

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5081 - L2 Version 4
Chandra X-Ray Center

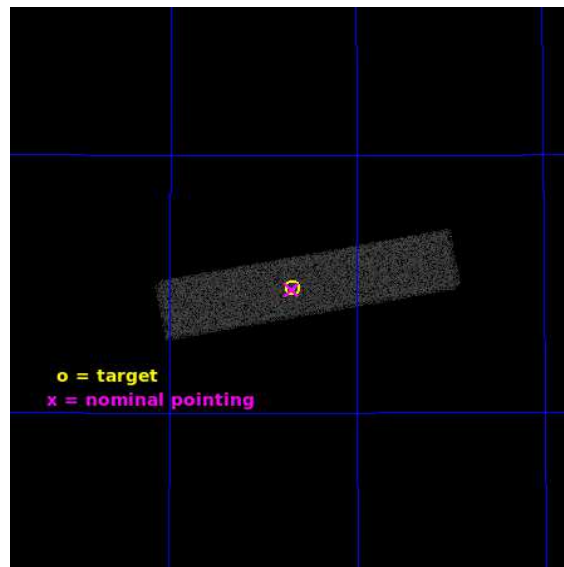
L2 Processing Date : Sep 23 2020

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

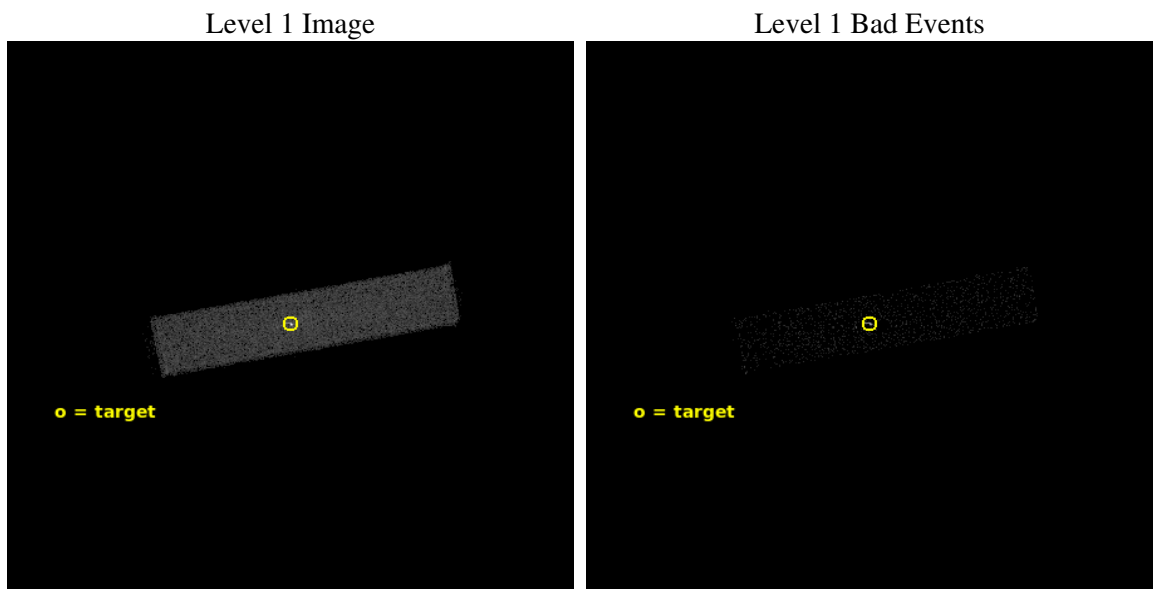
seq_num	290354	Sequence number
obs_id	5081	Observation id
title	AO5A Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.17309533106	Nominal RA [deg]
dec_nom	45.739717842985	Nominal Dec [deg]
roll_nom	349.38226488086	Nominal Roll [deg]
revision	4	Processing version of data
ontime	858.18128752708	[s]
livetime	853.67386941592	Ontime multiplied by DTCOR
l2events	30985	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	946.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	858.18128752708	[s]
caldsver	4.9.2	 	l1events	46827	Number of level 1 events
date	2020-09-23T04:17:45	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

Level 1 Events

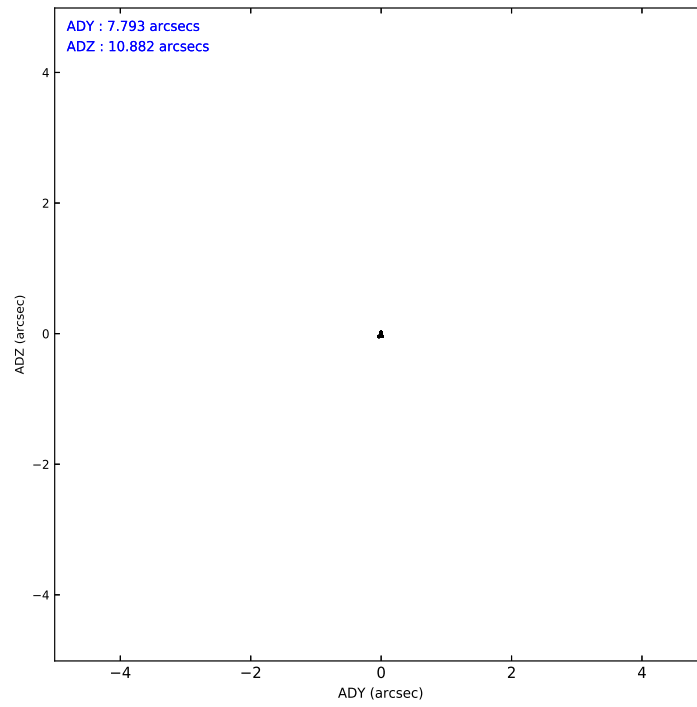
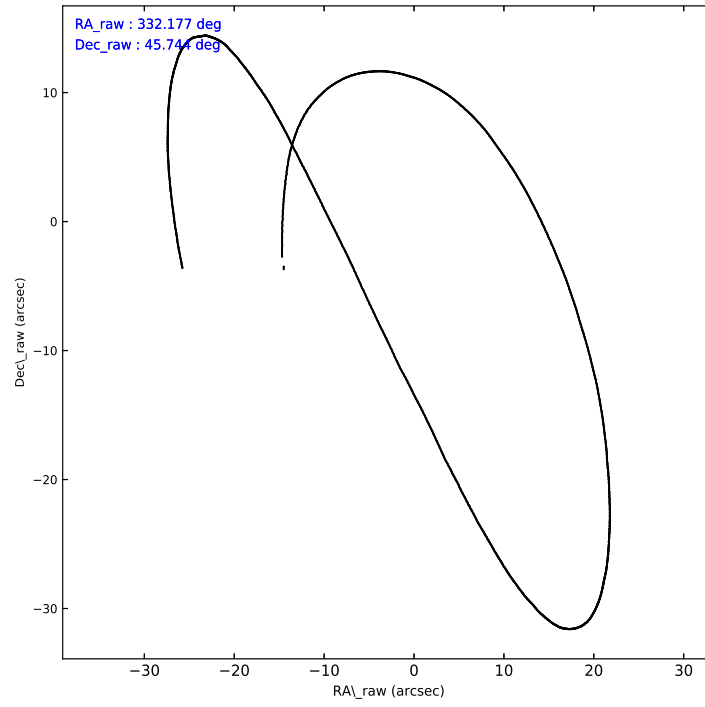
	segment 1	segment 2	segment 3
level 1 events	0	46827	0
rejected events	0	7856	0
rejected %	0%	16%	0%

