

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6546 - L2 Version 5
Chandra X-Ray Center

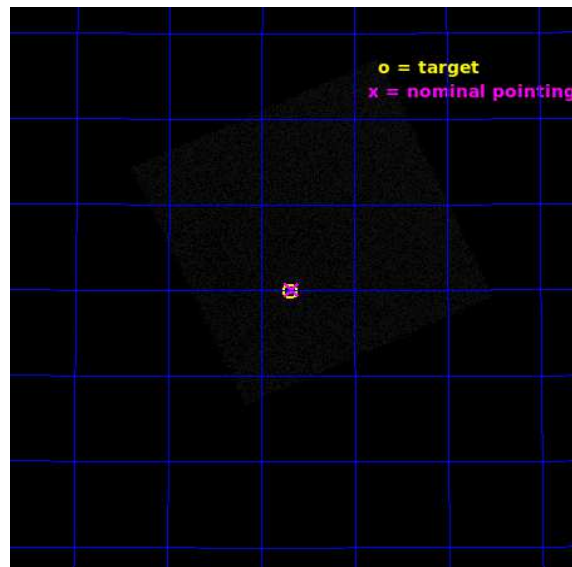
L2 Processing Date : Oct 12 2020

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

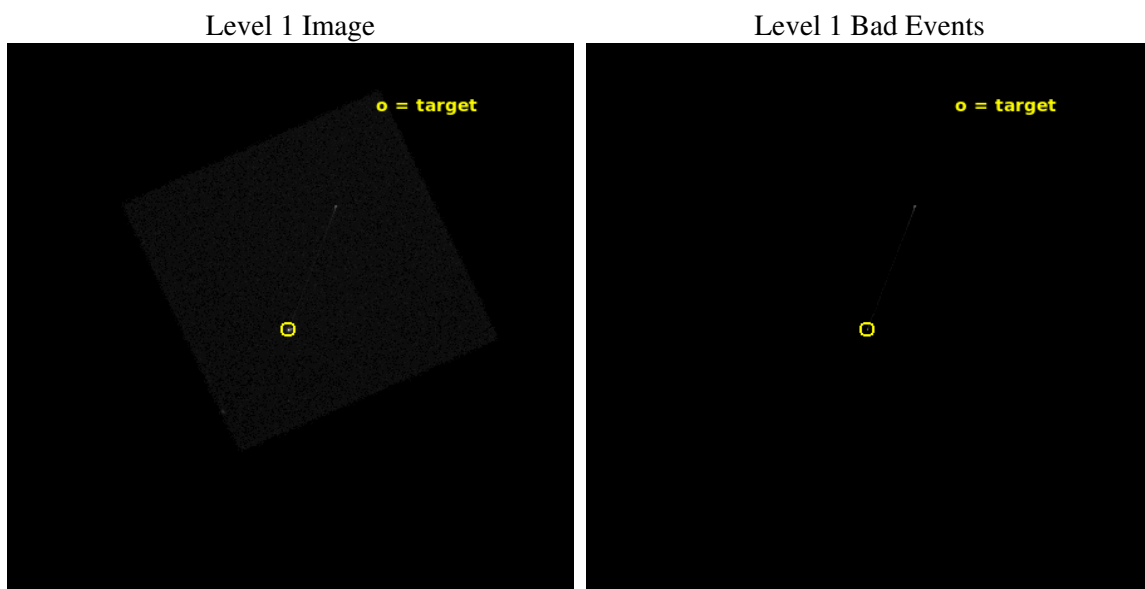
seq_num	290639	Sequence number
obs_id	6546	Observation id
title	Improving the De-Gap Corrections for the HRC-I	Proposal title
observer	CXC Calibration	Principal investigator
object	Capella	Source name
ra_targ	79.1725	Observer's specified target RA [deg]
dec_targ	45.998	Observer's specified target Dec [deg]
ra_nom	79.168378372742	Nominal RA [deg]
dec_nom	46.001551988063	Nominal Dec [deg]
roll_nom	200.35882228276	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5187.7814901173	[s]
livetime	5140.3563184417	Ontime multiplied by DTCOR
l2events	329484	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	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5187.7814901173	[s]
caldsver	4.9.2	 	l1events	474717	Number of level 1 events
date	2020-10-12T06:04:19	Date and time of file creation			
revision	5	Processing version of data			

2.1.3 Events

Level 1 Events

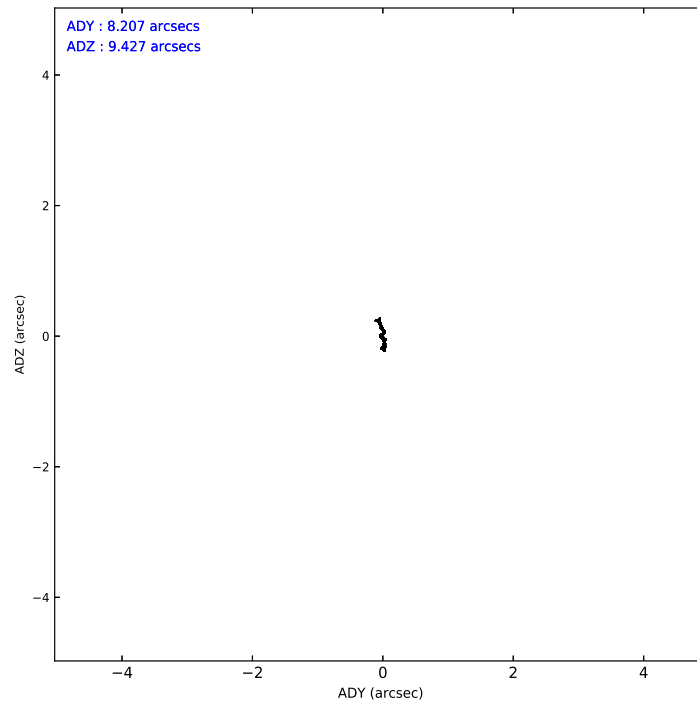
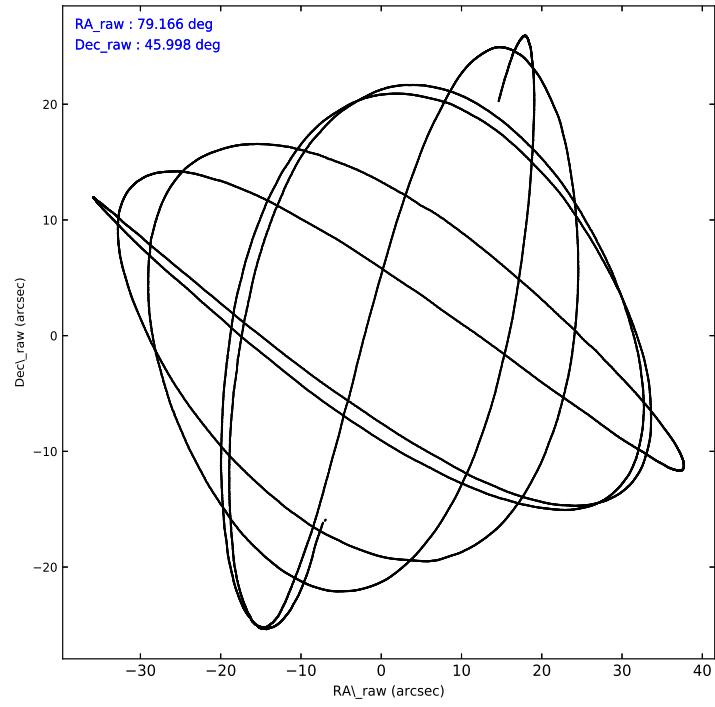
	segment 0
level 1 events	474717
rejected events	36578
rejected %	7%

