

V&V Reference Report

L2 ASCDS Version : 10.9

Observation 23148 - L2 Version 1
Chandra X-Ray Center

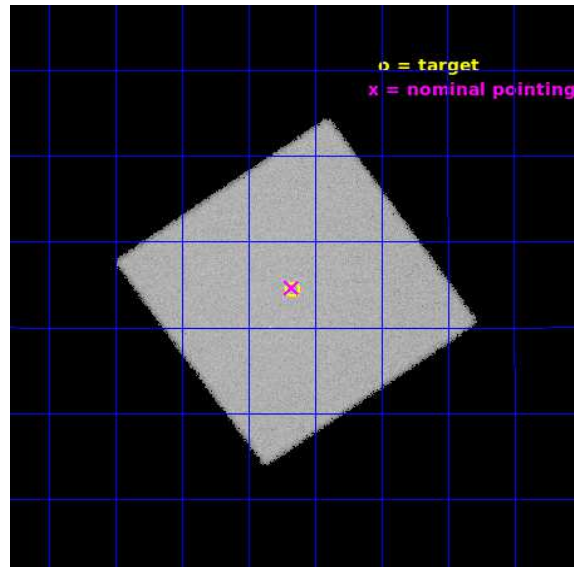
L2 Processing Date : Aug 16 2020

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1 Front

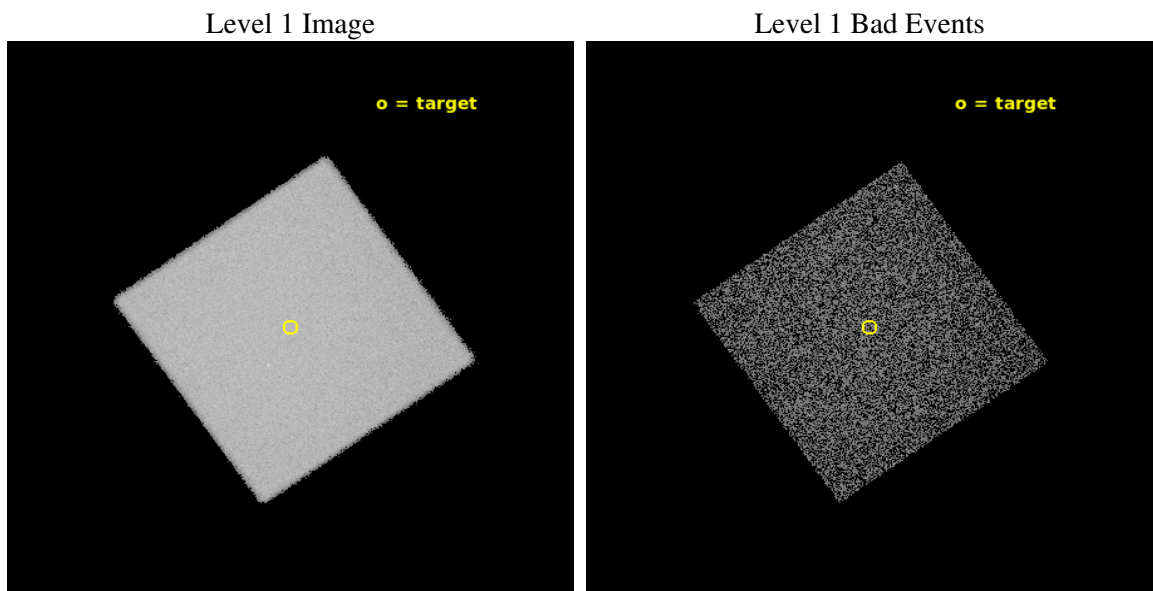
seq_num	201344	Sequence number
obs_id	23148	Observation id
title	The Dimming of Betelgeuse	Proposal title
observer	Vinay Kashyap	Principal investigator
object	Betelgeuse	Source name
ra_targ	88.792958	Observer's specified target RA [deg]
dec_targ	7.407064	Observer's specified target Dec [deg]
ra_nom	88.793026180621	Nominal RA [deg]
dec_nom	7.4109215490013	Nominal Dec [deg]
roll_nom	99.899777518507	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5042.2315580845	[s]
livetime	4978.8460036427	Ontime multiplied by DTCOR
l2events	542966	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	Processing system revision	ontime	5042.2315580845	[s]
caldsver	4.9.2	 	l1events	748417	Number of level 1 events
date	2020-08-16T20:59:19	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

Level 1 Events

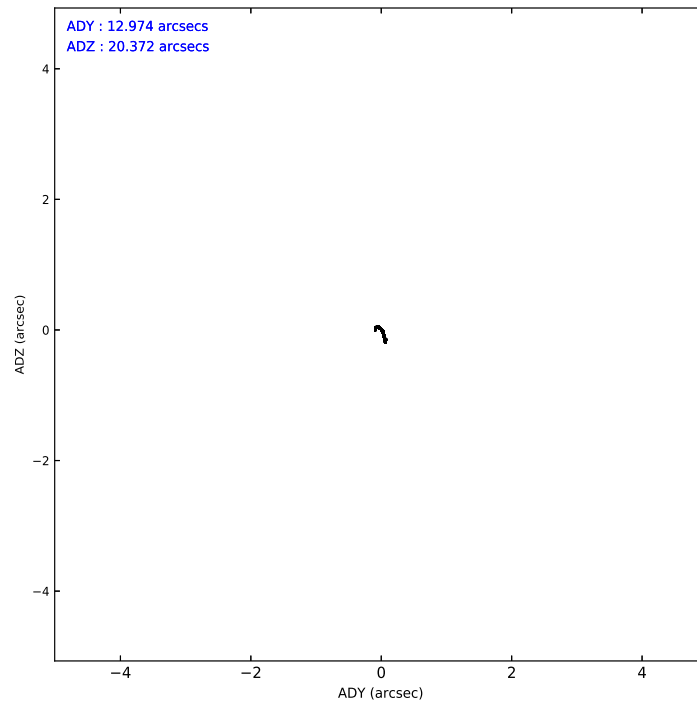
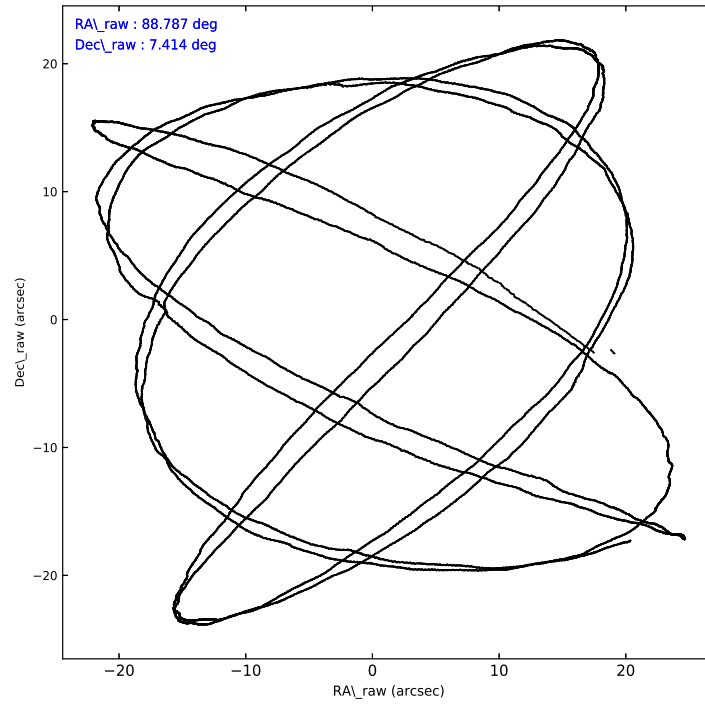
	segment 0
level 1 events	748417
rejected events	84625
rejected %	11%