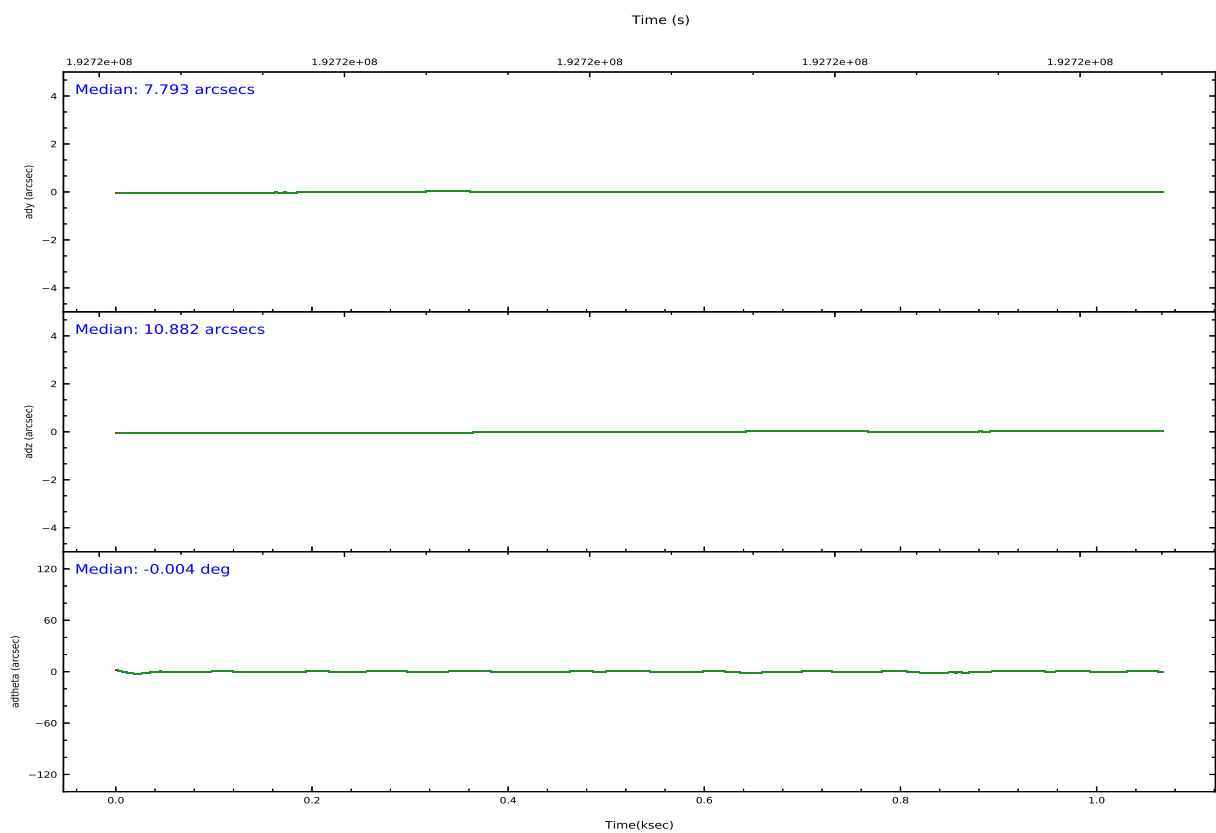
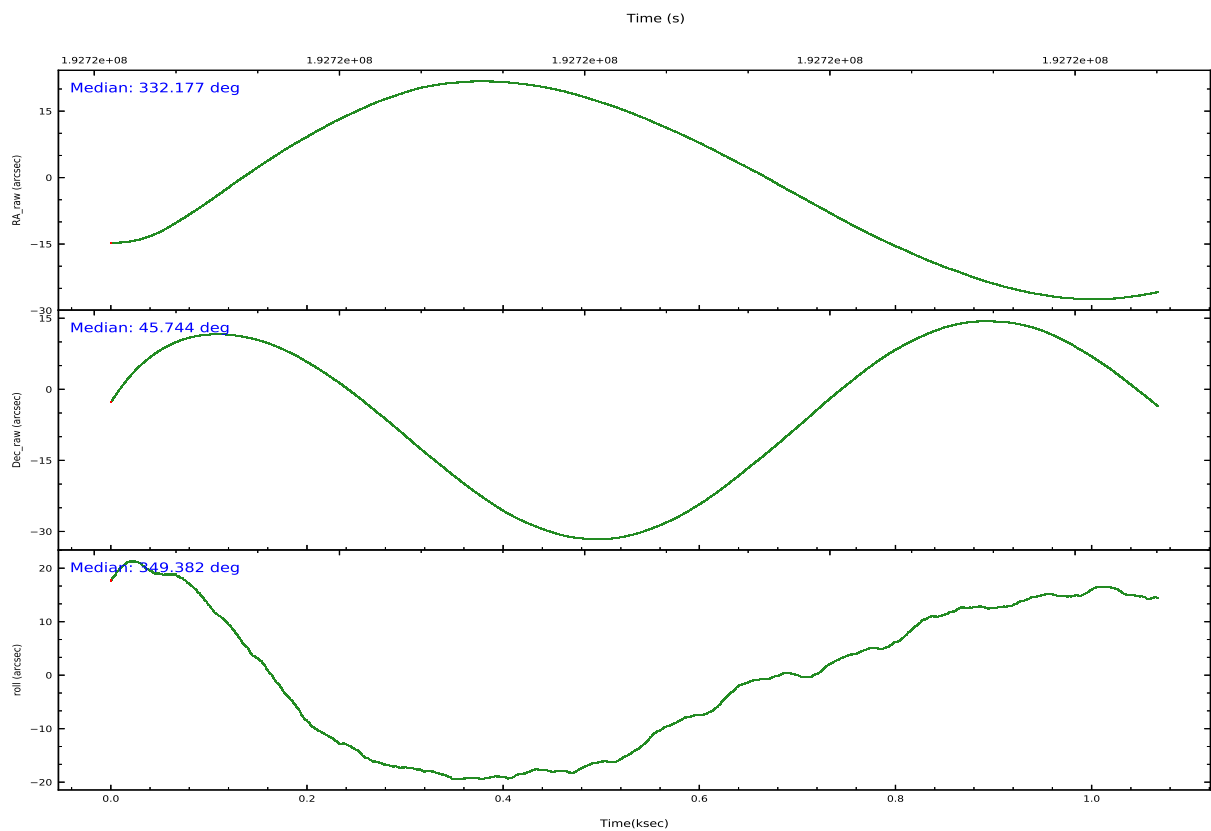
2.2 Compared Parameters

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	332.138629	332.17309533106
[deg] Pointing Dec	45.730489	45.739717842985
[deg] Pointing Roll	349.347301	349.38226488086
[s] Window start time (MET)	191980864.184000	191980864.184000
[s] Window stop time (MET)	194313664.184000	194313664.184000
[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)	192719889.184000	192718762.23447
Observation start date	2004-02-09T13:17:05	2004-02-09T12:59:22
[s] Observation end time (MET)	192720835.184000	192720968.54706
Observation end date	2004-02-09T13:32:51	2004-02-09T13:36:08

