

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20692 - L2 Version 2
Chandra X-Ray Center

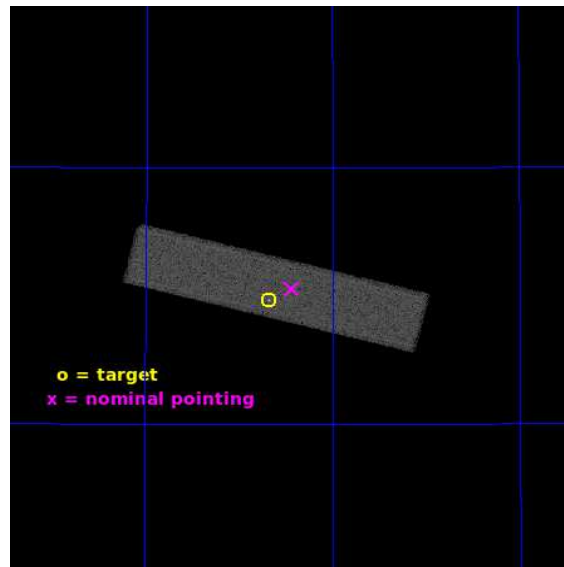
L2 Processing Date : Oct 27 2020

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

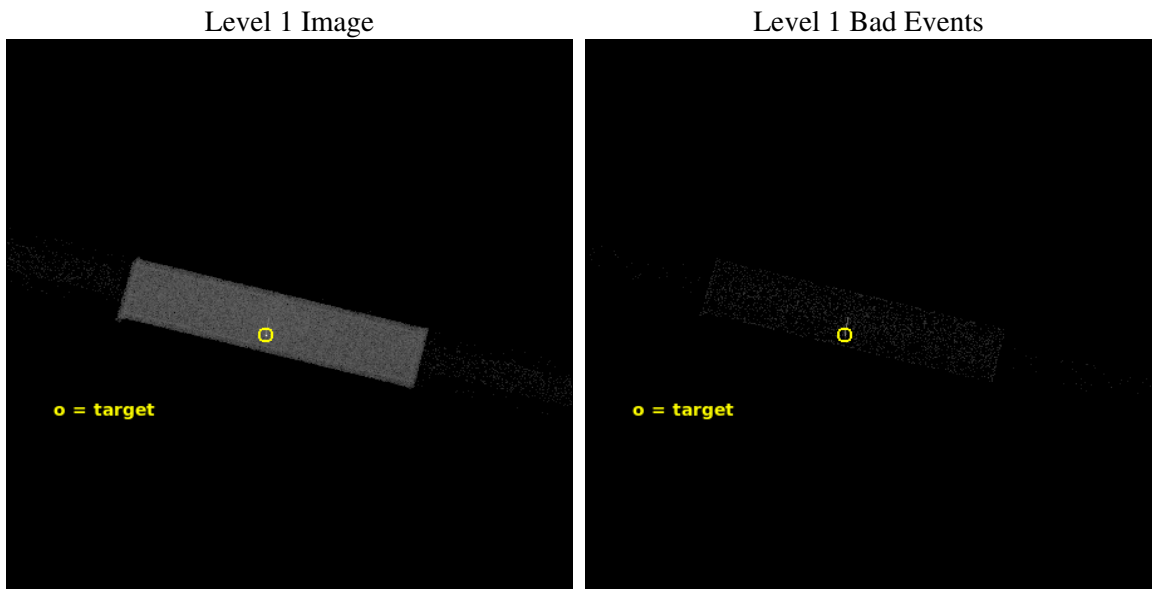
seq_num	291403	Sequence number
obs_id	20692	Observation id
title	AO-19 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.10828463493	Nominal RA [deg]
dec_nom	45.764523562849	Nominal Dec [deg]
roll_nom	194.12183123763	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1169.7813193798	[s]
livetime	1159.8340018551	Ontime multiplied by DTCOR
l2events	76362	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	1169.7813193798	[s]
caldsver	4.9.3	 	l1events	116247	Number of level 1 events
date	2020-10-27T16:43:27	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

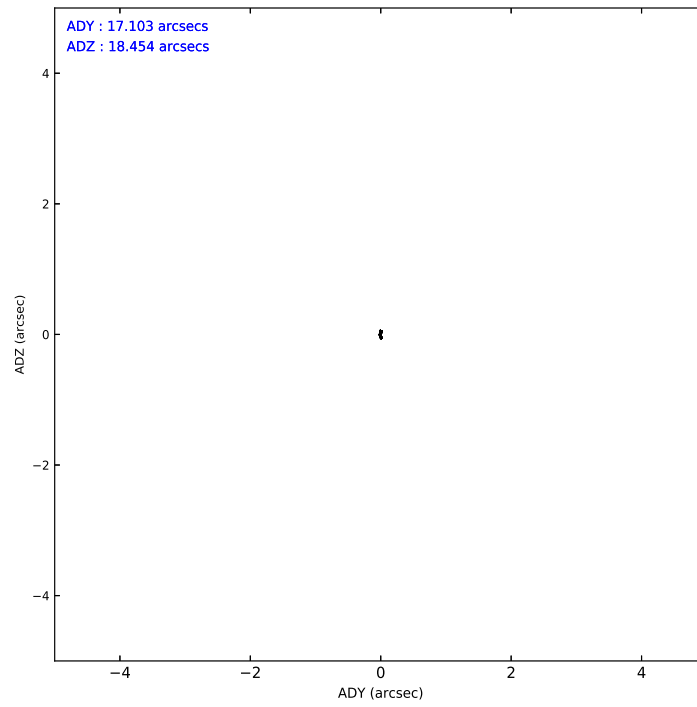
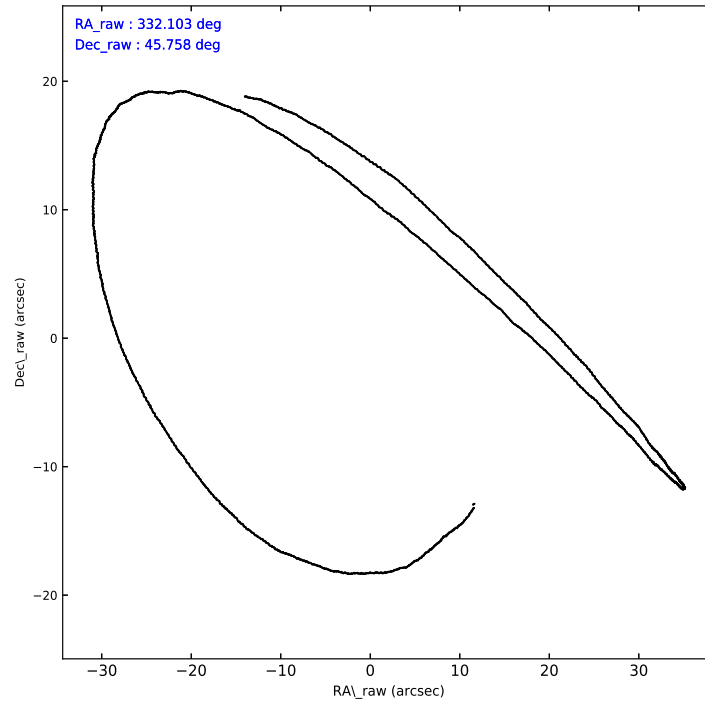
	segment 1	segment 2	segment 3
level 1 events	1111	114076	1060
rejected events	1111	24710	1060
rejected %	100%	21%	100%

