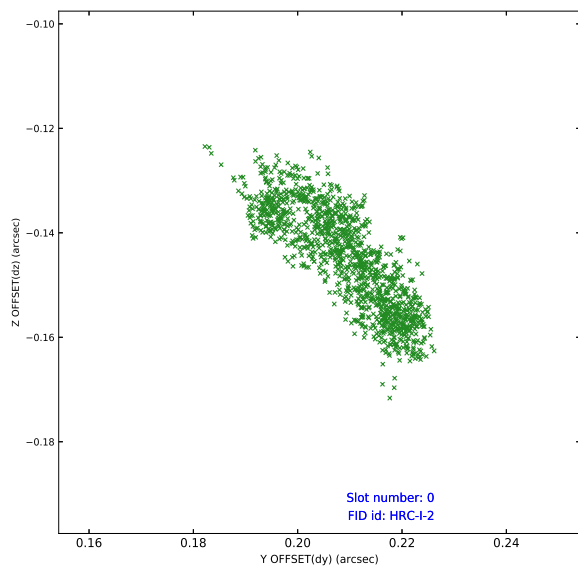


2.4.5 Slot 7

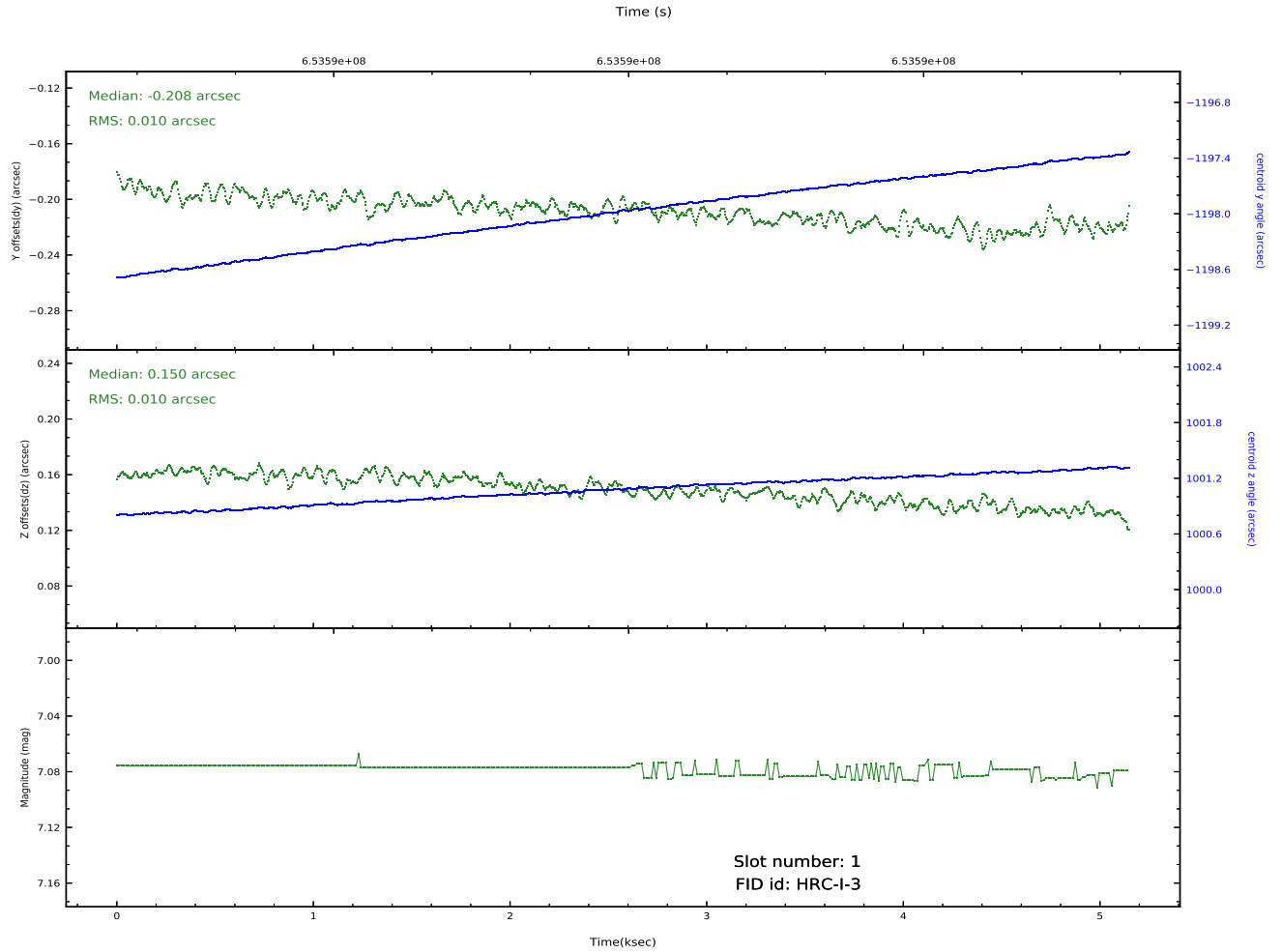
