

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5108 - L2 Version 4
Chandra X-Ray Center

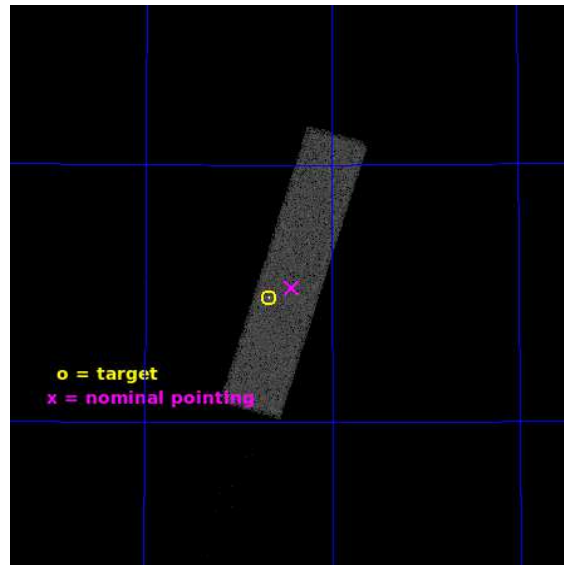
L2 Processing Date : Oct 5 2020

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

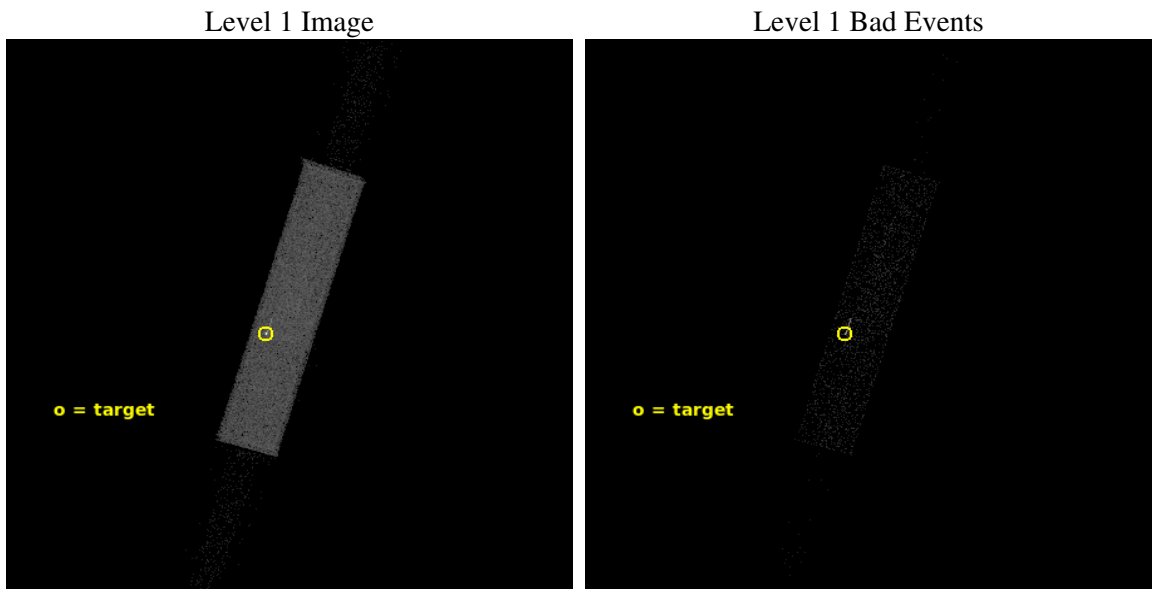
seq_num	290381	Sequence number
obs_id	5108	Observation id
title	AO5B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.10704468367	Nominal RA [deg]
dec_nom	45.761096324274	Nominal Dec [deg]
roll_nom	286.96430411155	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1061.1312977374	[s]
livetime	1053.9154534978	Ontime multiplied by DTCOR
l2events	49431	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	900.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	1061.1312977374	[s]
caldsver	4.9.2	 	l1events	82725	Number of level 1 events
date	2020-10-05T08:01:03	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

Level 1 Events

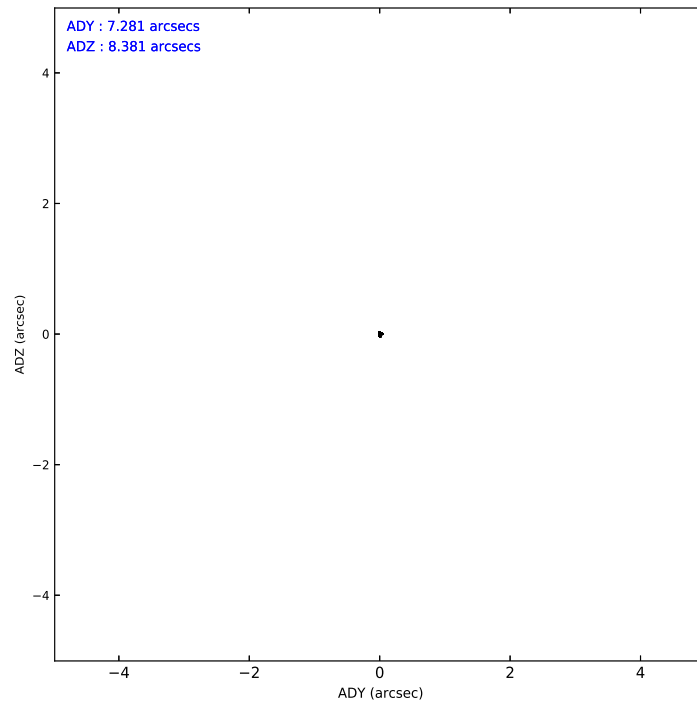
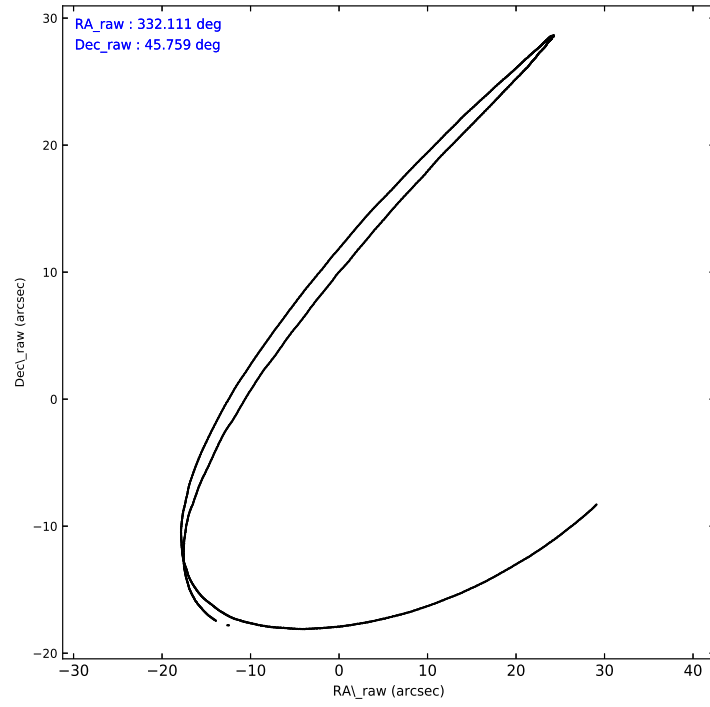
	segment 1	segment 2	segment 3
level 1 events	715	81291	719
rejected events	715	19633	701
rejected %	100%	24%	97%