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

2.3 Aspect



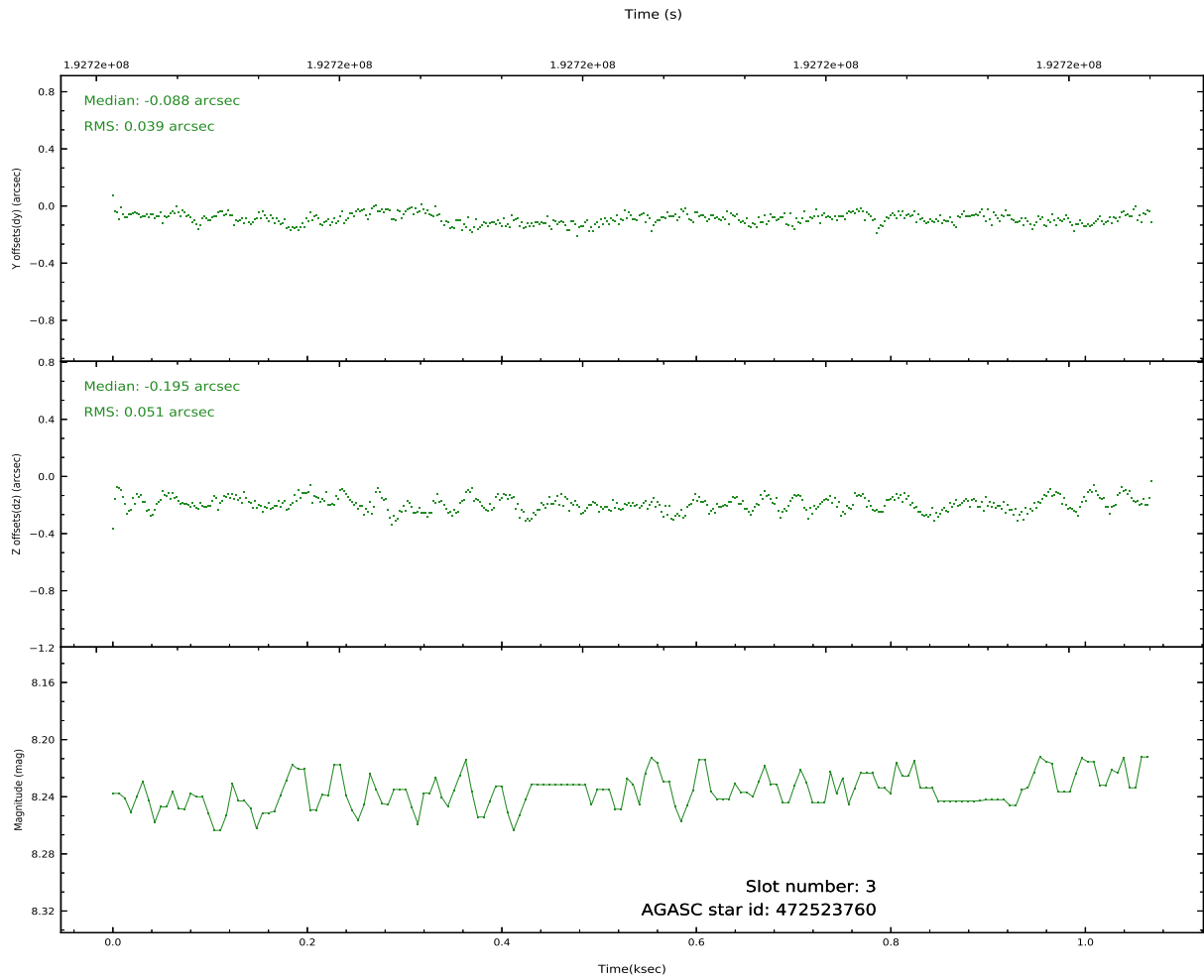
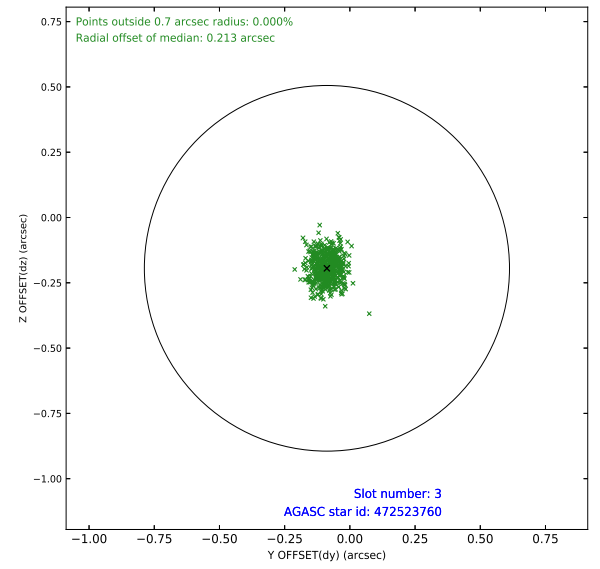
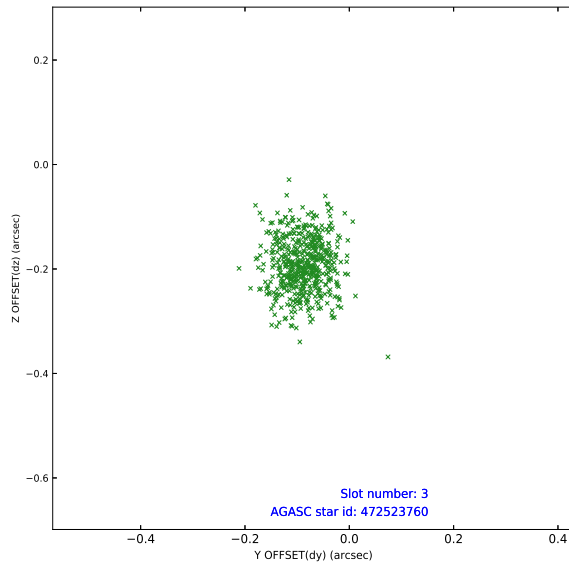


Slot Statistics

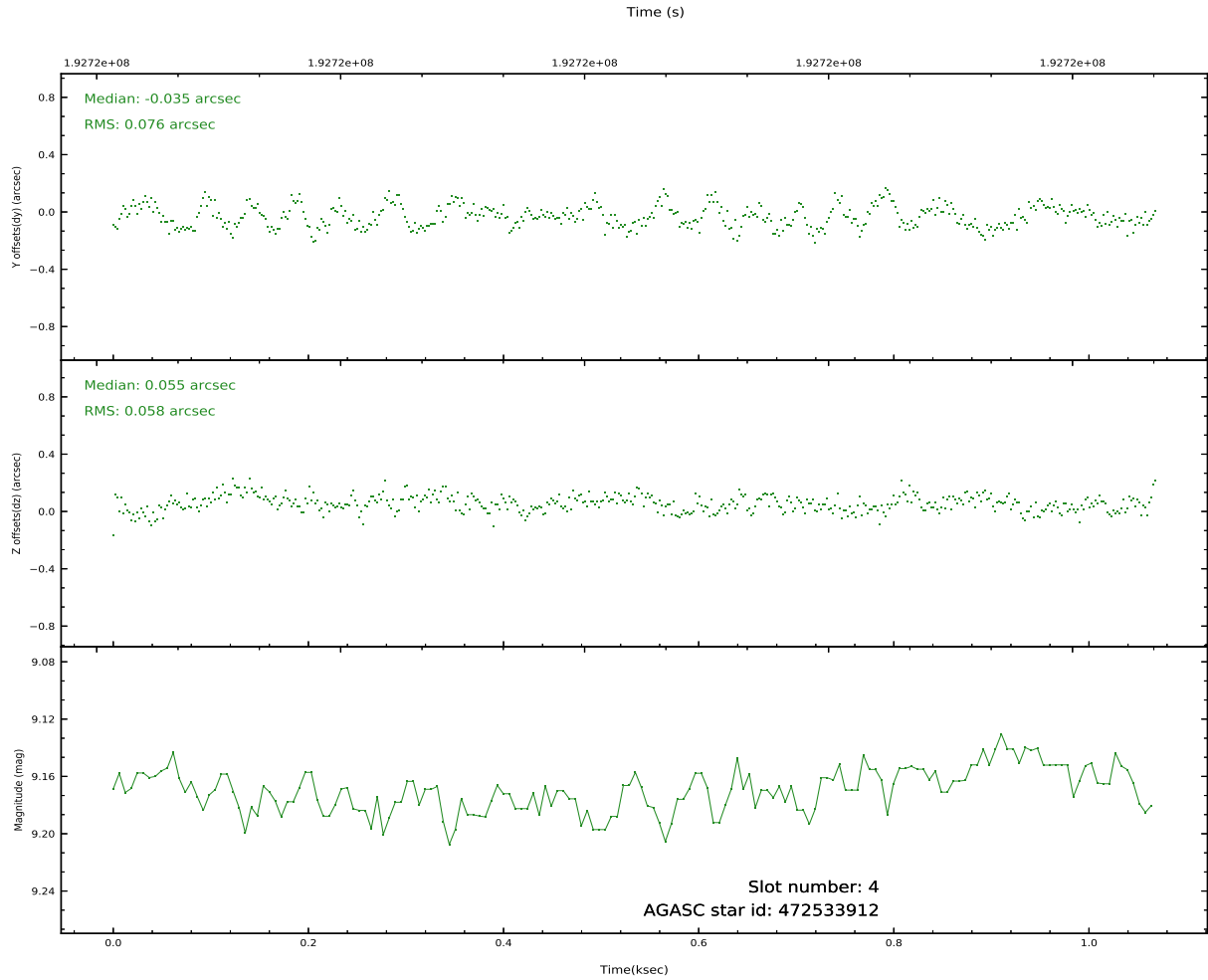
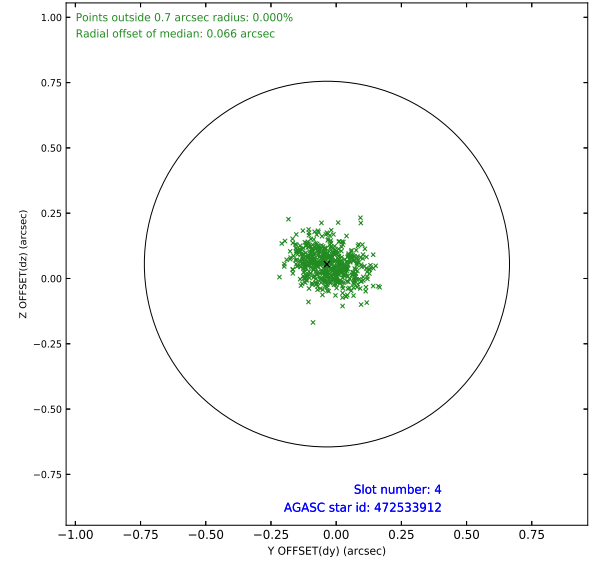
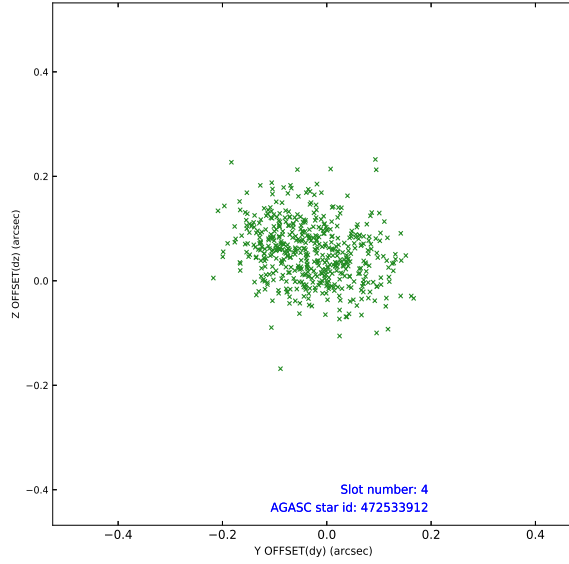
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.04	261	1.000	0.118	-0.186	0.008	0.013	0.000000	0.000000	-1161.96	-459
1	FID		HRC-S-2	7.04	261	1.000	0.175	-0.115	0.005	0.010	0.000000	0.000000	1233.32	-453
2	FID		HRC-S-3	7.05	261	1.000	0.096	-0.001	0.009	0.014	0.000000	0.000000	-1159.99	568
3	GUIDE	used	472523760	8.24	522	1.000	-0.088	-0.195	0.068	0.110	331.645363	45.403260	-1008.39	-1388
4	GUIDE	used	472533912	9.17	522	1.000	-0.035	0.055	0.102	0.163	331.791136	46.368695	-1275.94	2093
5	GUIDE	used	472654568	9.44	522	1.000	-0.054	0.012	0.102	0.161	332.194449	45.063576	580.98	-2333
6	GUIDE	used	472655152	9.43	522	1.000	0.146	0.001	0.106	0.200	332.504239	45.862991	813.18	632
7	GUIDE	used	472659832	9.46	521	1.000	0.021	0.129	0.098	0.161	332.780399	46.098139	1329.75	1600

