

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5115 - L2 Version 4
Chandra X-Ray Center

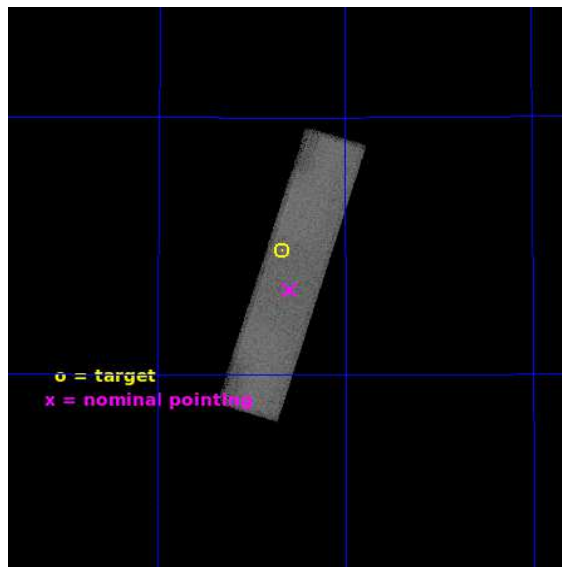
L2 Processing Date : Oct 5 2020

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1 Front

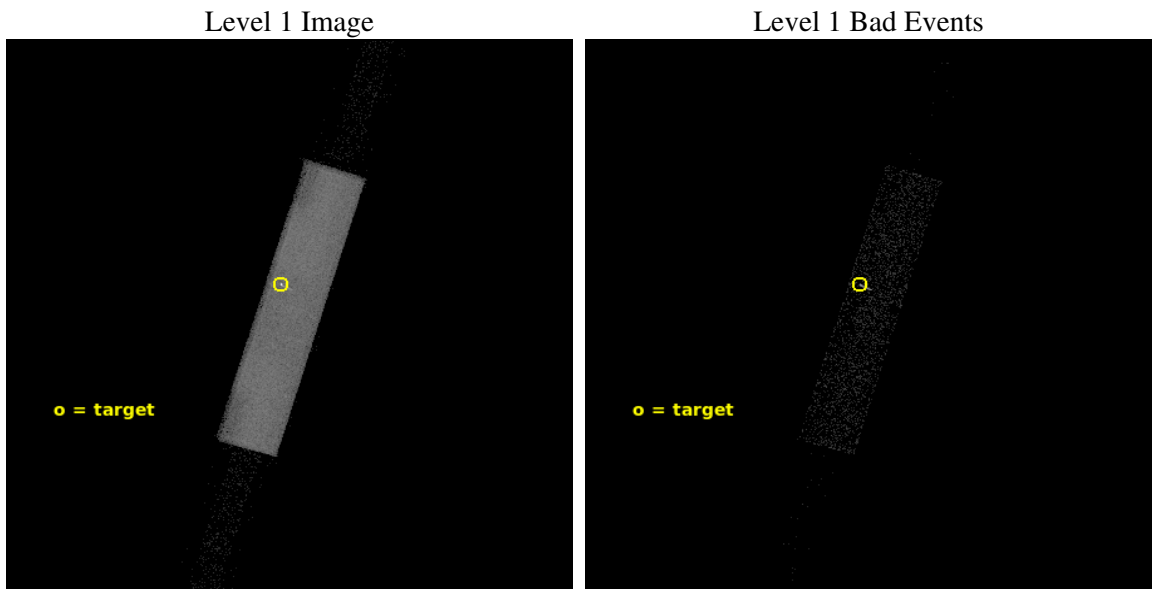
seq_num	290388	Sequence number
obs_id	5115	Observation id
title	AO5B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.14809228339	Nominal RA [deg]
dec_nom	45.665306520724	Nominal Dec [deg]
roll_nom	287.0582099466	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1050.8812972307	[s]
livetime	922.35897190716	Ontime multiplied by DTCOR
l2events	135176	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	1050.8812972307	[s]
caldbver	4.9.2	 	l1events	188992	Number of level 1 events
date	2020-10-05T08:03:05	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

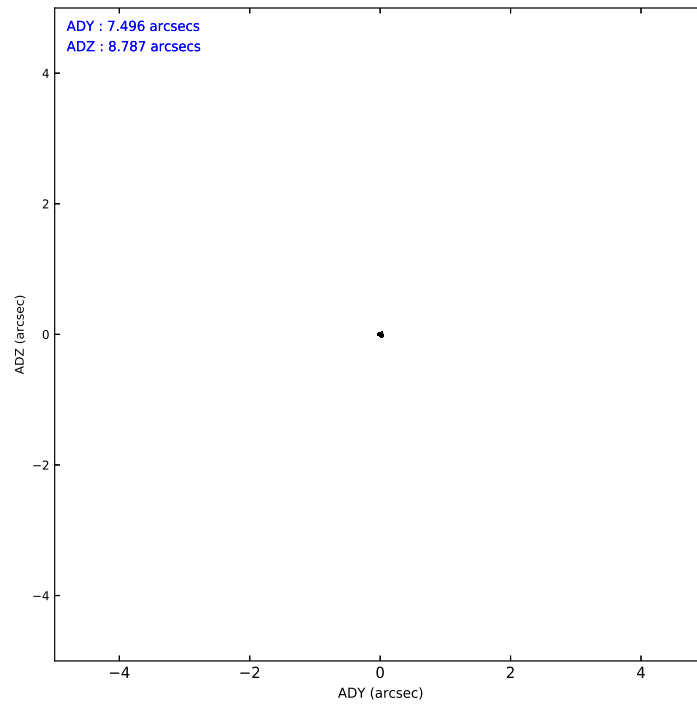
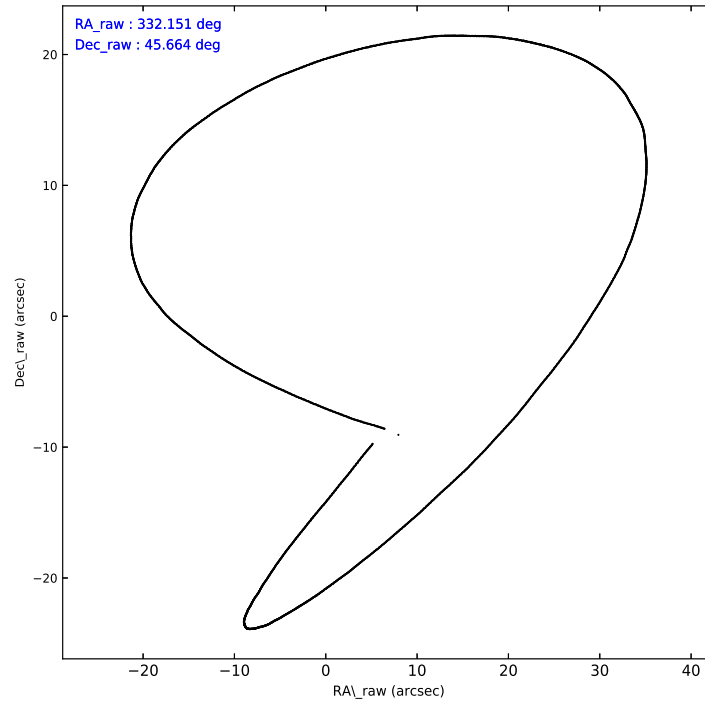
Level 1 Events