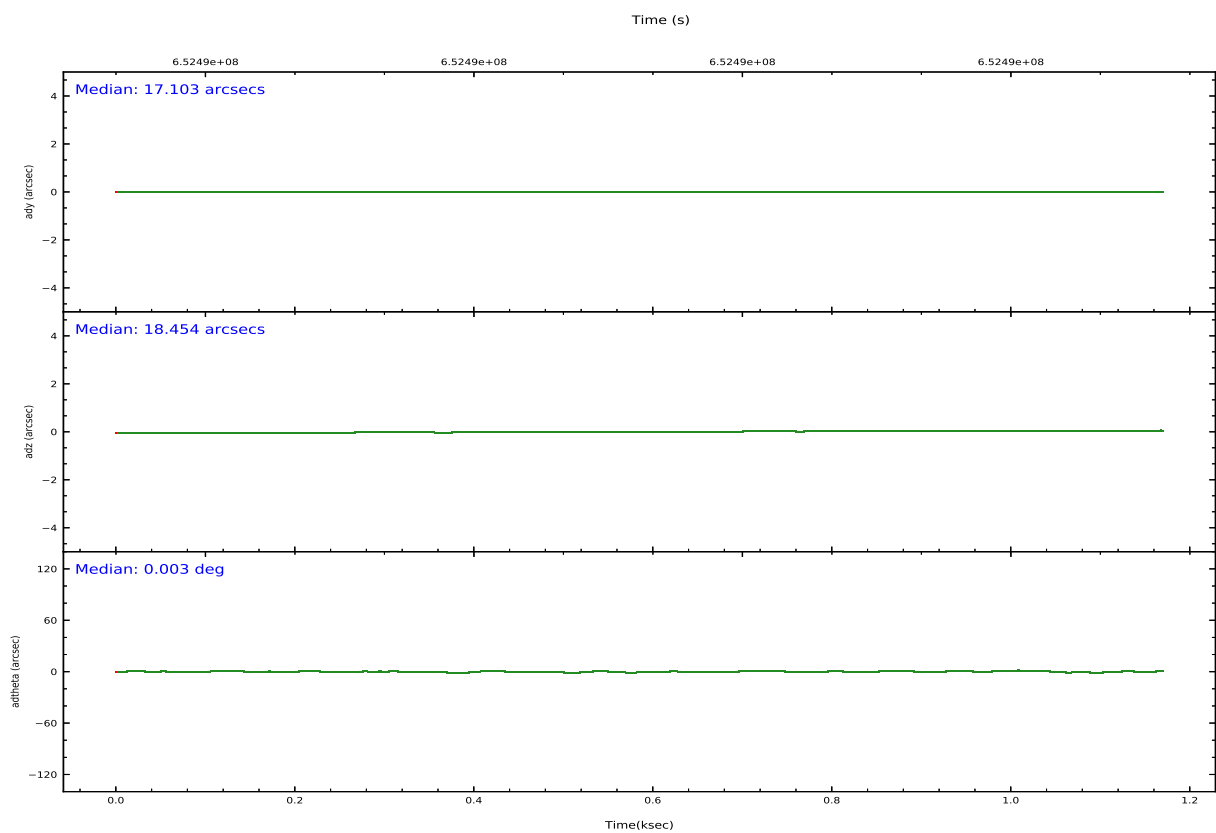
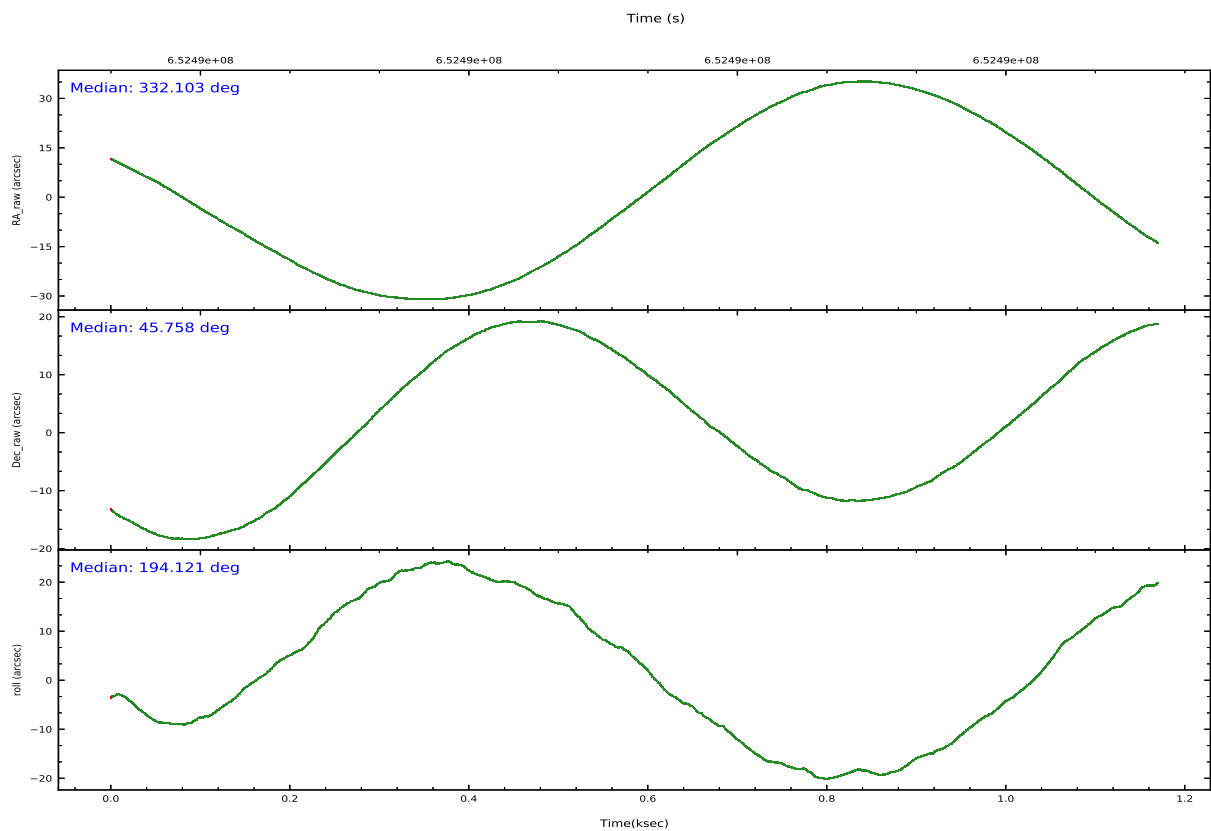
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.131331	332.10828463493
[deg] Pointing Dec	45.779816	45.764523562849
[deg] Pointing Roll	194.045434	194.12183123763
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	652489971.184000	652489595.21278
Observation start date	2018-09-04T23:11:42	2018-09-04T23:06:35
[s] Observation end time (MET)	652490971.184000	652491105.03787
Observation end date	2018-09-04T23:28:22	2018-09-04T23:31:45