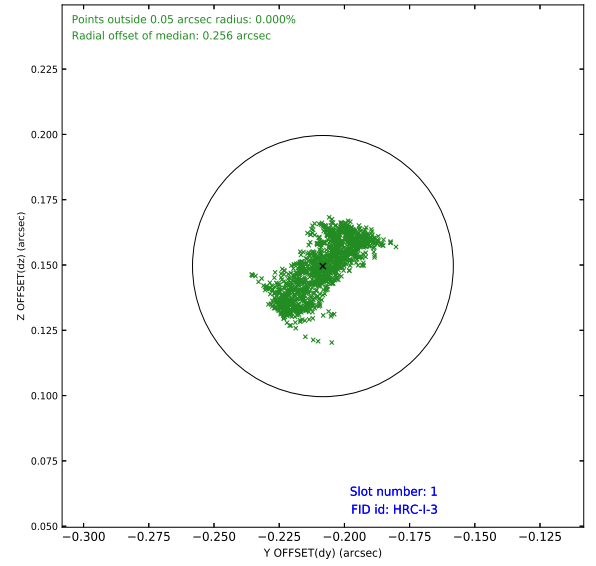
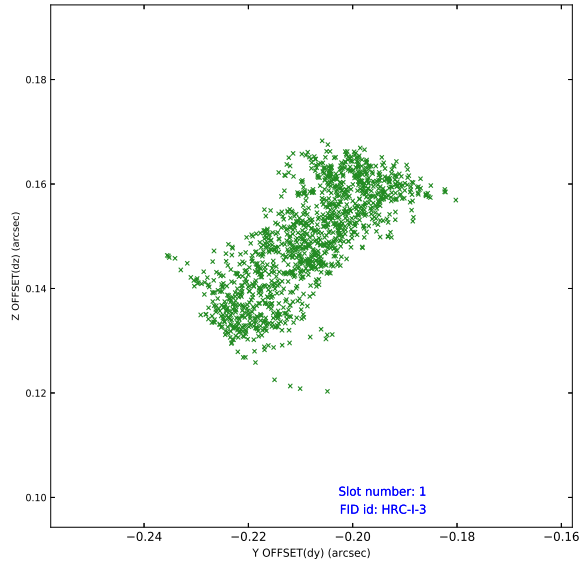