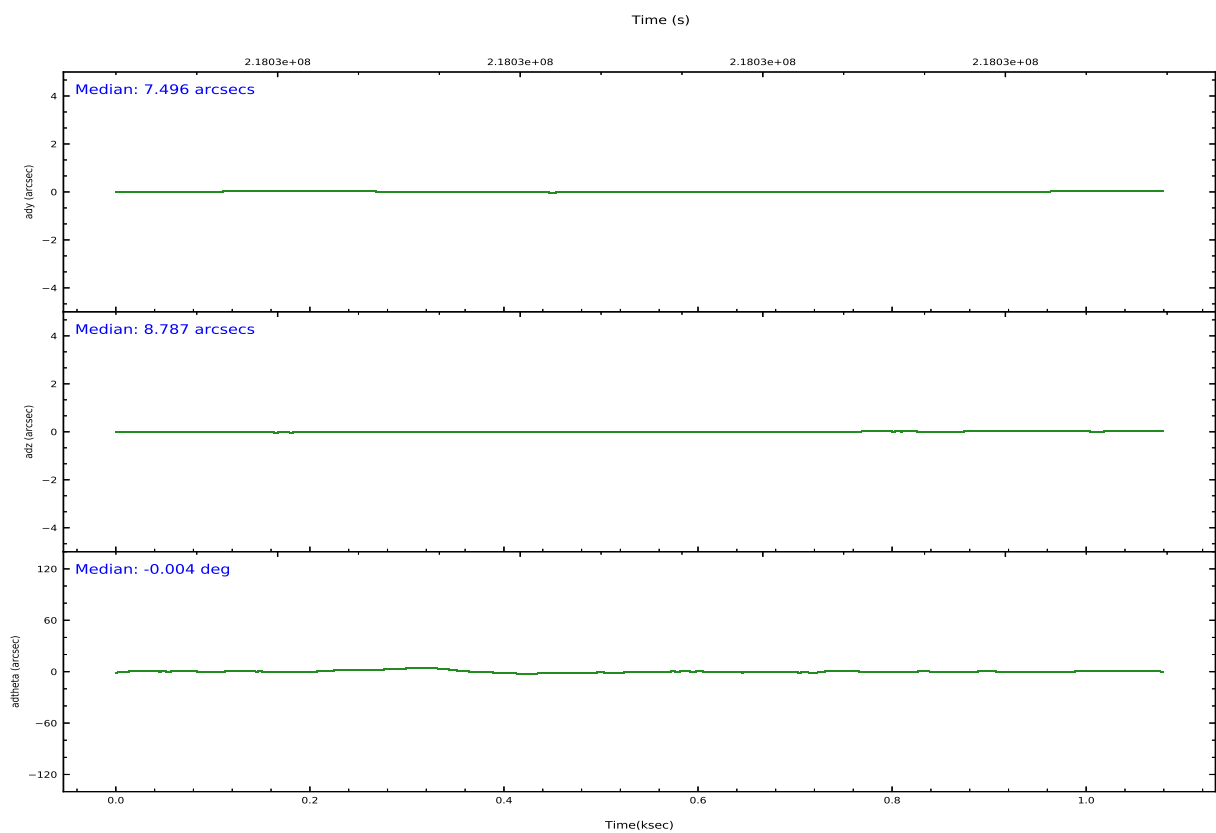
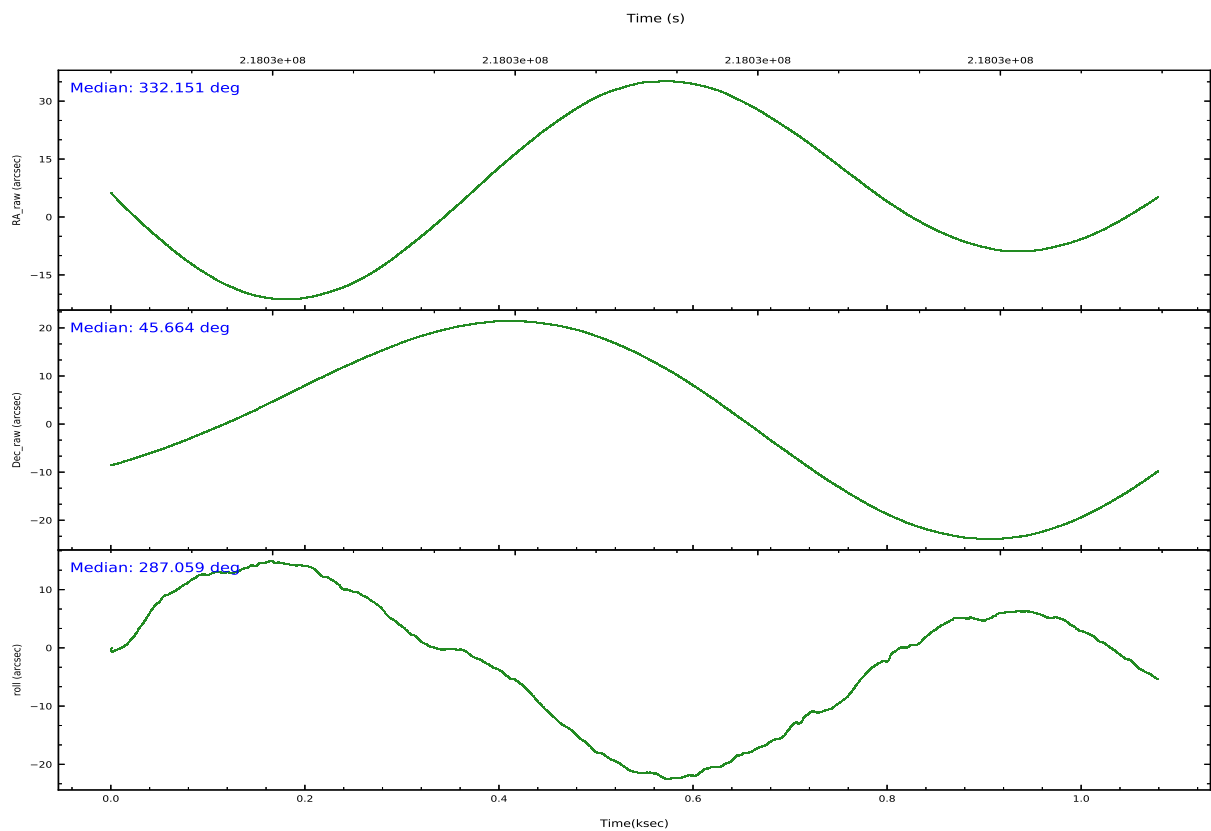
	segment 1	segment 2	segment 3
level 1 events	776	187420	796
rejected events	776	39106	796
rejected %	100%	20%	100%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar version number	8	8
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.122713	332.14809228339			
[deg] Pointing Dec	45.682714	45.665306520724			
[deg] Pointing Roll	287.016843	287.0582099466			
[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)	218027013.184000	218026637.06905			
Observation start date	2004-11-28T11:02:29	2004-11-28T10:57:17			
[s] Observation end time (MET)	218027913.184000	218028046.95662			
Observation end date	2004-11-28T11:17:29	2004-11-28T11:20:46			