2.4 Star Slots

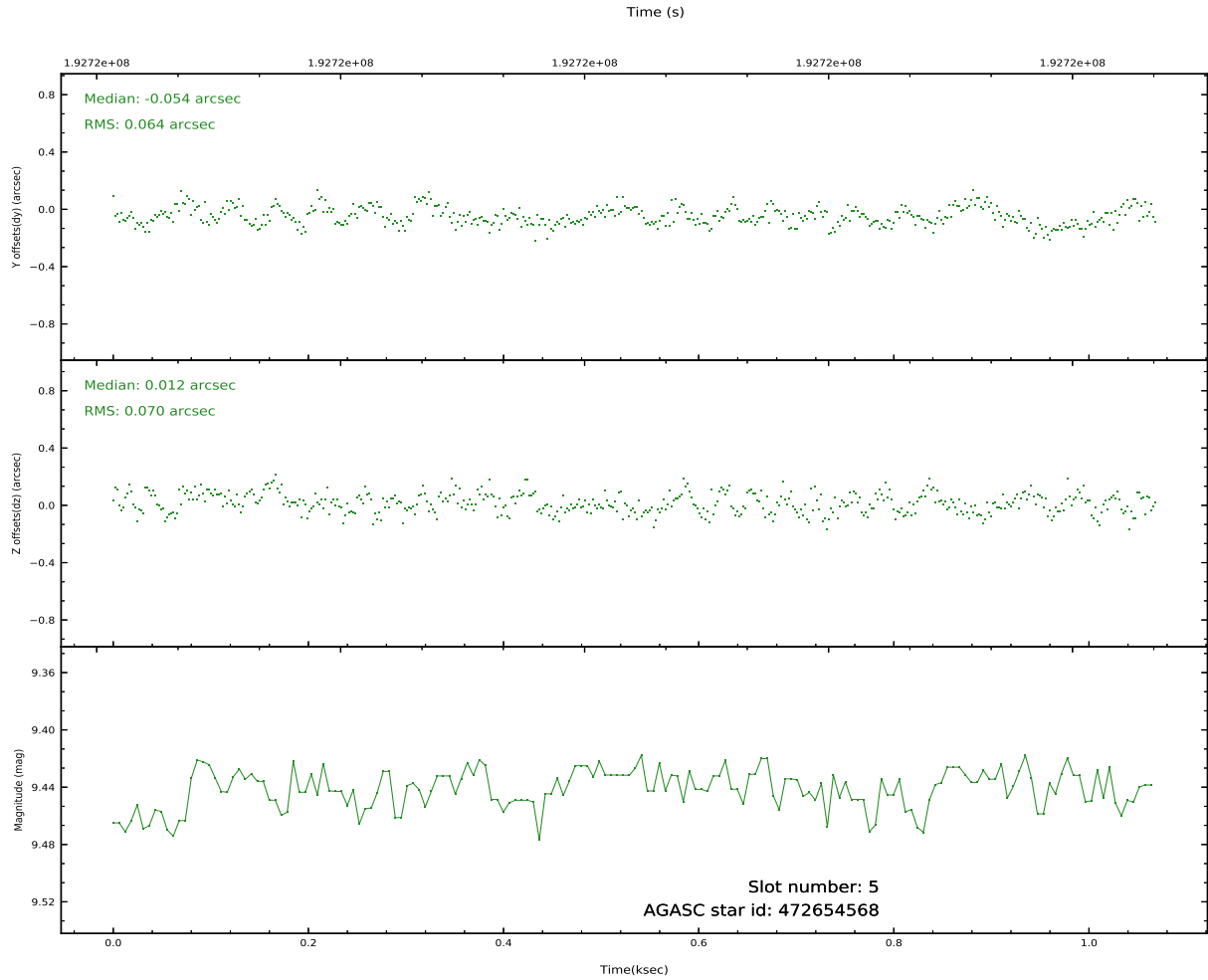
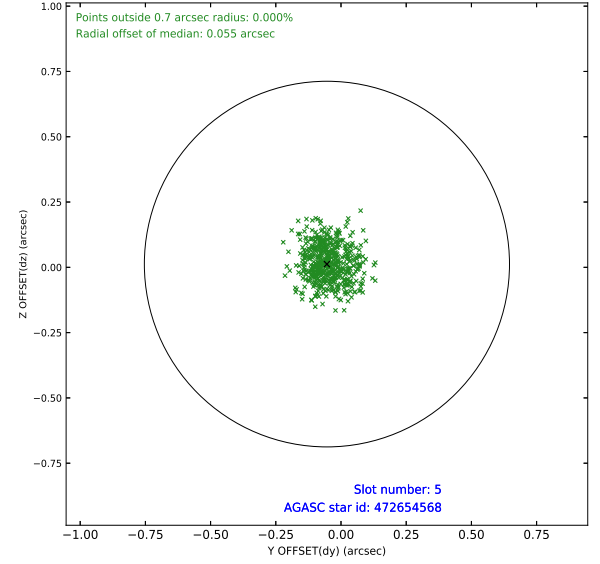
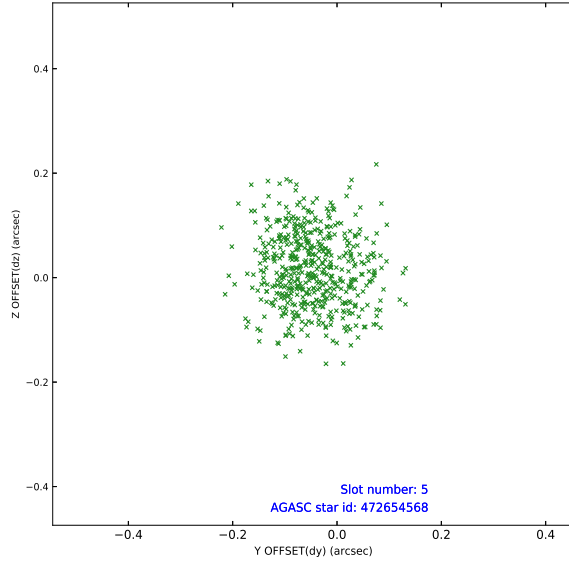
2.4.1 Slot 3