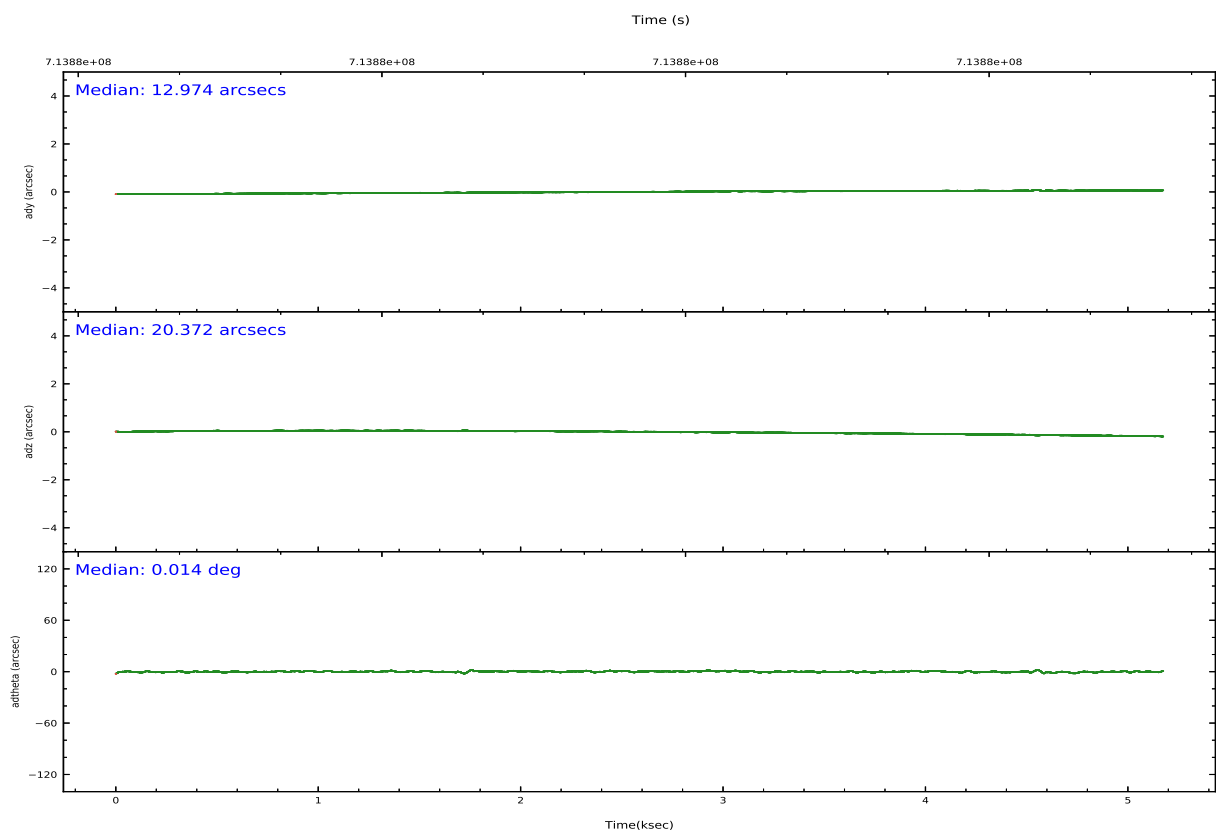
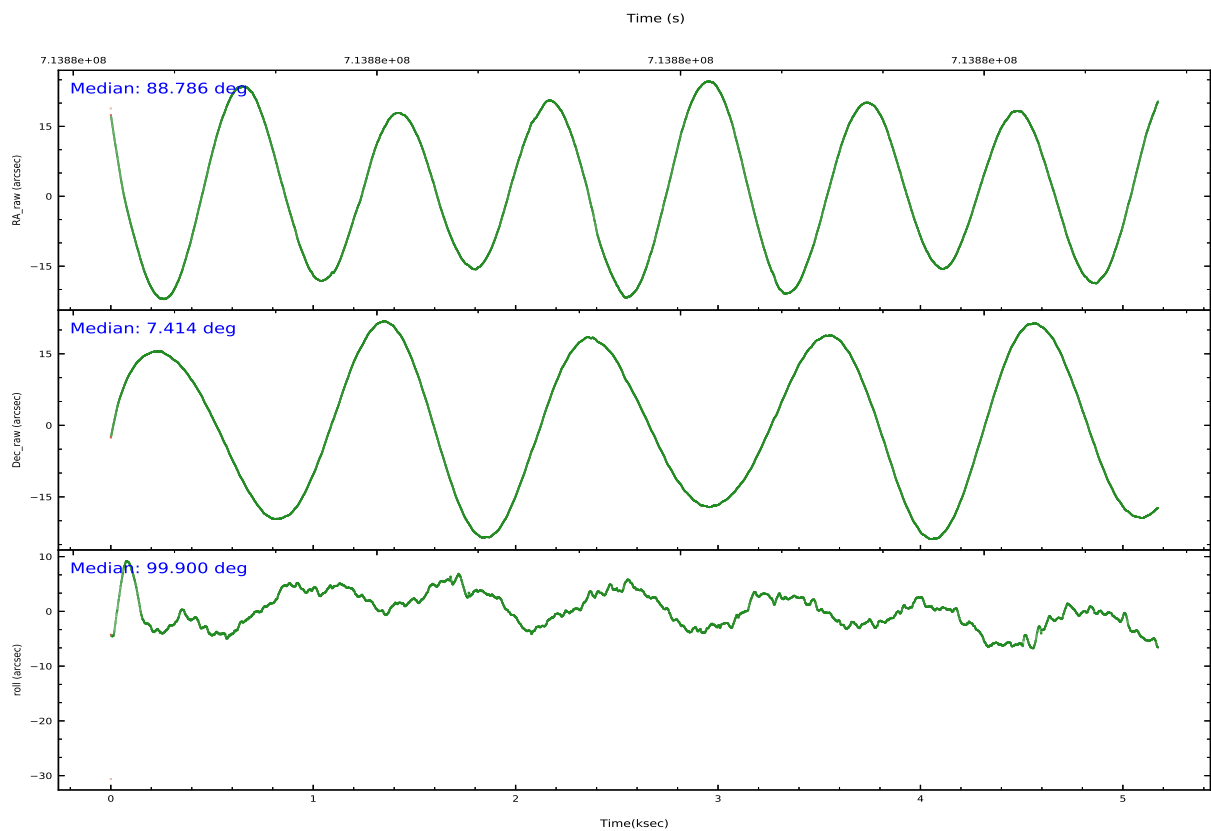
2.2 Compared Parameters

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	88.805159	88.793026180621
[deg] Pointing Dec	7.392778	7.4109215490013
[deg] Pointing Roll	99.998426	99.89977751850699
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9804656746847
[mm] SIM translation stage offset	0	0.005023216916882234
[s] Observation start time (MET)	713879859.184000	713878969.99685
Observation start date	2020-08-15T11:56:30	2020-08-15T11:42:49
[s] Observation end time (MET)	713884859.184000	713885485.40974
Observation end date	2020-08-15T13:19:50	2020-08-15T13:31:25