2.3 Aspect



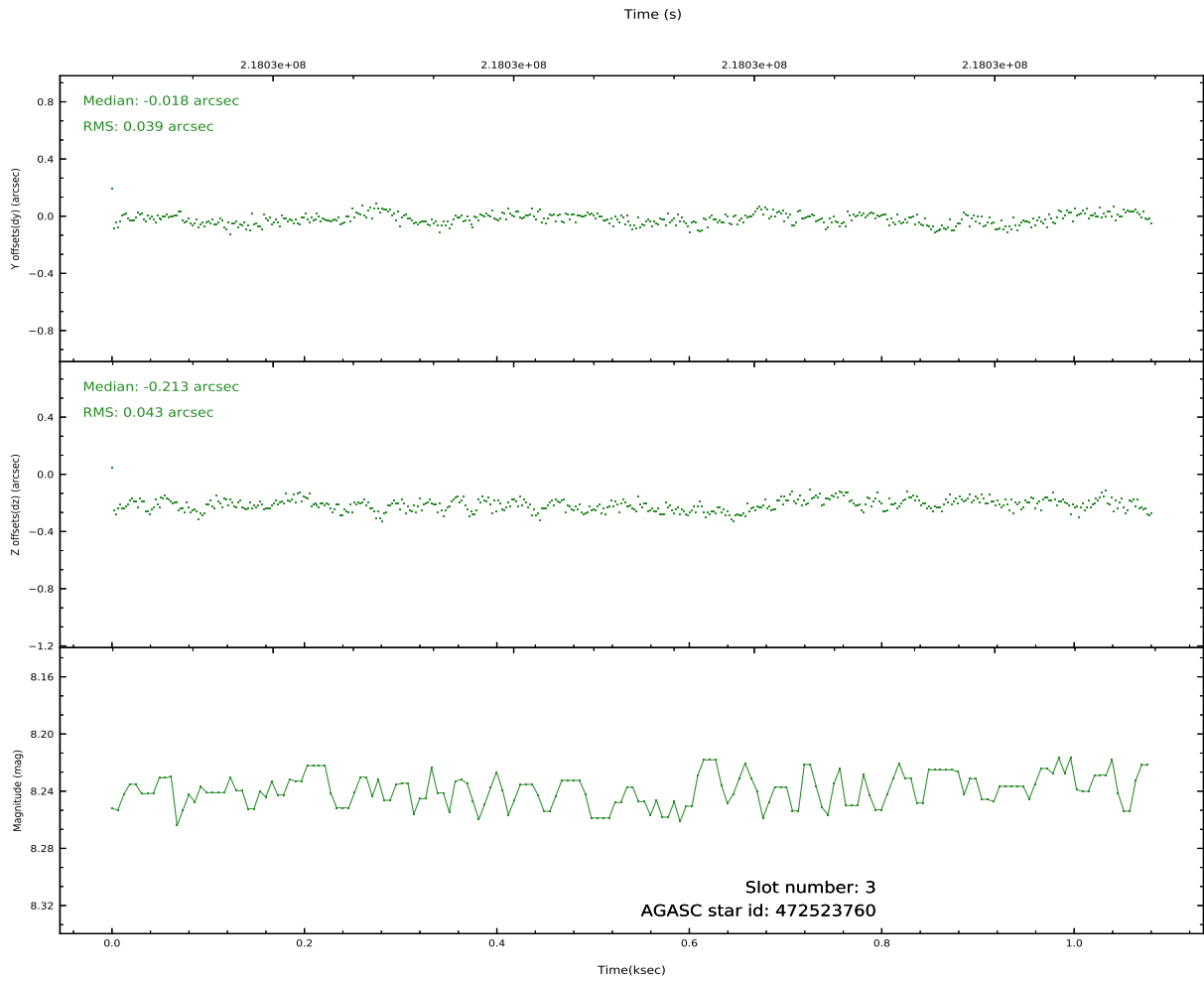
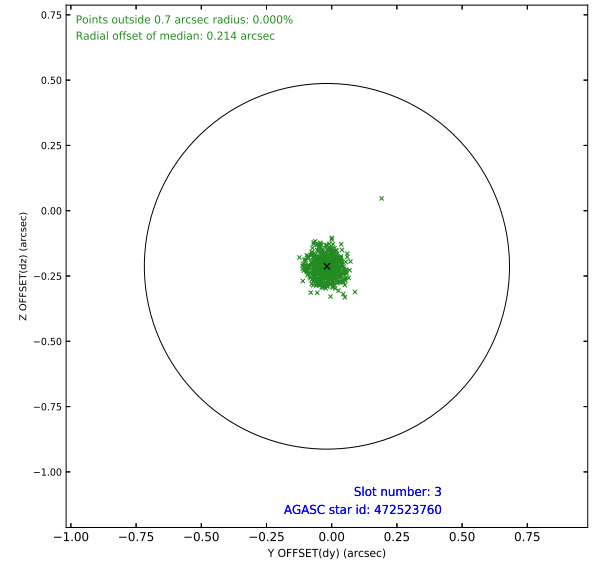
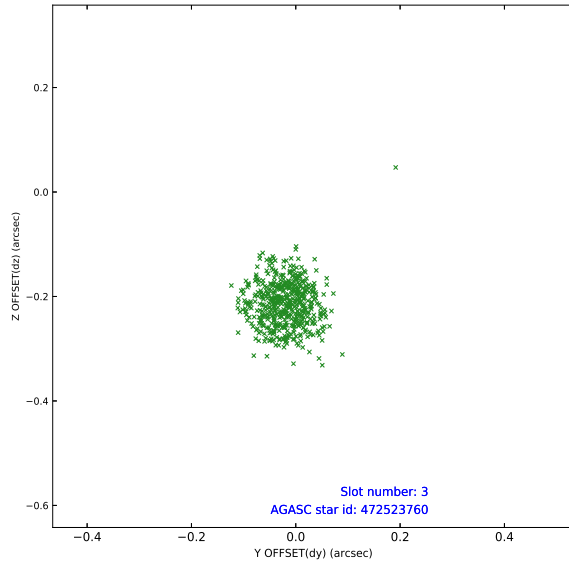


