

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6010 - L2 Version 4
Chandra X-Ray Center

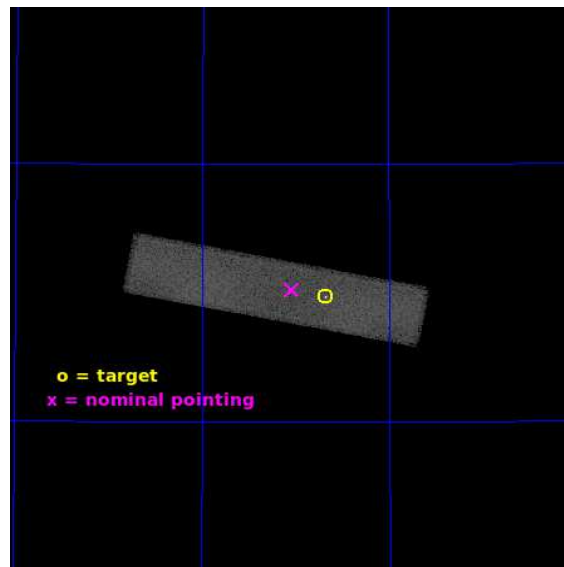
L2 Processing Date : Oct 10 2020

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

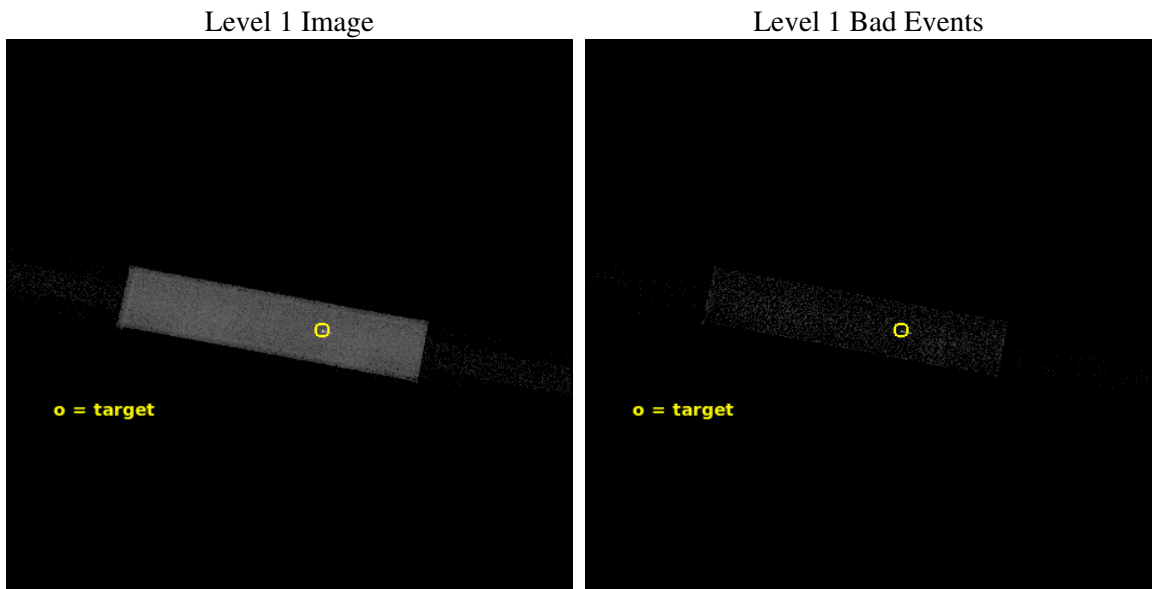
seq_num	290502	Sequence number
obs_id	6010	Observation id
title	AO6B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.25943307132	Nominal RA [deg]
dec_nom	45.756179749634	Nominal Dec [deg]
roll_nom	190.96268392516	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1155.4313030541	[s]
livetime	1143.4955734419	Ontime multiplied by DTCOR
l2events	87645	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	10.9.1	Processing system revision	ontime	1155.4313030541	[s]
caldsver	4.9.2	 	l1events	137279	Number of level 1 events
date	2020-10-10T07:39:26	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

Level 1 Events

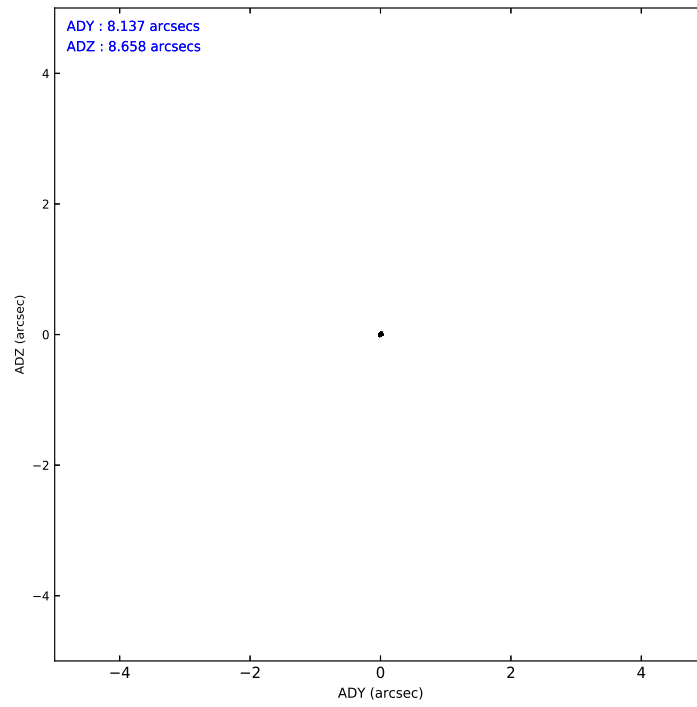
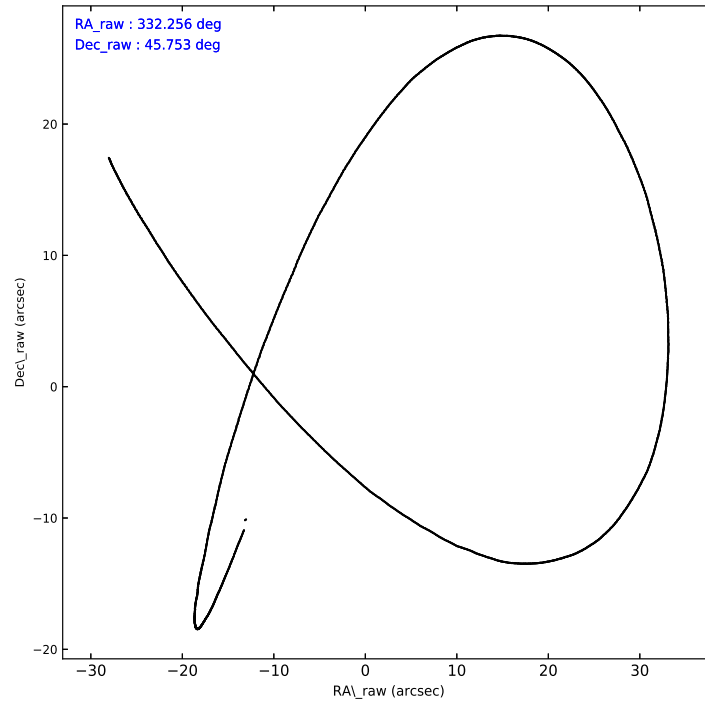
	segment 1	segment 2	segment 3
level 1 events	1335	134681	1263
rejected events	1335	32879	1263
rejected %	100%	24%	100%