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

2.3 Aspect



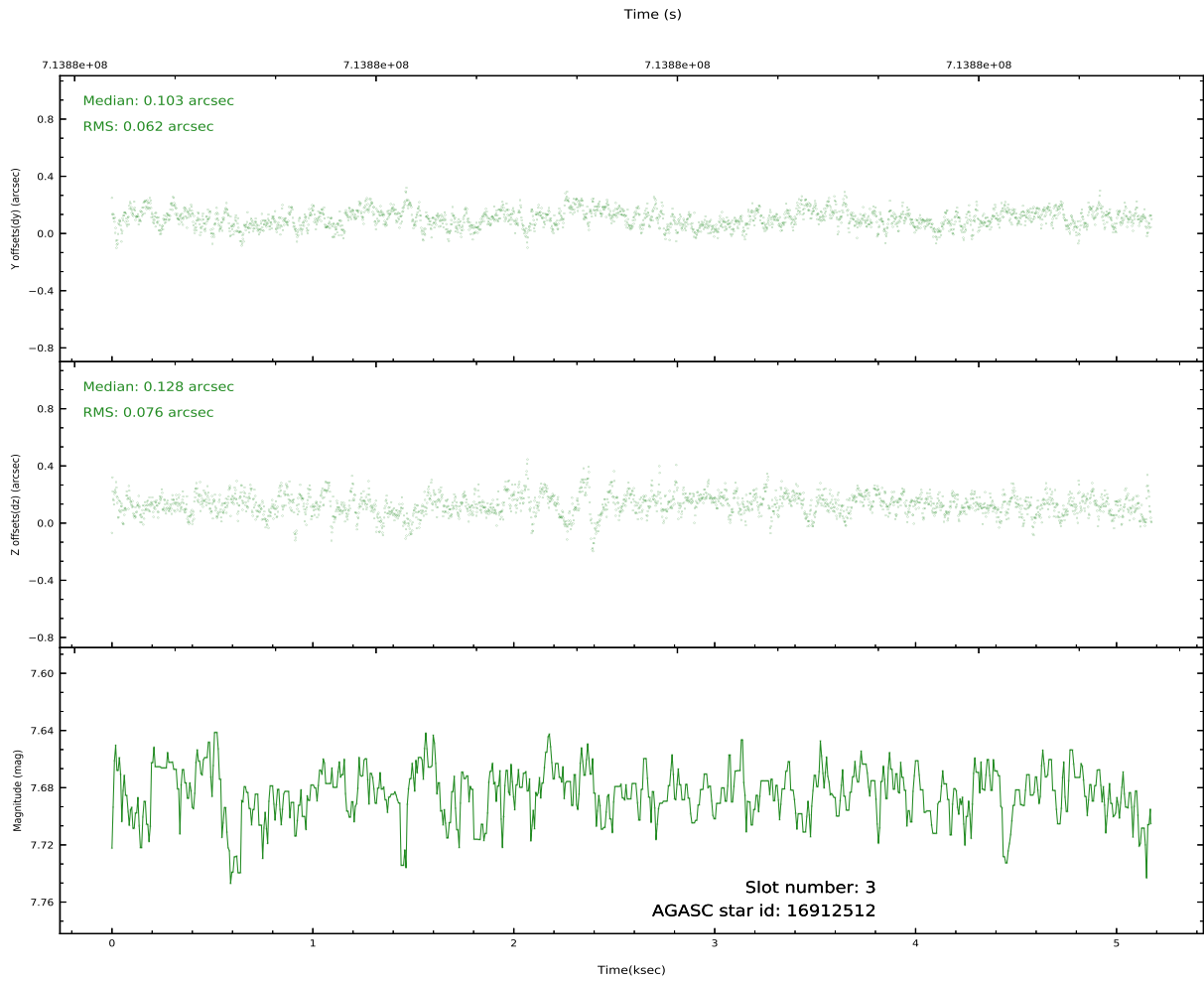
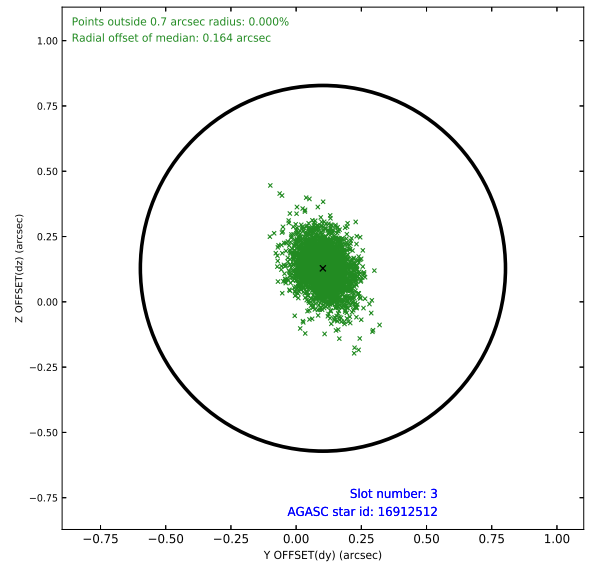
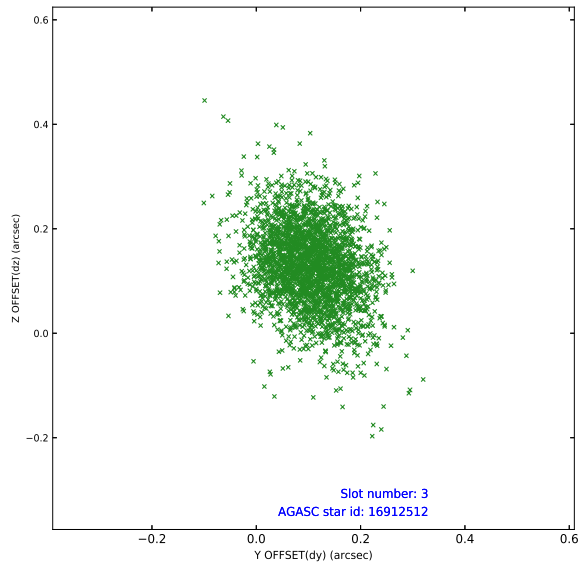


Slot Statistics

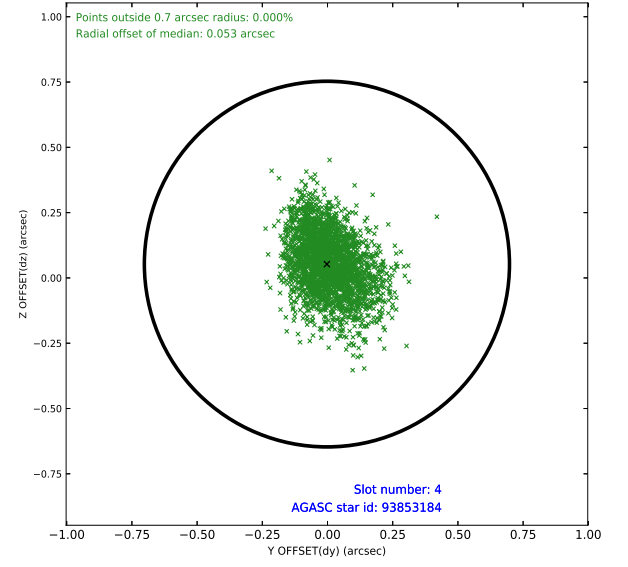
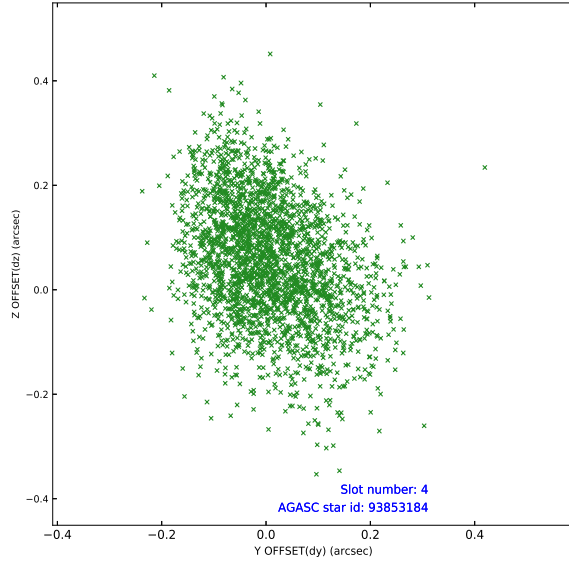
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-2	7.06	1263	1.000	0.303	-0.157	0.006	0.012	0.000000	0.000000	844.10	-1310
1	FID		HRC-I-3	7.11	1262	1.000	-0.306	0.239	0.006	0.012	0.000000	0.000000	-1196.75	995
2	FID		HRC-I-4	7.05	1263	1.000	0.121	-0.169	0.008	0.014	0.000000	0.000000	1273.34	994
3	GUIDE	used	16912512	7.68	2524	1.000	0.103	0.128	0.102	0.172	88.651510	7.129862	-837.39	703
4	GUIDE	used	93853184	8.82	2523	1.000	-0.002	0.053	0.154	0.257	88.404618	7.718212	1400.96	1202
5	GUIDE	used	93854800	7.55	2524	1.000	-0.214	-0.021	0.112	0.184	88.376308	7.655454	1196.18	1341
6	GUIDE	used	93855160	8.47	2525	1.000	-0.058	-0.210	0.125	0.204	88.514904	7.713359	1315.89	818
7	GUIDE	used	93855056	7.64	2522	1.000	0.161	0.051	0.132	0.226	88.619705	8.054343	2459.89	236