Slot Statistics

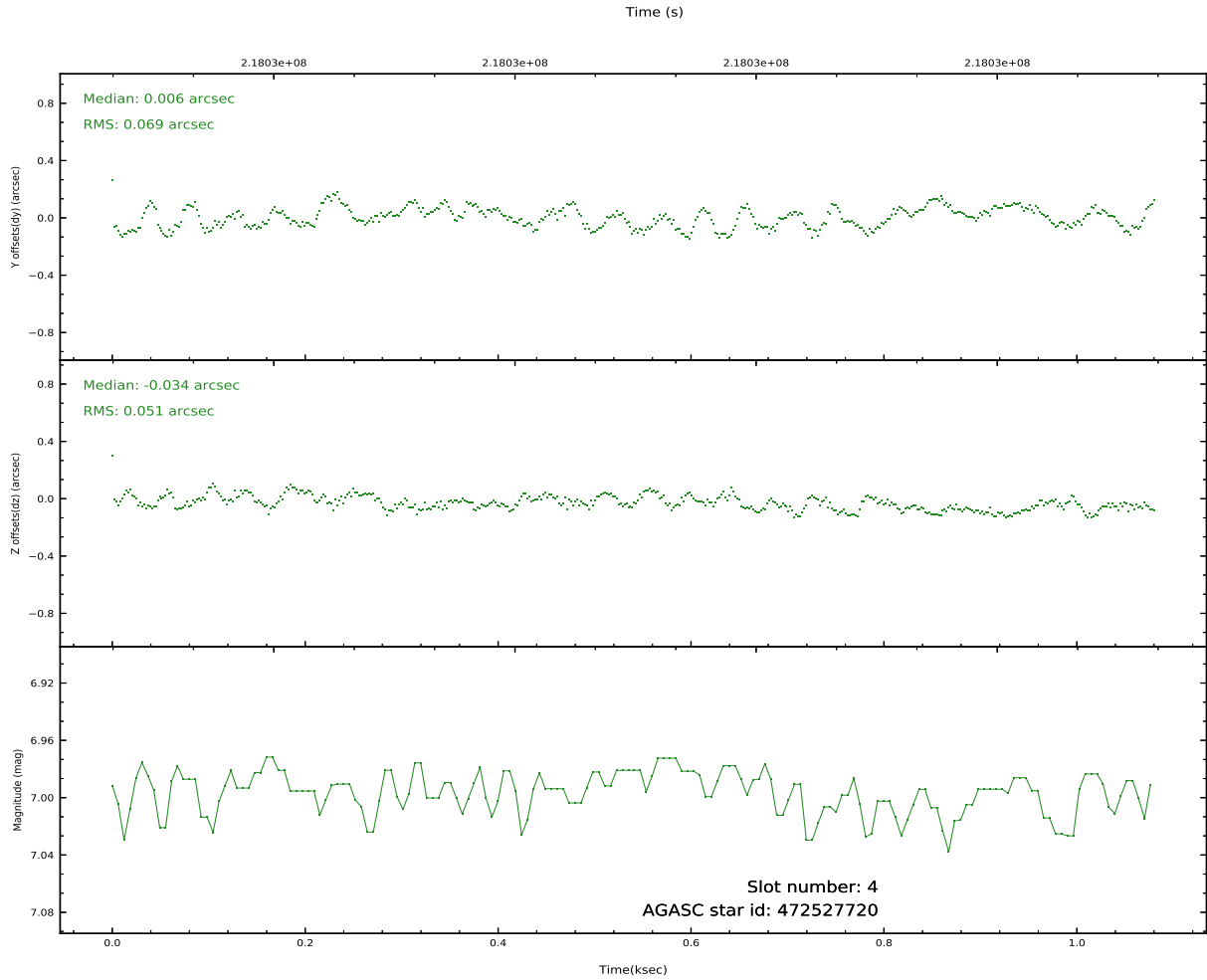
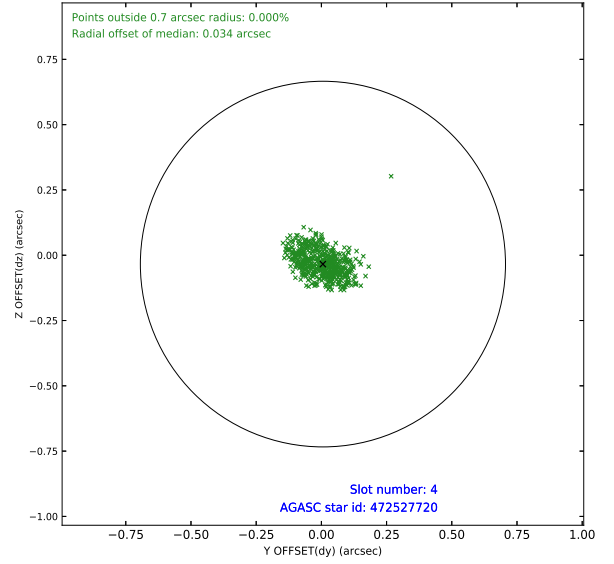
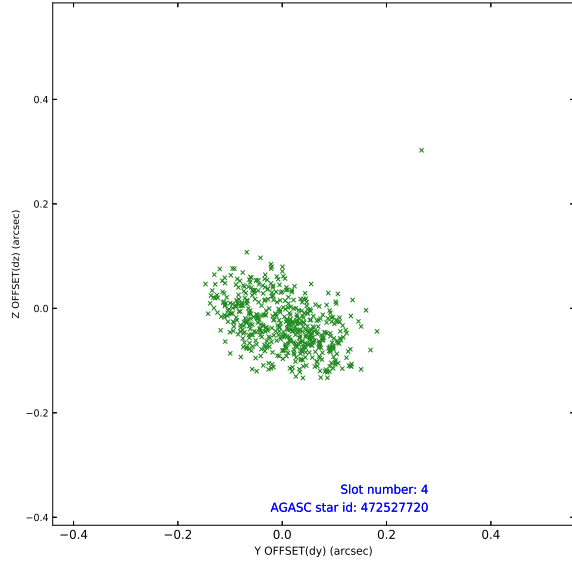
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.04	264	1.000	0.112	-0.161	0.012	0.042	0.000000	0.000000	-1161.68	-457
1	FID		HRC-S-2	7.03	264	1.000	0.192	-0.120	0.006	0.022	0.000000	0.000000	1233.68	-451
2	FID		HRC-S-3	7.04	264	1.000	0.085	-0.021	0.012	0.060	0.000000	0.000000	-1159.76	570
3	GUIDE	used	472523760	8.24	528	1.000	-0.018	-0.213	0.061	0.090	331.645363	45.403260	606.09	-1443
4	GUIDE	used	472527720	6.99	528	1.000	0.006	-0.034	0.093	0.143	331.460205	45.112509	1465.62	-2206
5	GUIDE	used	472654568	9.44	528	1.000	0.059	0.077	0.106	0.162	332.194449	45.063576	2188.04	-477
6	GUIDE	used	472655152	9.44	528	1.000	0.026	0.129	0.095	0.145	332.504239	45.862991	-338.39	1108
7	GUIDE	used	472659832	9.47	525	1.000	-0.064	0.053	0.102	0.179	332.780399	46.098139	-956.69	2015

2.4 Star Slots

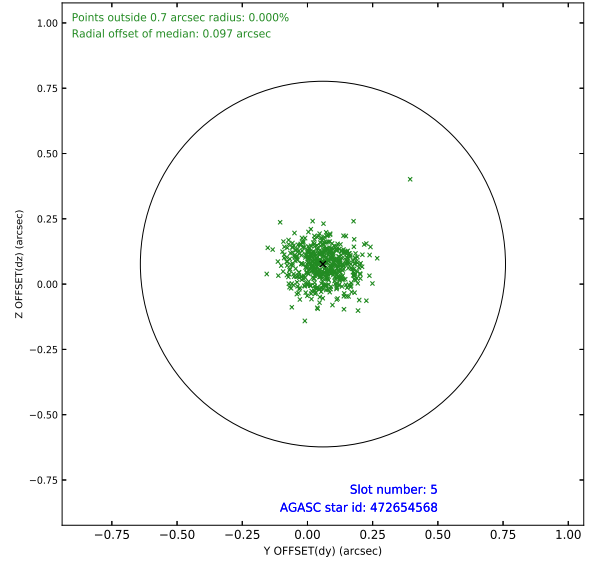
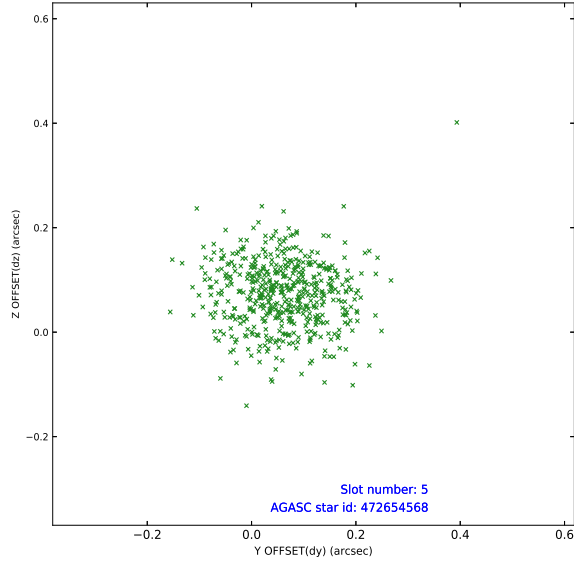
2.4.1 Slot 3