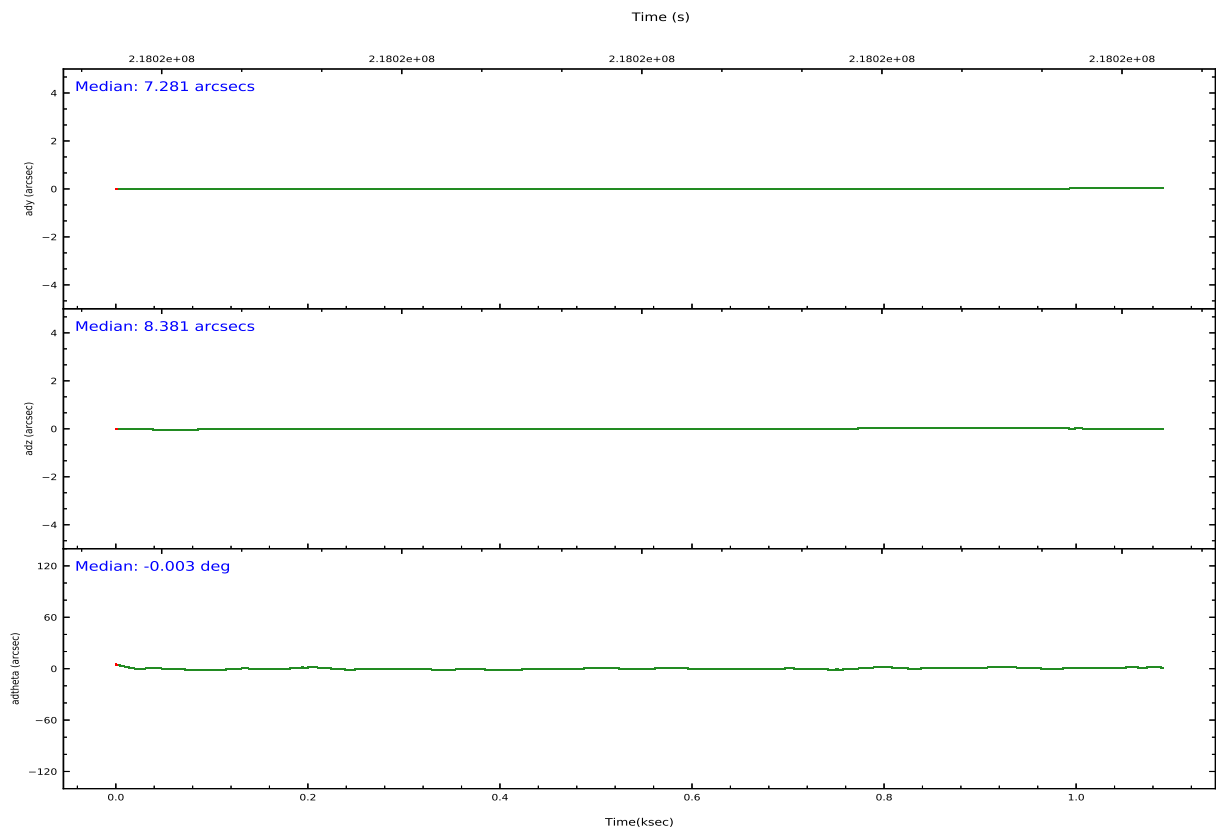
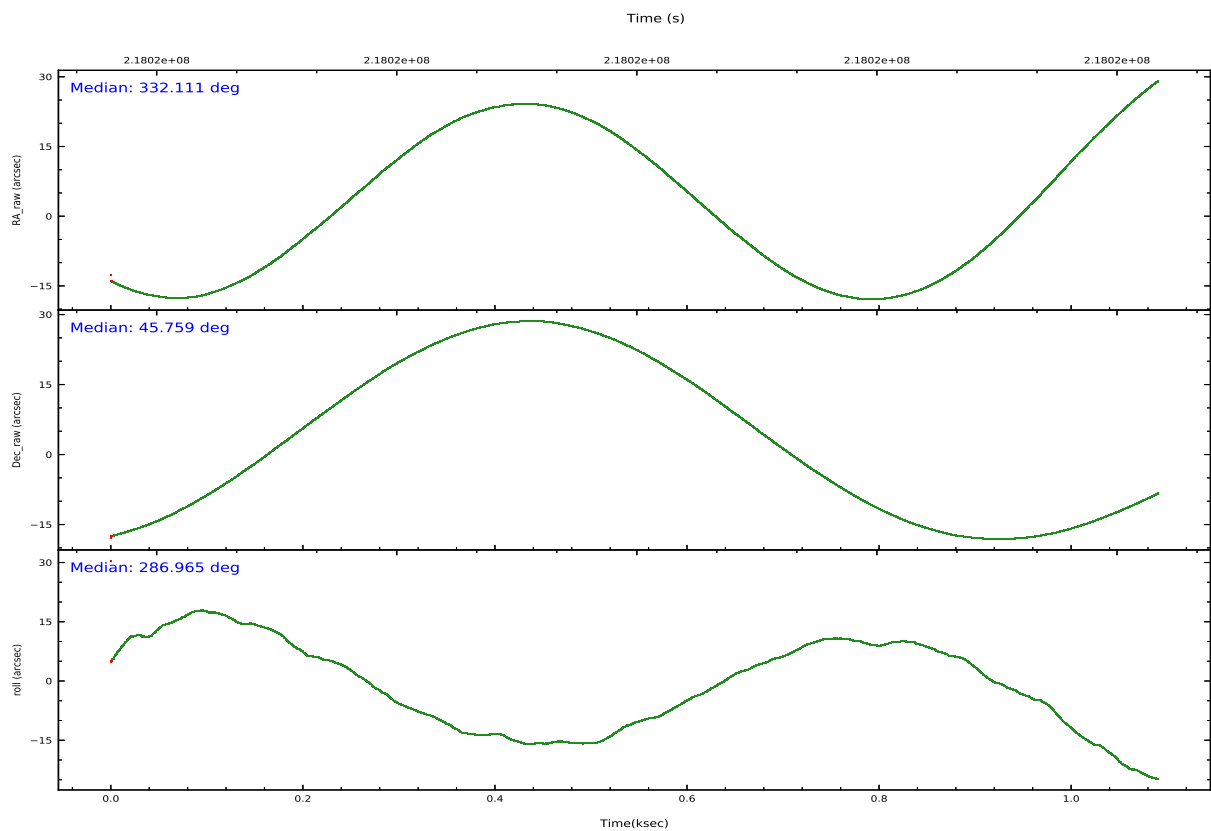
2.2 Compared Parameters

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	332.080858	332.10704468367
[deg] Pointing Dec	45.778468	45.761096324274
[deg] Pointing Roll	286.922492	286.96430411155
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	218017143.184000	218016767.34361
Observation start date	2004-11-28T08:17:59	2004-11-28T08:12:47
[s] Observation end time (MET)	218018043.184000	218018176.71867
Observation end date	2004-11-28T08:32:59	2004-11-28T08:36:16