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

2.3 Aspect



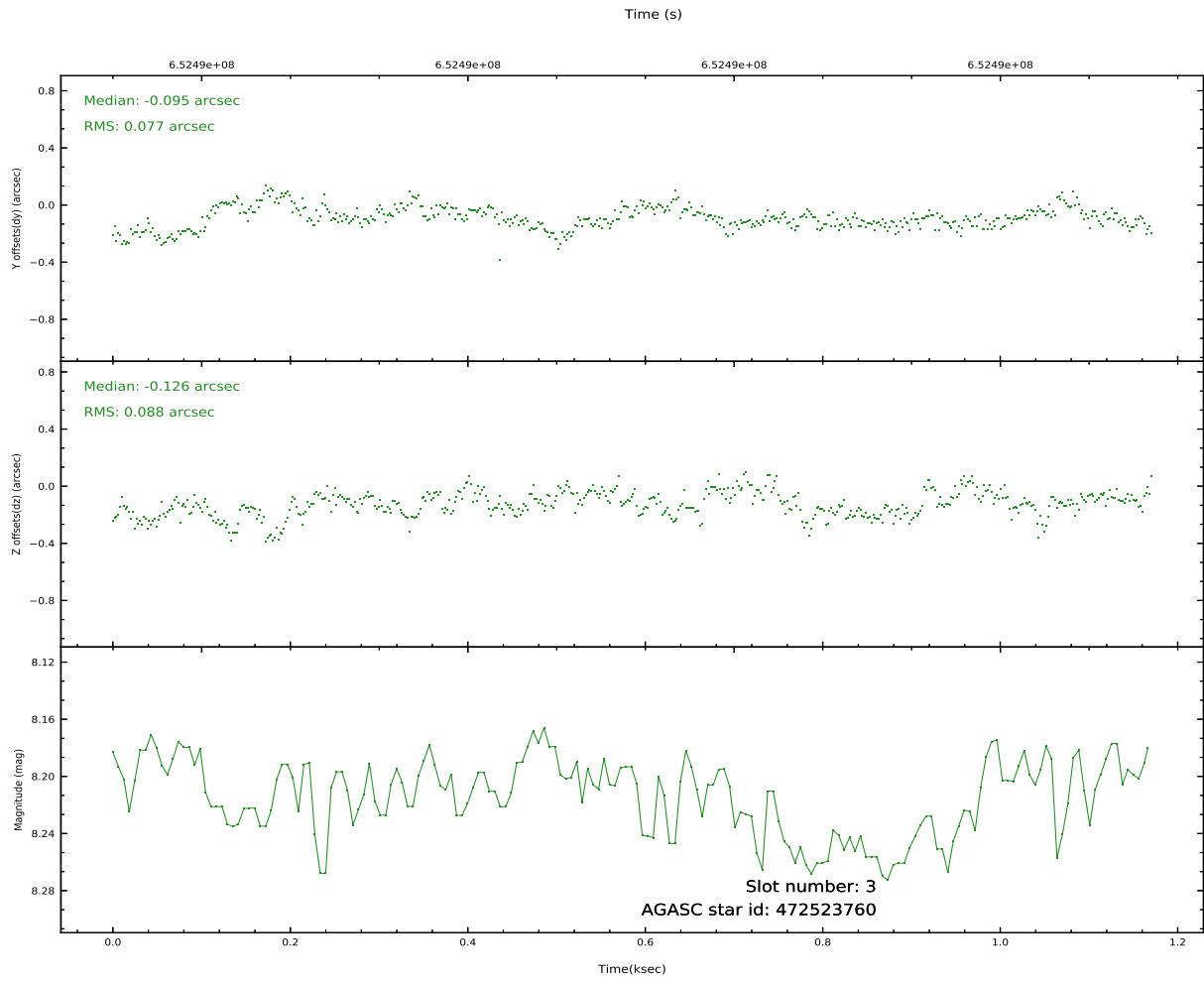
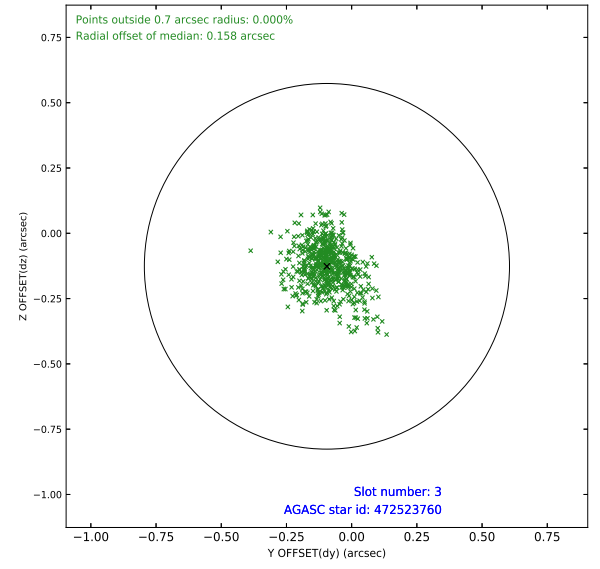
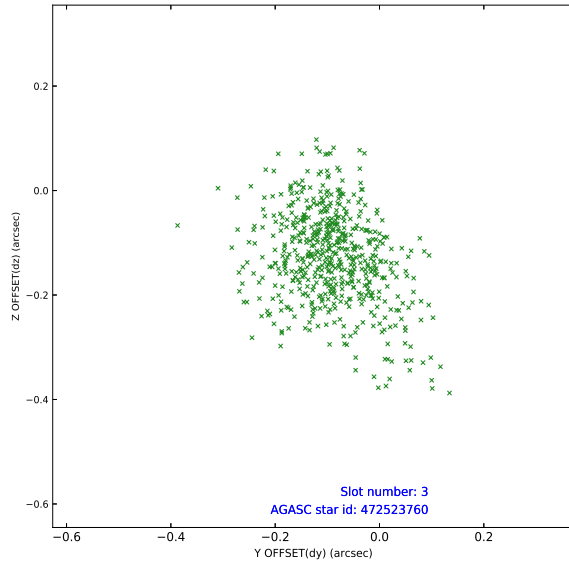


Slot Statistics

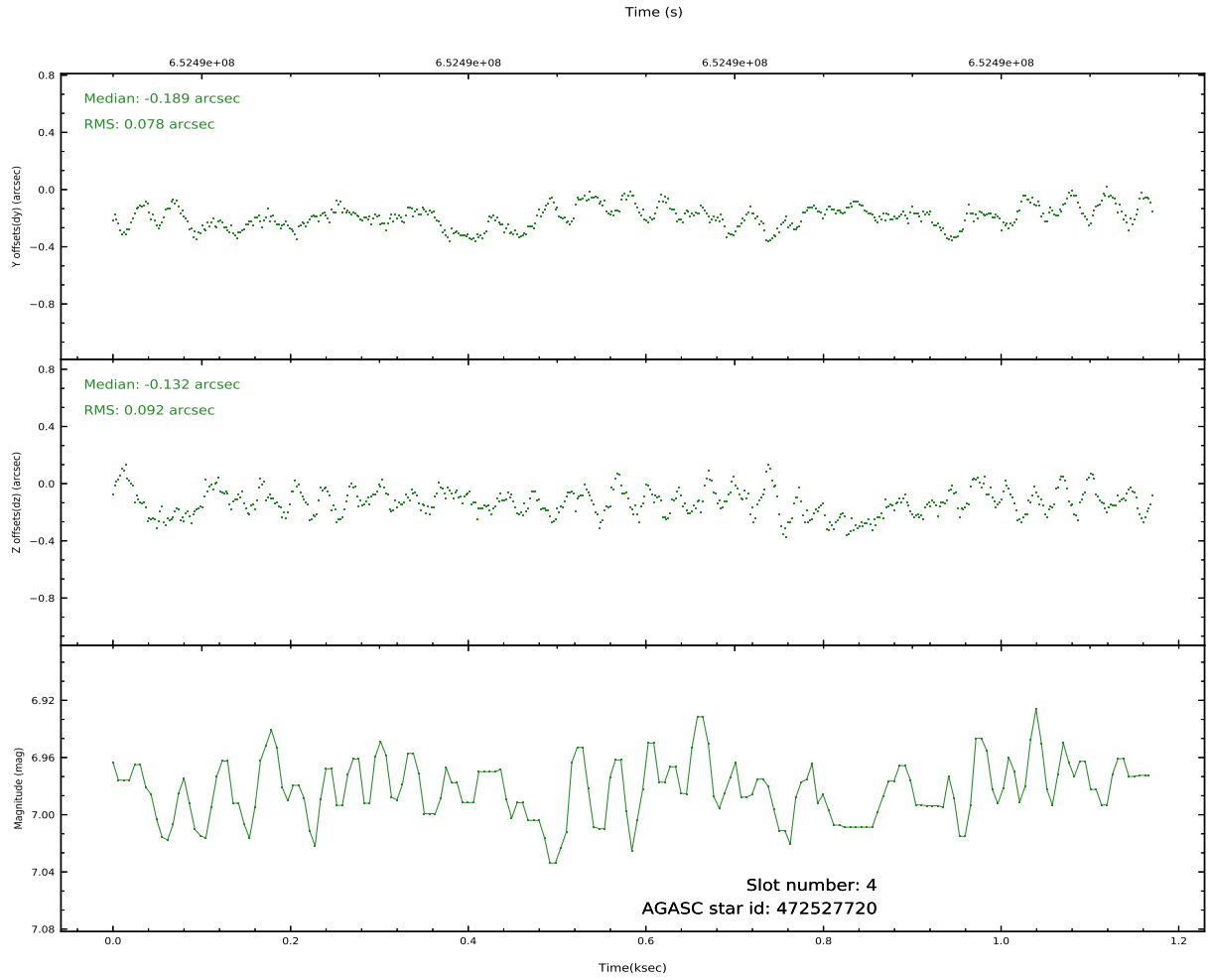
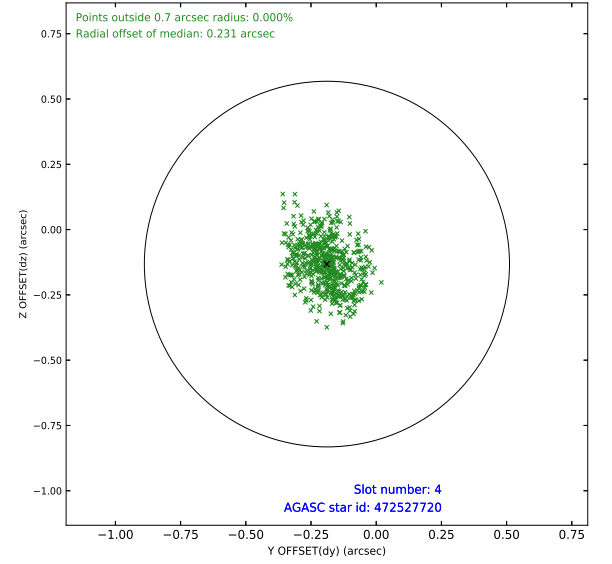
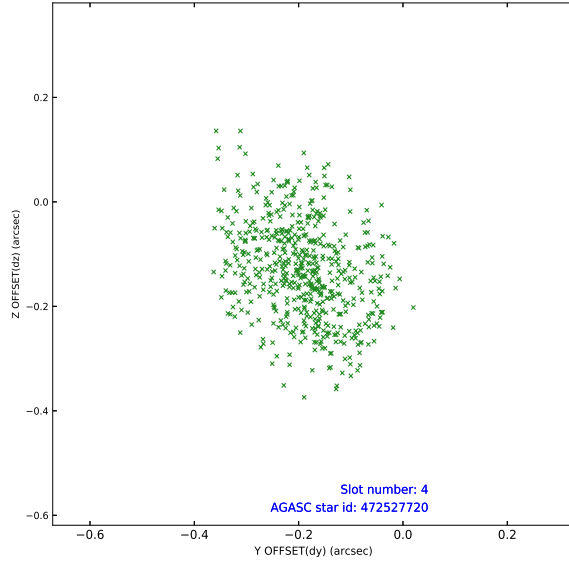
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.04	286	1.000	0.093	-0.211	0.007	0.011	0.000000	0.000000	-1171.59	-467
1	FID		HRC-S-2	7.00	286	1.000	0.293	-0.154	0.005	0.009	0.000000	0.000000	1224.17	-461
2	FID		HRC-S-3	7.02	286	1.000	0.003	0.063	0.006	0.010	0.000000	0.000000	-1170.00	560
3	GUIDE	used	472523760	8.21	572	1.000	-0.095	-0.126	0.119	0.210	331.645363	45.403260	1520.02	1011
4	GUIDE	used	472527720	6.98	572	1.000	-0.189	-0.132	0.135	0.196	331.460205	45.112509	2237.74	1909
5	GUIDE	used	472535576	7.83	571	1.000	-0.028	0.068	0.102	0.188	331.438373	46.291802	1227.63	-2212
6	GUIDE	used	472533912	9.12	572	1.000	0.032	-0.015	0.176	0.278	331.791136	46.368695	307.69	-2269
7	GUIDE	used	472665256	8.95	571	1.000	0.272	0.190	0.143	0.227	332.808125	46.195041	-1999.34	-1053