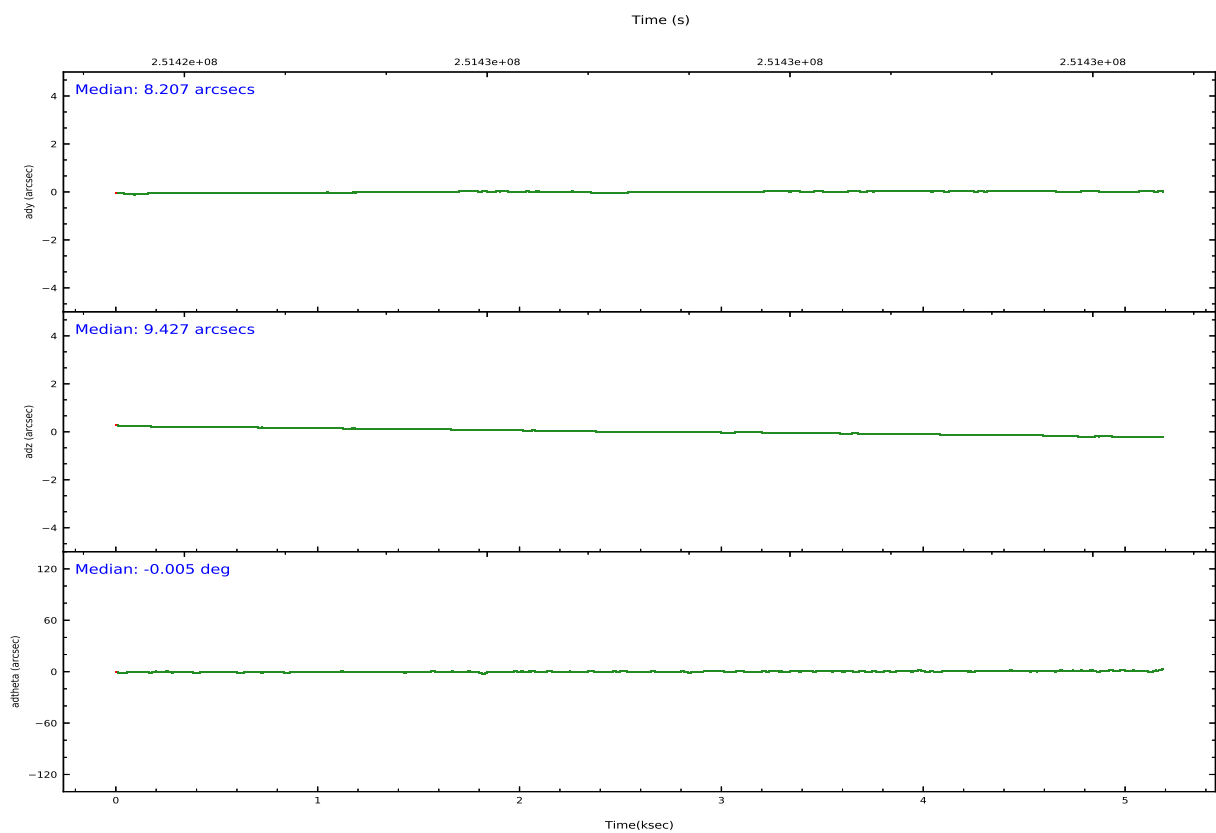
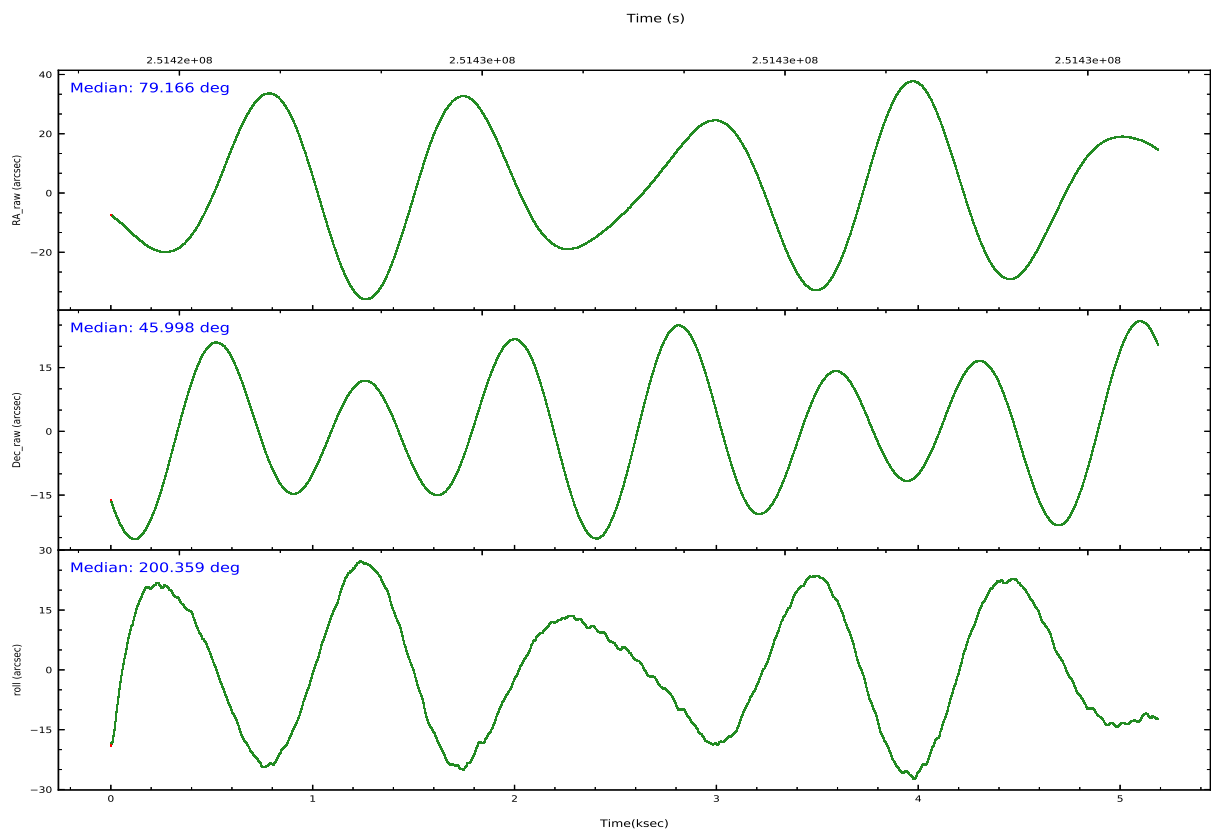
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	79.190699	79.168378372742
[deg] Pointing Dec	46.019429	46.001551988063
[deg] Pointing Roll	200.436504	200.35882228276
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	147.985494	147.9825413886154
[mm] SIM translation stage offset	-21	-20.99705249701381
[s] Observation start time (MET)	251424849.184000	251424346.33046
Observation start date	2005-12-20T00:13:05	2005-12-20T00:05:46
[s] Observation end time (MET)	251429849.184000	251429983.31822
Observation end date	2005-12-20T01:36:25	2005-12-20T01:39:43