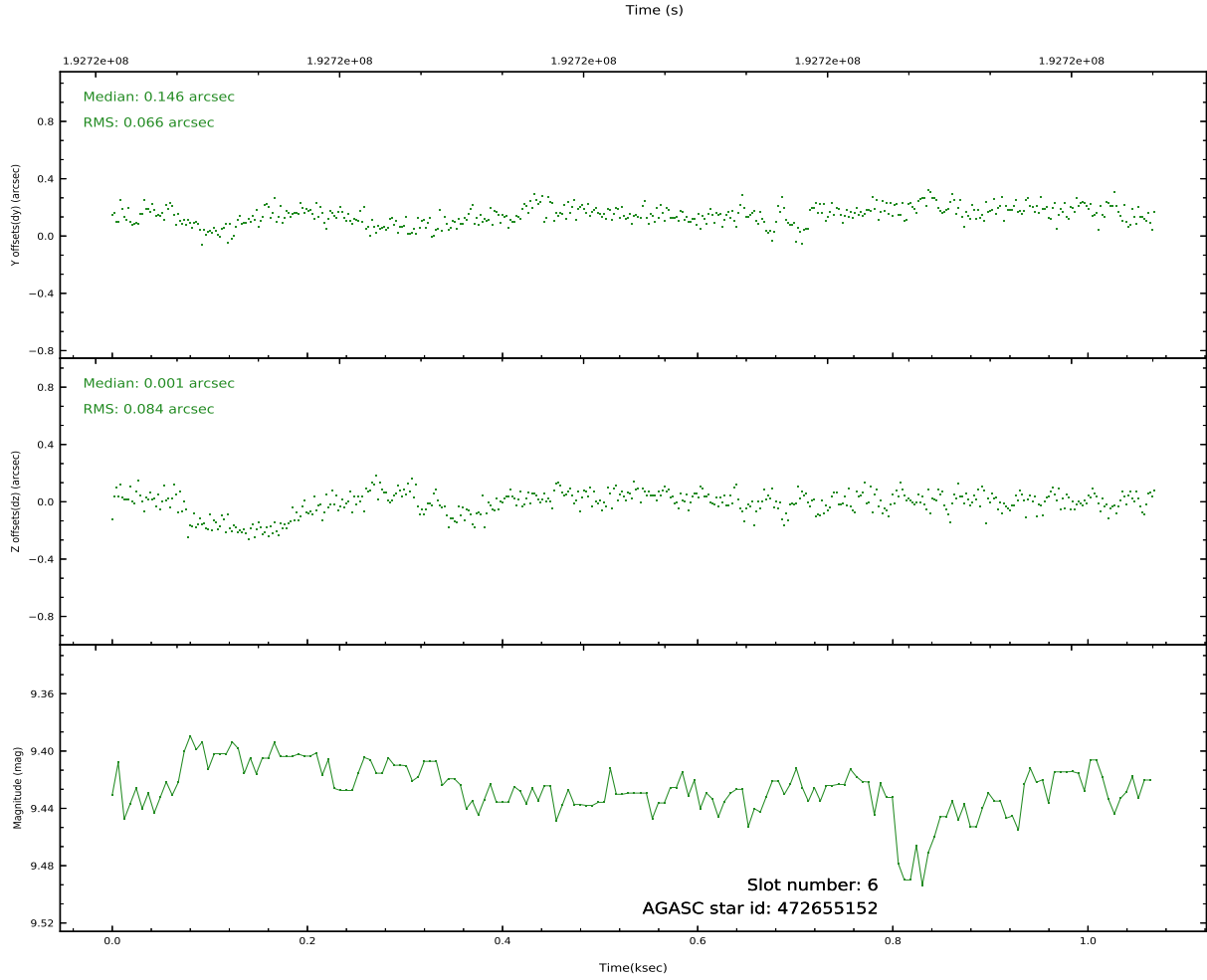
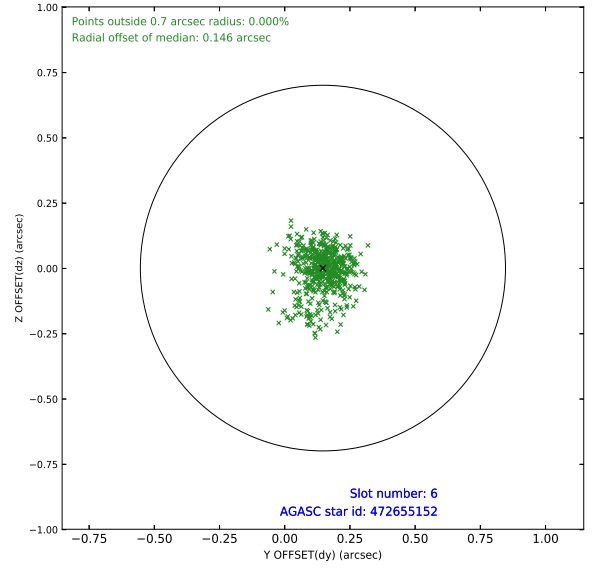
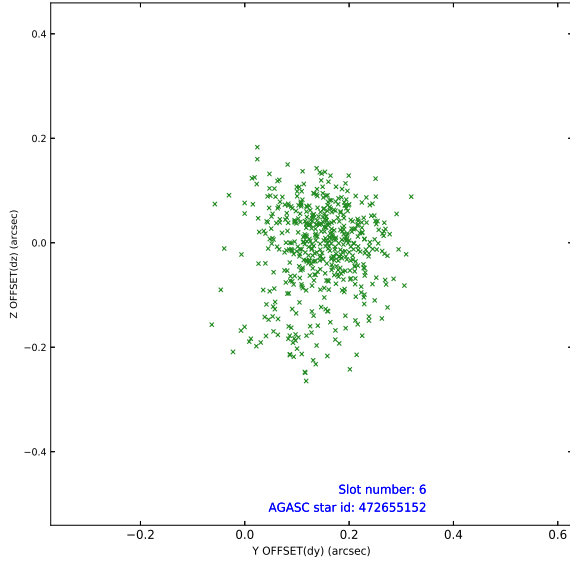
2.4.2 Slot 4