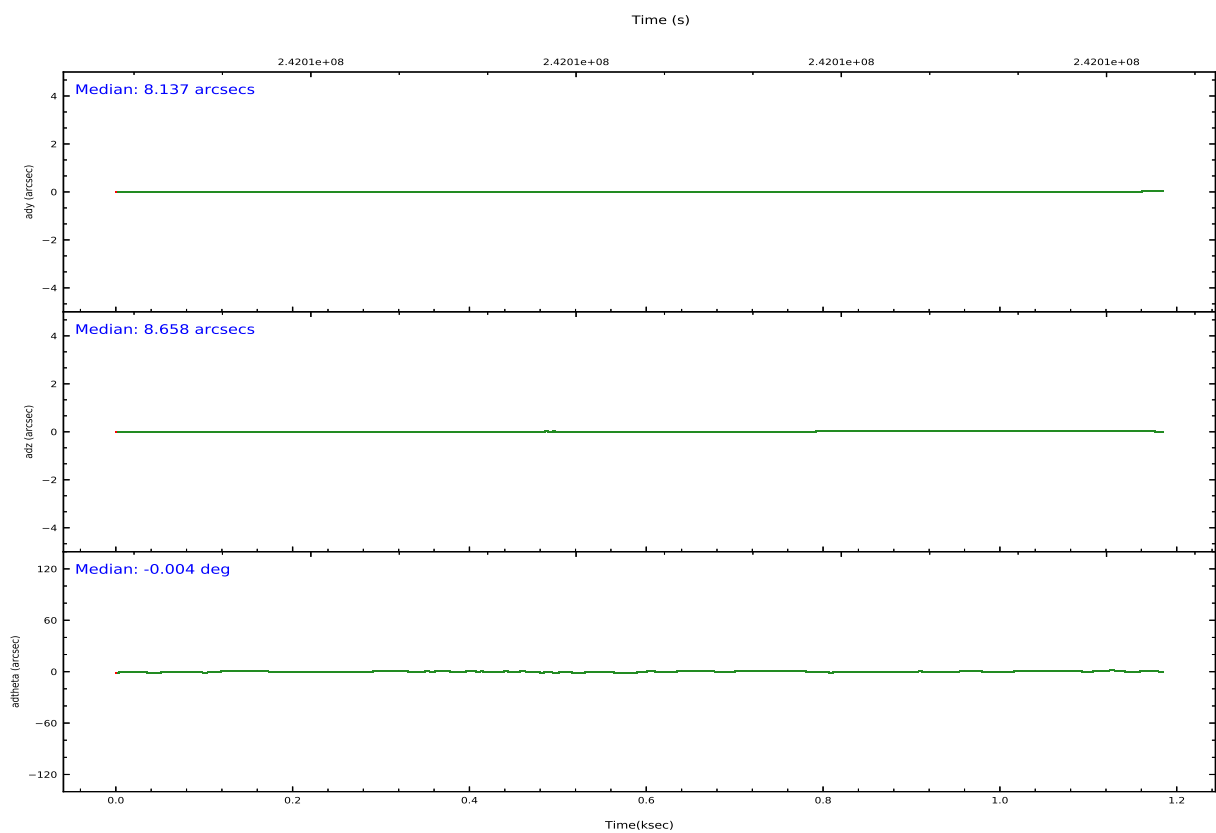
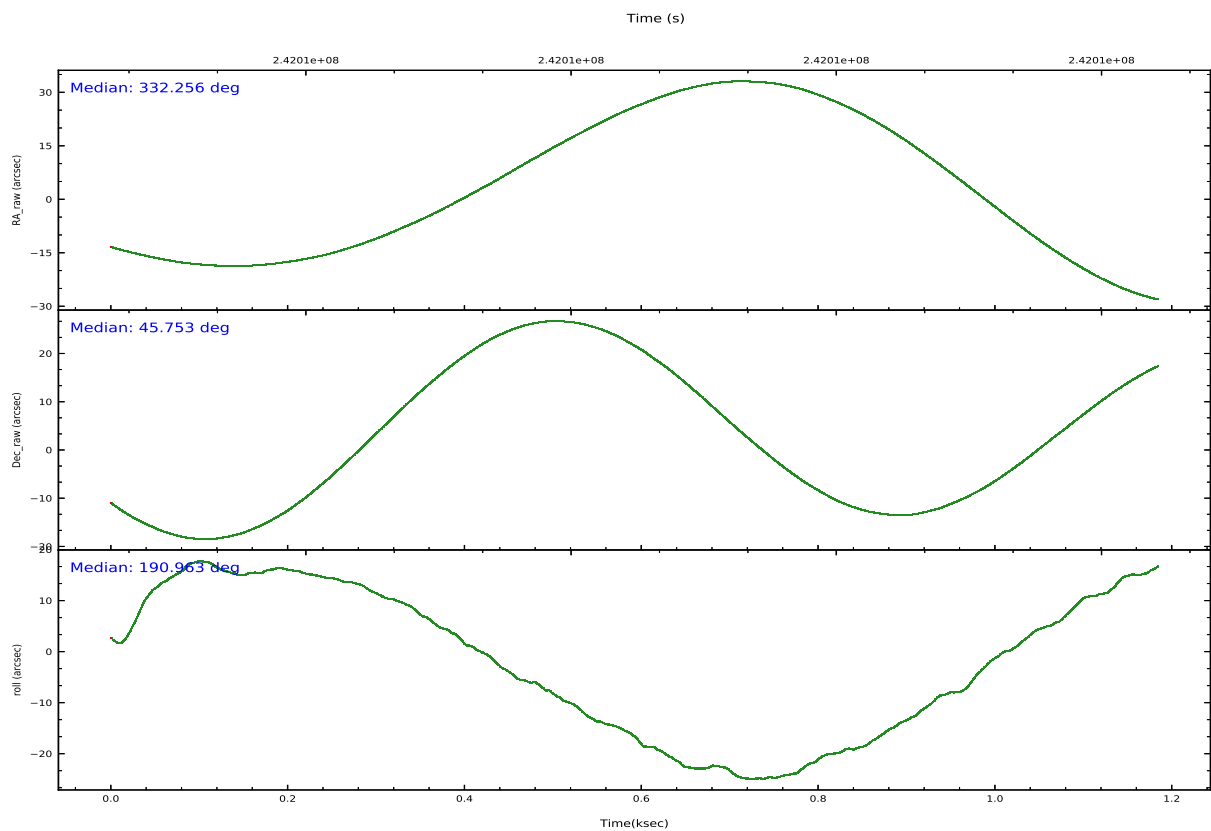
2.2 Compared Parameters

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	332.286783	332.25943307132
[deg] Pointing Dec	45.773971	45.756179749634
[deg] Pointing Roll	190.875121	190.96268392516
[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)	242013364.184000	242012988.08413
Observation start date	2005-09-02T01:55:00	2005-09-02T01:49:48
[s] Observation end time (MET)	242014364.184000	242014498.9342
Observation end date	2005-09-02T02:11:40	2005-09-02T02:14:58