2.5 FID Slots

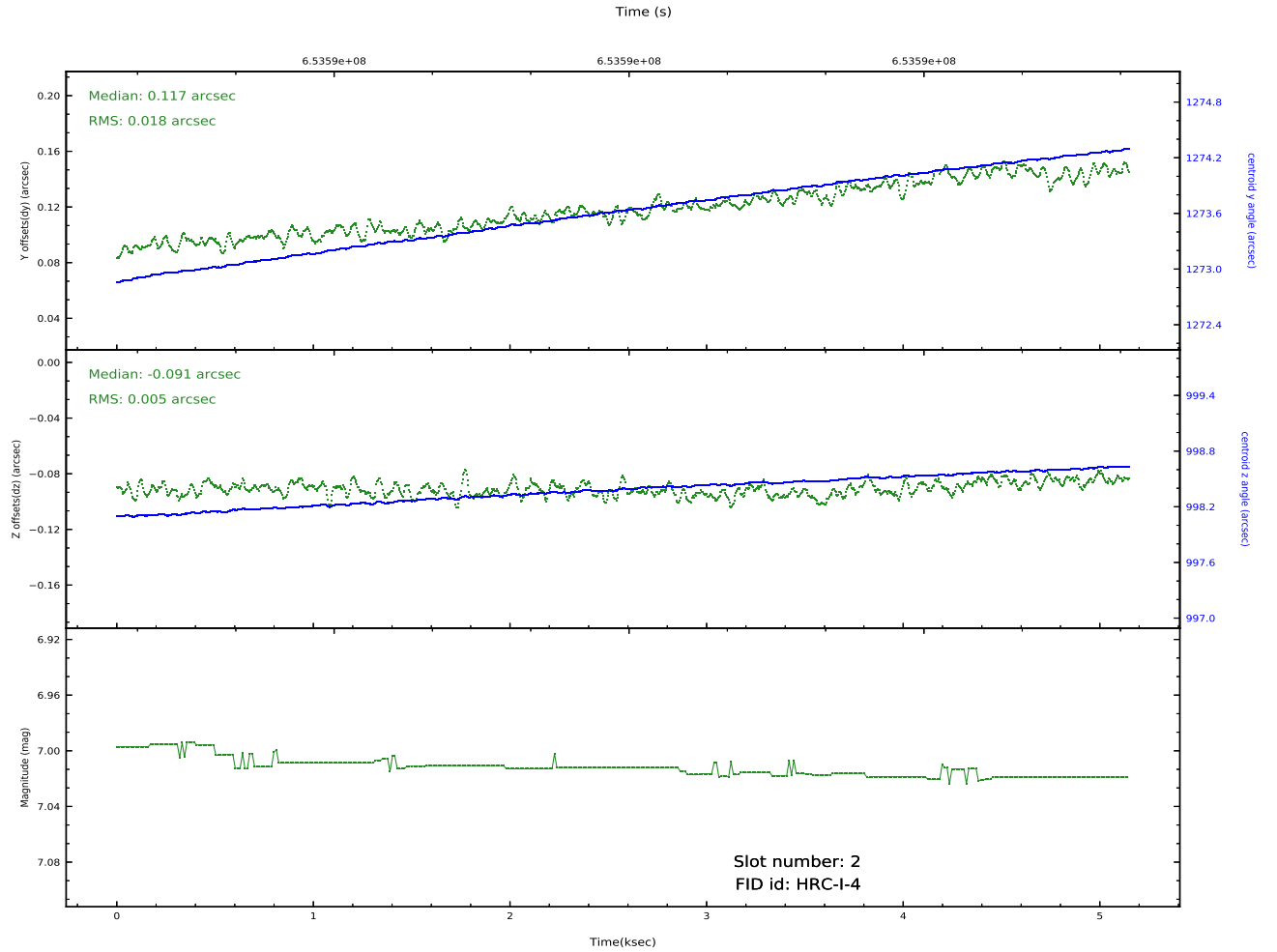
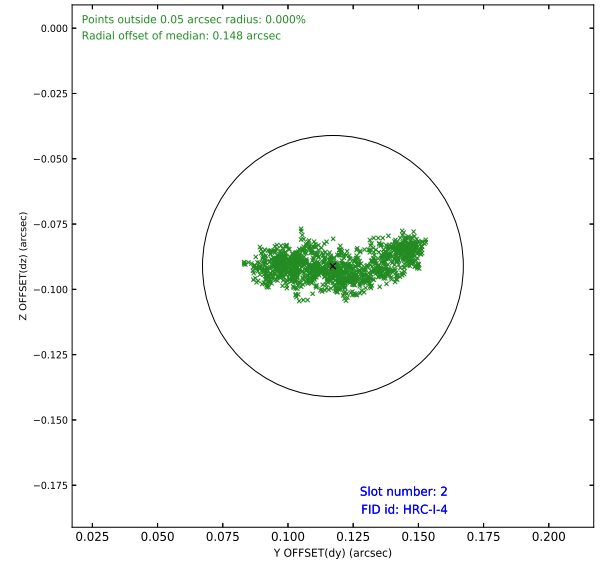
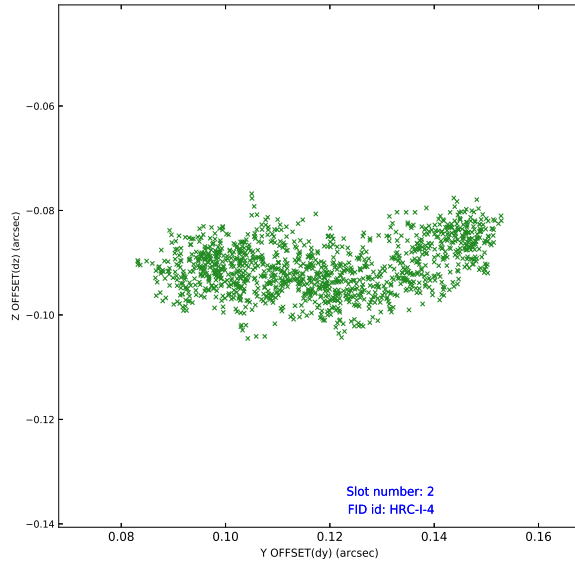
2.5.1 Slot 0



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)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1508815560341

A.2 Comments

Window constraint met.