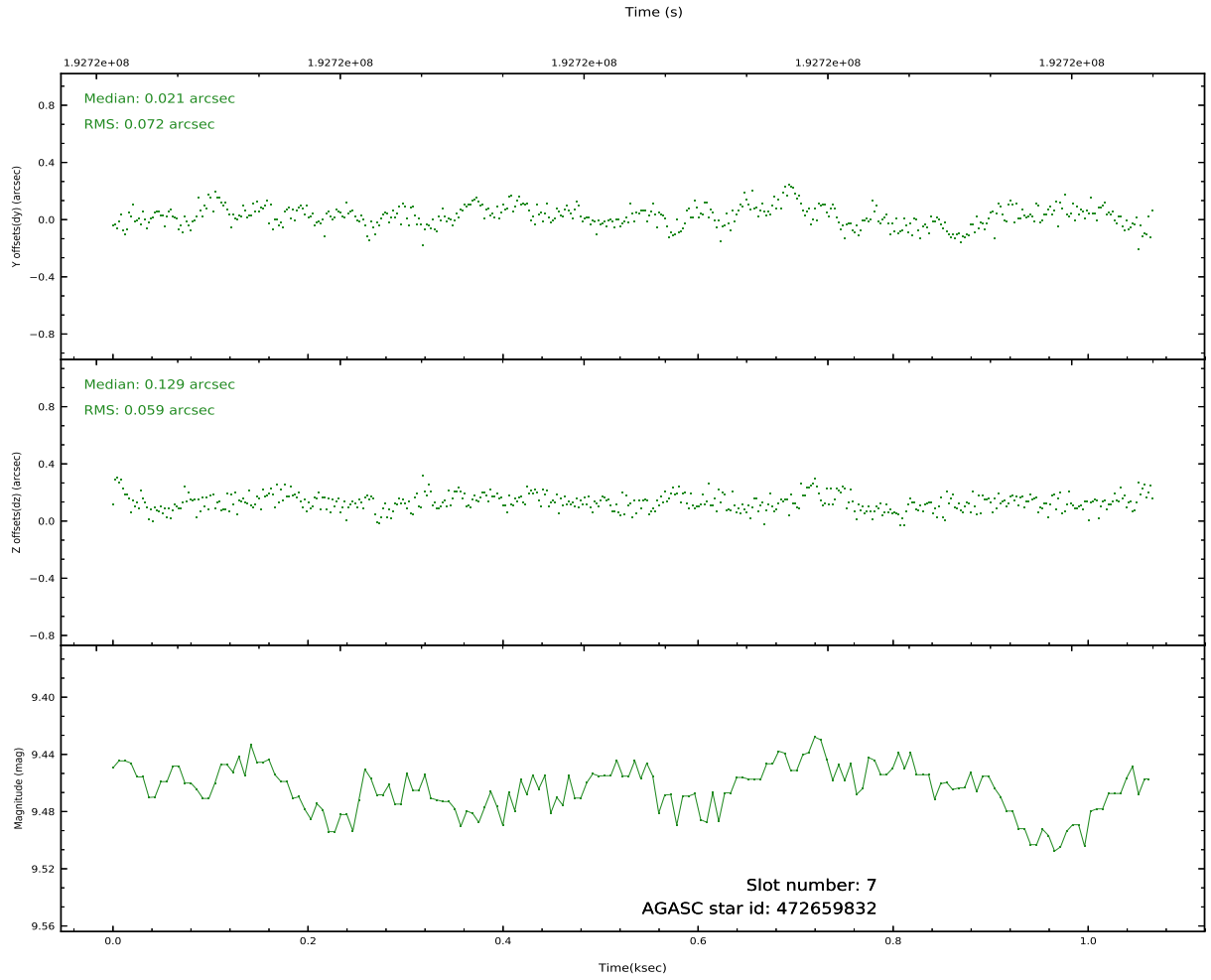
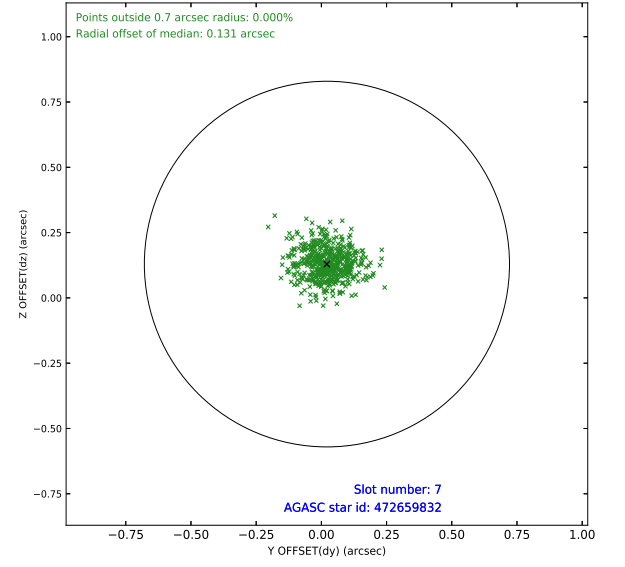
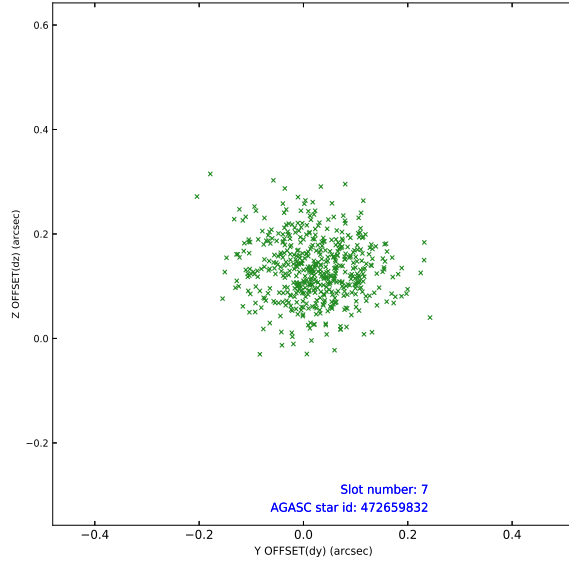
2.4.3 Slot 5