2.4 Star Slots

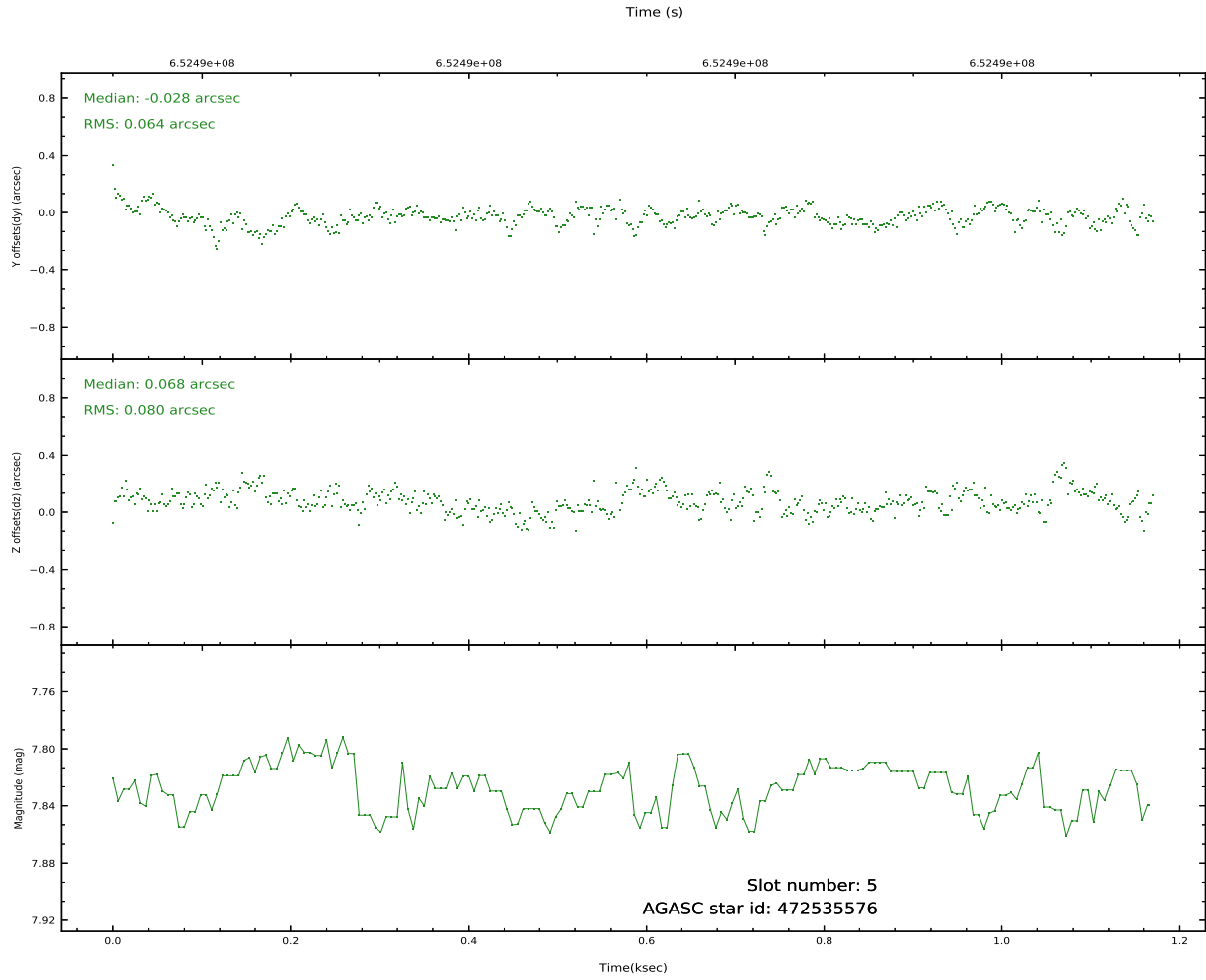
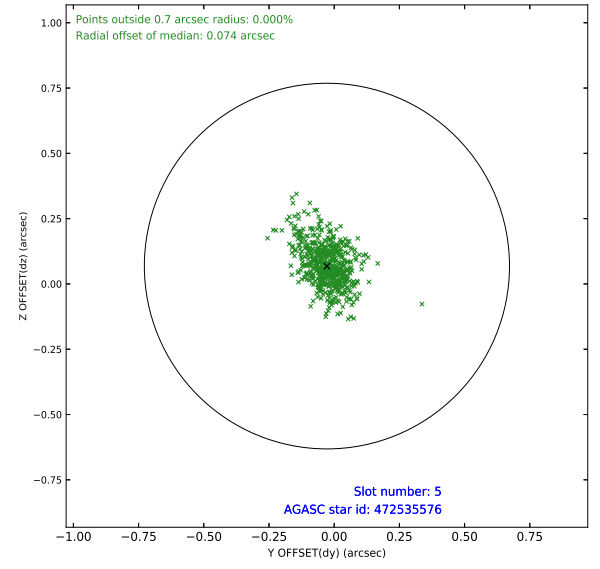
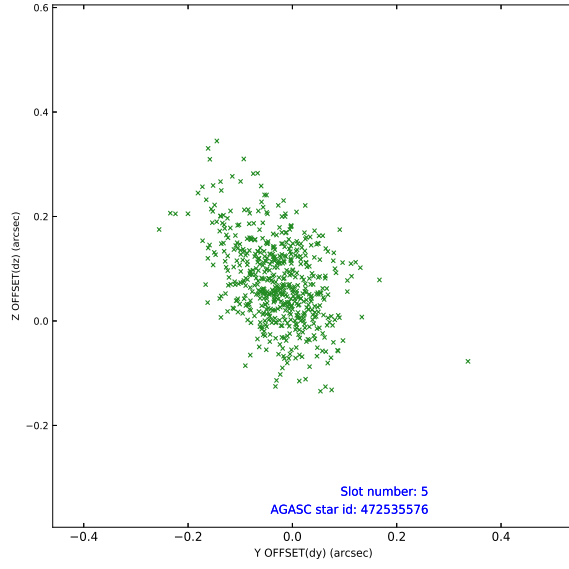
2.4.1 Slot 3