2.4 Star Slots

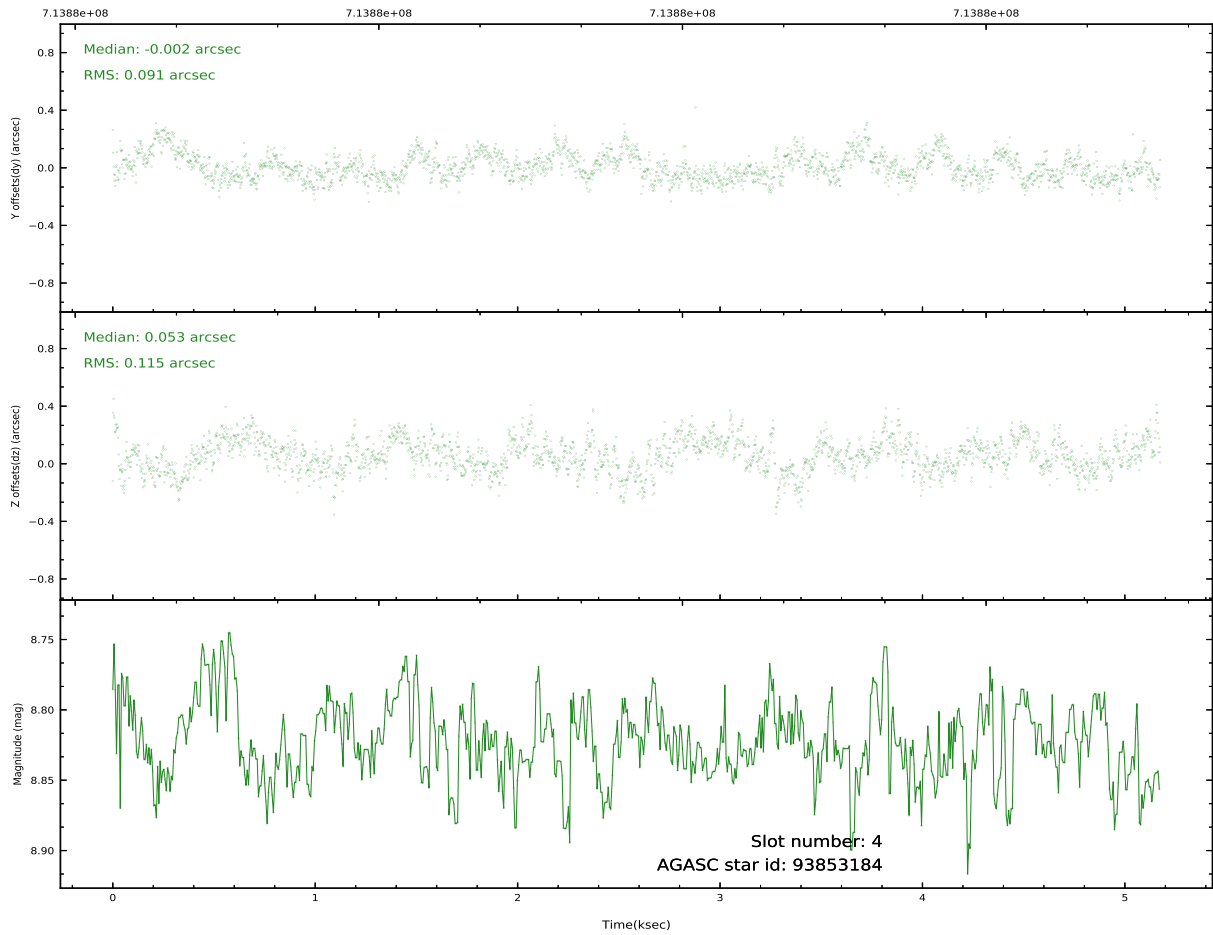
2.4.1 Slot 3



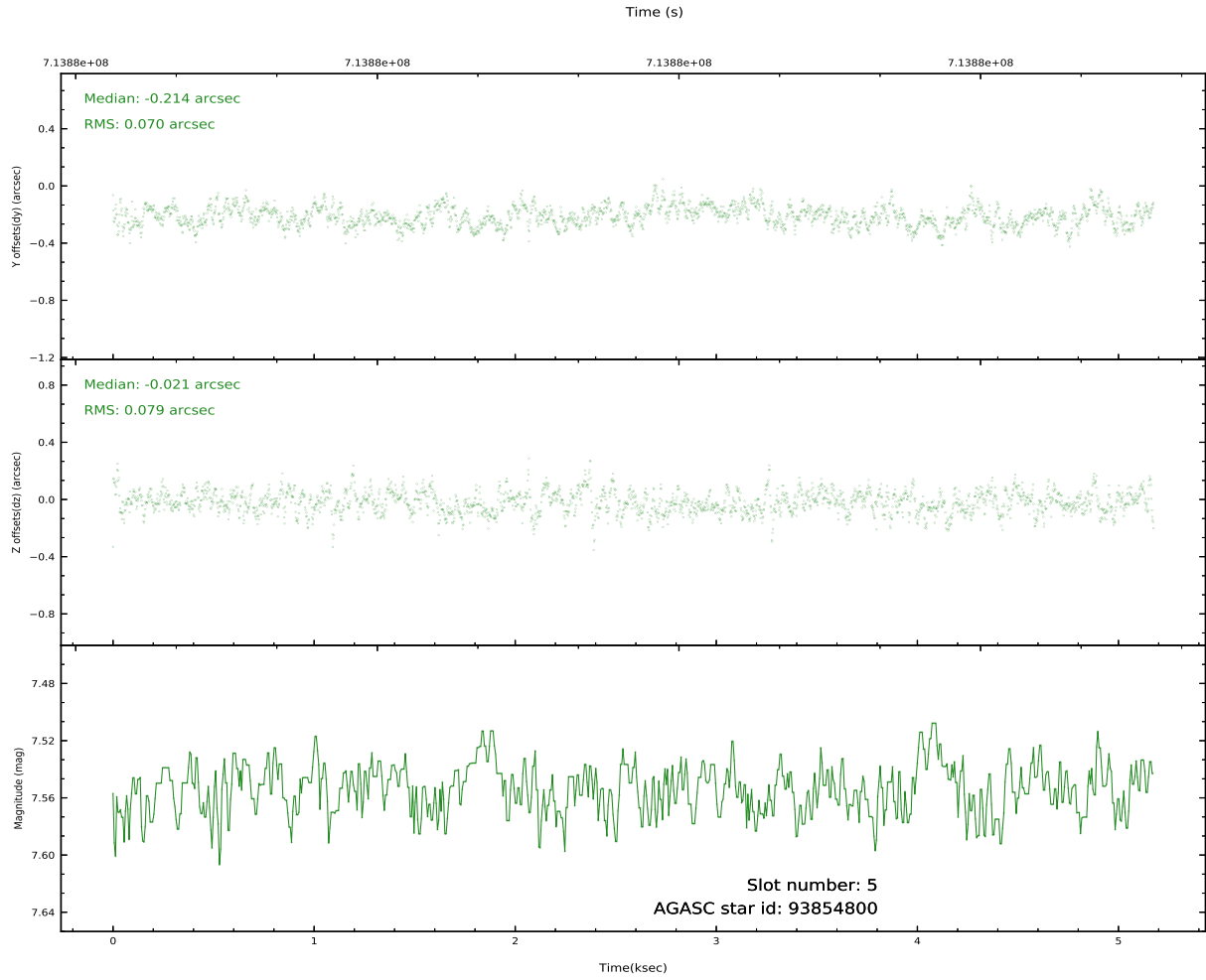
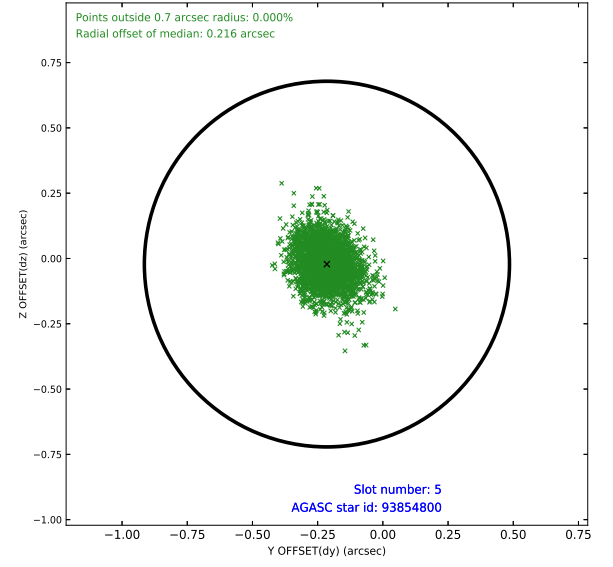
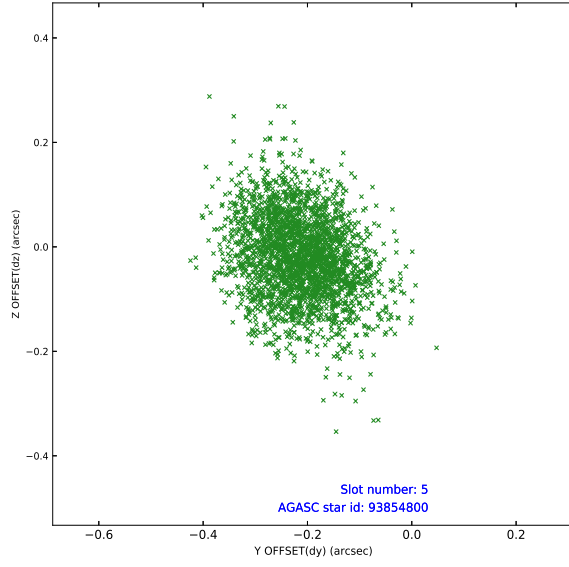
2.4.2 Slot 4