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

2.3 Aspect



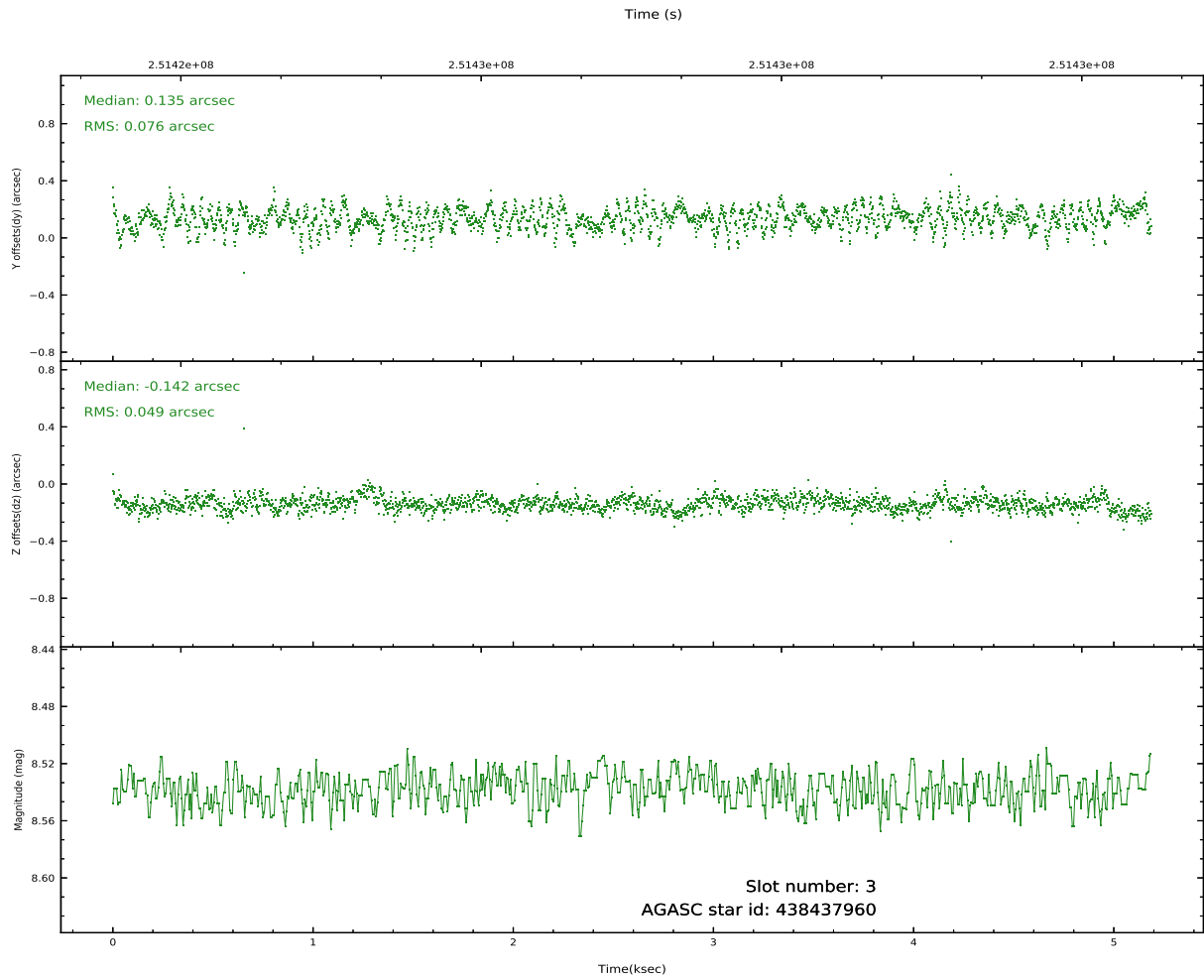
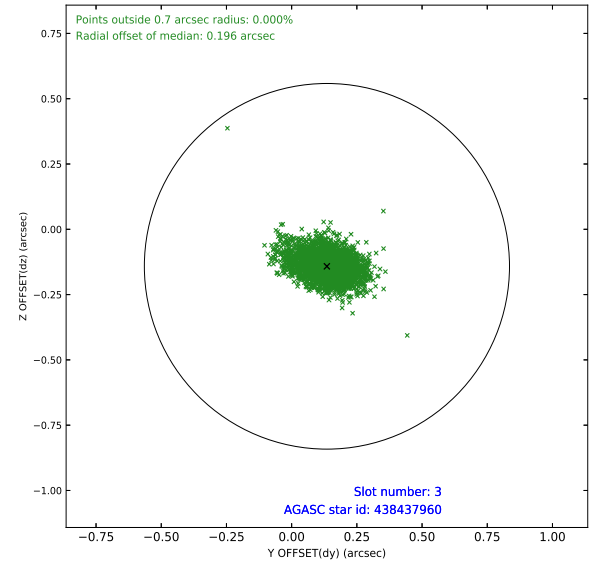
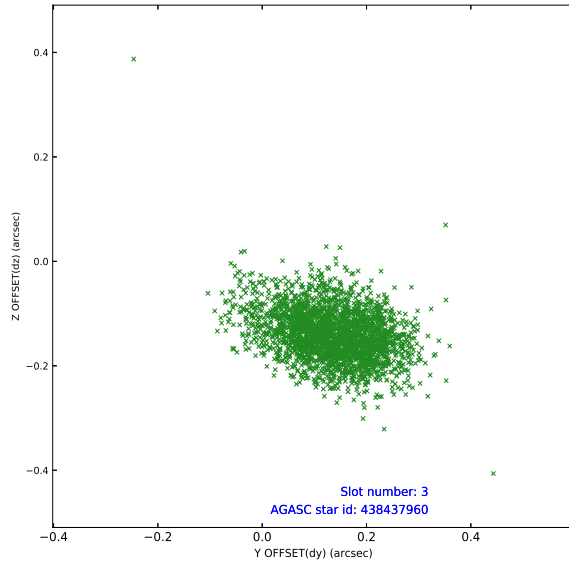