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

2.3 Aspect



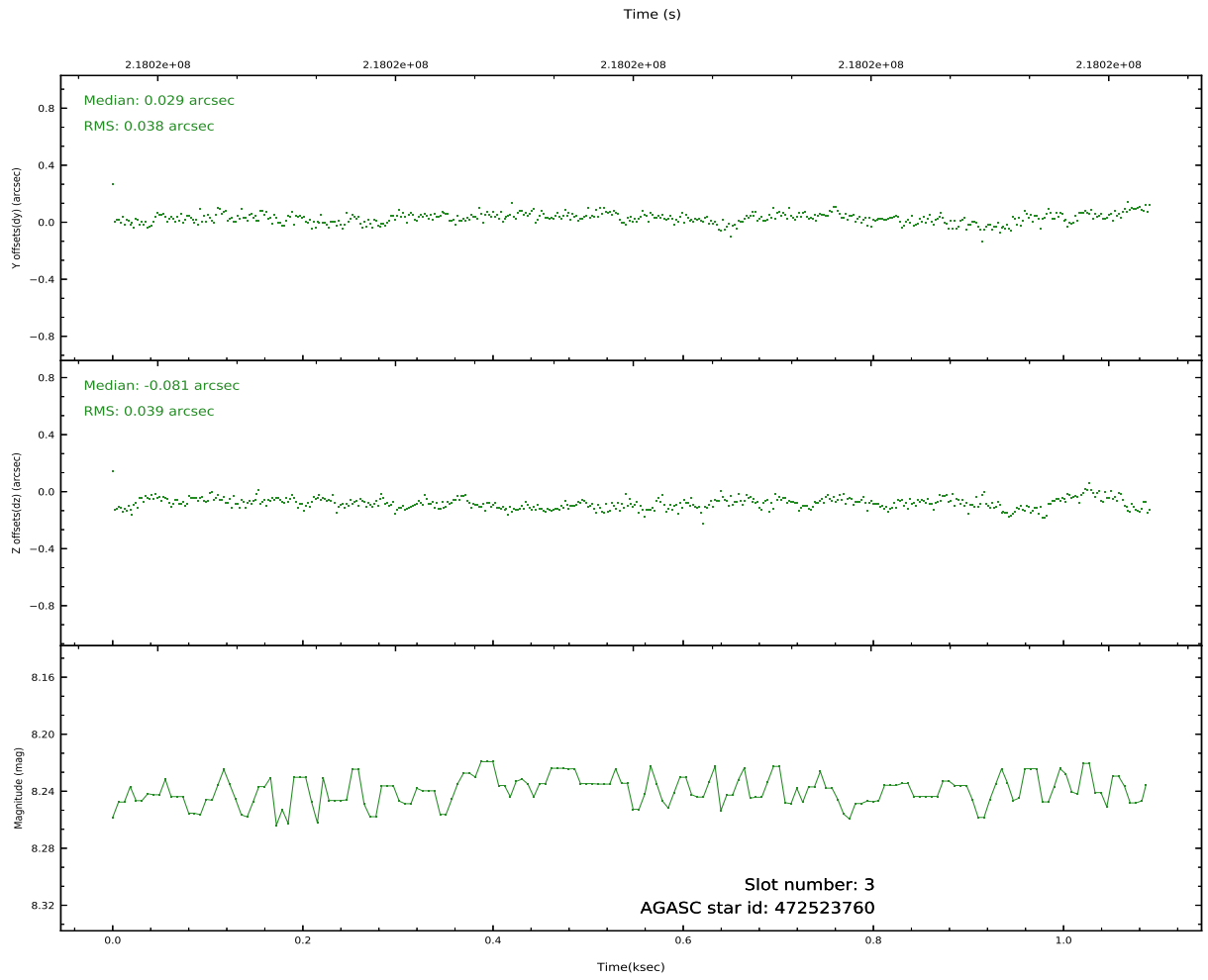
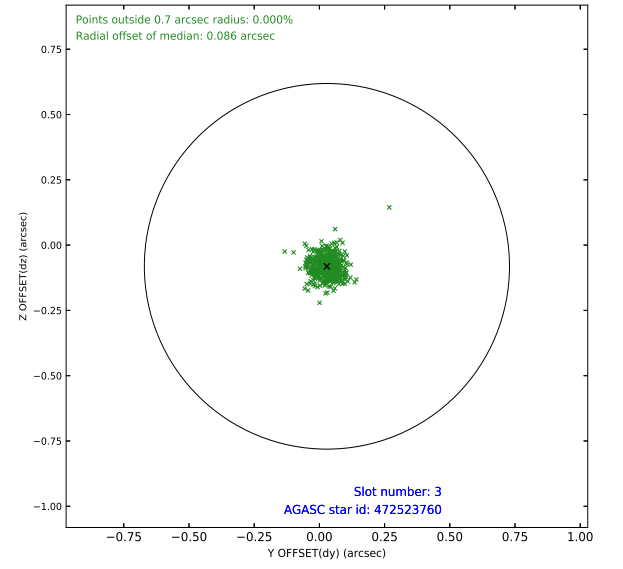
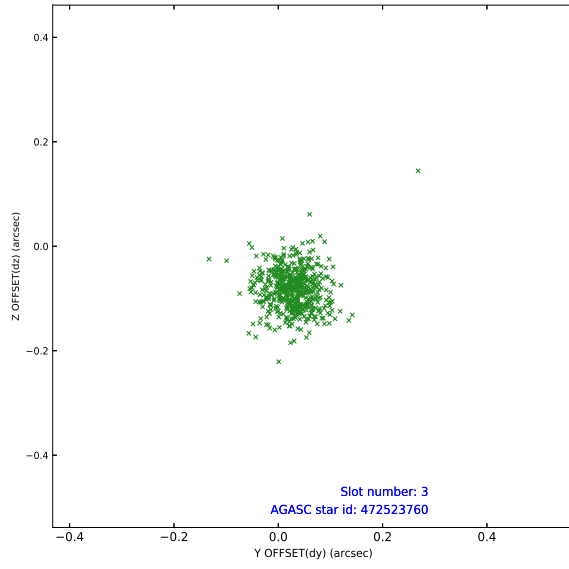


Slot Statistics

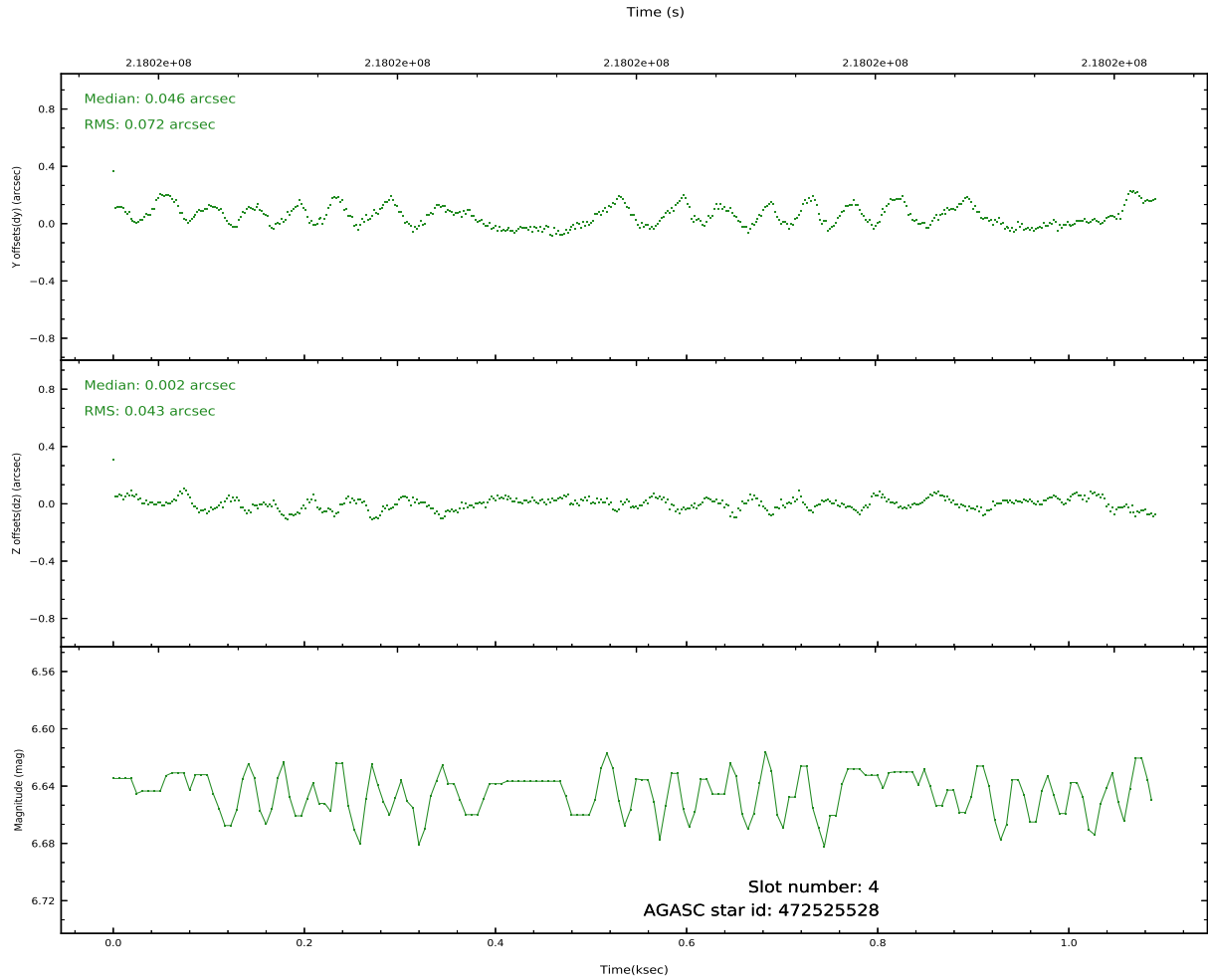
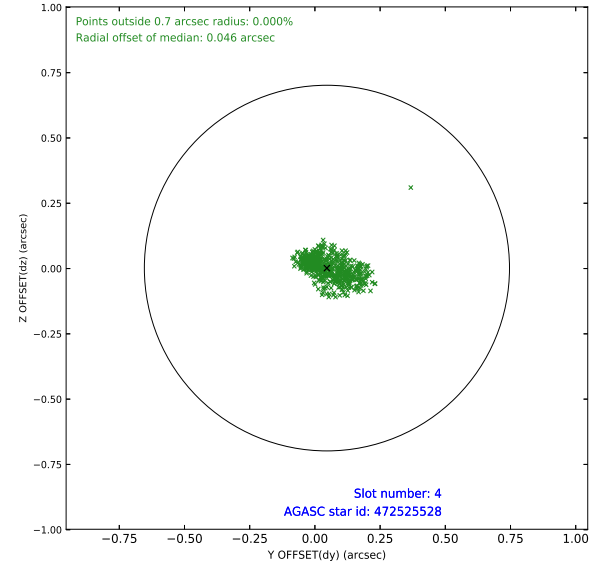
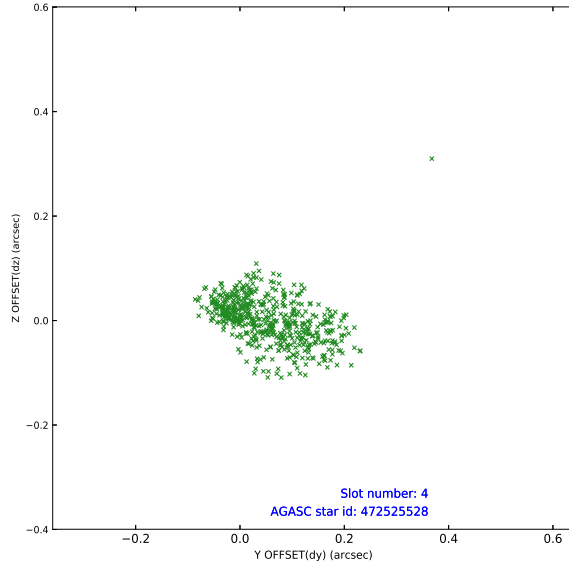
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-2	7.04	267	1.000	0.149	-0.128	0.010	0.017	0.000000	0.000000	1238.26	-449
1	FID		HRC-S-3	7.05	267	1.000	0.018	-0.092	0.005	0.010	0.000000	0.000000	-1159.64	570
2	FID		HRC-S-4	7.02	267	1.000	0.238	-0.075	0.011	0.019	0.000000	0.000000	1232.58	577
3	GUIDE	used	472523760	8.24	533	1.000	0.029	-0.081	0.054	0.092	331.645363	45.403260	969.50	-1442
4	GUIDE	used	472525528	6.64	533	1.000	0.046	0.002	0.087	0.143	331.551102	45.248694	1431.98	-1838
5	GUIDE	used	472527720	7.02	533	1.000	0.162	-0.062	0.101	0.150	331.460205	45.112509	1832.31	-2205
6	GUIDE	used	472535576	7.84	533	1.000	-0.206	0.064	0.060	0.111	331.438373	46.291802	-2235.77	-990
7	GUIDE	used	472659832	9.47	529	1.000	-0.039	0.084	0.109	0.234	332.780399	46.098139	-604.21	2008