2.4.4 Slot 6

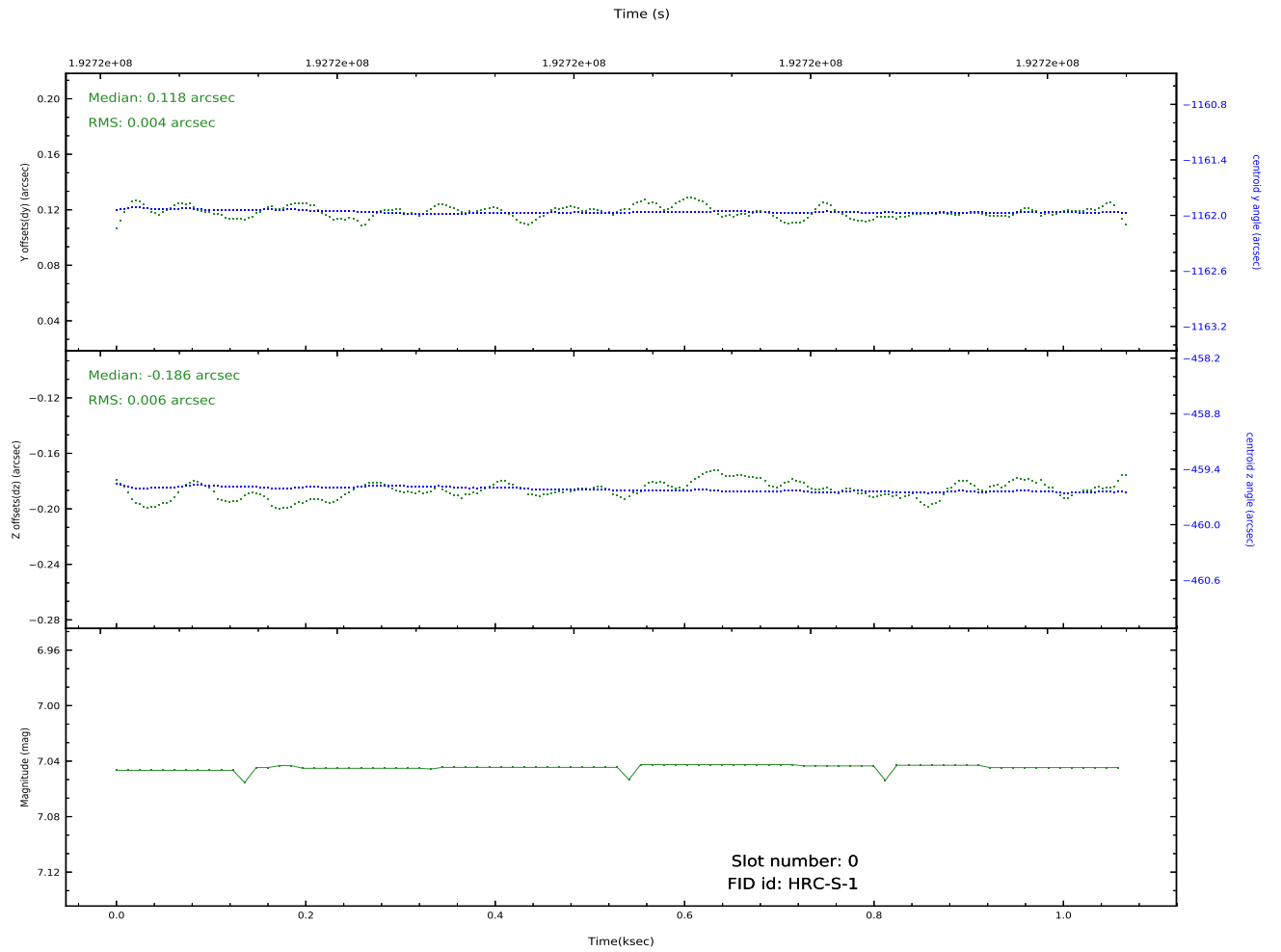
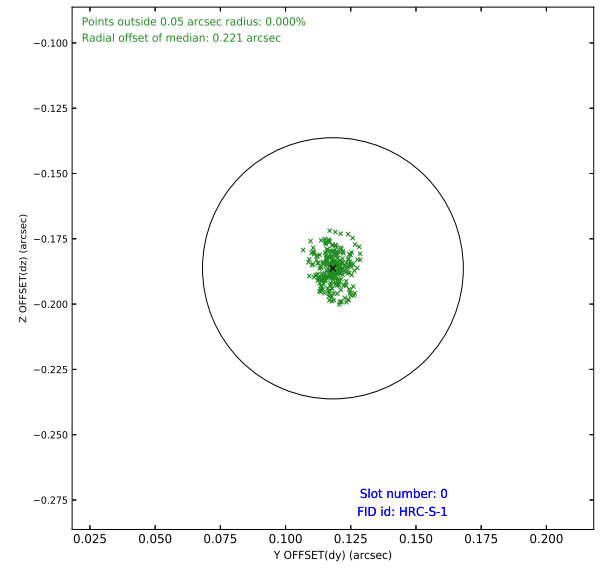
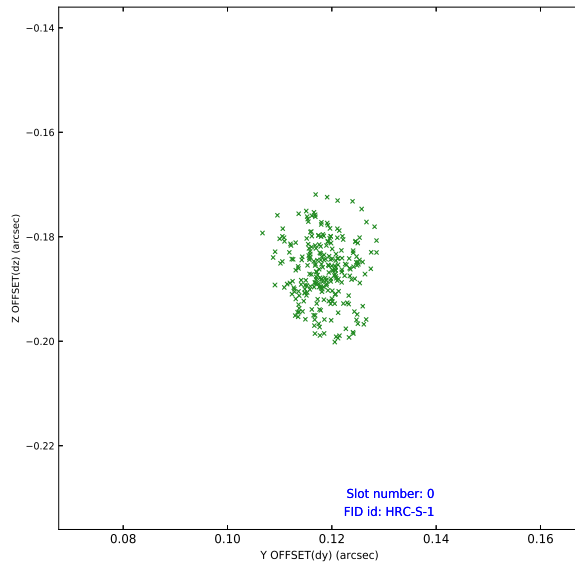


2.4.5 Slot 7

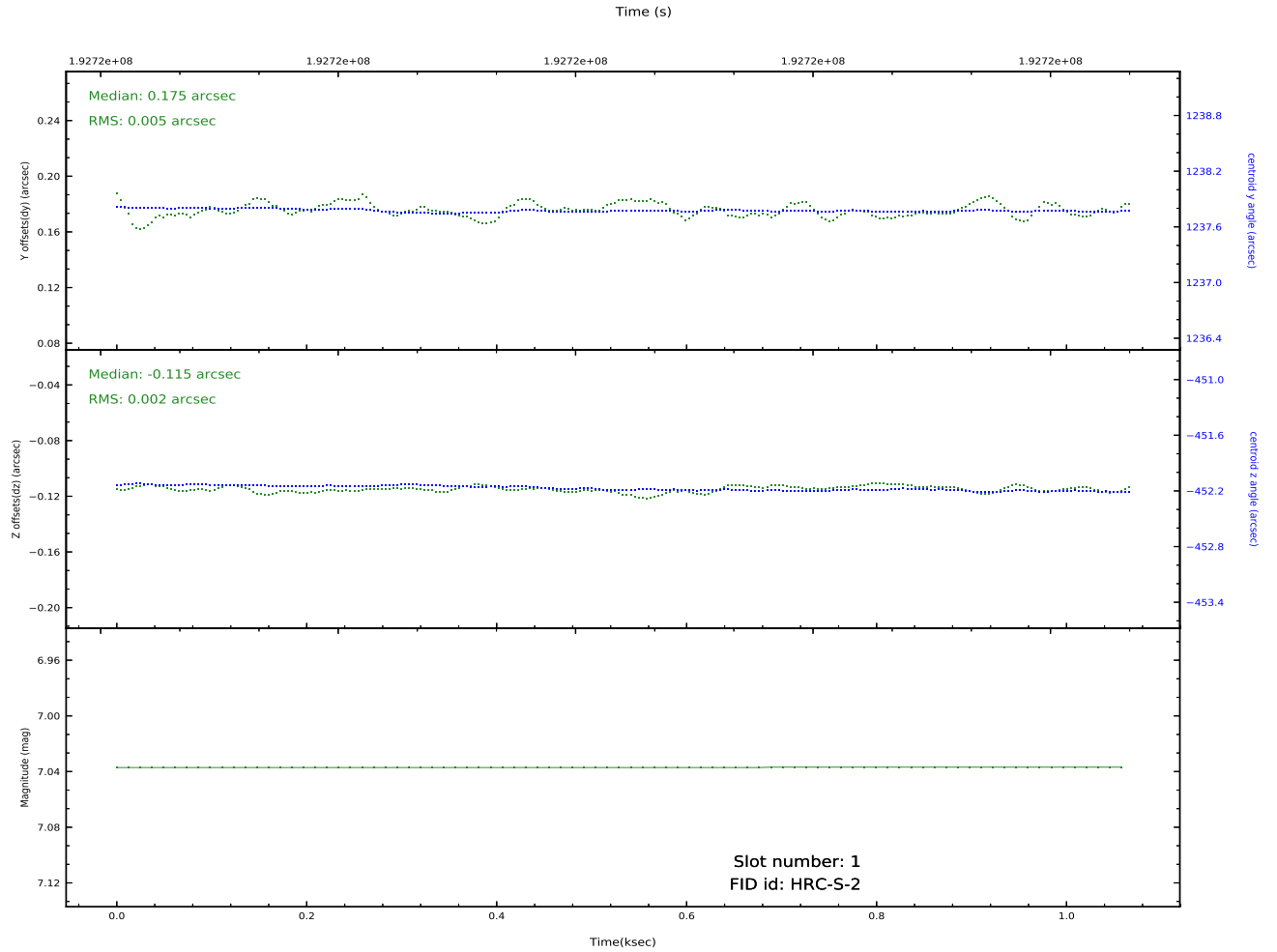
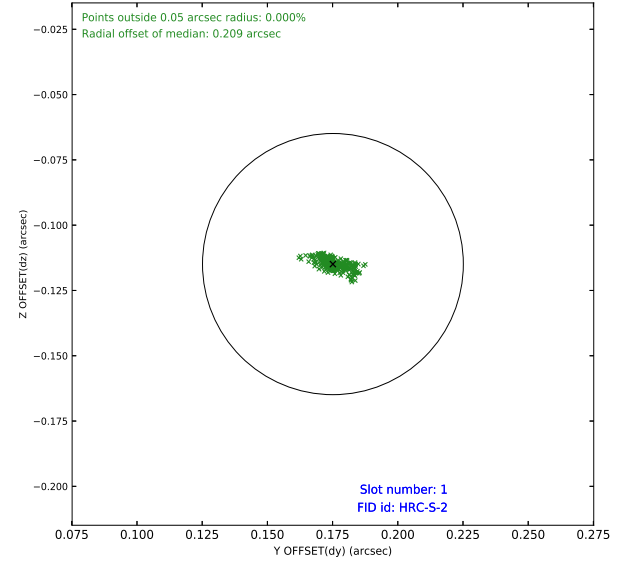
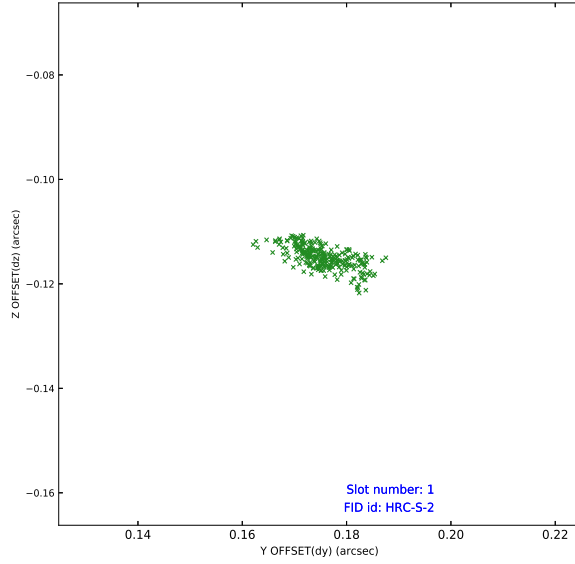