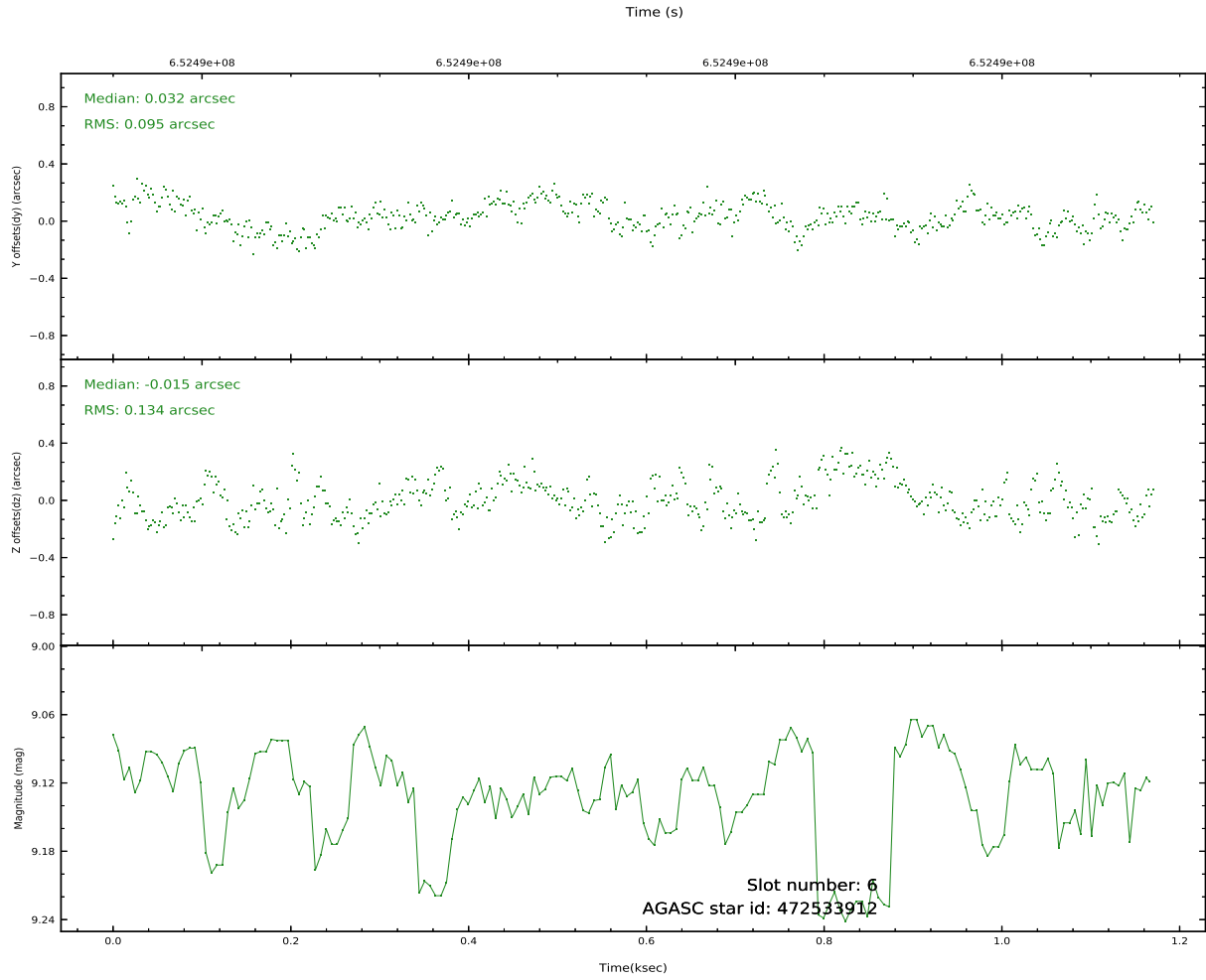
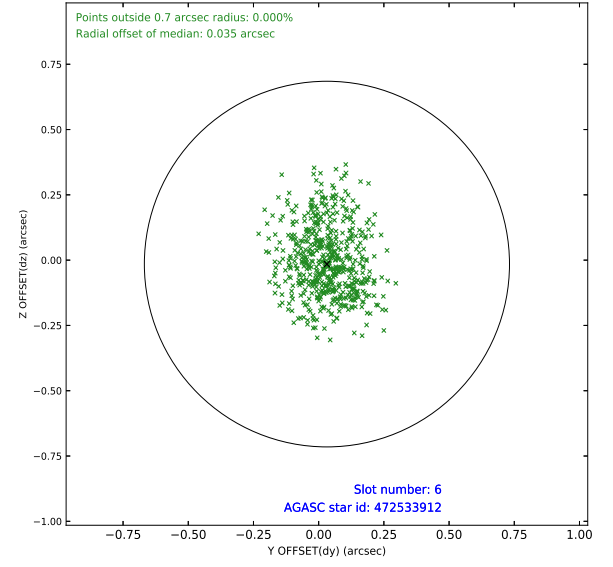
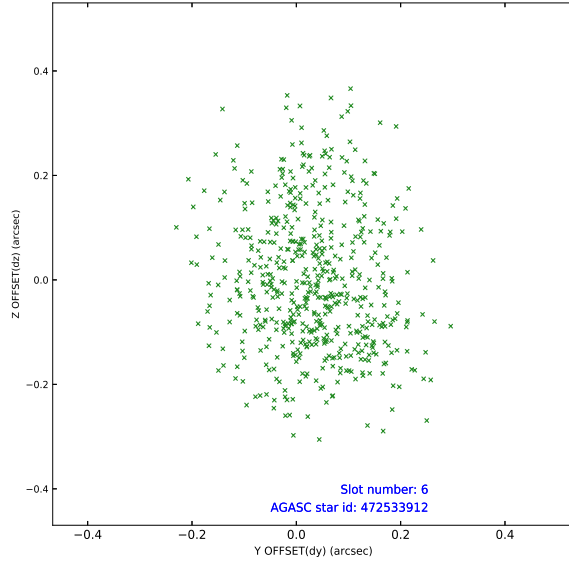
2.4.2 Slot 4