2.4 Star Slots

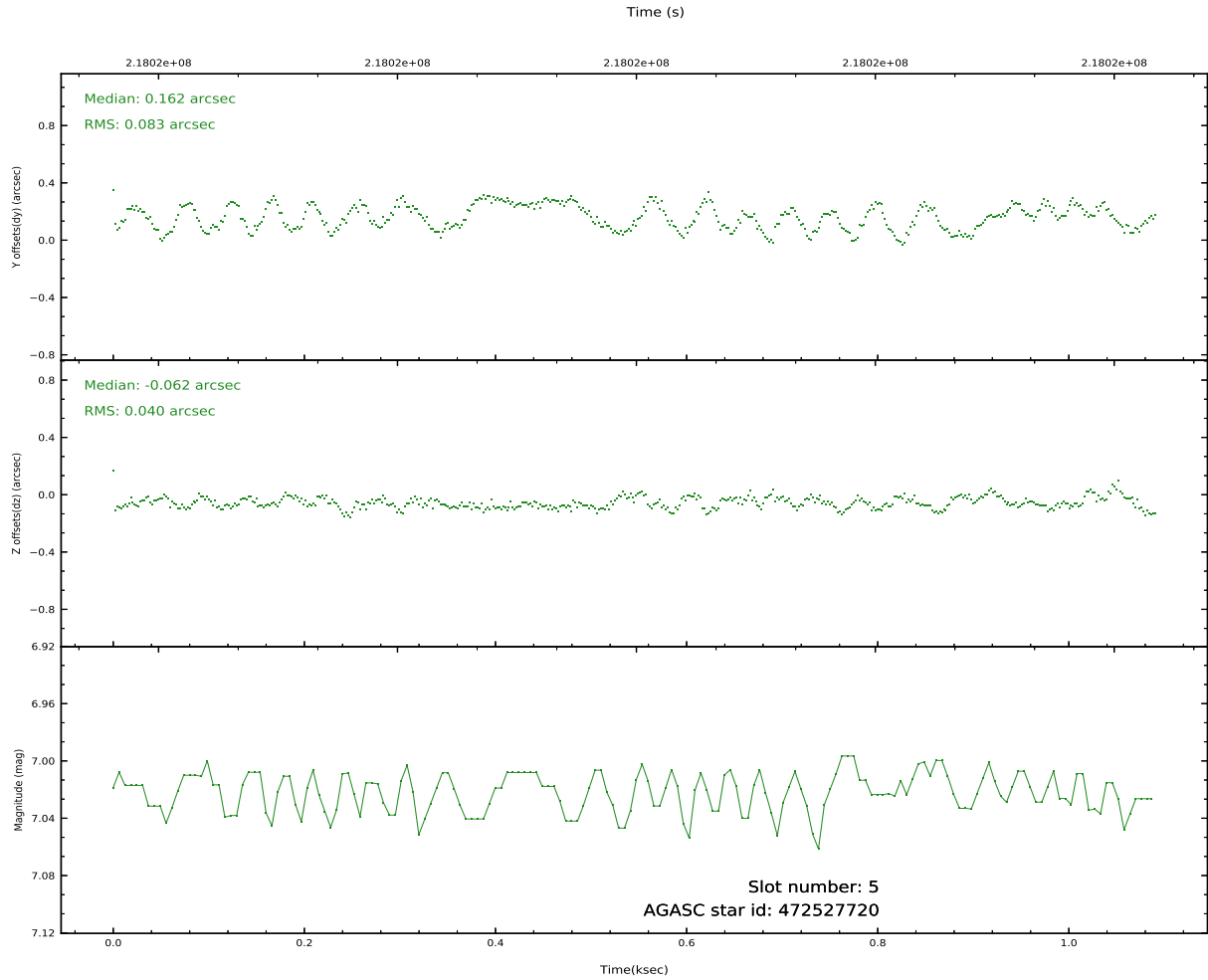
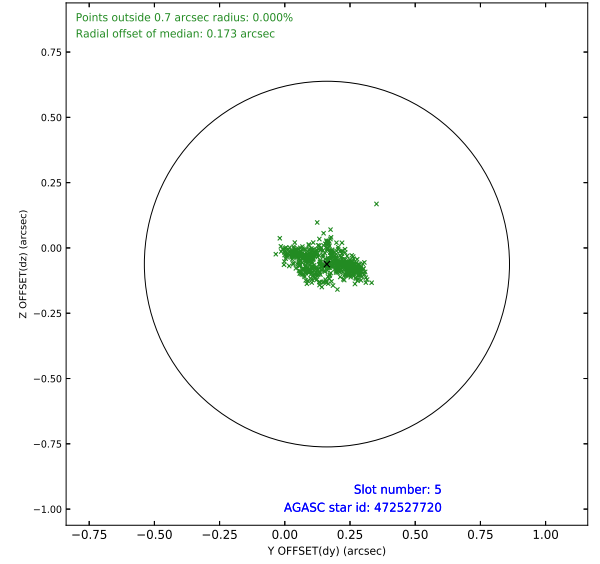
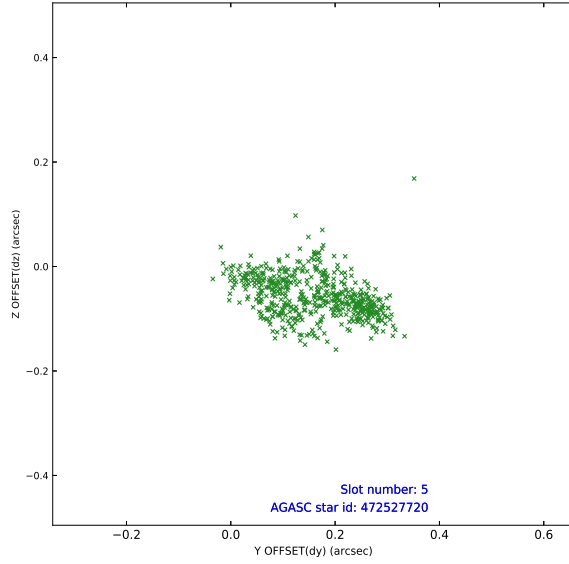
2.4.1 Slot 3