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

2.3 Aspect



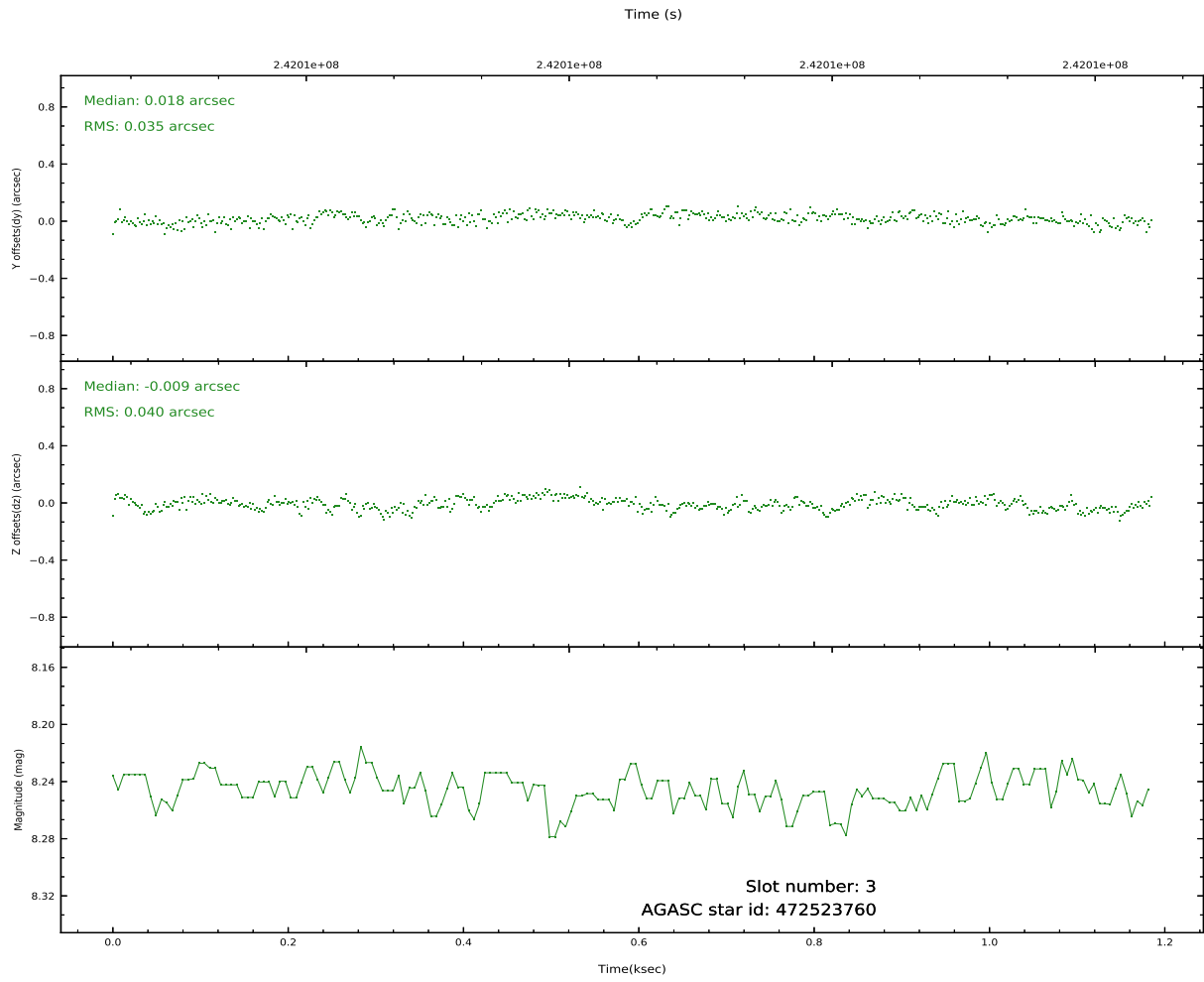
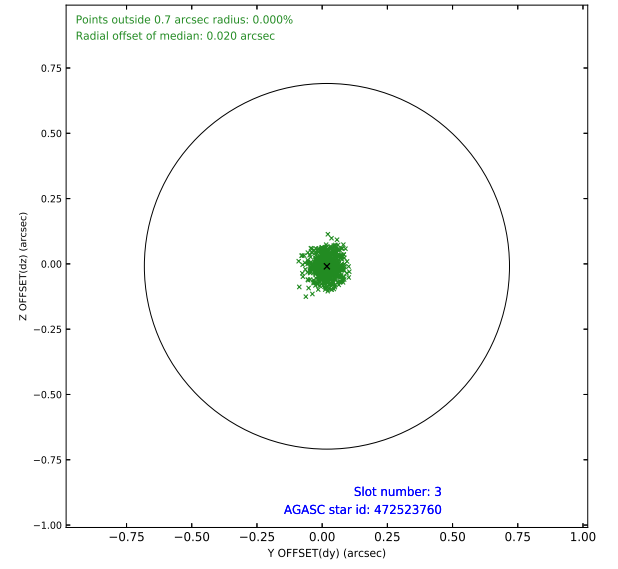
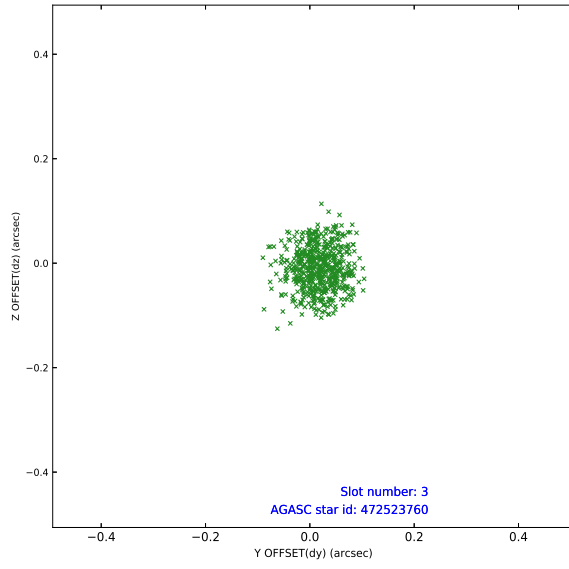


Slot Statistics

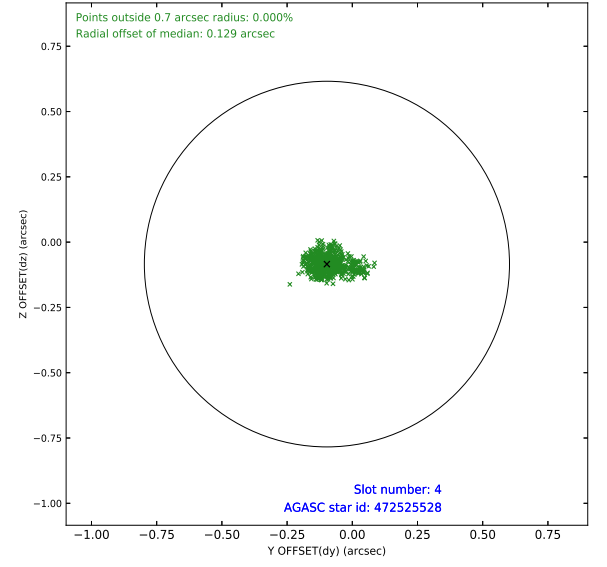
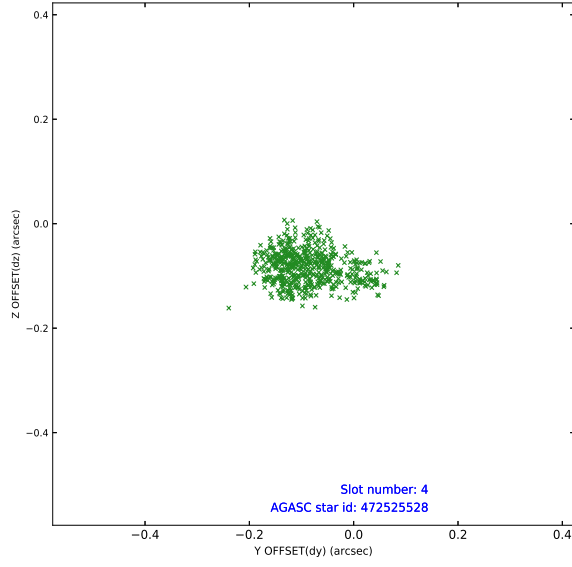
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.04	290	1.000	0.127	-0.167	0.008	0.013	0.000000	0.000000	-1162.31	-457
1	FID		HRC-S-2	7.03	290	1.000	0.171	-0.117	0.005	0.008	0.000000	0.000000	1233.40	-451
2	FID		HRC-S-3	7.04	290	1.000	0.091	-0.018	0.008	0.012	0.000000	0.000000	-1160.83	570
3	GUIDE	used	472523760	8.25	579	1.000	0.018	-0.009	0.058	0.089	331.645363	45.403260	1841.51	995
4	GUIDE	used	472525528	6.64	579	1.000	-0.097	-0.084	0.065	0.126	331.551102	45.248694	2187.93	1495
5	GUIDE	used	472533912	9.16	579	1.000	0.011	-0.017	0.105	0.172	331.791136	46.368695	807.31	-2338
6	GUIDE	used	472535576	7.87	579	1.000	-0.133	0.092	0.065	0.104	331.438373	46.291802	1719.06	-2246
7	GUIDE	used	472665256	9.00	578	1.000	0.191	0.017	0.076	0.111	332.808125	46.195041	-1560.51	-1254