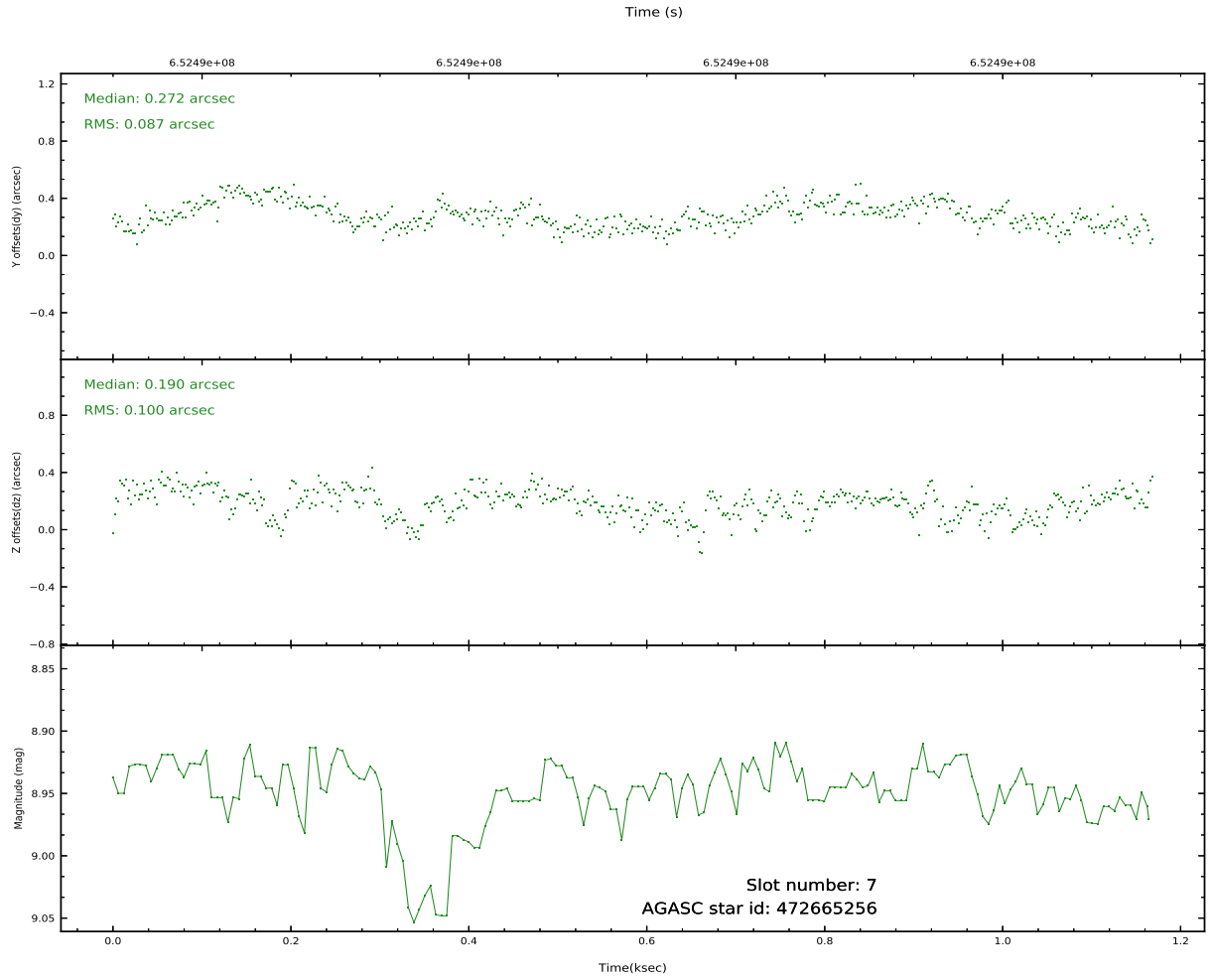
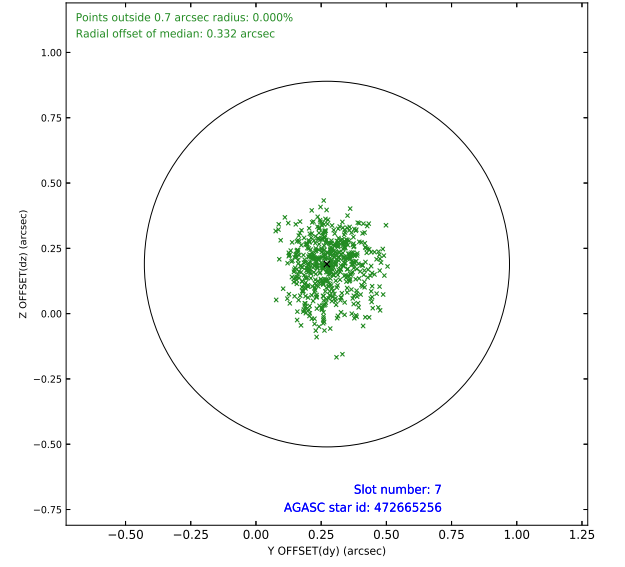
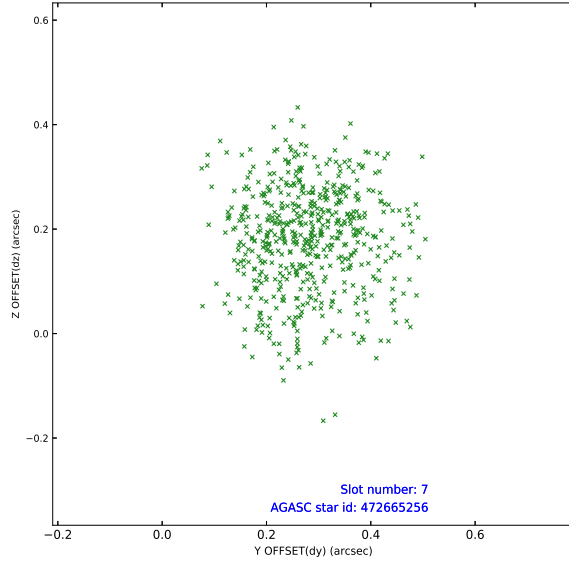
2.4.3 Slot 5