2.5 FID Slots

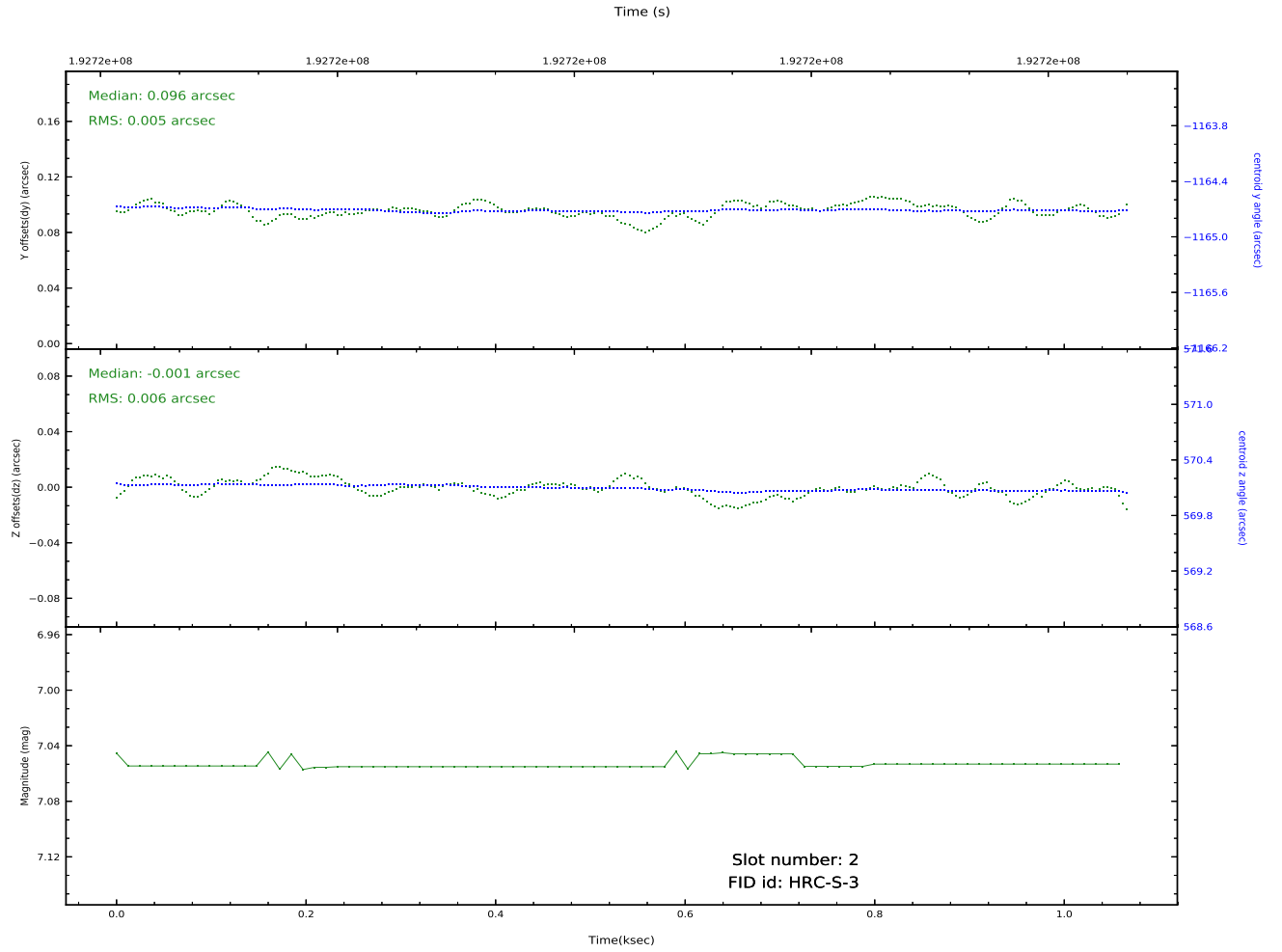
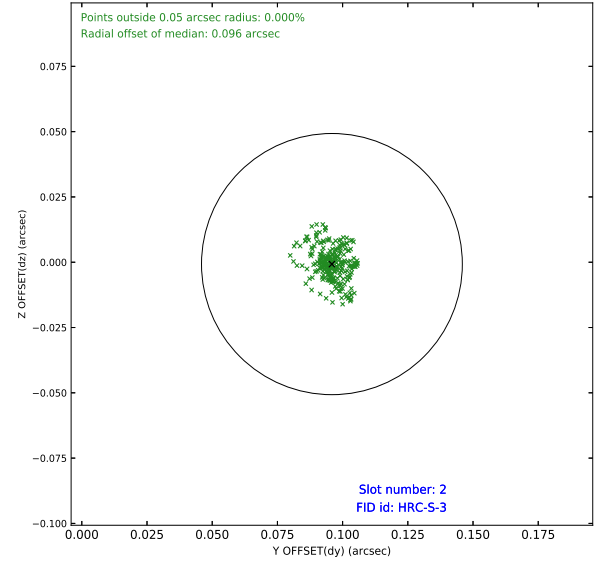
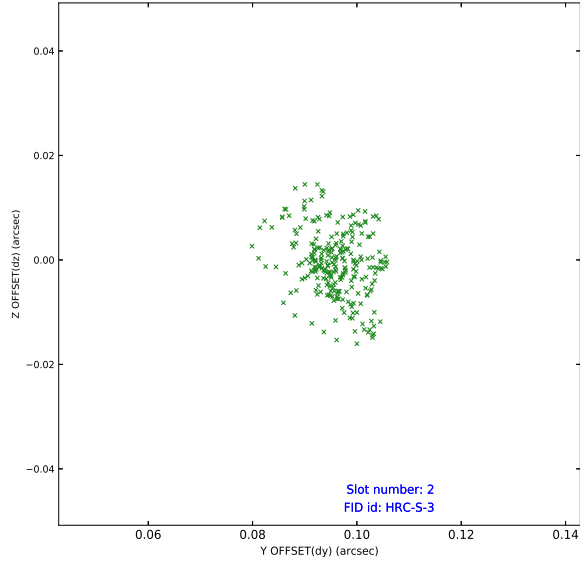
2.5.1 Slot 0



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)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.858

A.2 Comments

Window constraint met.

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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.