2.4 Star Slots

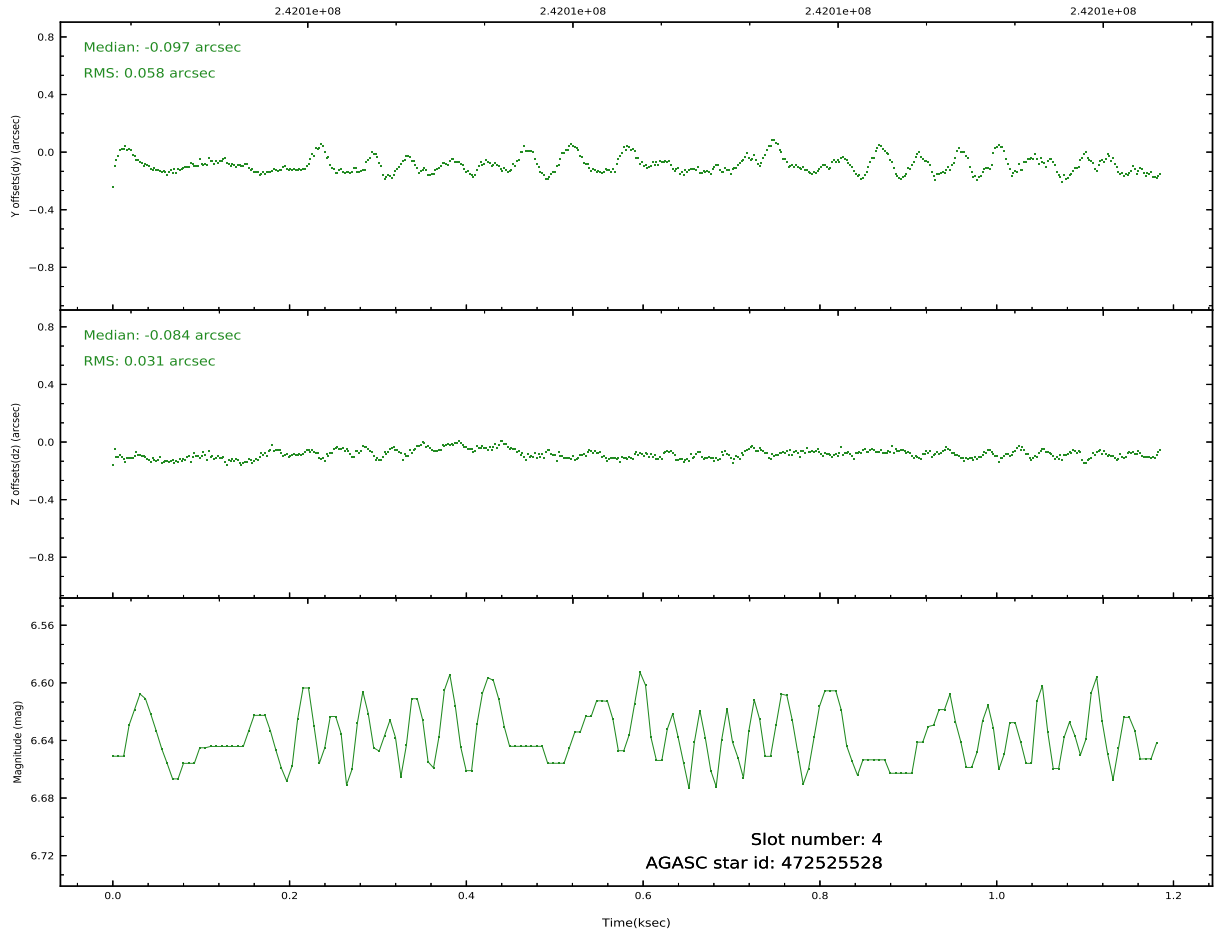
2.4.1 Slot 3



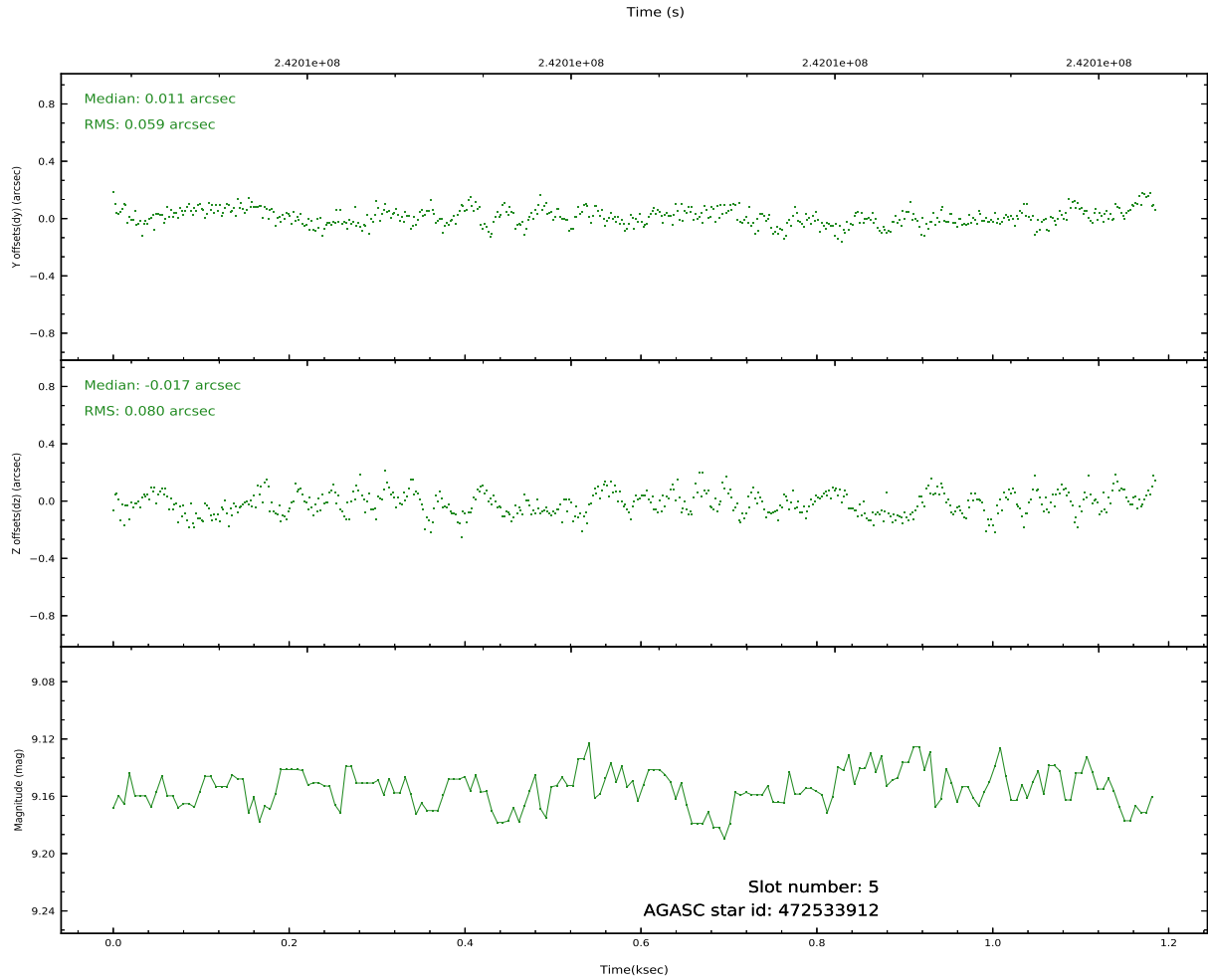
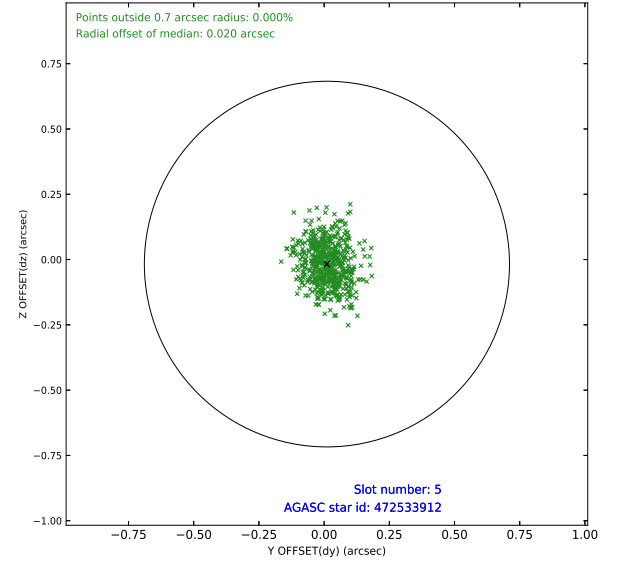
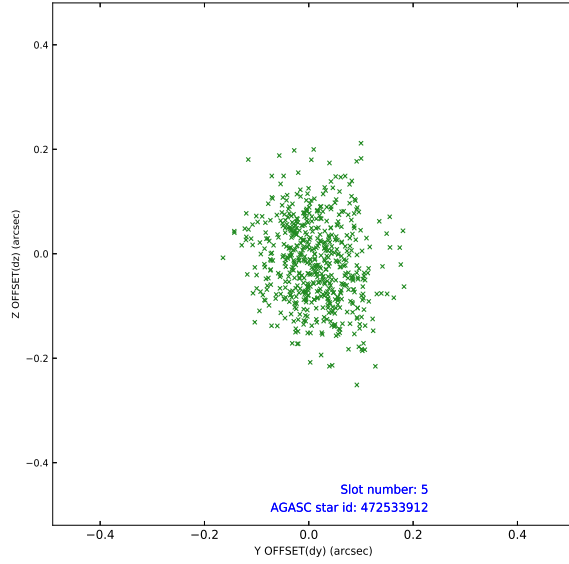
2.4.2 Slot 4