2.4.4 Slot 6

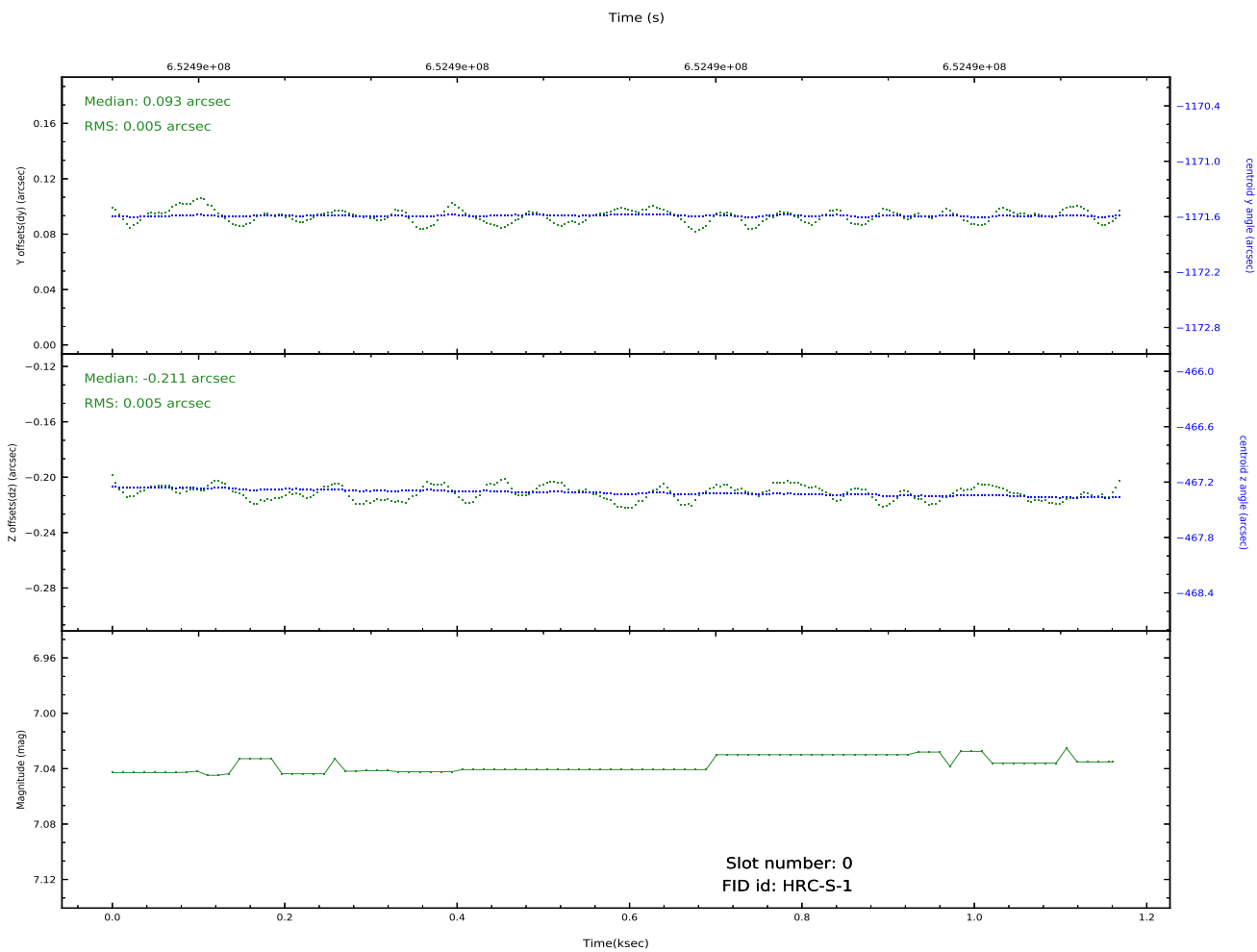
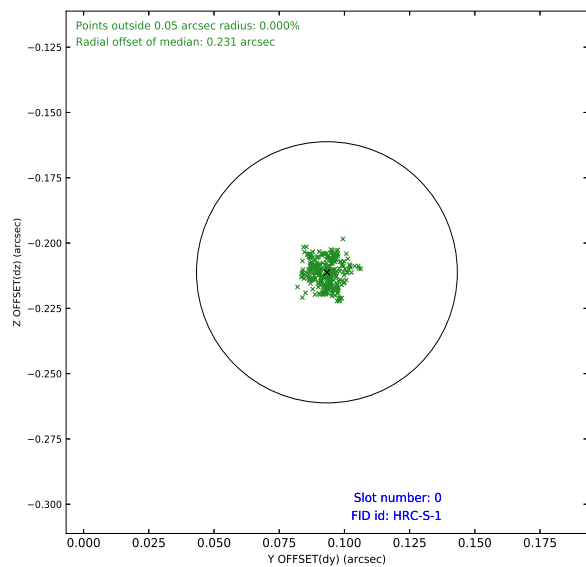
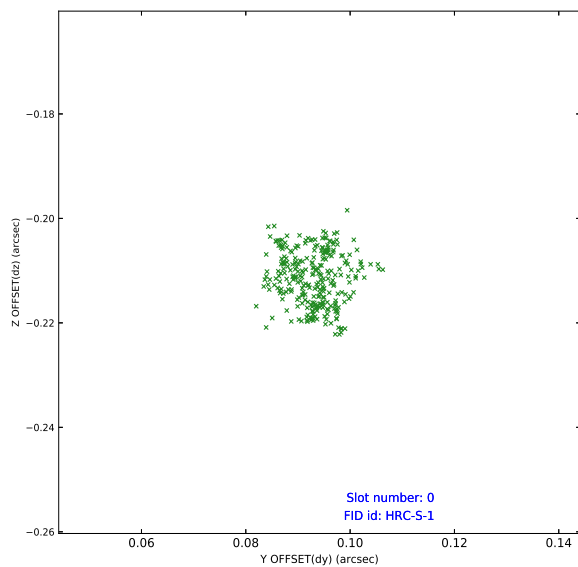


2.4.5 Slot 7

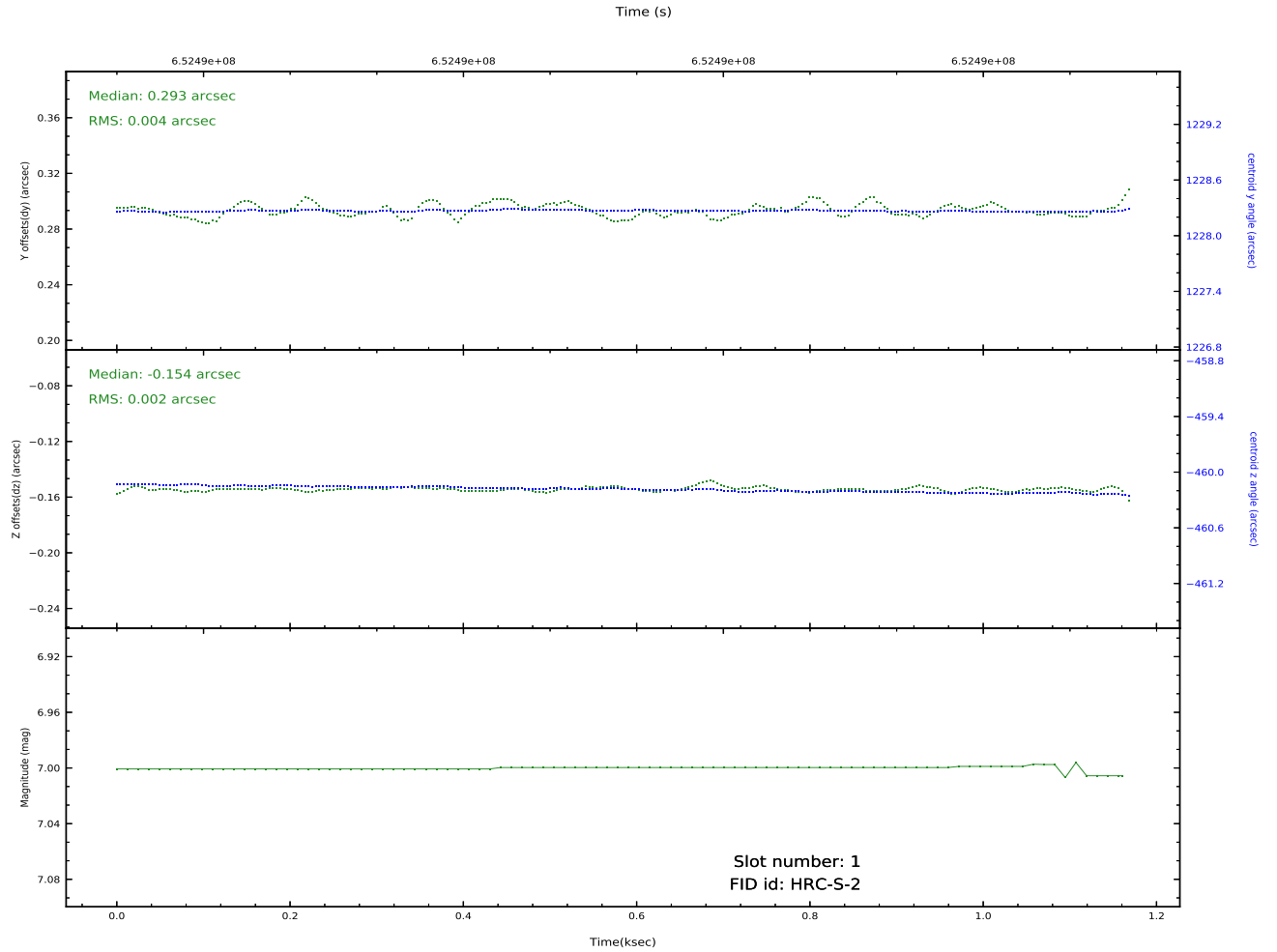
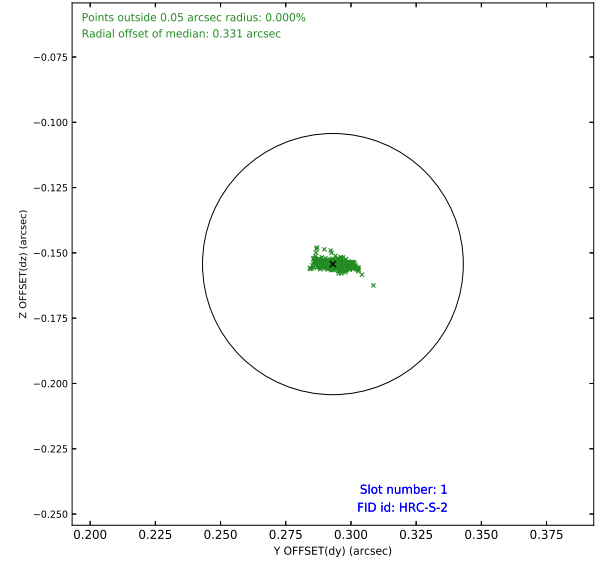
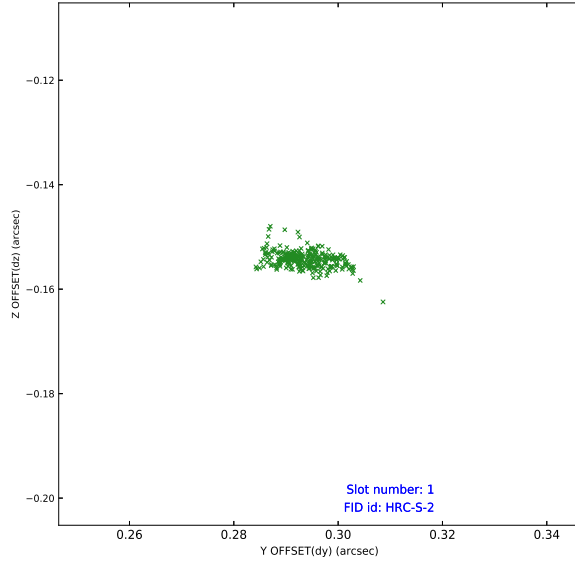