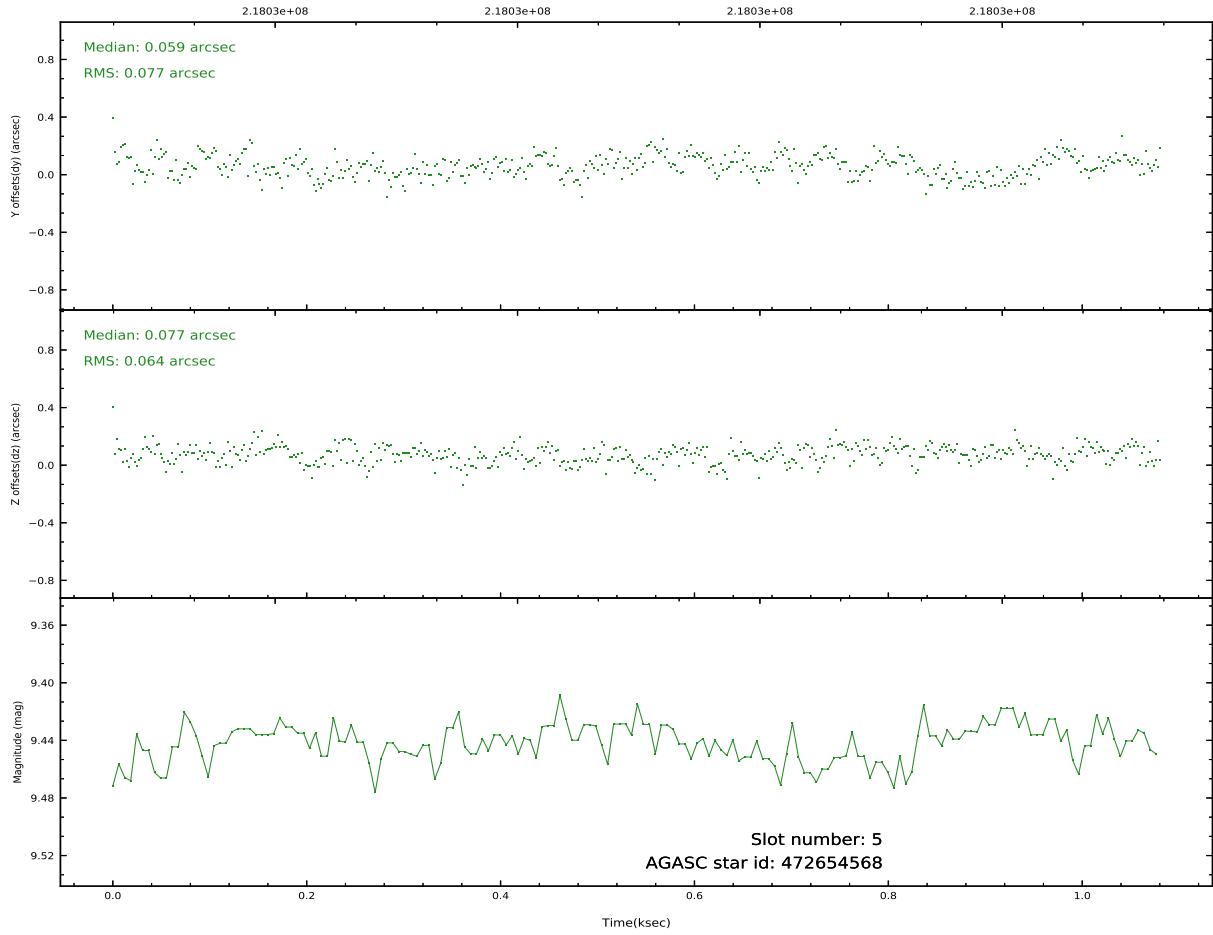
2.4.2 Slot 4



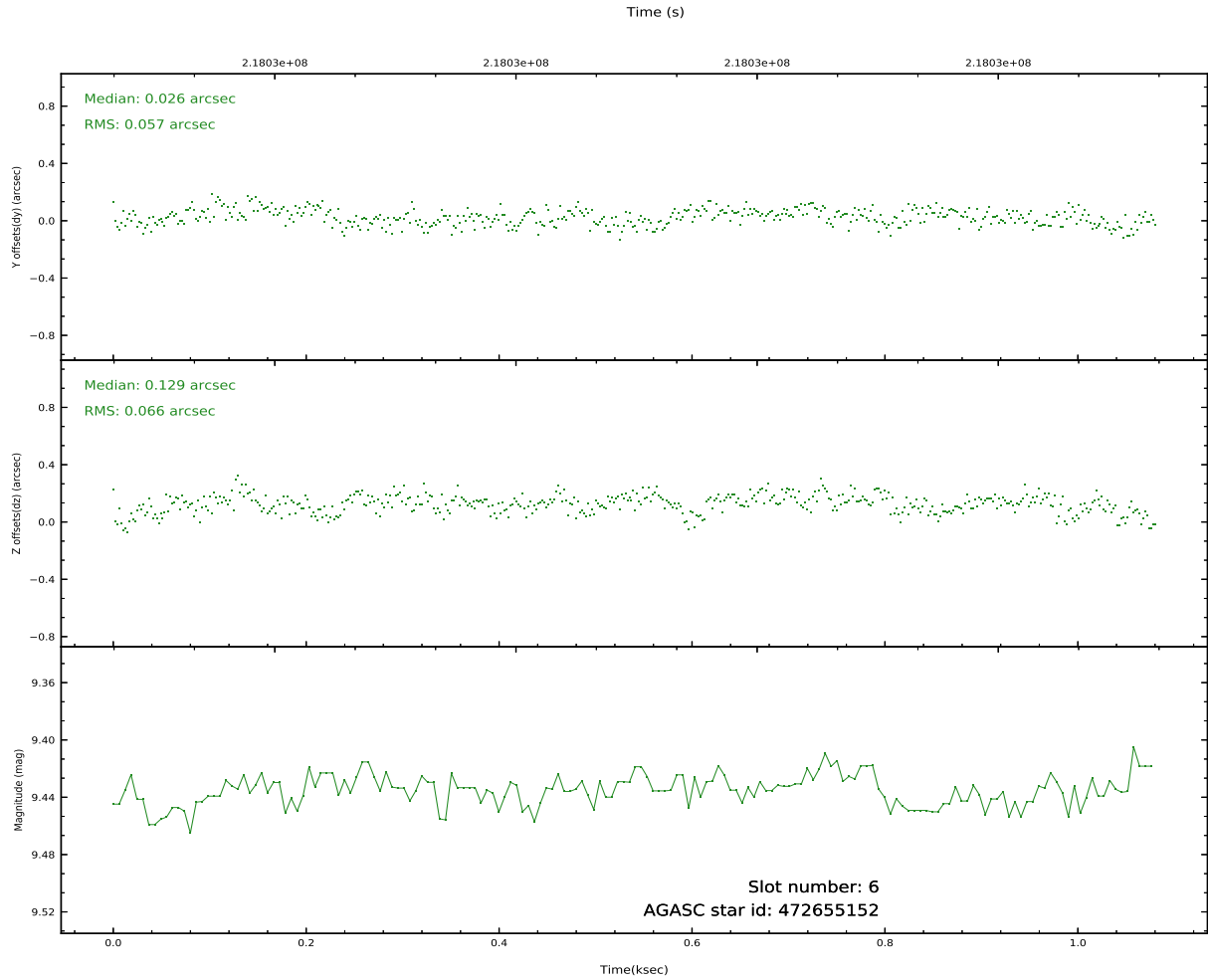
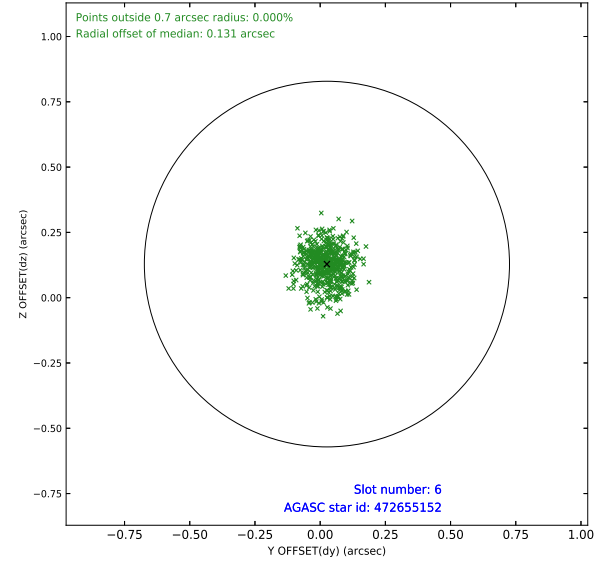
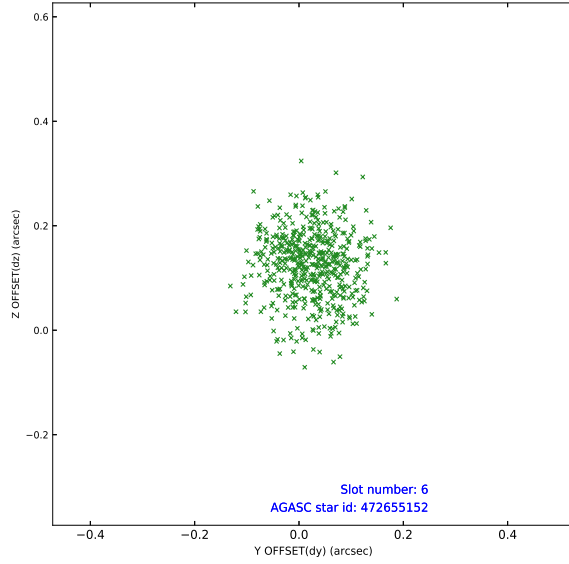
2.4.3 Slot 5