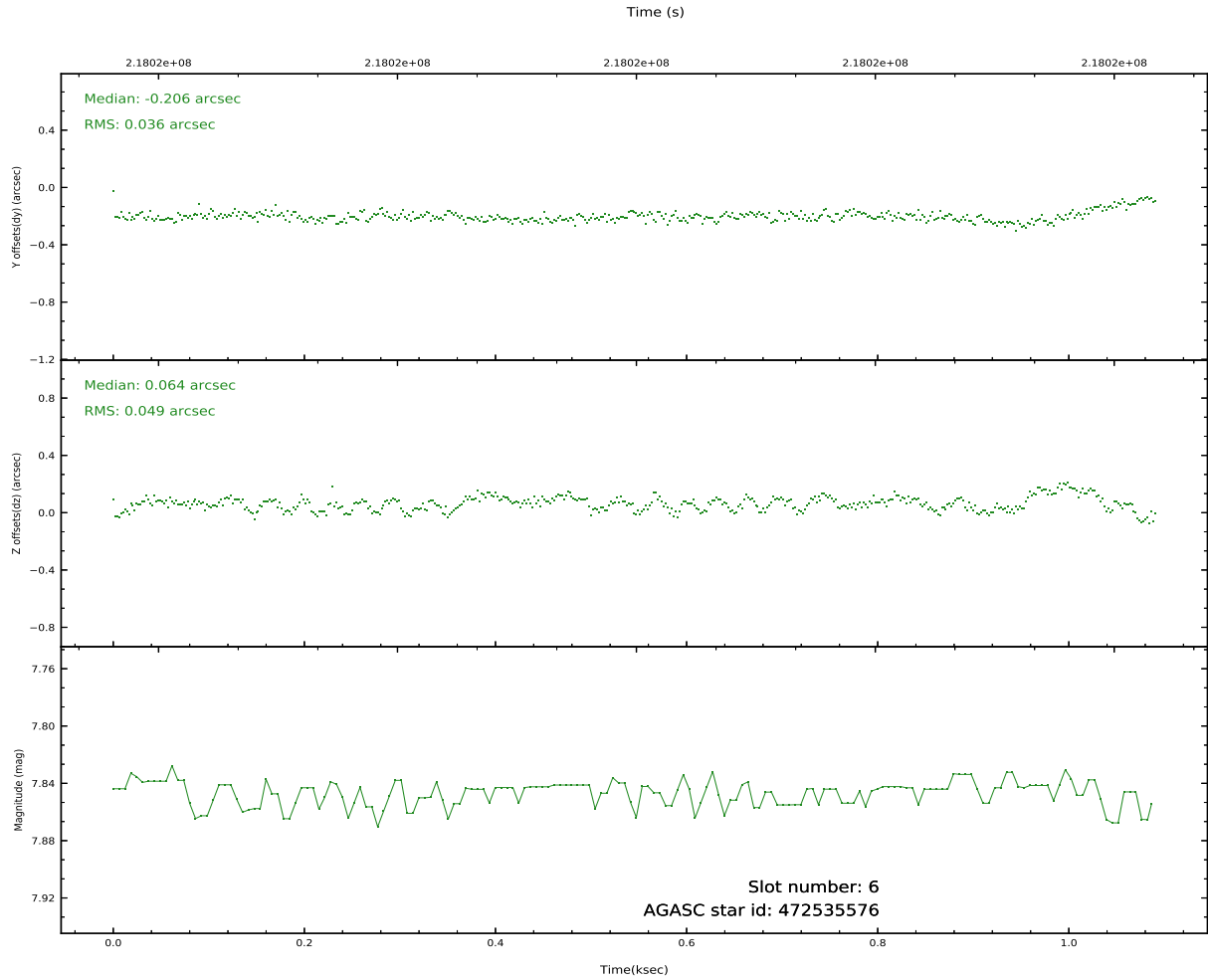
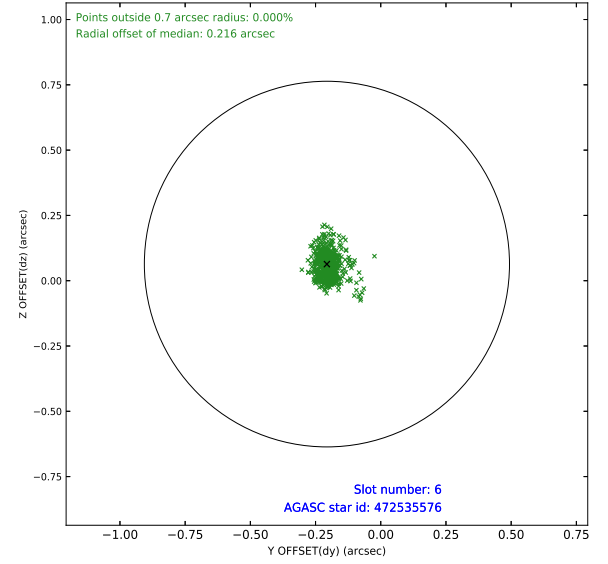
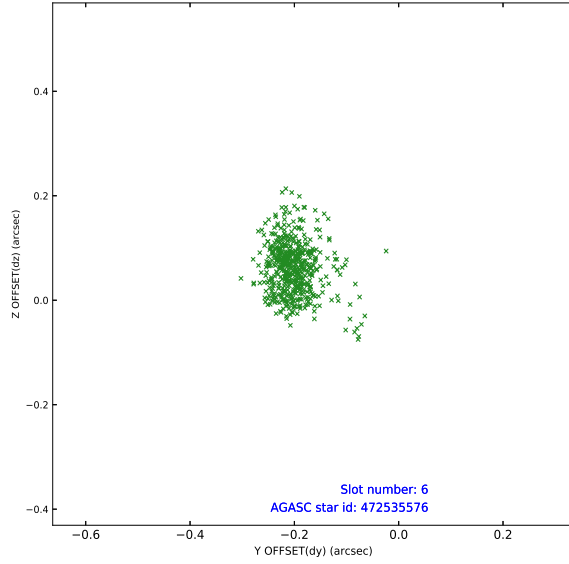
2.4.2 Slot 4