2.5 FID Slots

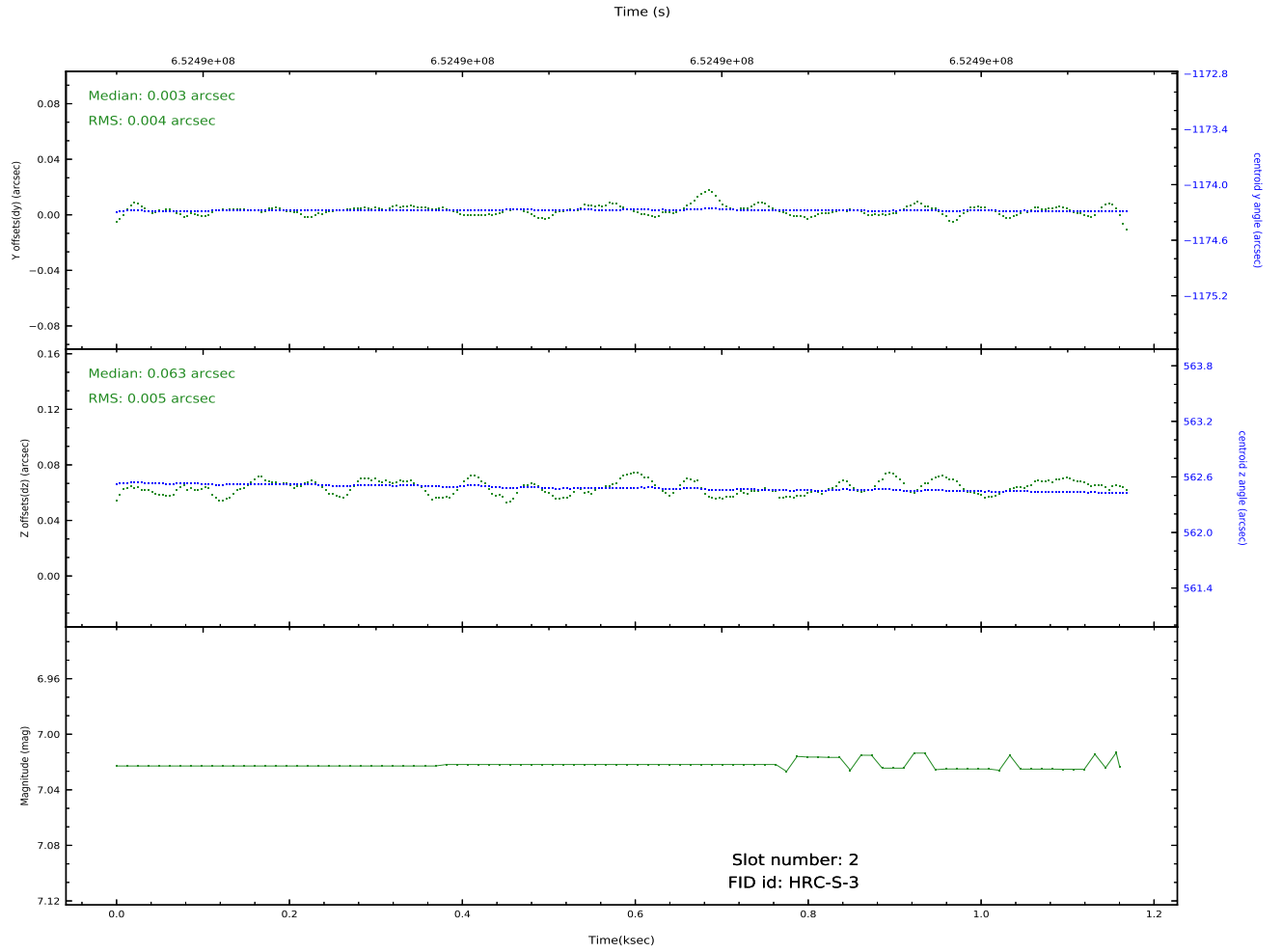
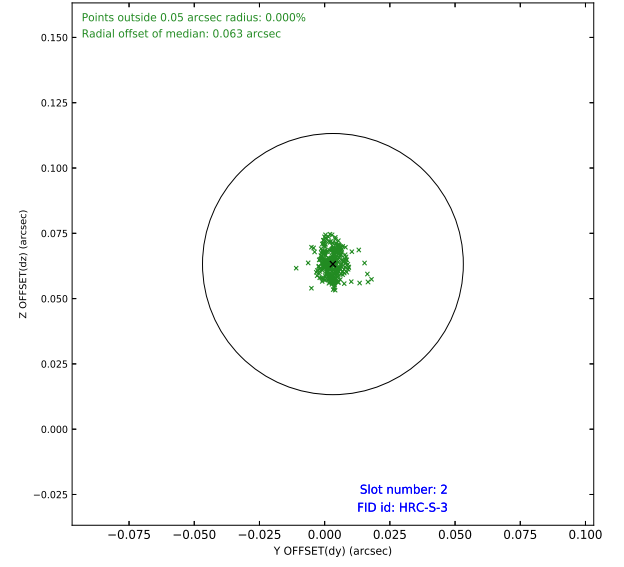
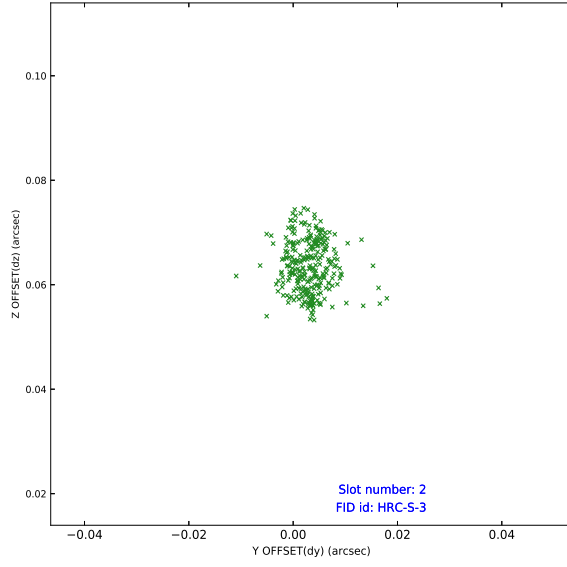
2.5.1 Slot 0



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	1.1697813196182

A.2 Comments