Slot Statistics

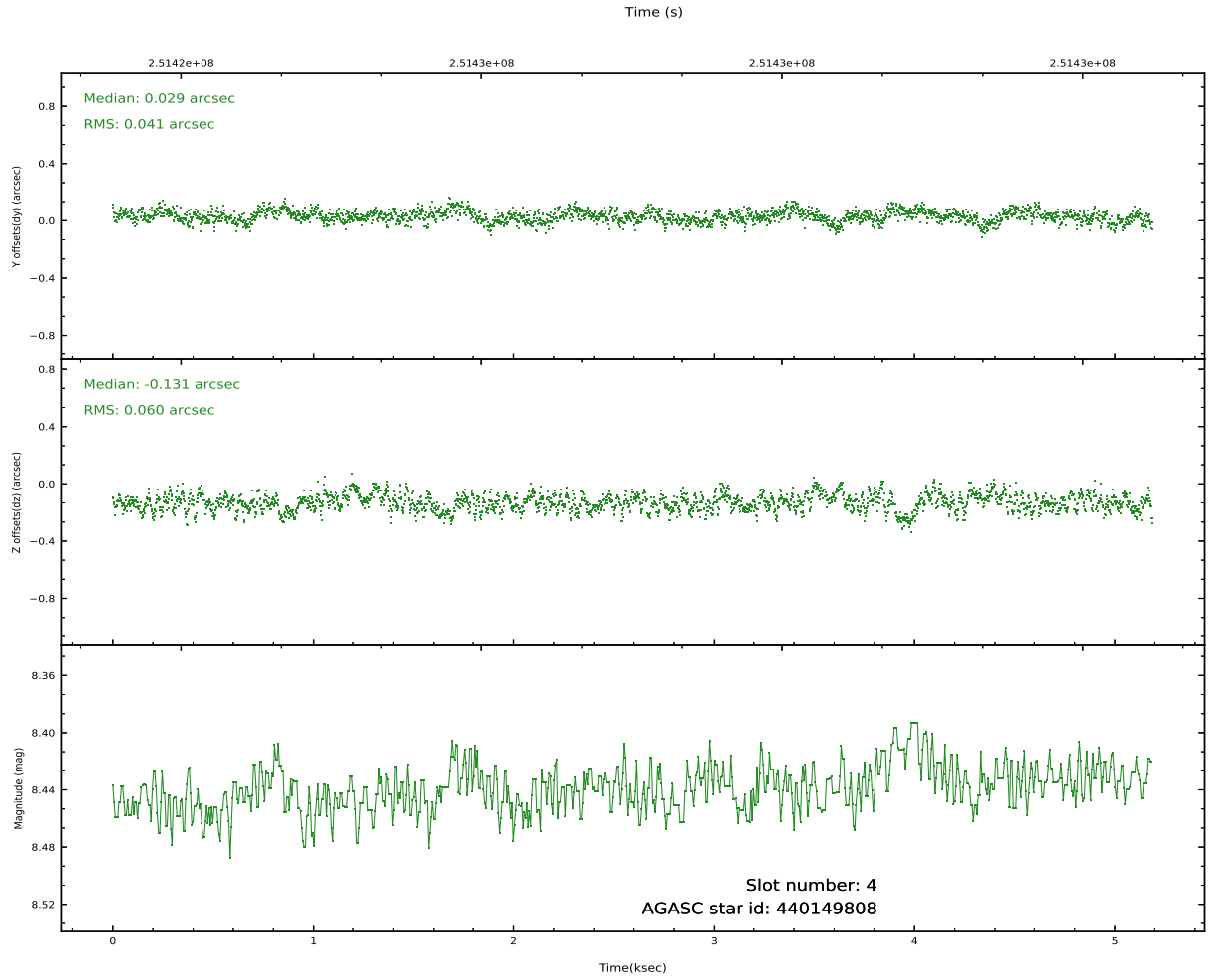
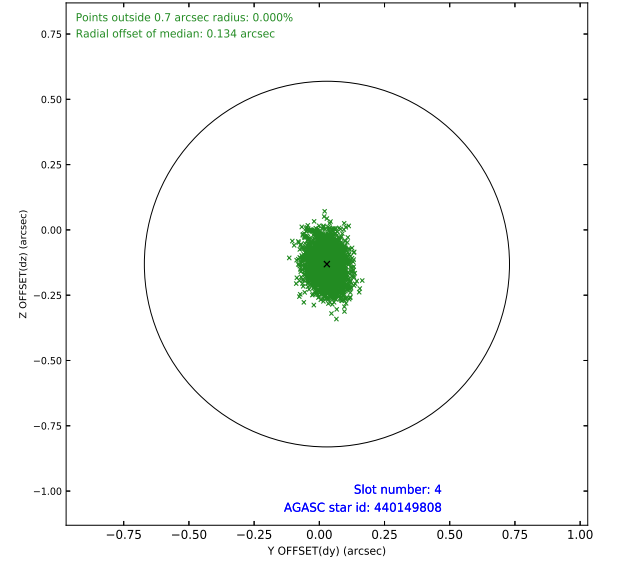
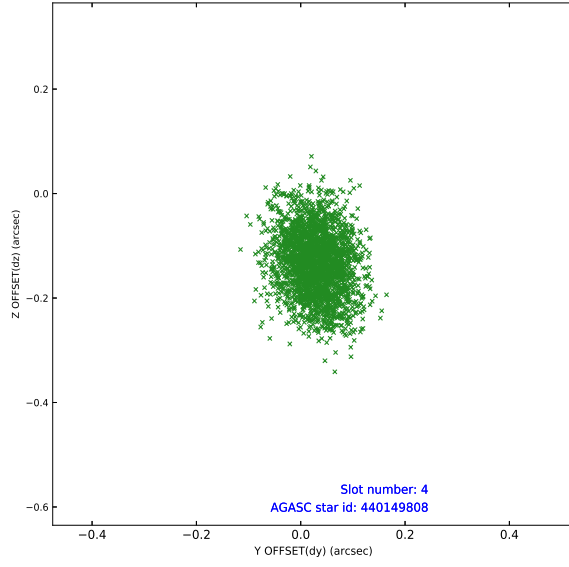
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	6.92	1266	1.000	0.216	-0.856	0.007	0.012	0.000000	0.000000	-763.80	-1729
1	FID		HRC-I-2	7.03	1266	1.000	-0.152	0.157	0.008	0.013	0.000000	0.000000	848.89	-1731
2	FID		HRC-I-3	7.11	1266	1.000	0.054	0.605	0.007	0.013	0.000000	0.000000	-1191.31	574
3	GUIDE	used	438437960	8.54	2531	1.000	0.135	-0.142	0.093	0.161	78.069023	46.438843	2074.26	-2405
4	GUIDE	used	440149808	8.44	2531	1.000	0.029	-0.131	0.076	0.128	78.873930	46.405955	251.72	-1580
5	GUIDE	used	440150048	7.14	2532	1.000	-0.016	-0.096	0.063	0.103	79.112838	46.416060	-317.04	-1406
6	GUIDE	used	438460832	8.99	2521	1.000	0.052	0.047	0.090	0.140	78.414614	45.554782	2414.18	875
7	GUIDE	used	438441368	9.98	2529	1.000	-0.198	0.319	0.152	0.245	78.646413	46.420494	761.18	-1828

2.4 Star Slots

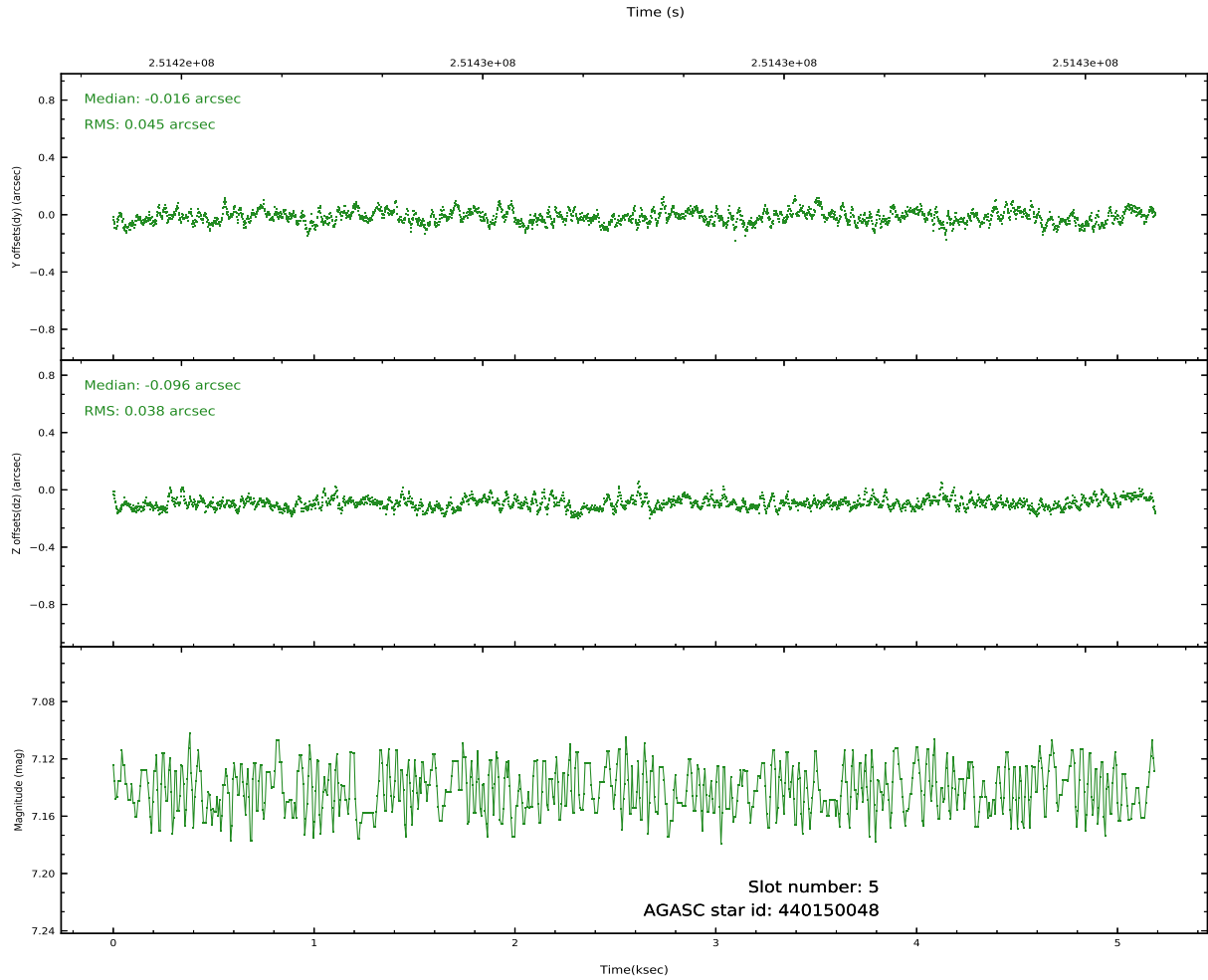
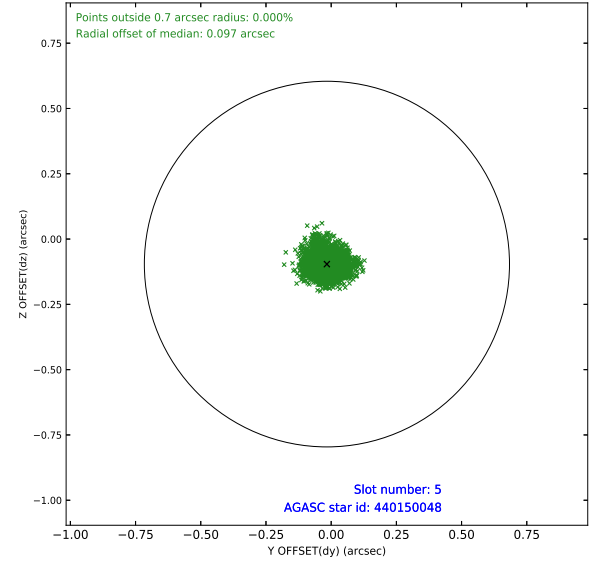
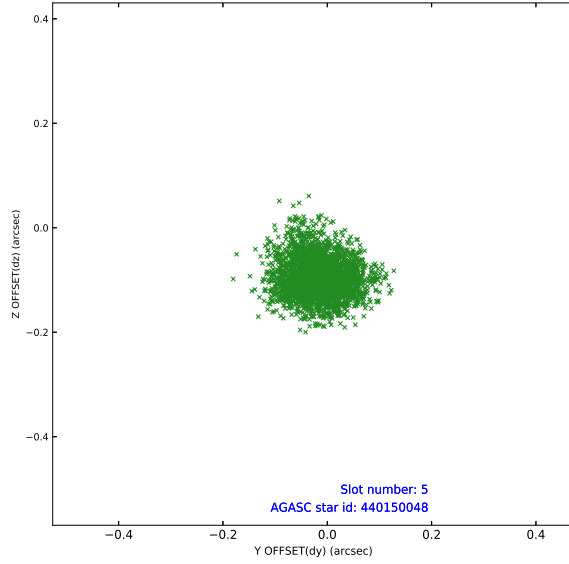
2.4.1 Slot 3