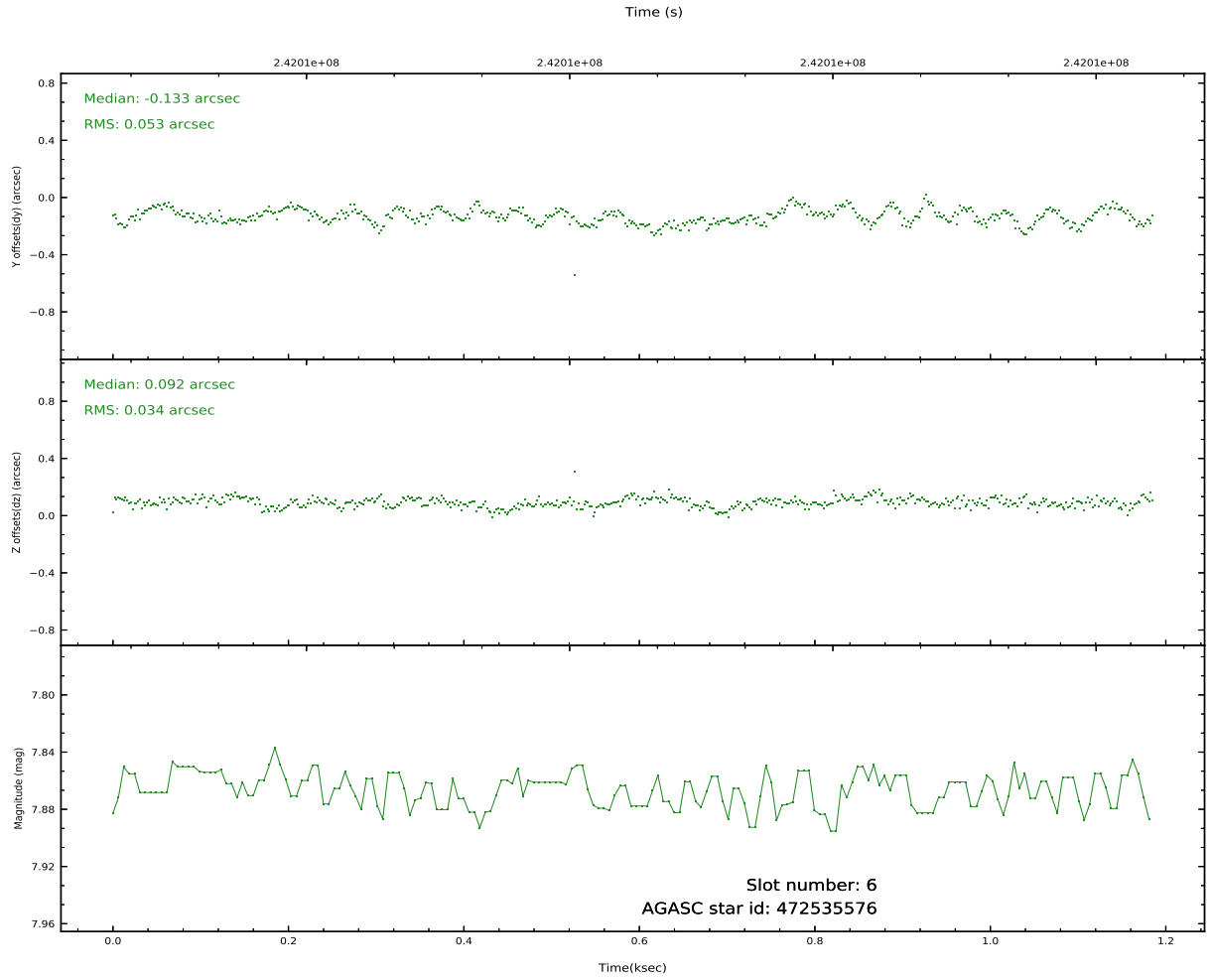
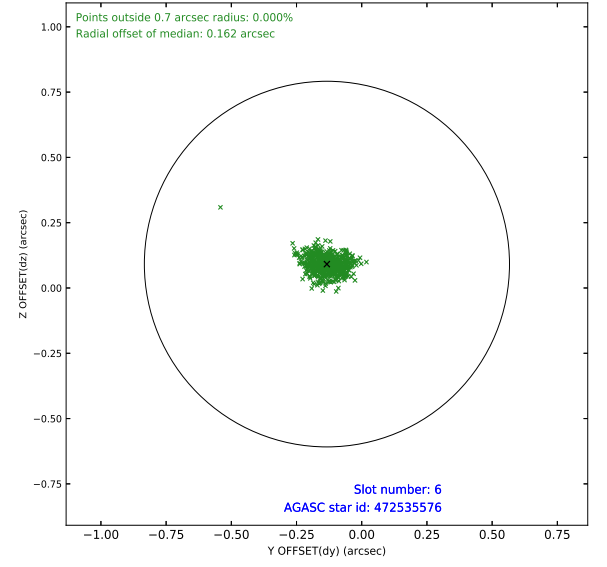
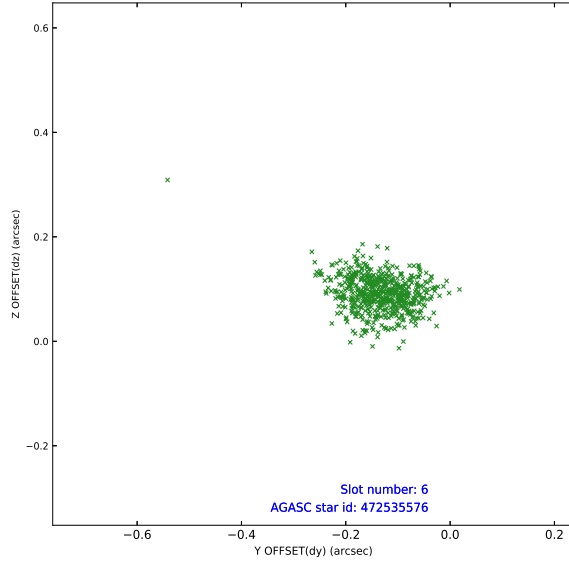
Time (s)