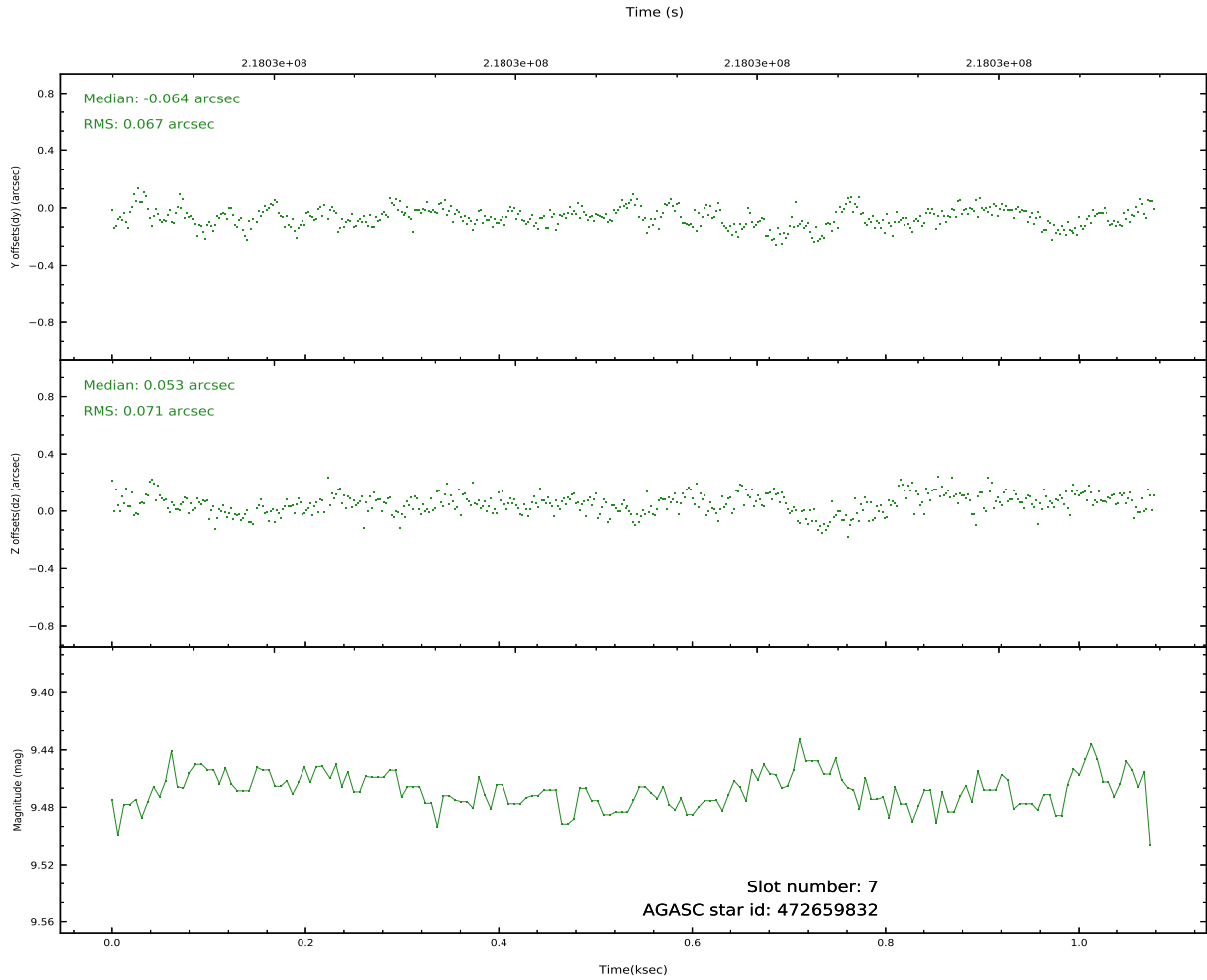
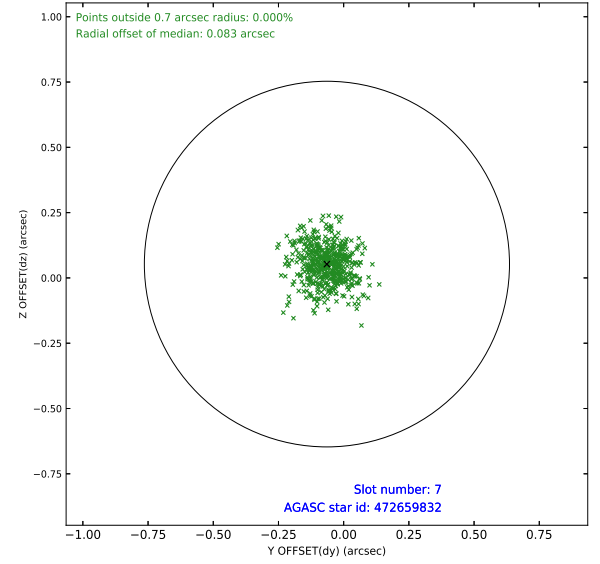
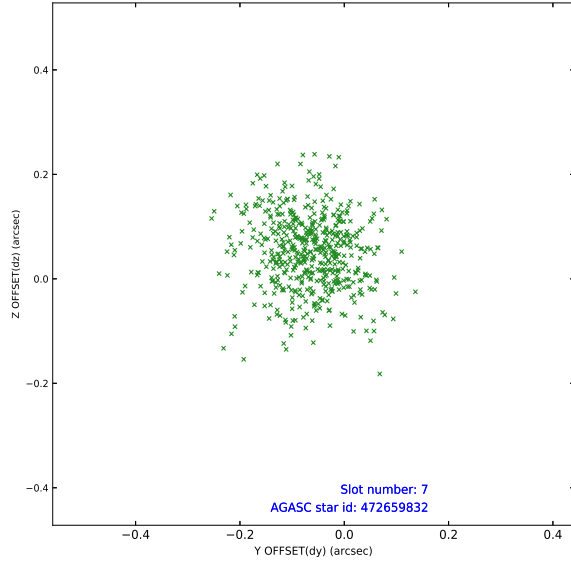
Time (s)