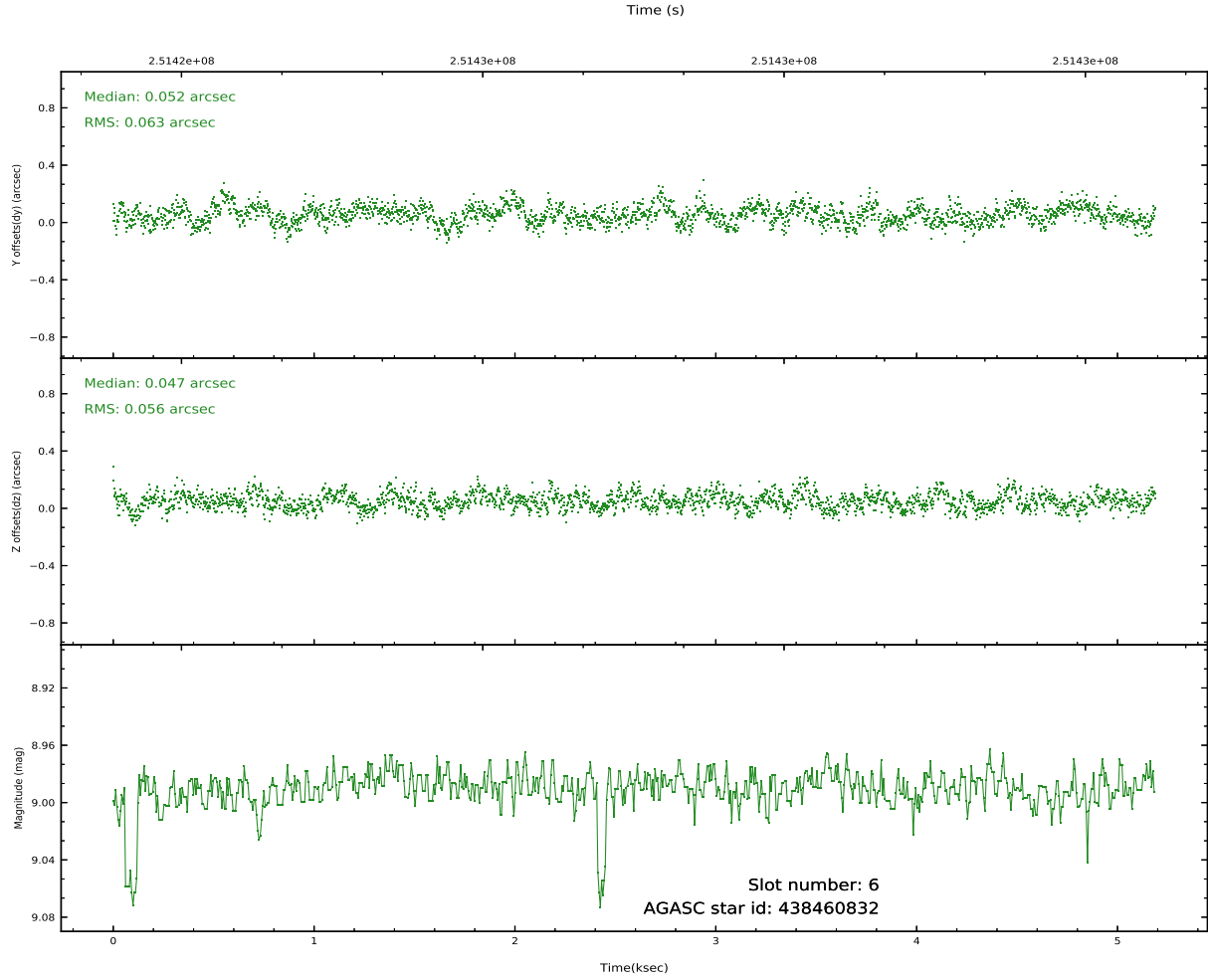
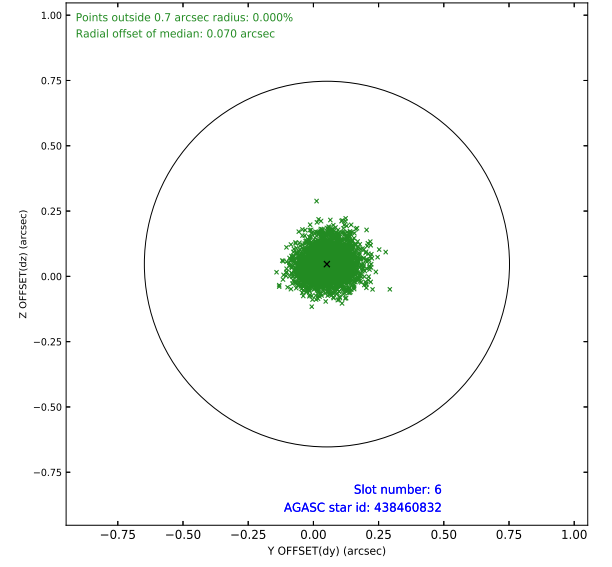
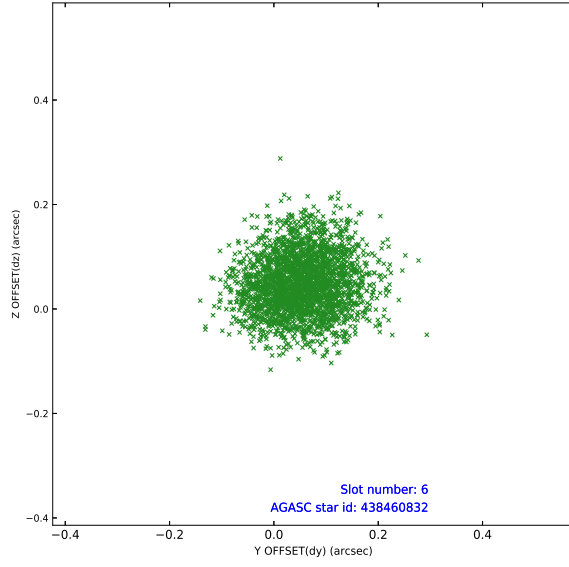
2.4.2 Slot 4