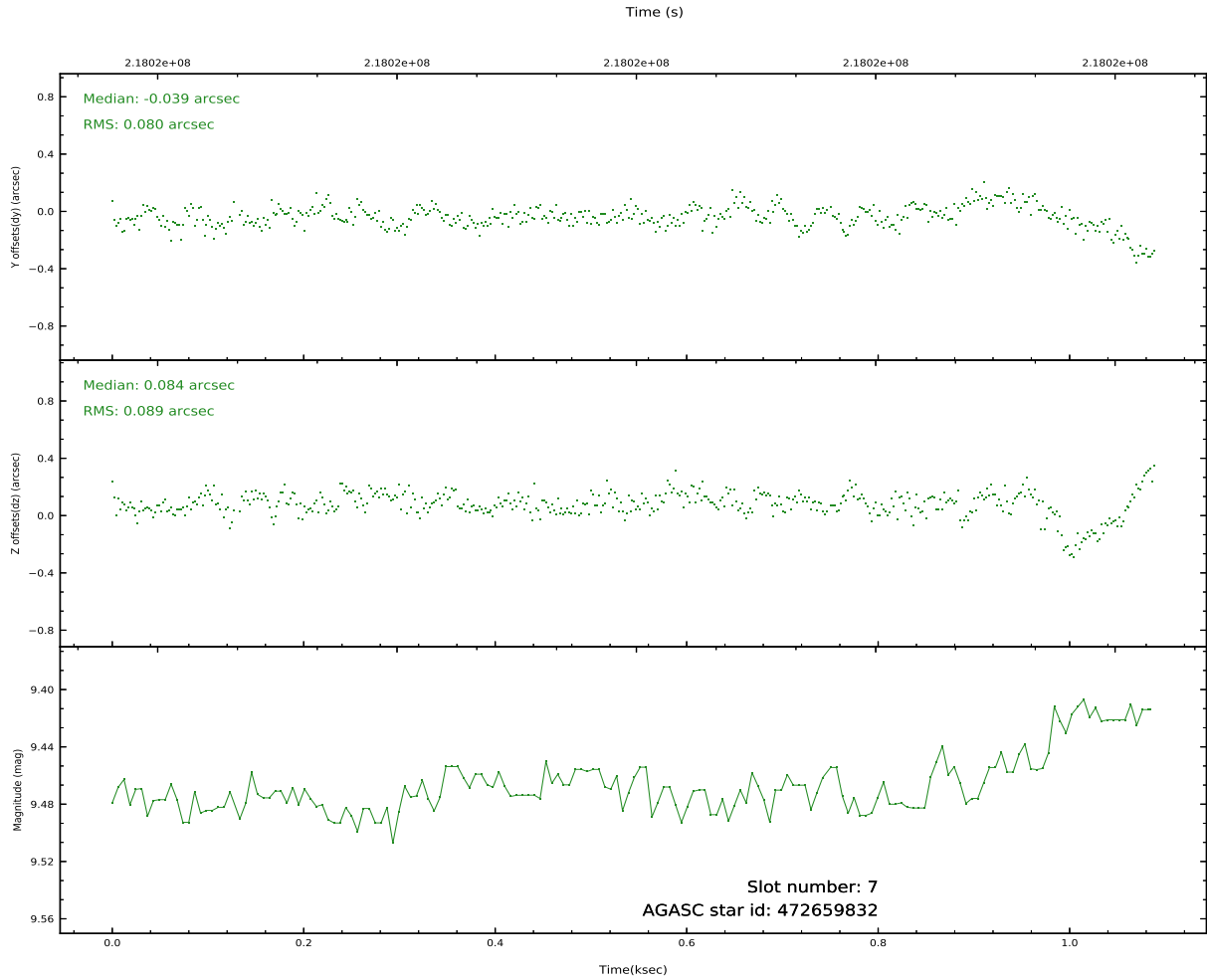
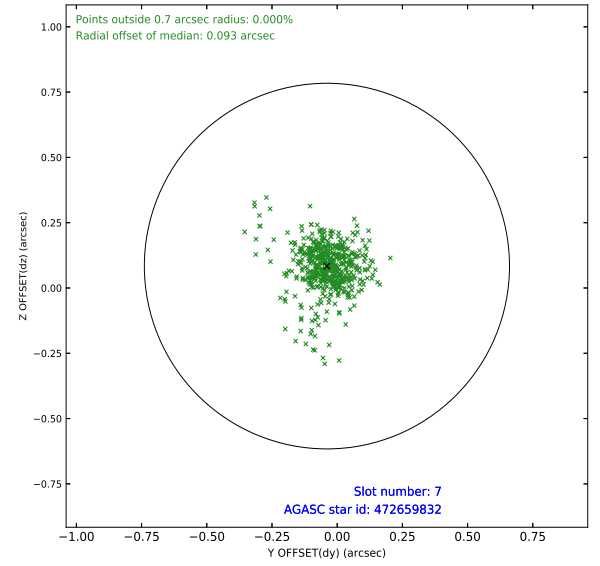
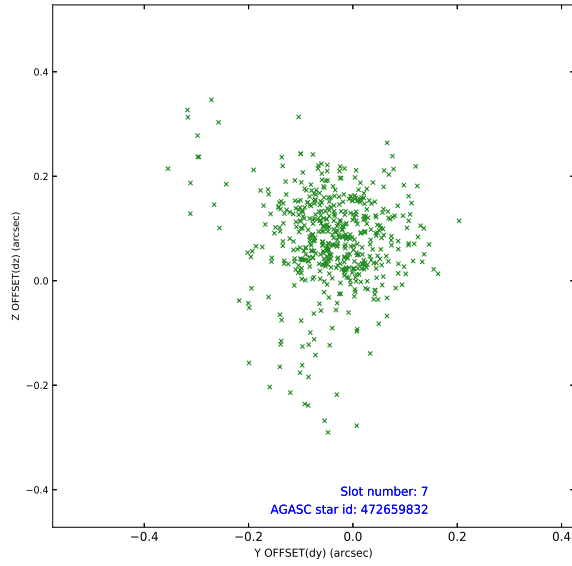
2.4.3 Slot 5