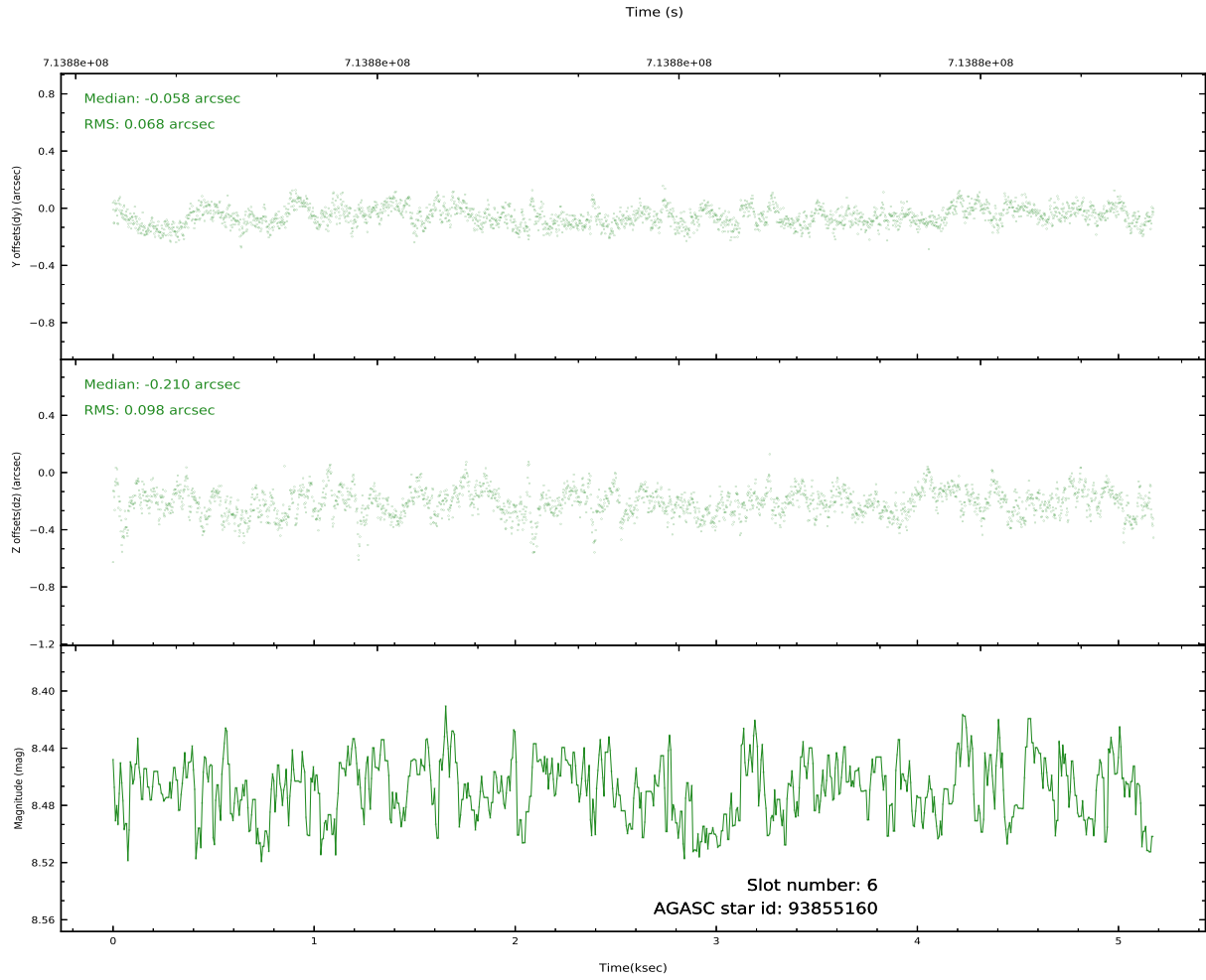
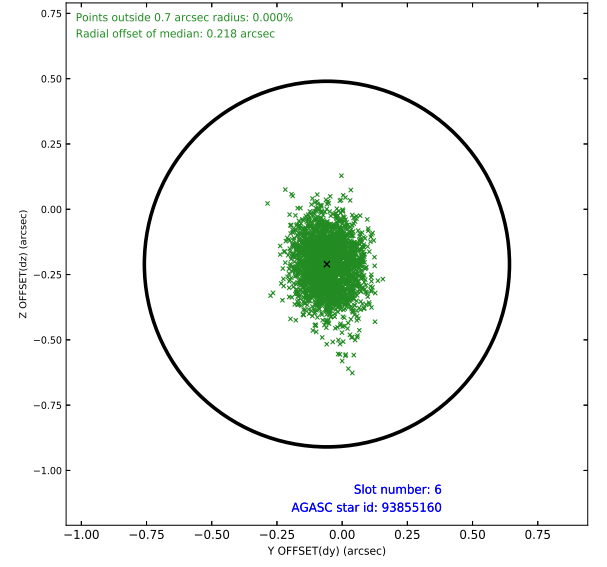
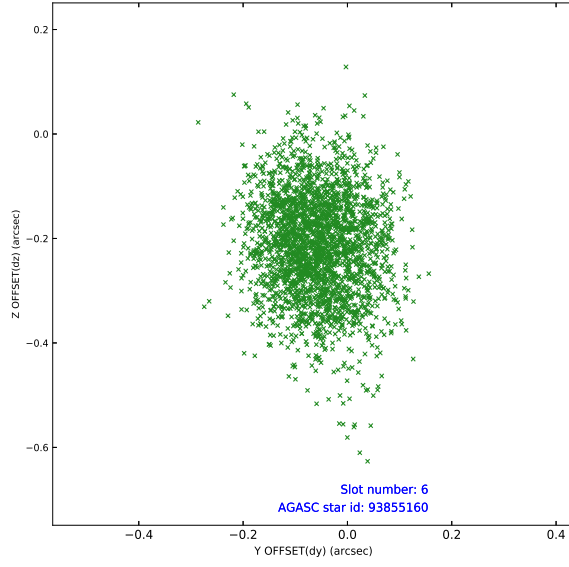
Time (s)