2.4.4 Slot 6

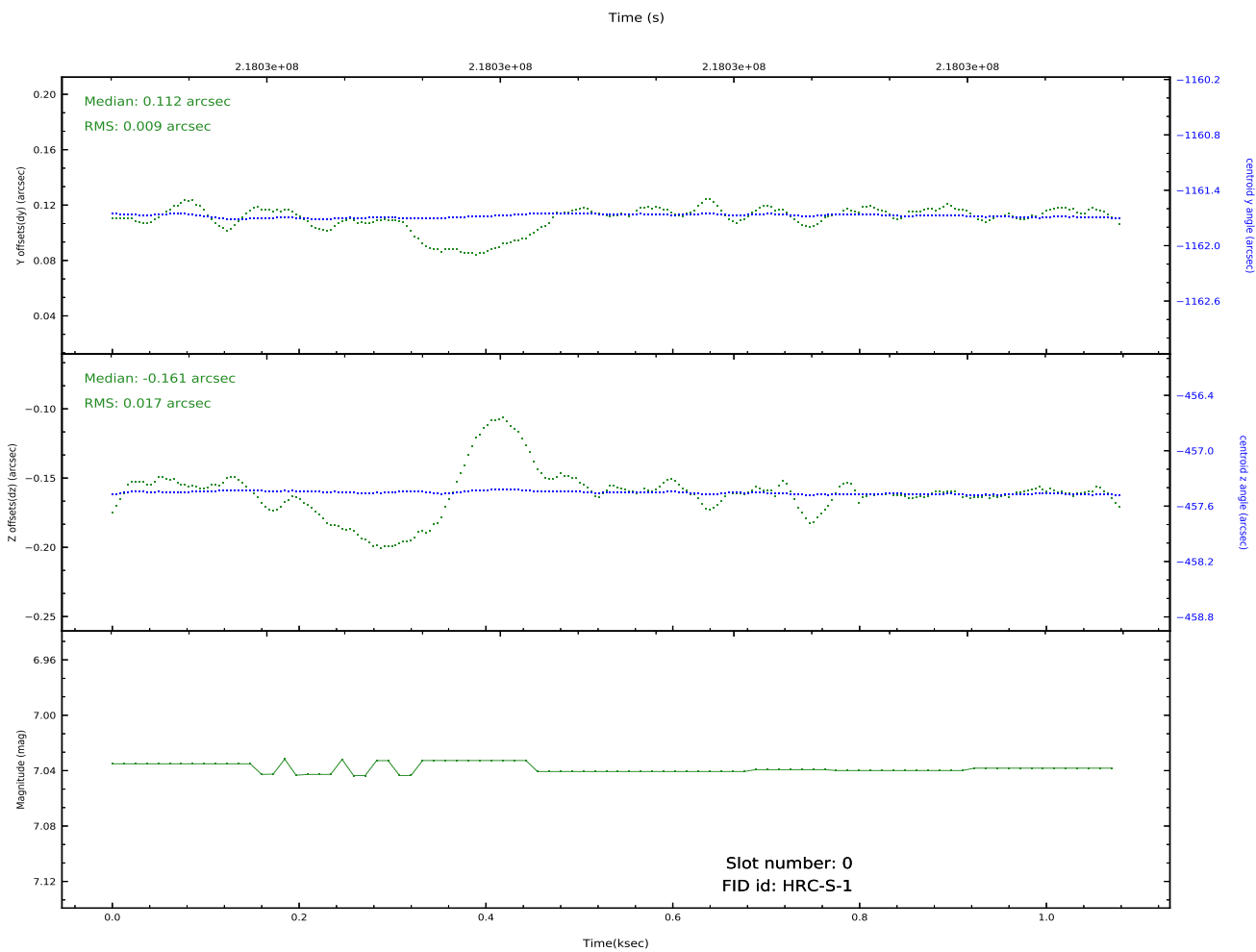
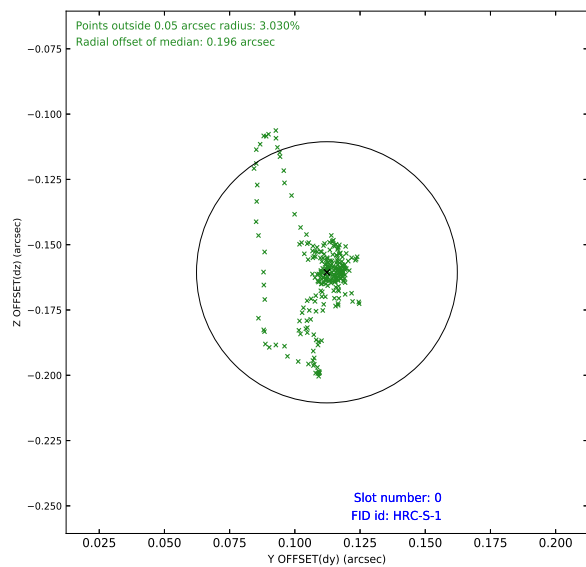
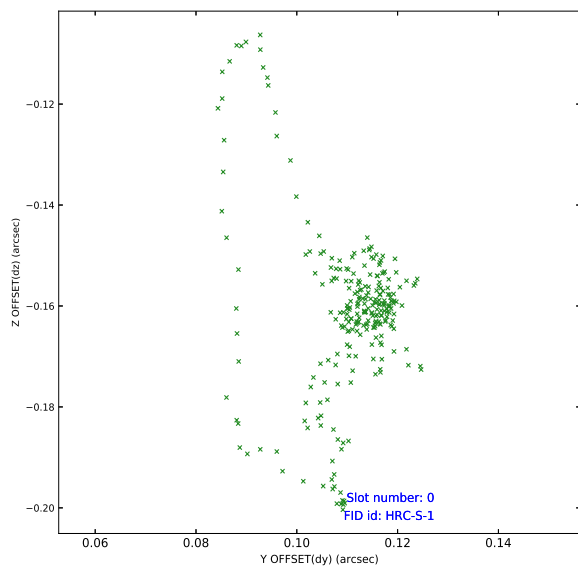


2.4.5 Slot 7

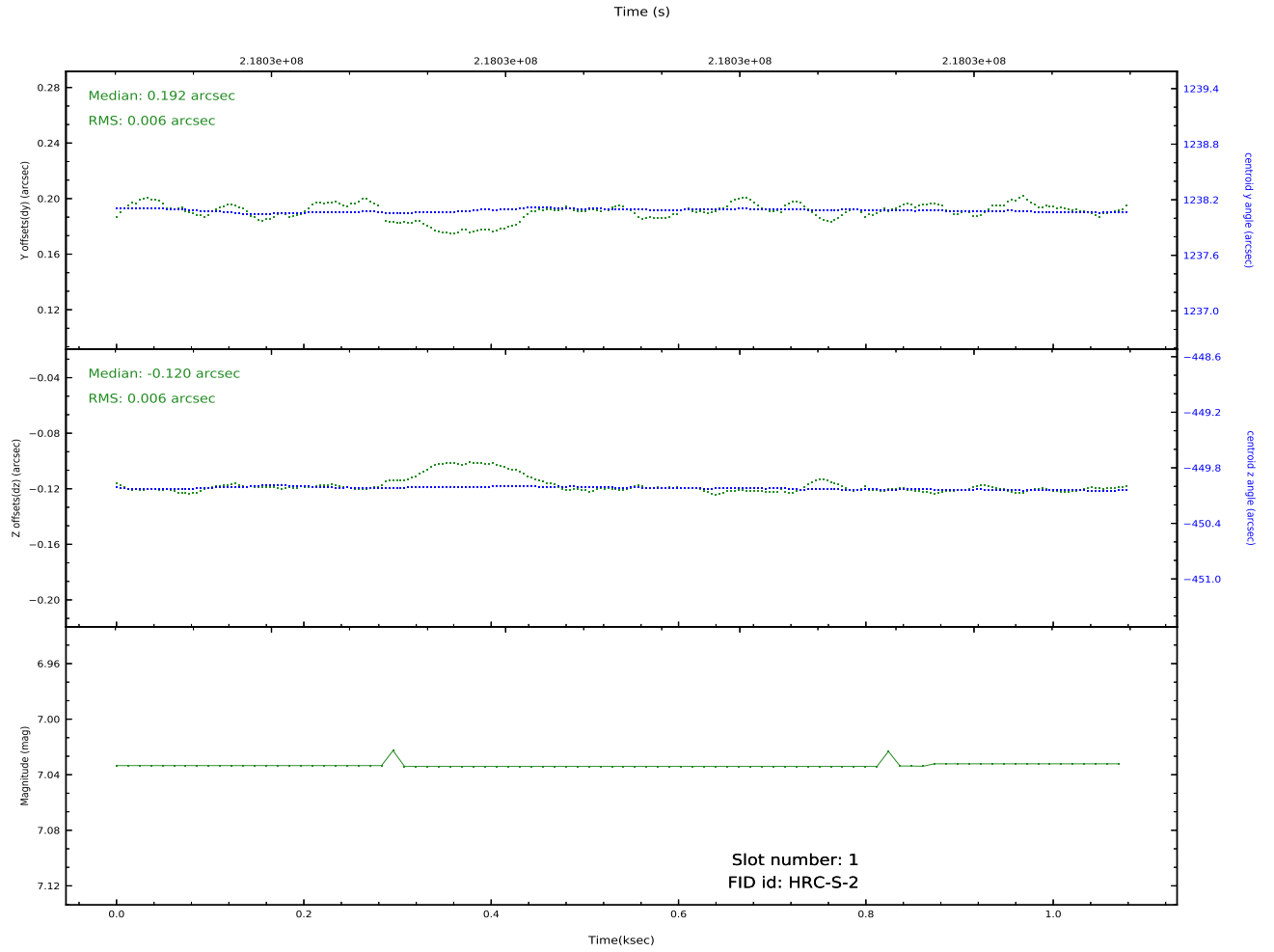
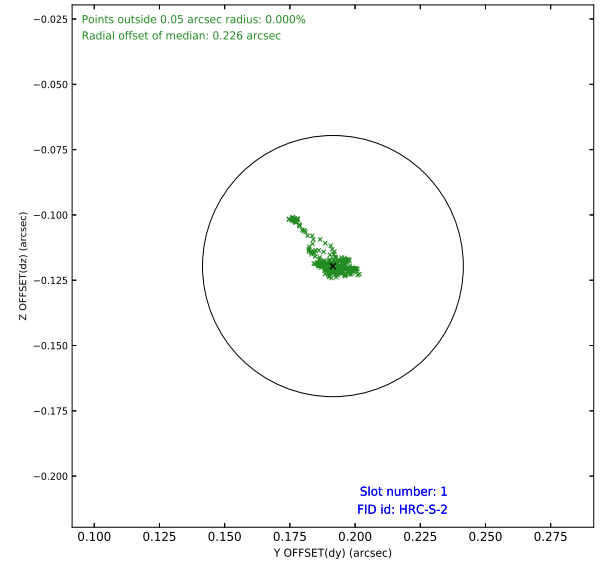
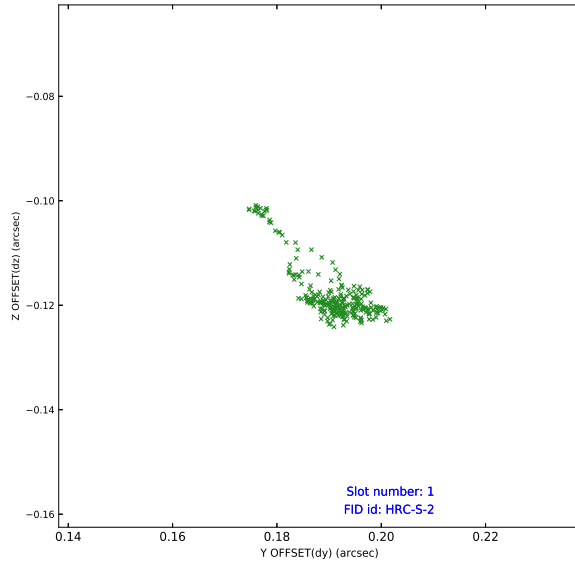