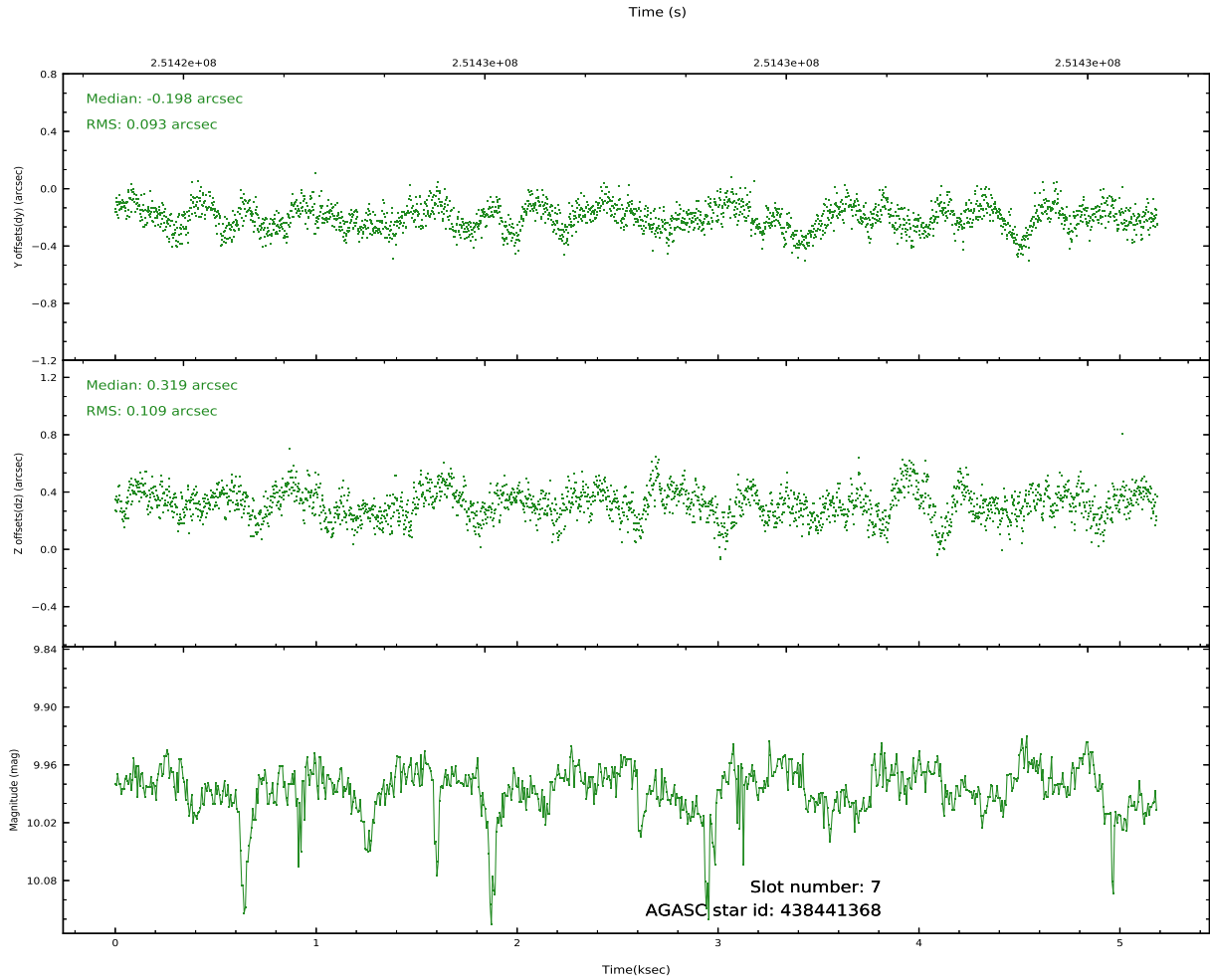
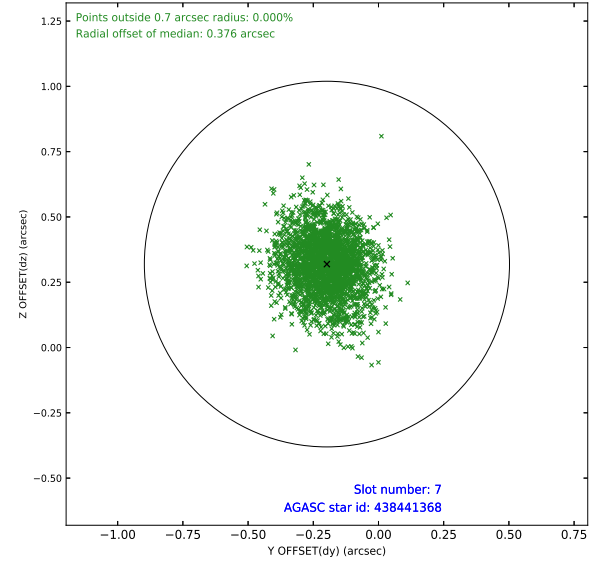
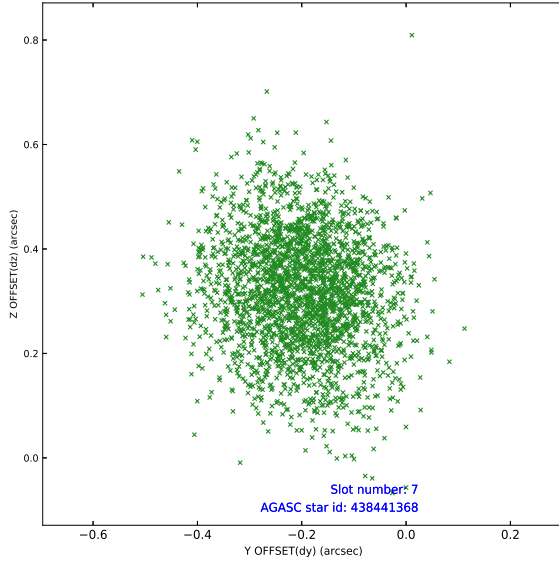
2.4.3 Slot 5