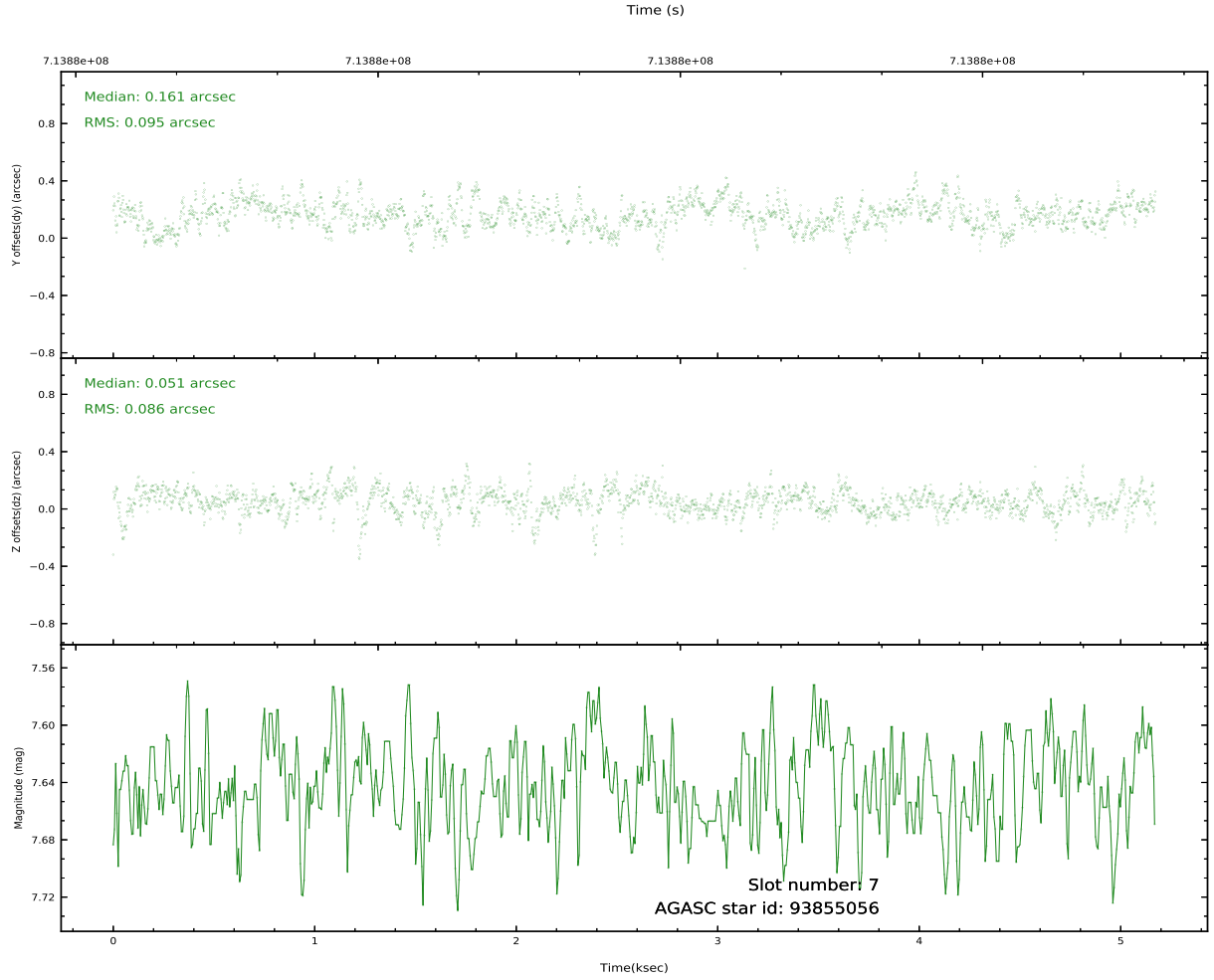
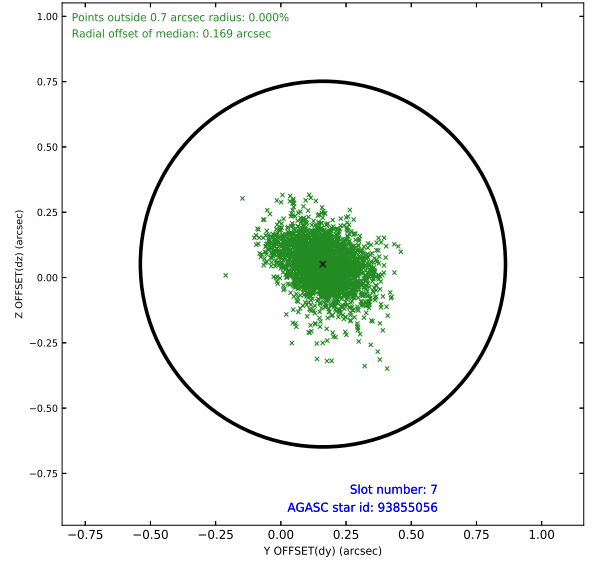
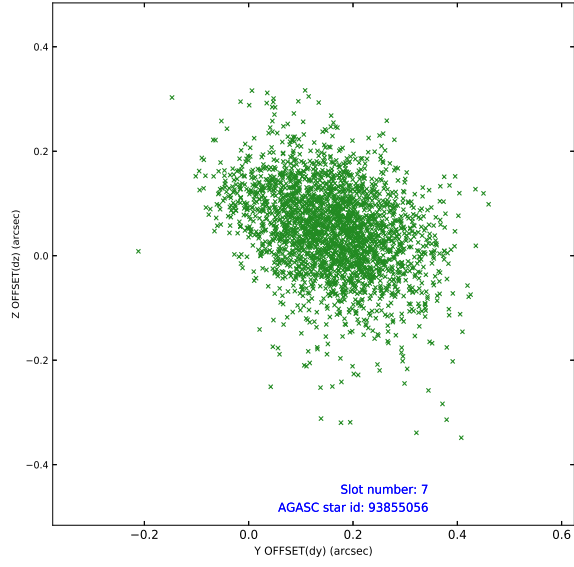
2.4.3 Slot 5