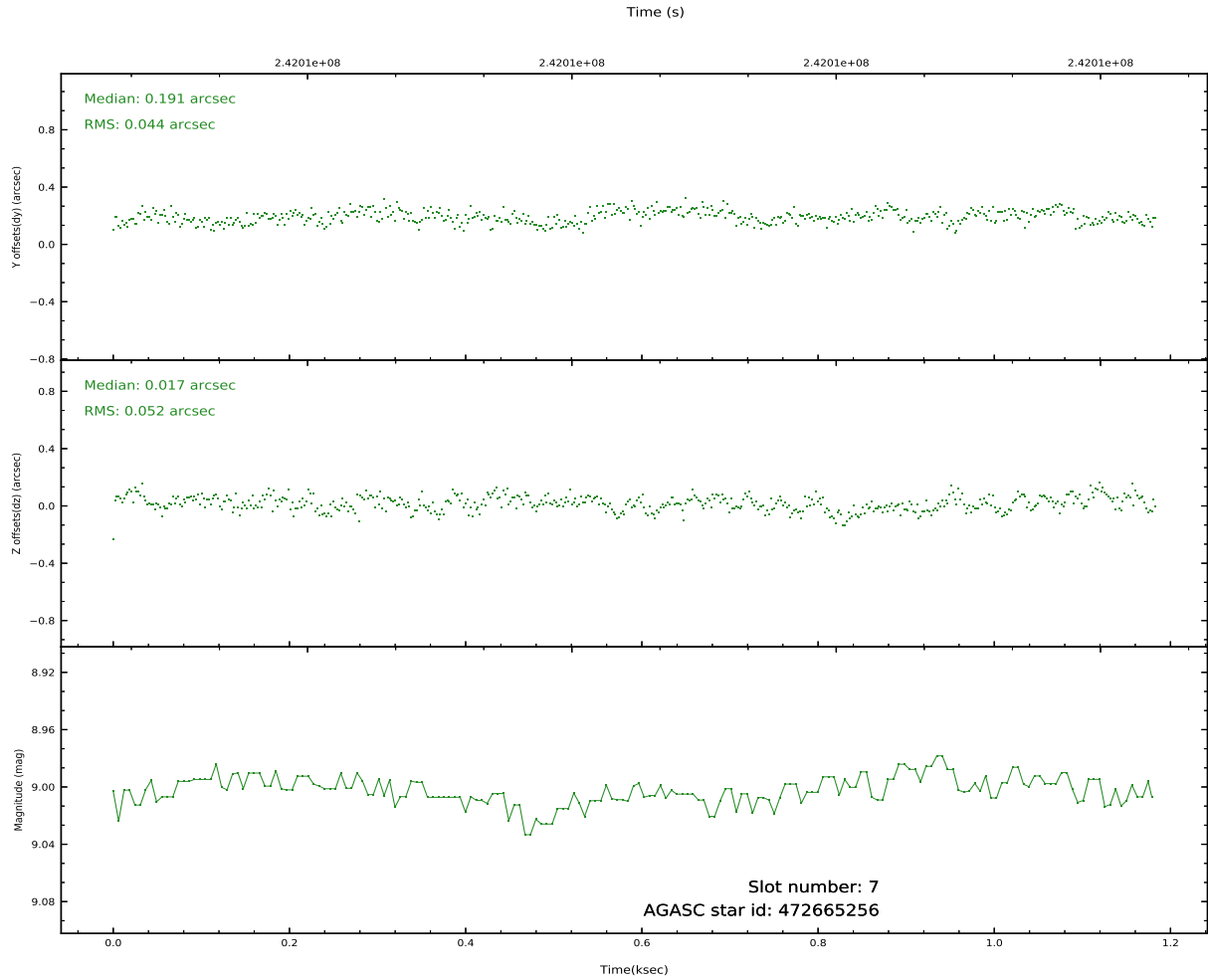
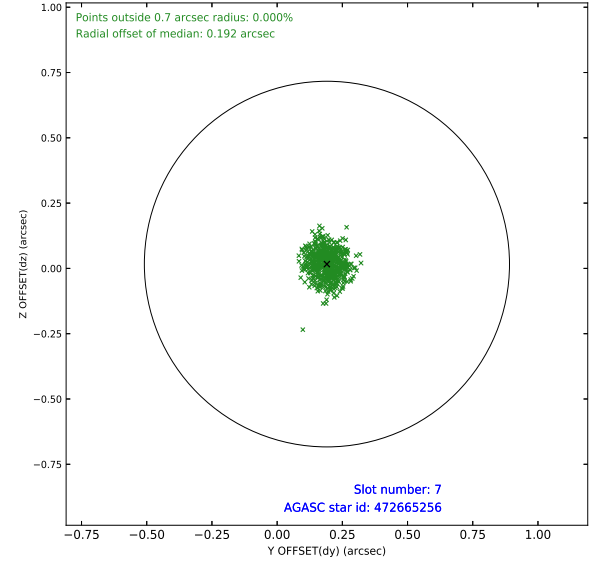
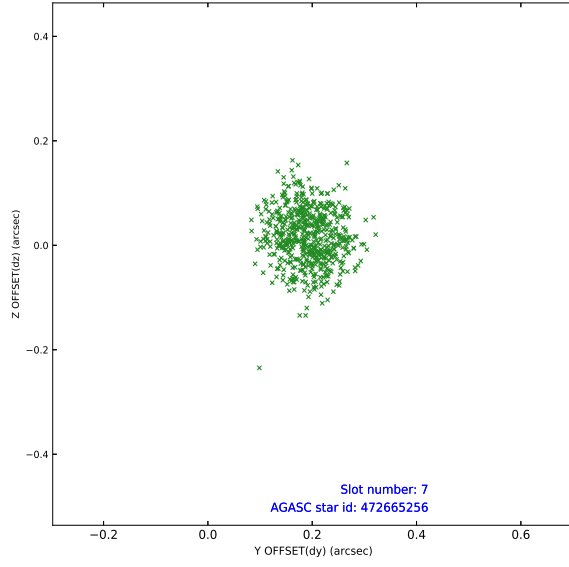
2.4.3 Slot 5