2.4.4 Slot 6

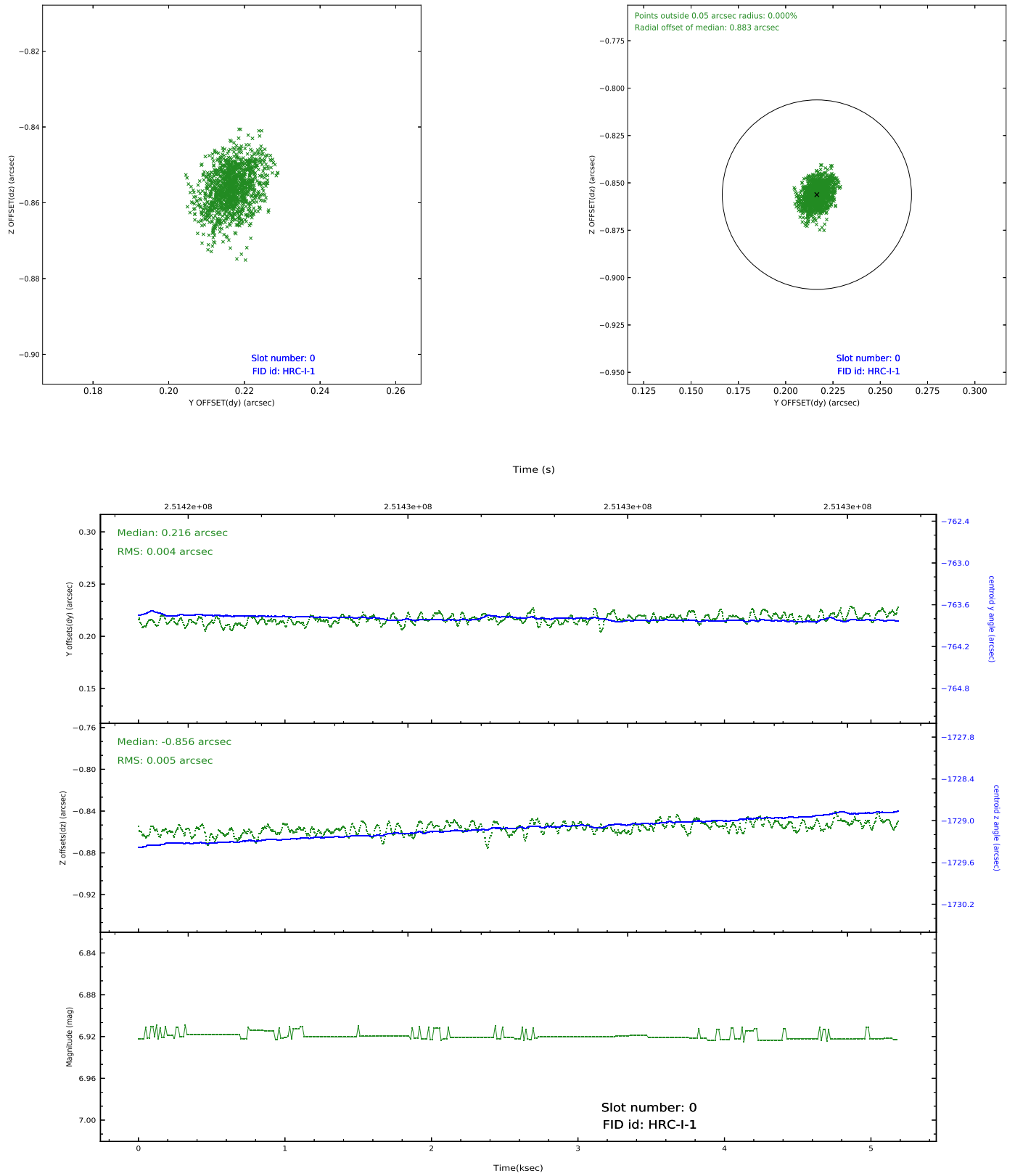


2.4.5 Slot 7

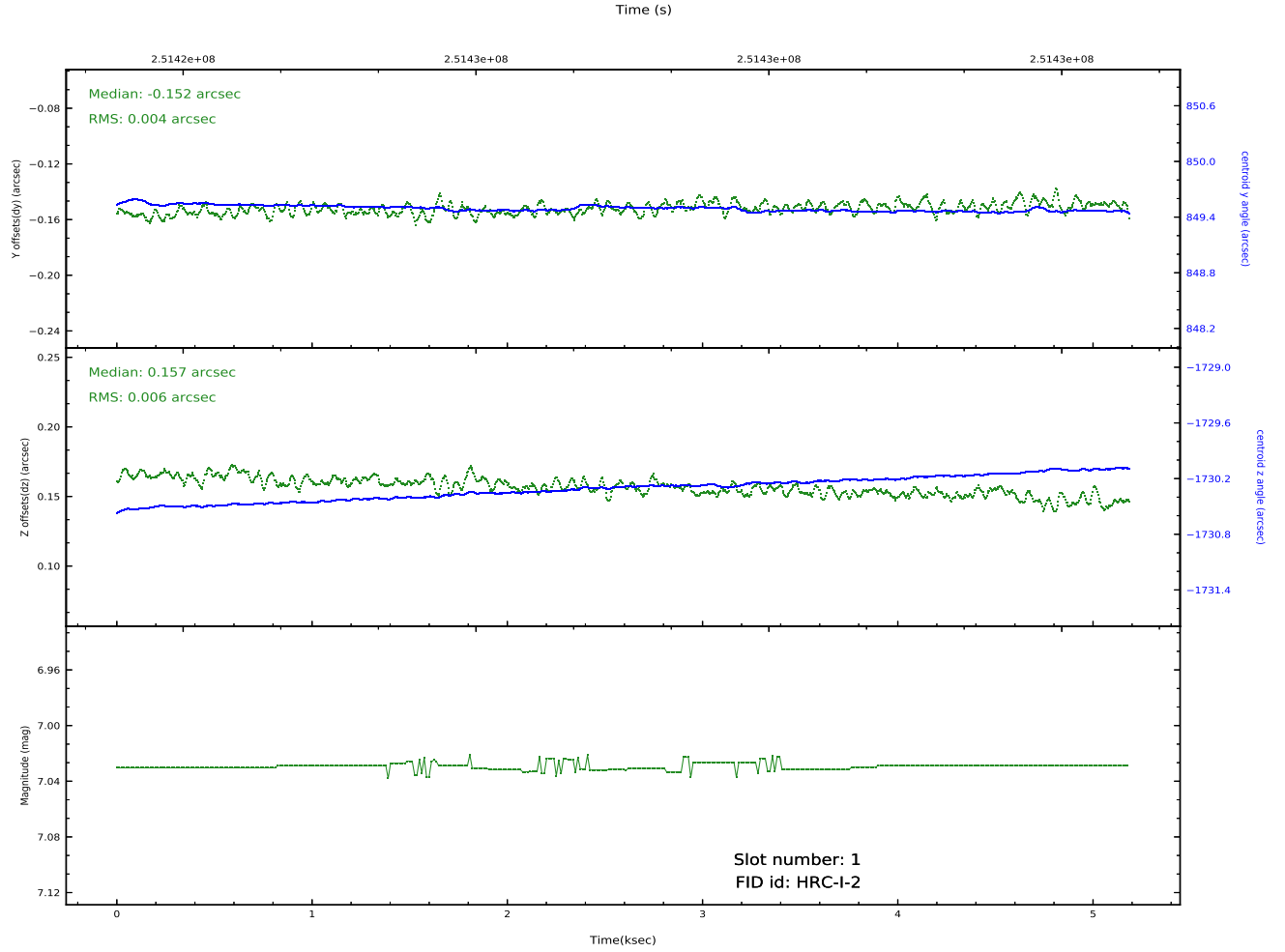
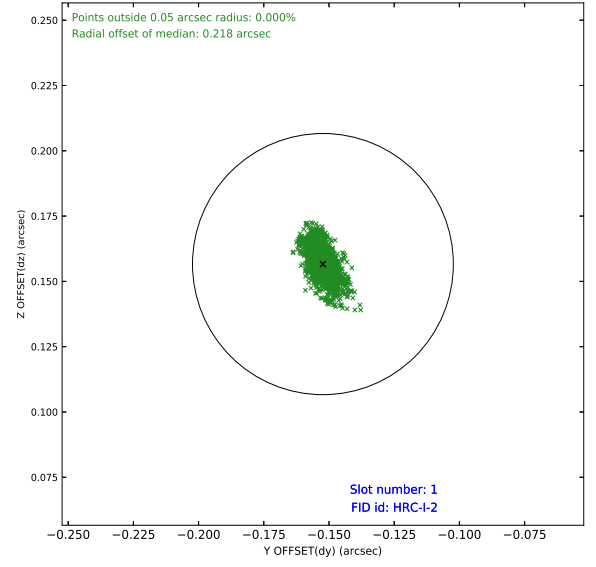
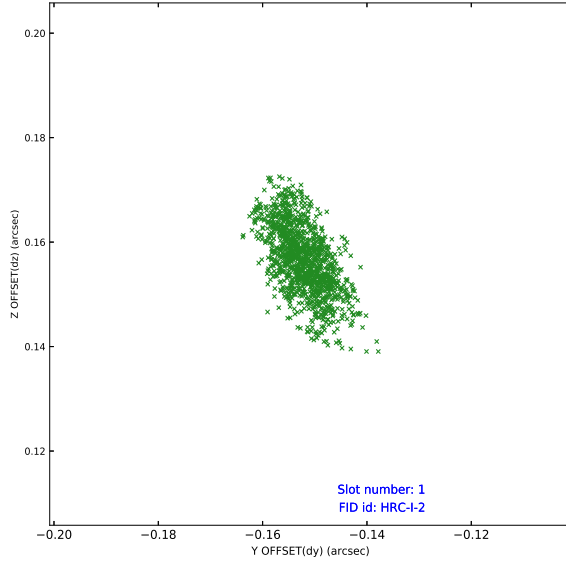