2.4.4 Slot 6

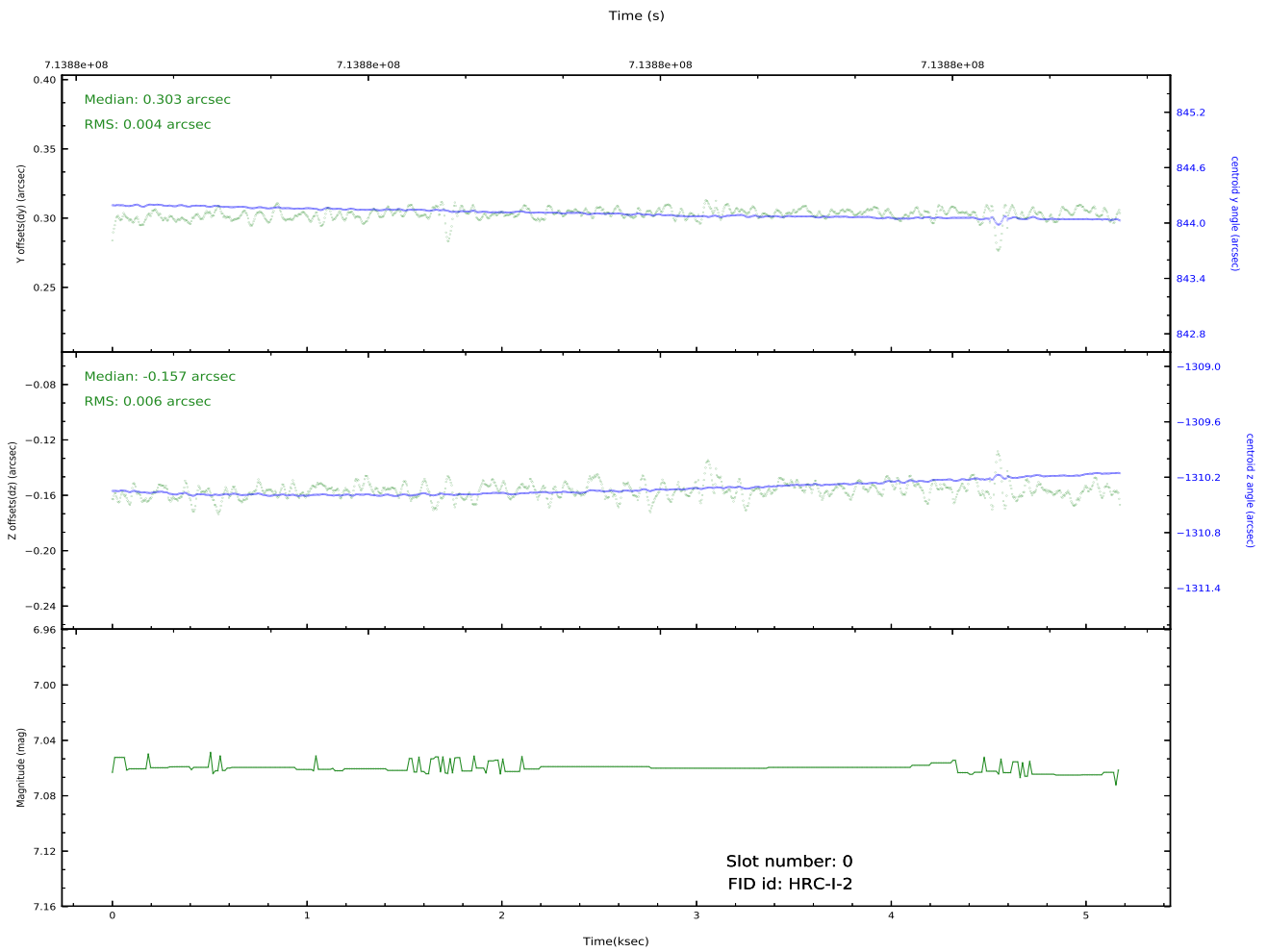
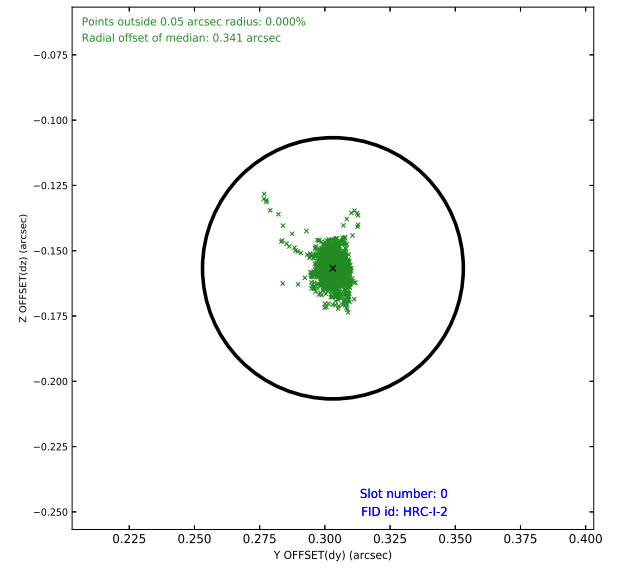
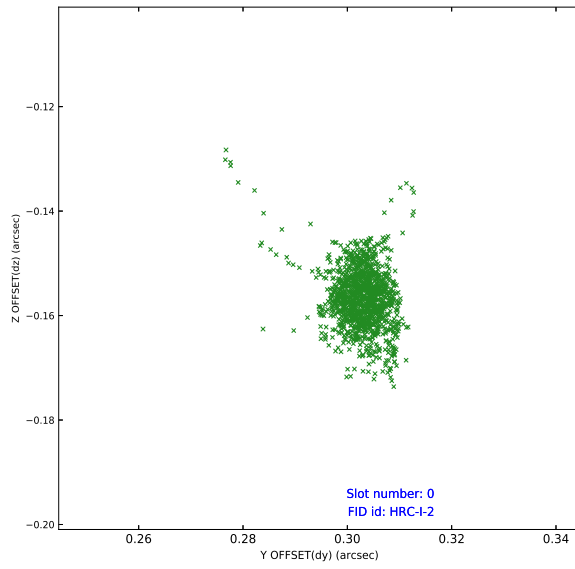


2.4.5 Slot 7

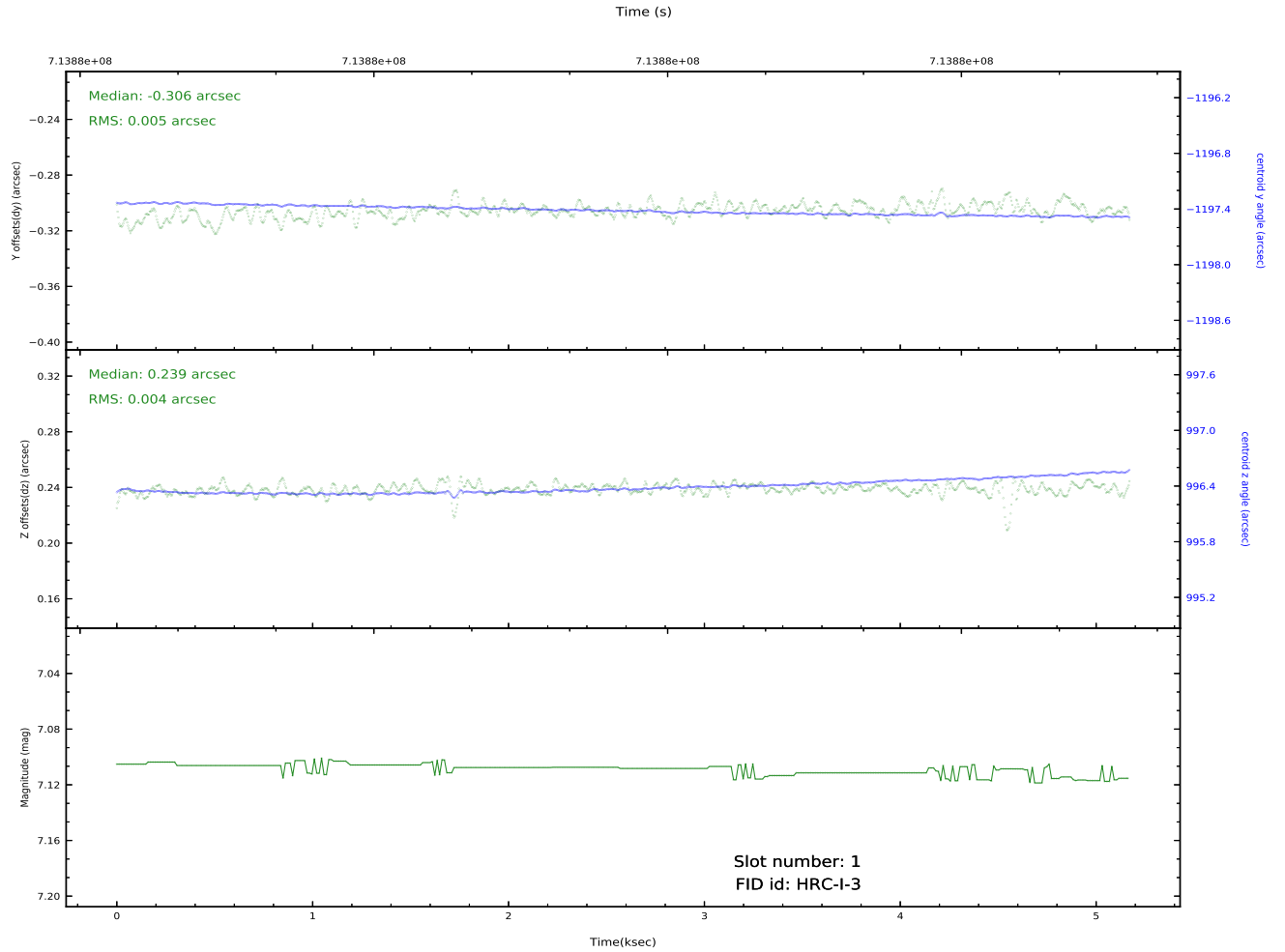
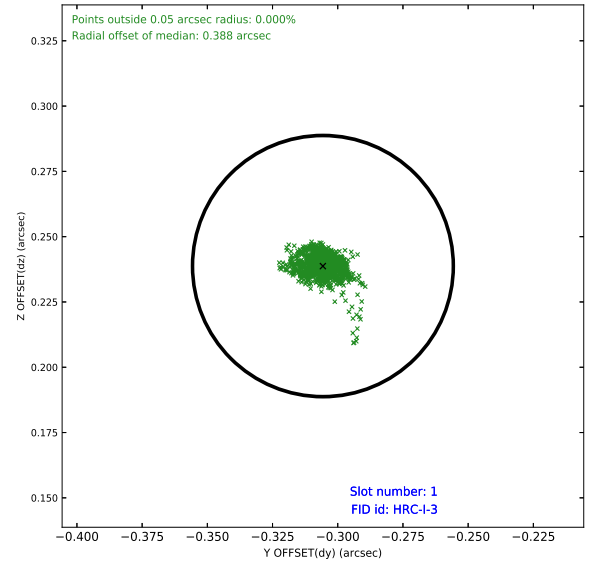
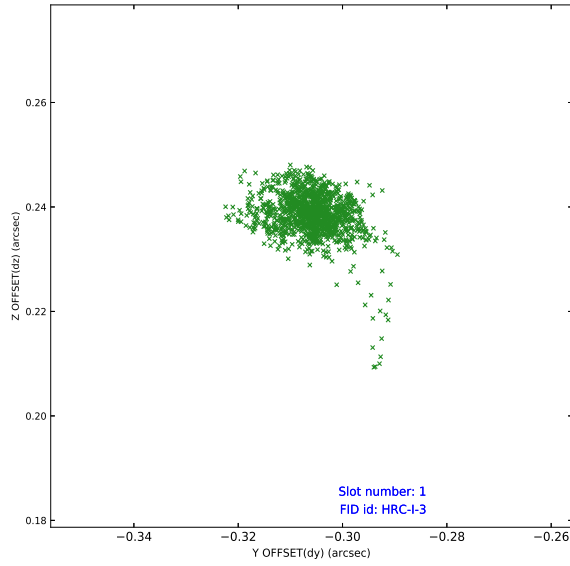