2.4.4 Slot 6

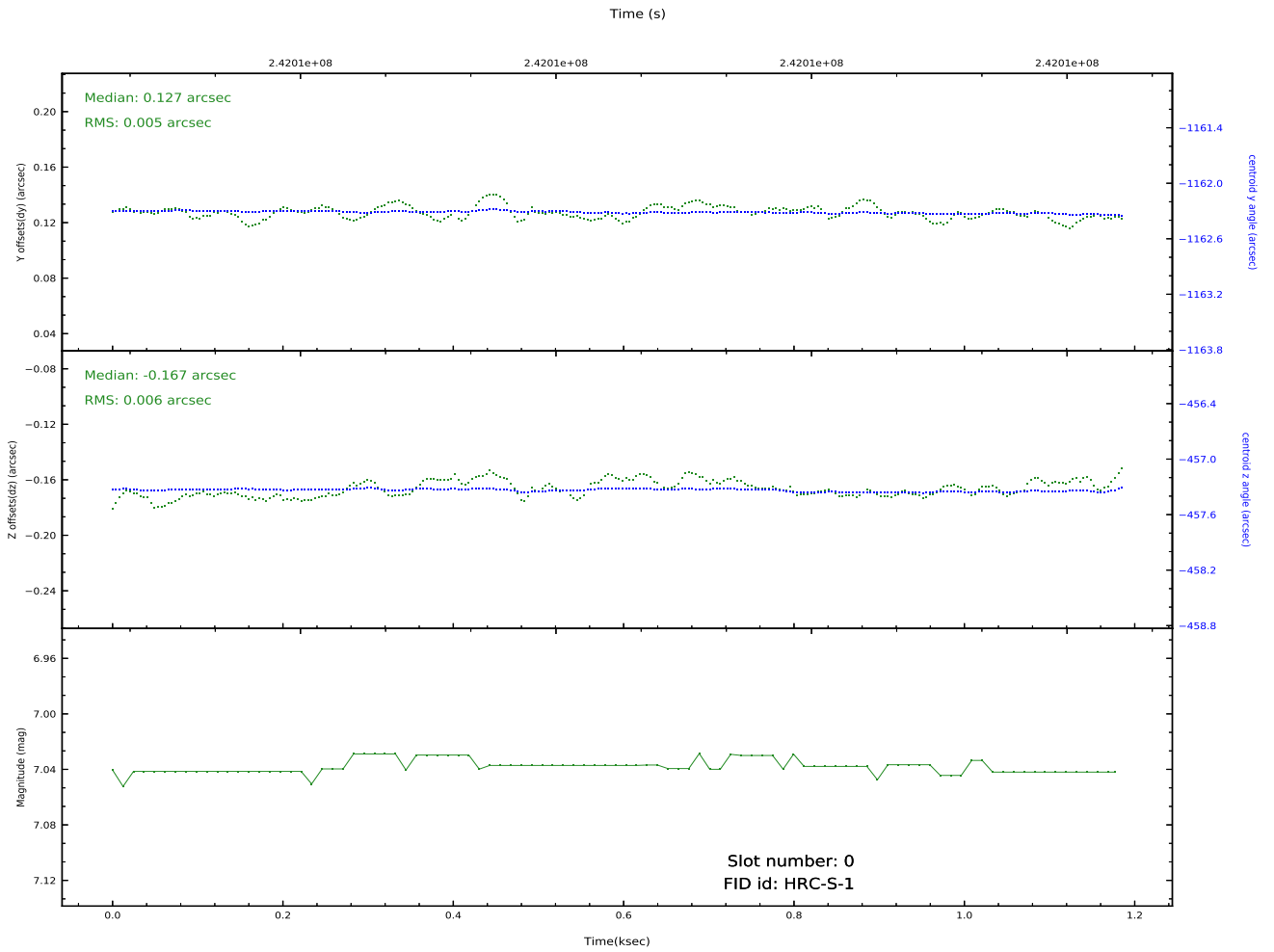
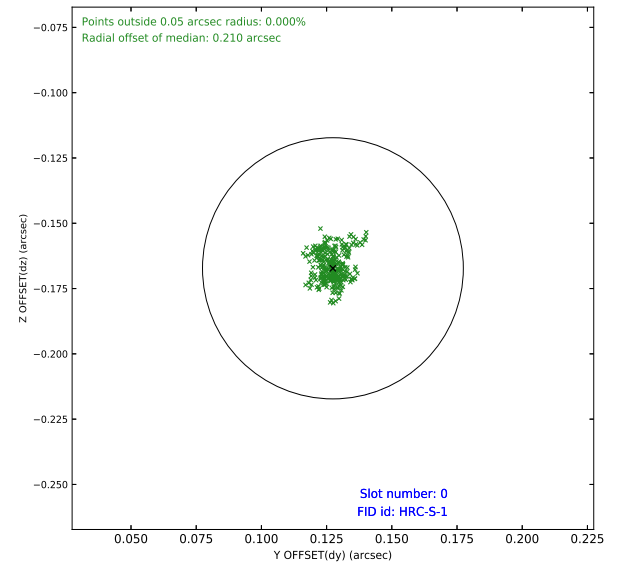
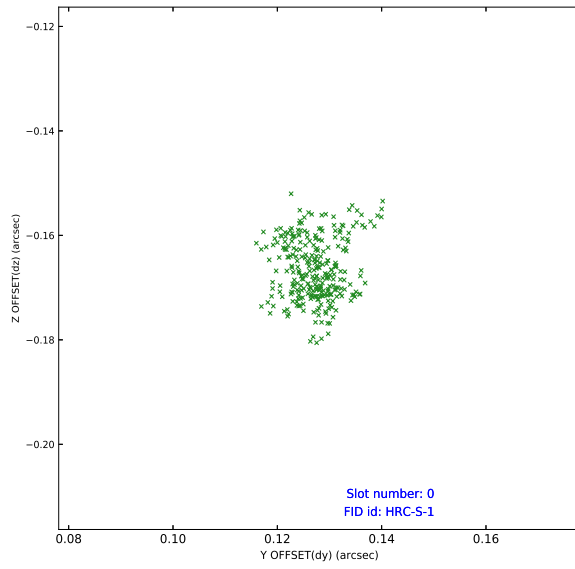


2.4.5 Slot 7

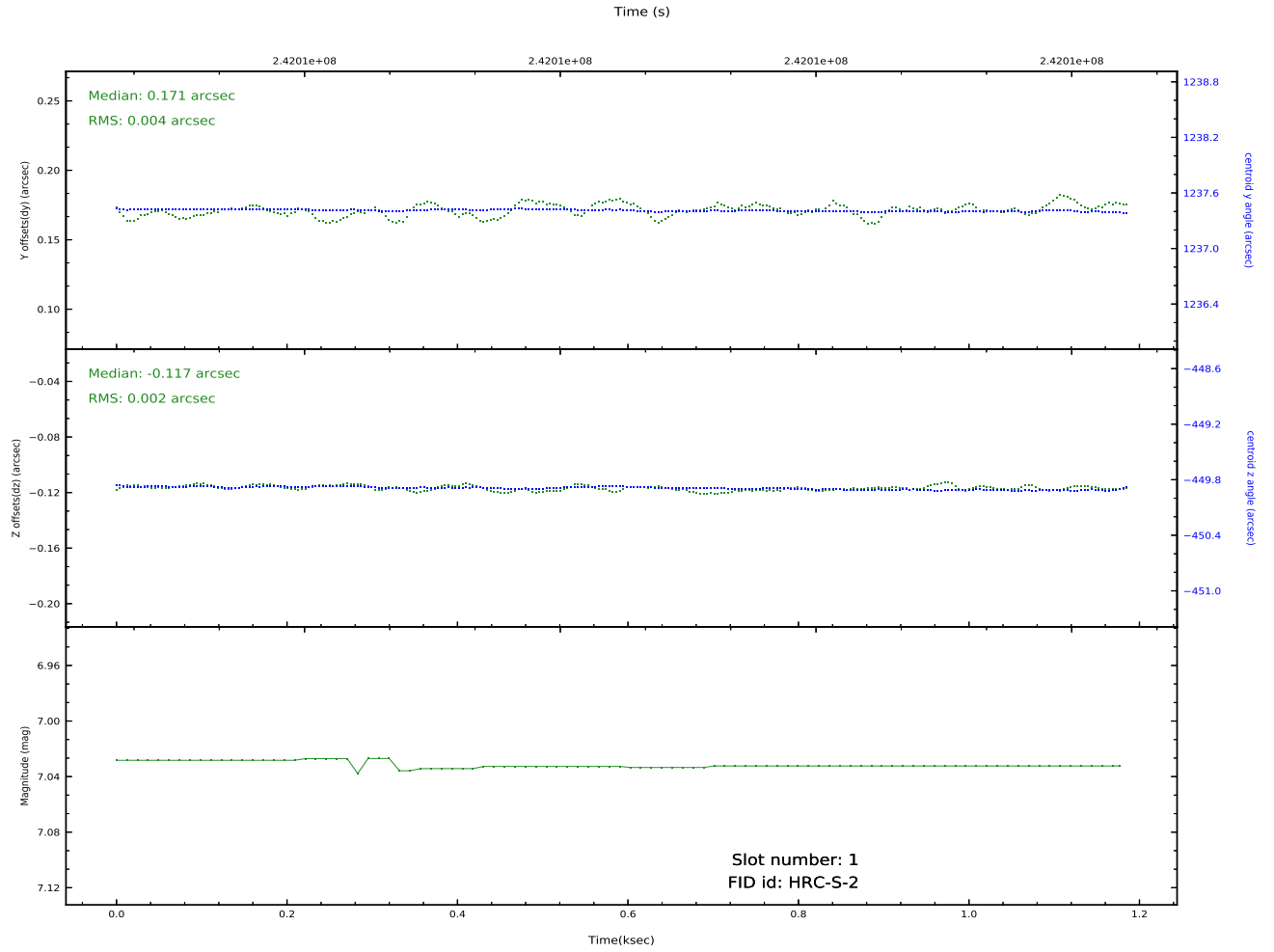
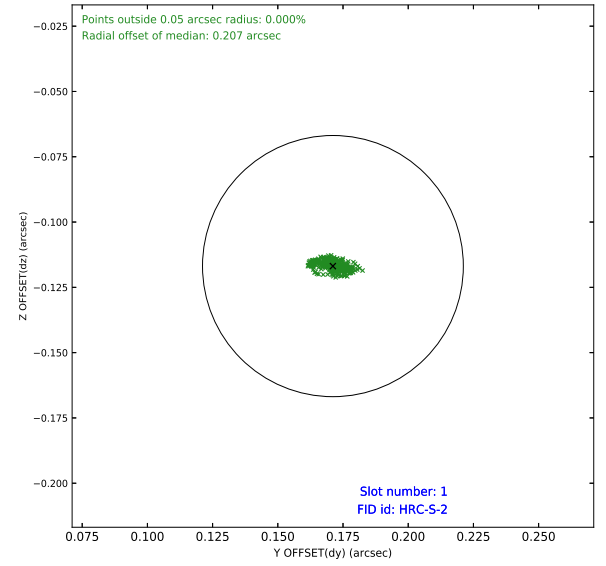
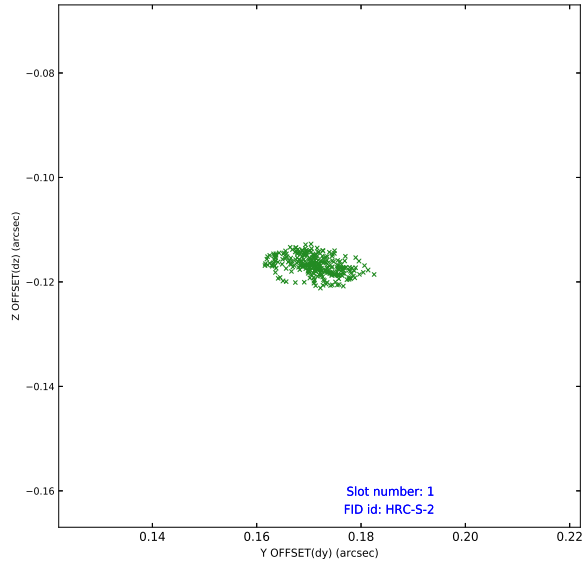