2.4.4 Slot 6

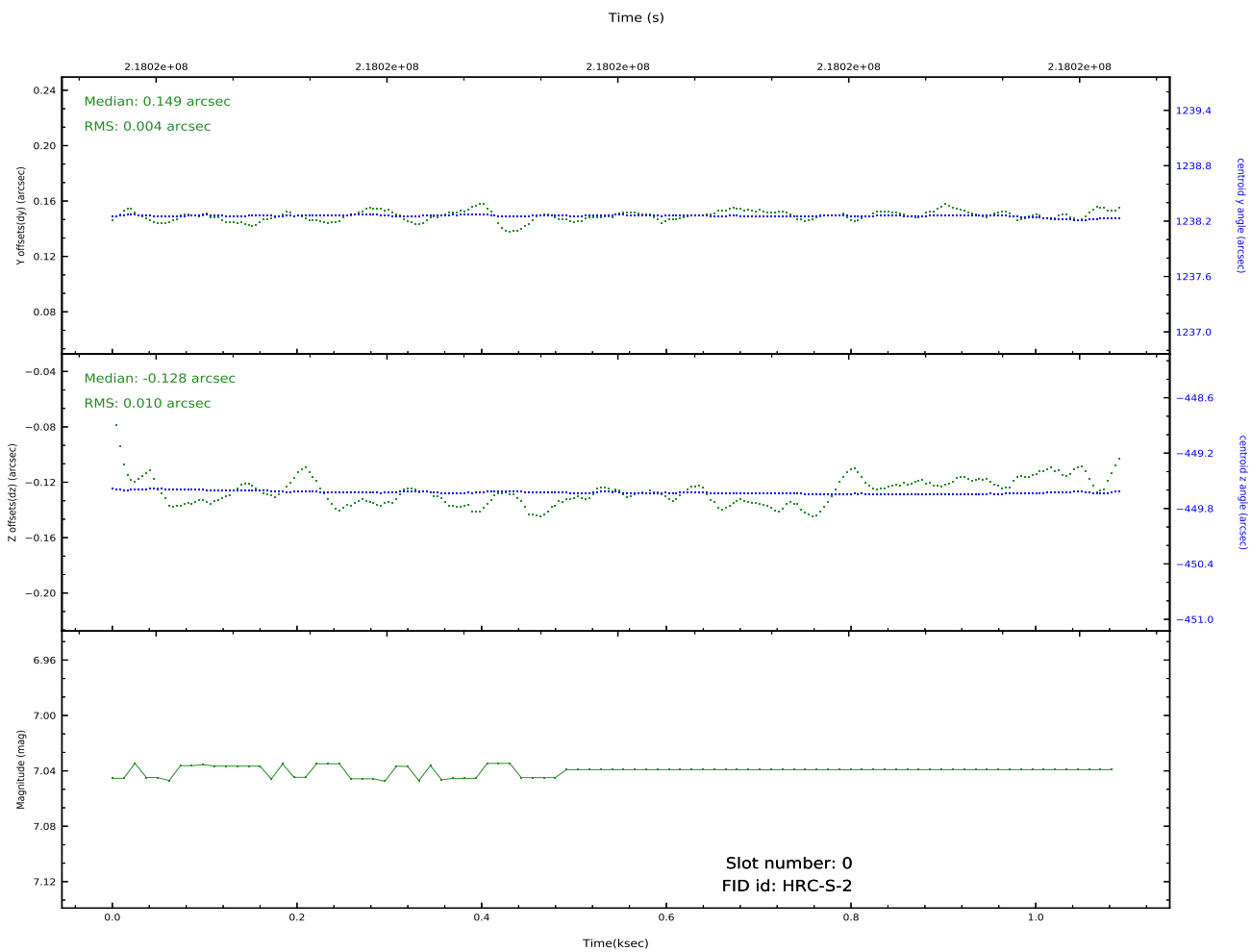
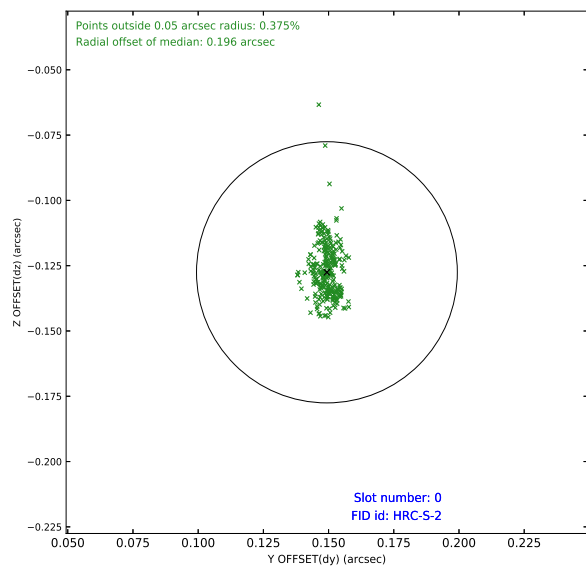
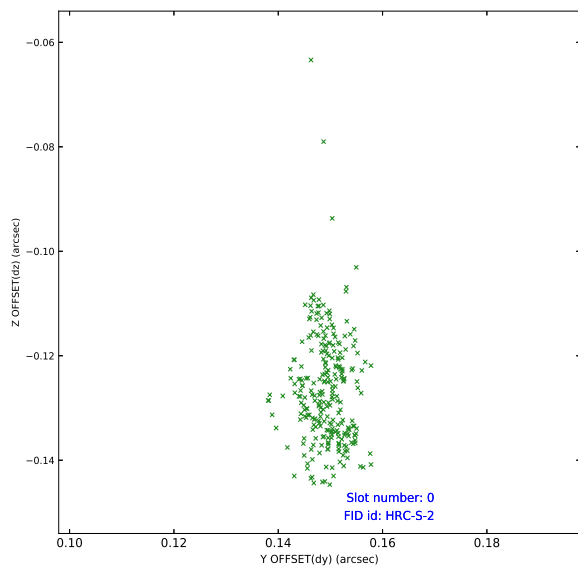


2.4.5 Slot 7

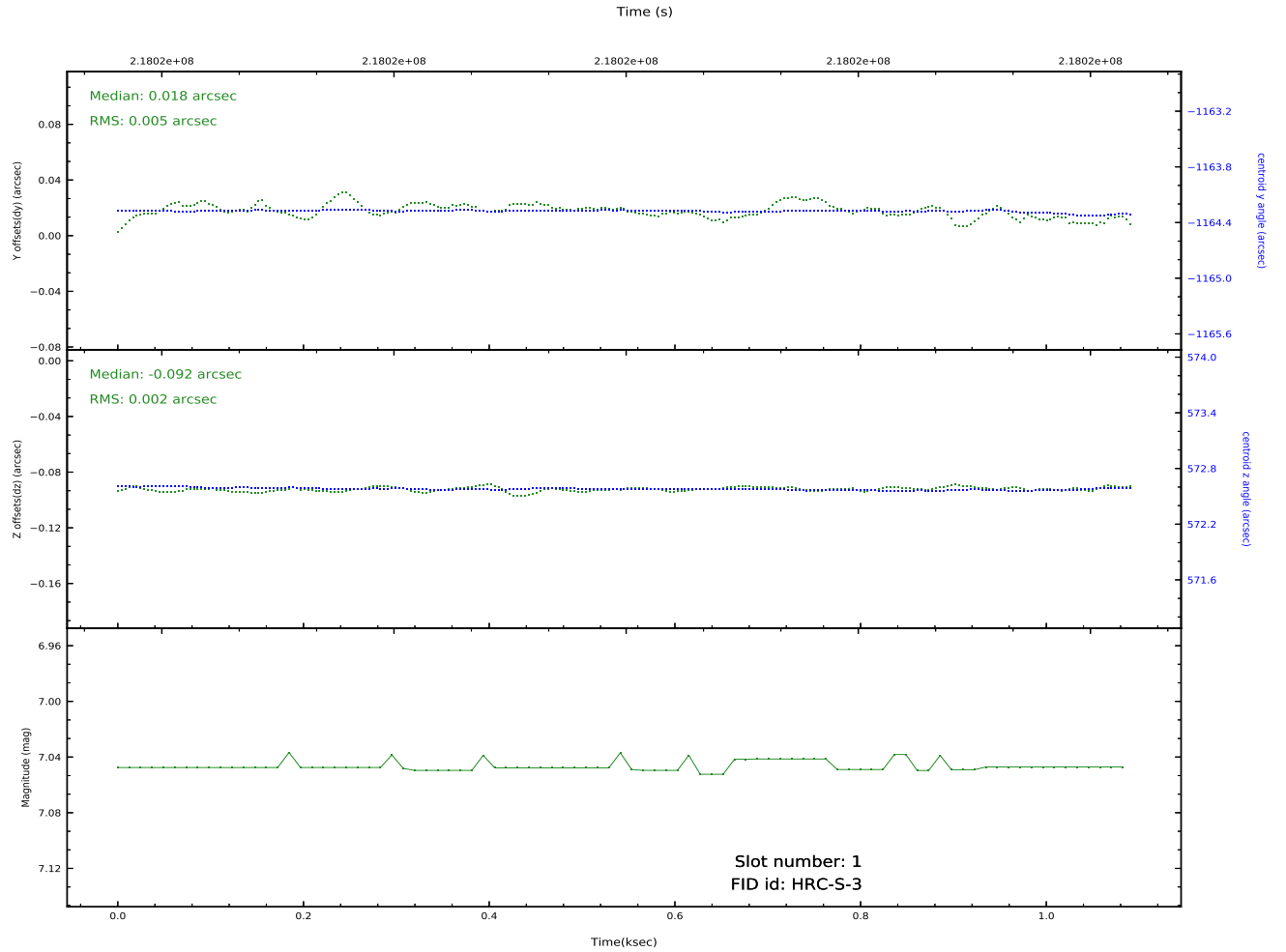
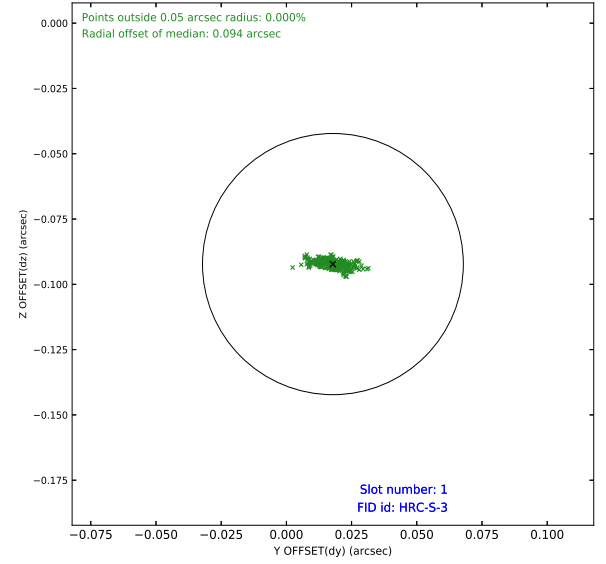
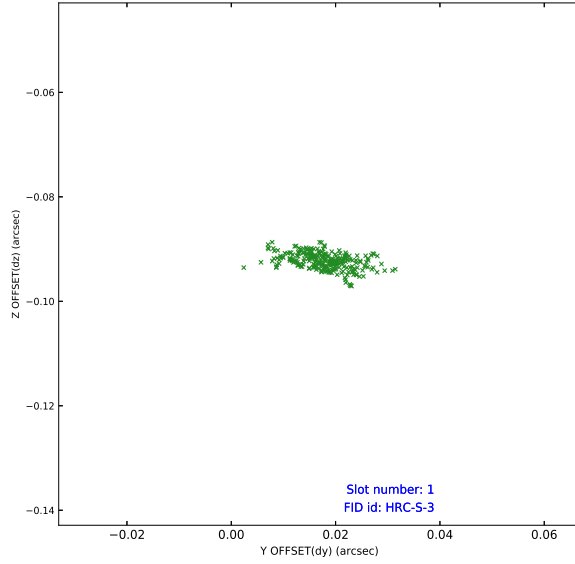