2.5 FID Slots

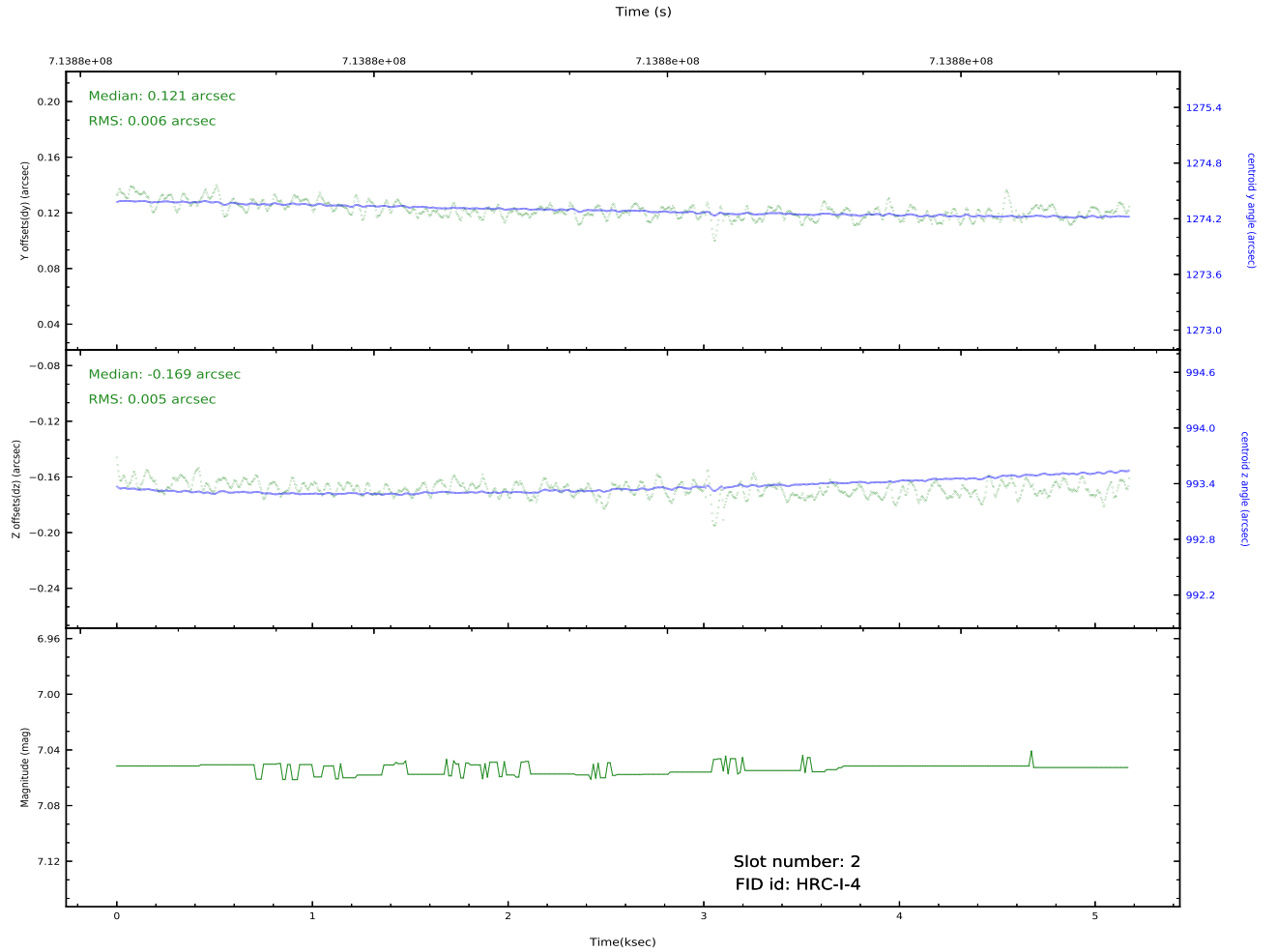
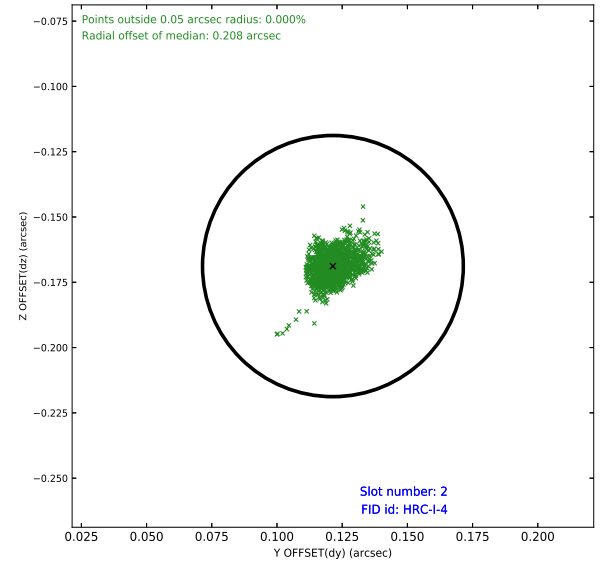
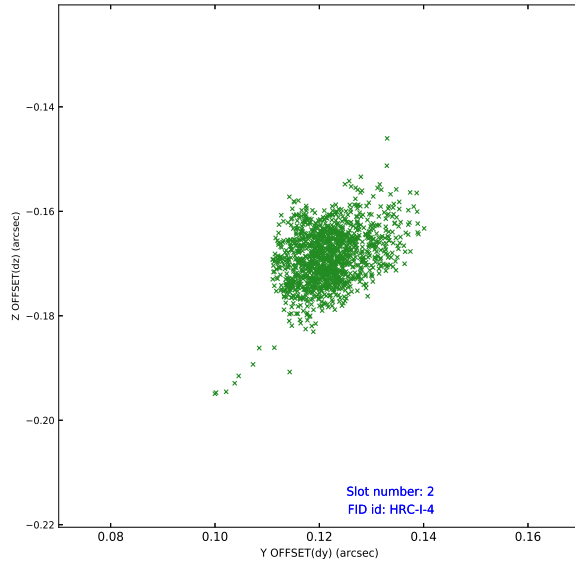
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.08.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0422315580845

A.2 Comments