2.5 FID Slots

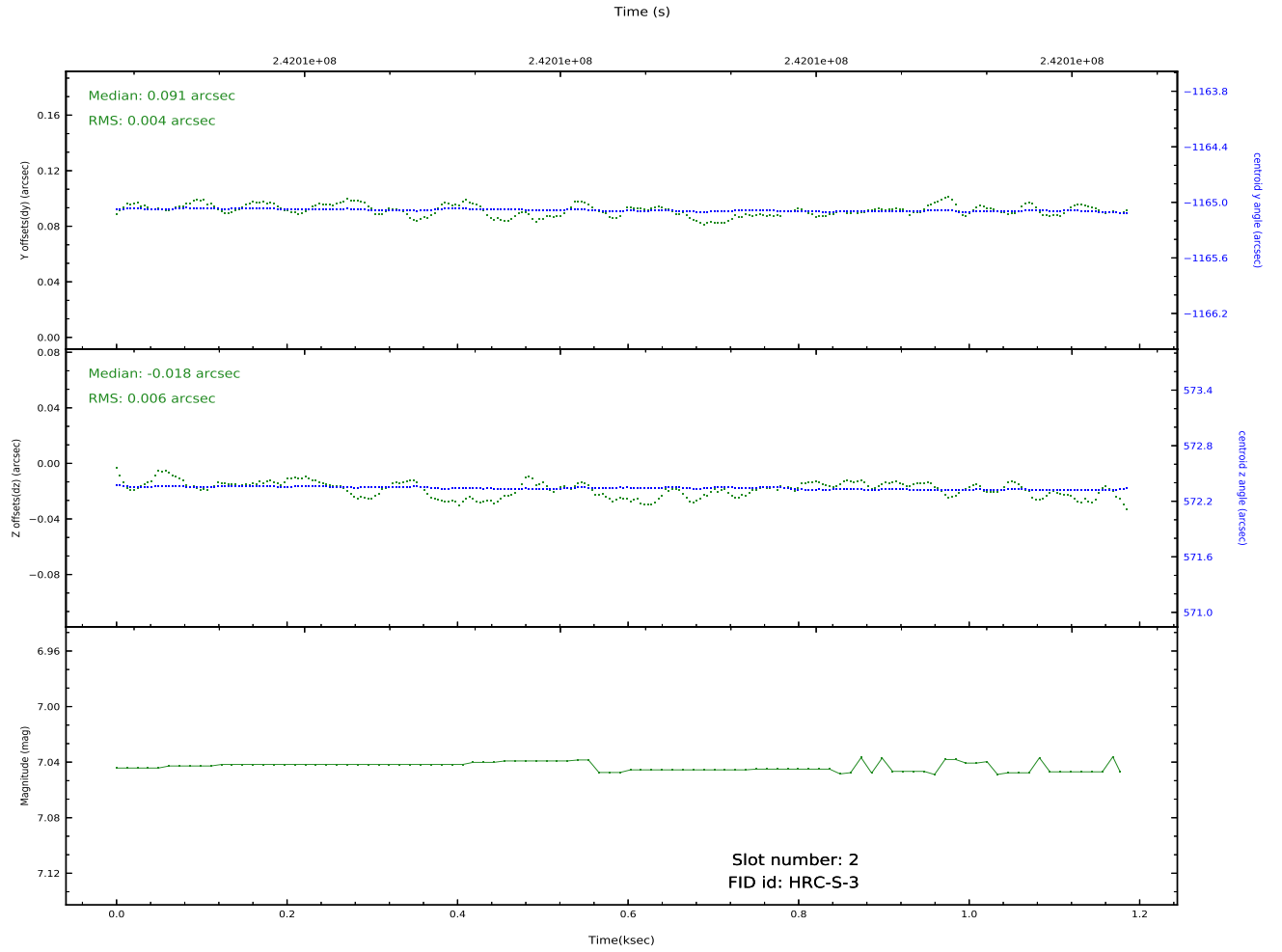
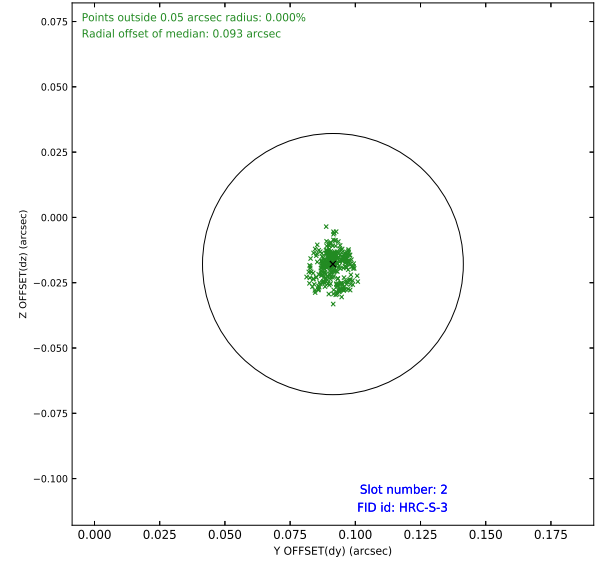
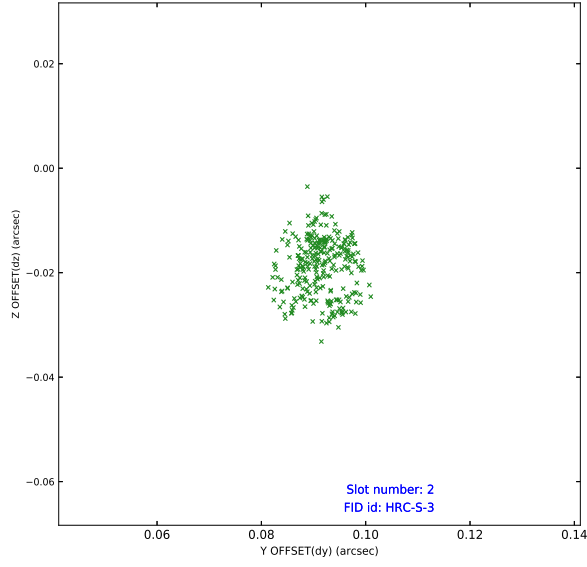
2.5.1 Slot 0



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)	2020.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.155431

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.