2.5 FID Slots

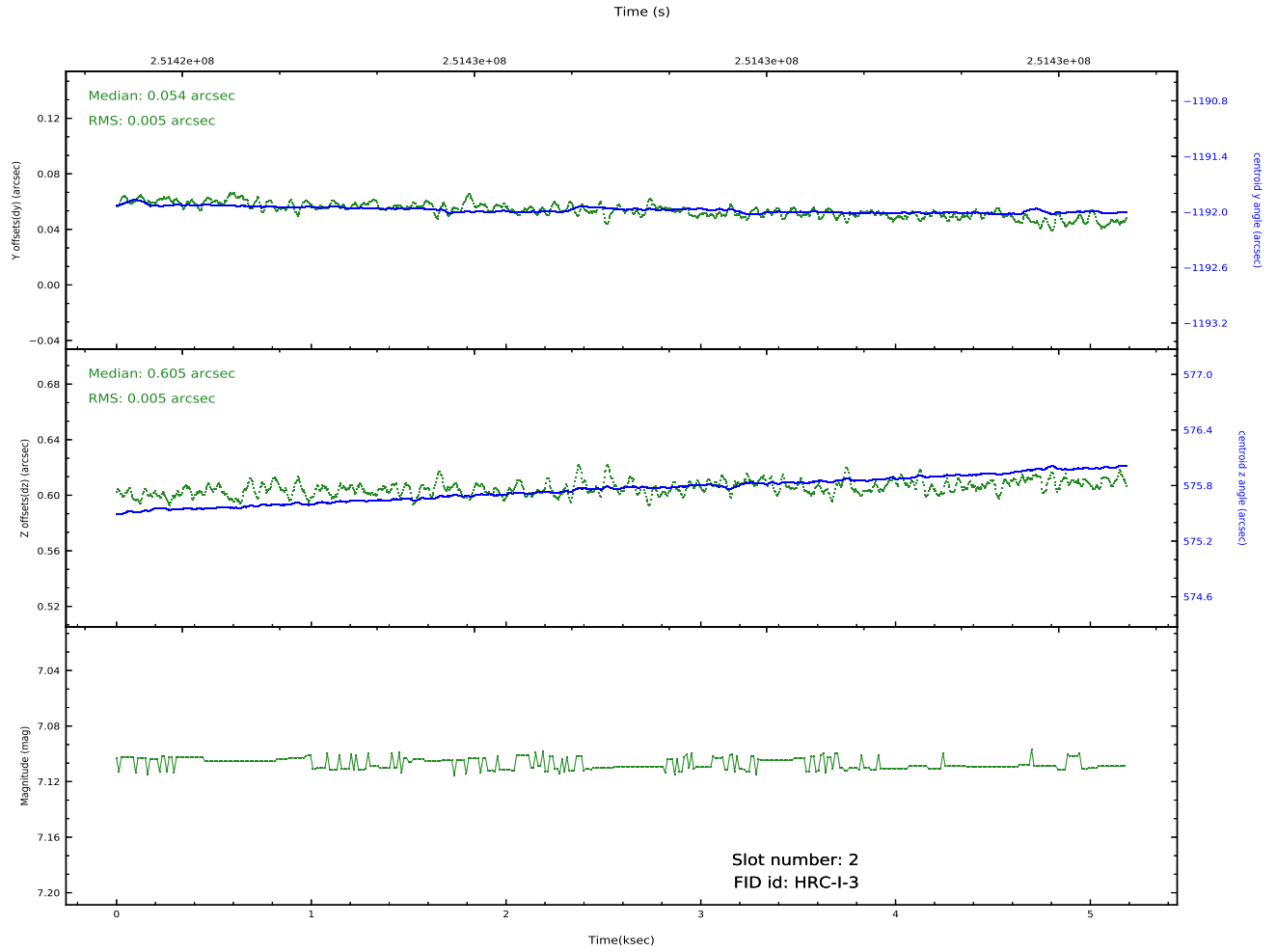
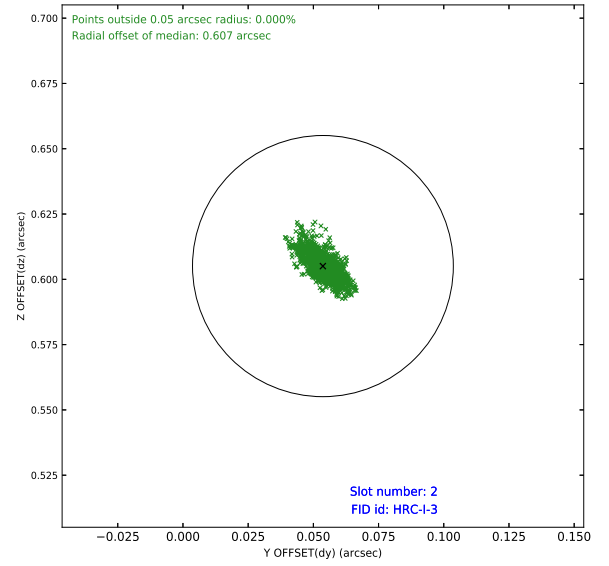
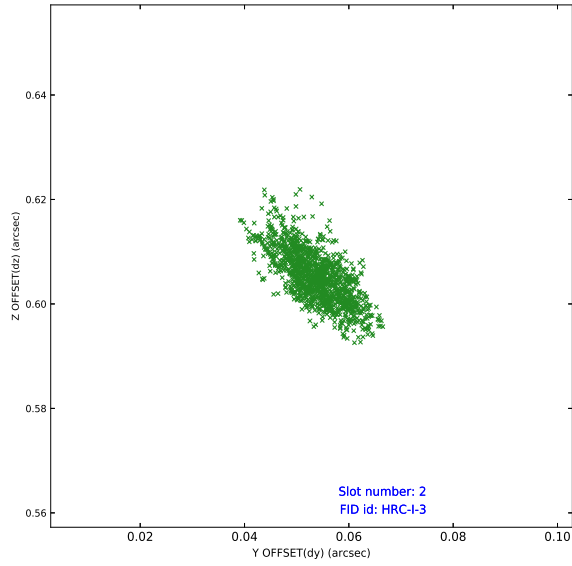
2.5.1 Slot 0



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)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.187781

A.2 Comments

Large fid offsets are expected due to large SIM offset for this set of observations.