2.5 FID Slots

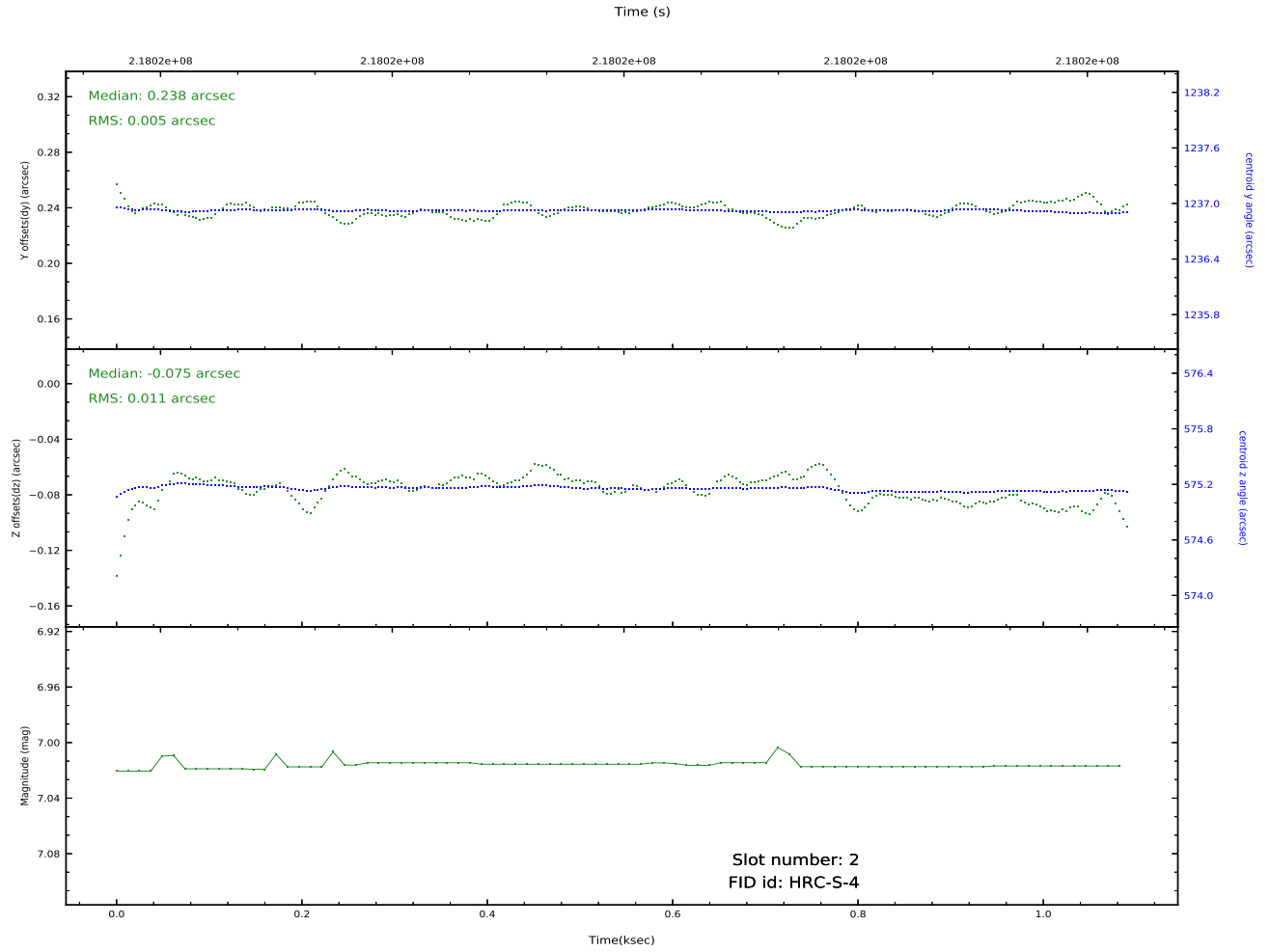
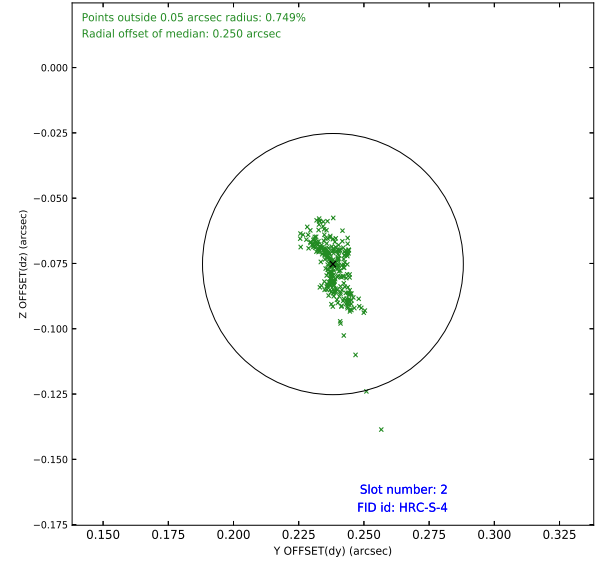
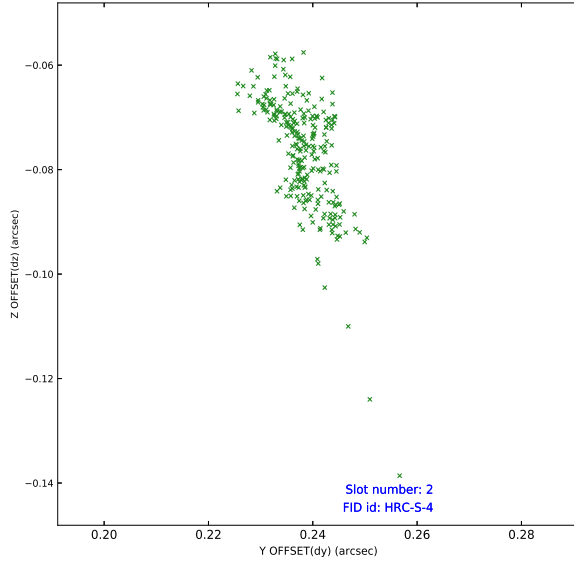
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.06113129

A.2 Comments

Due to corruption of the secondary science data during this observation, some instrument parameters have bogus values. The data in this observation have been inspected by the HRC team. PLEASE NOTE: All the event data in this observation are good. The short gaps in the GTI intervals can be eliminated (i.e., use the first START and last STOP). THE DTF values during this observation can be estimated by dropping all the low values and averaging the remaining values near 1.0.