2.5 FID Slots

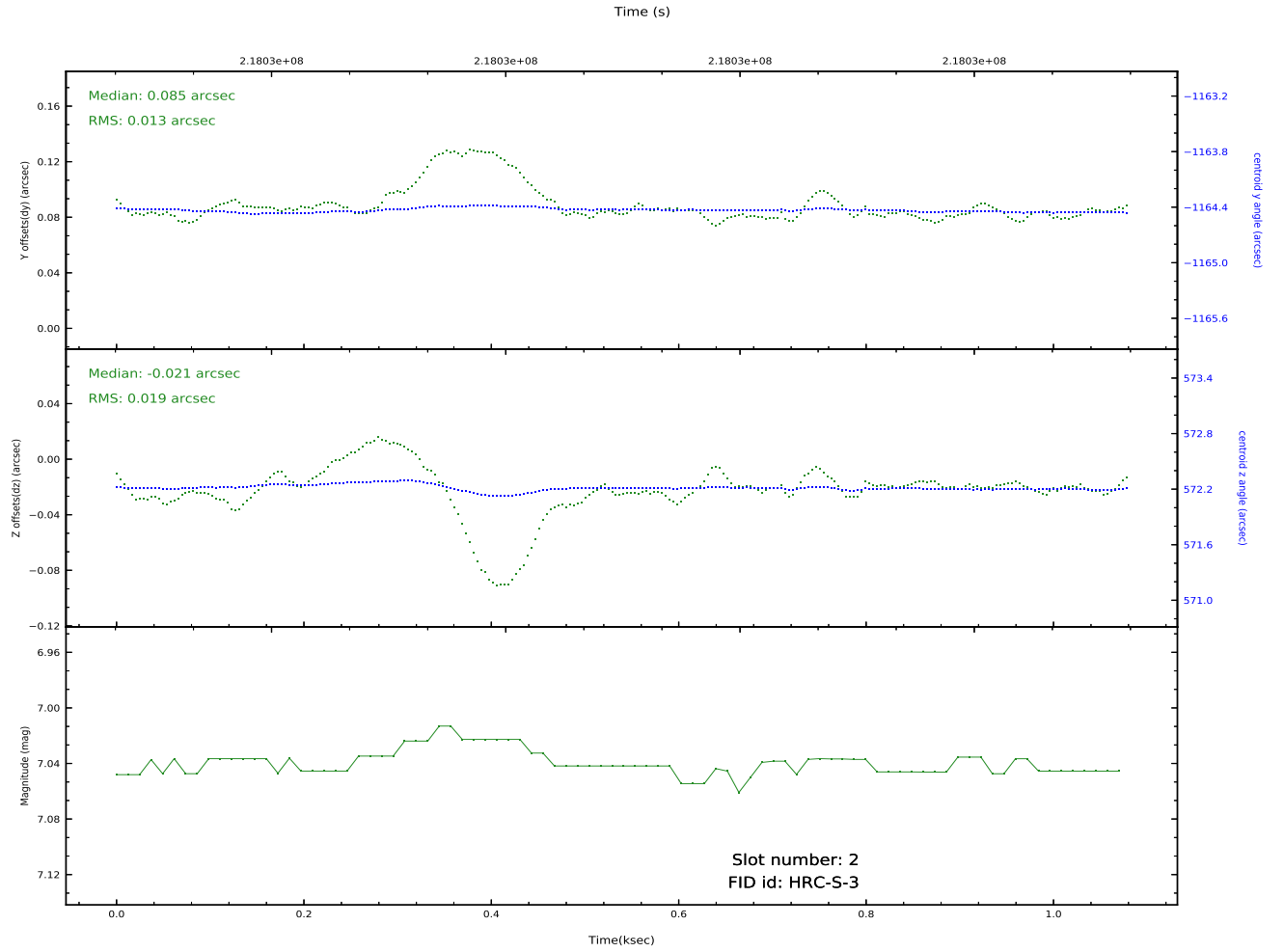
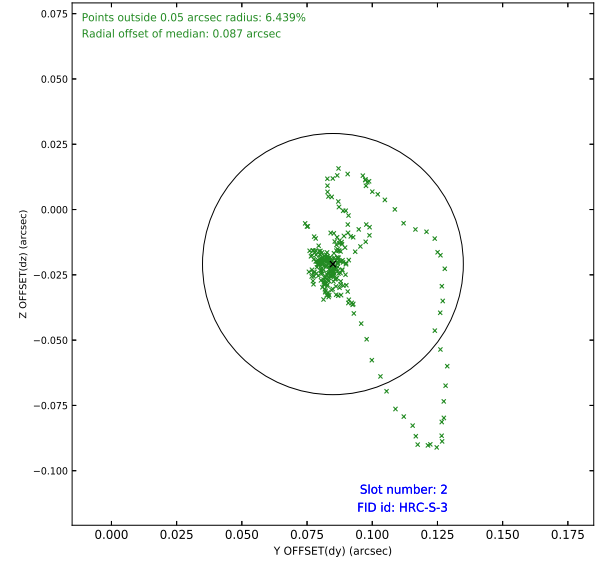
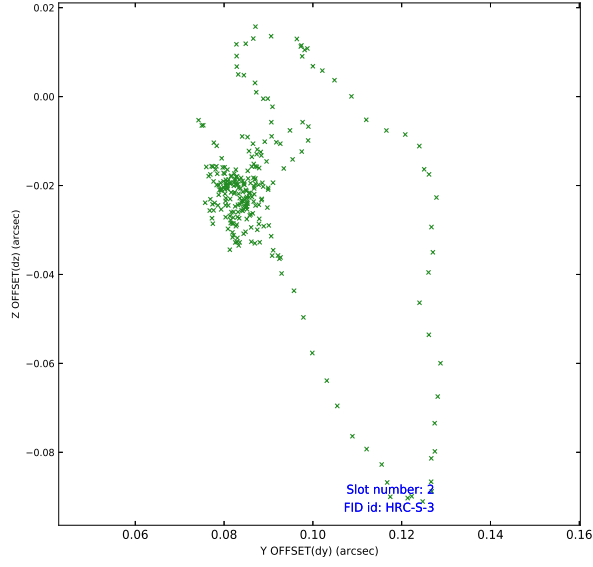
2.5.1 Slot 0



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	1.050881

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.