

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21775 - L2 Version 1
Chandra X-Ray Center

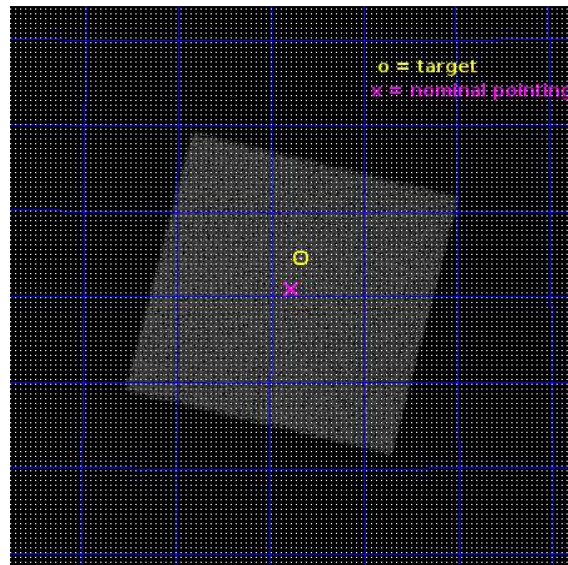
L2 Processing Date : Apr 9 2019

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

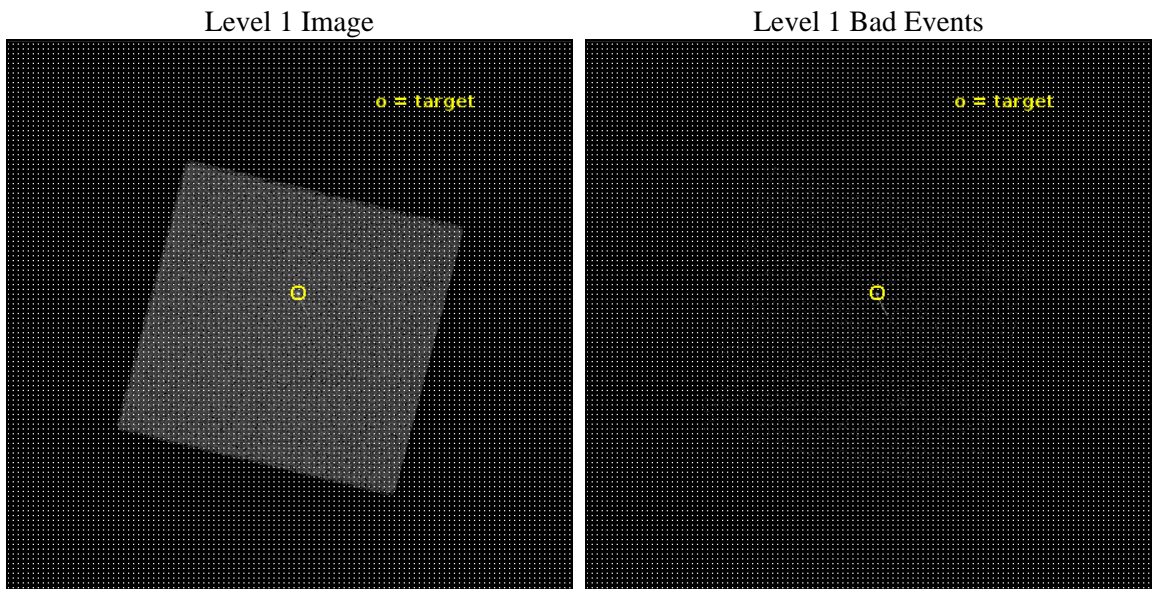
seq_num	291461	Sequence number
obs_id	21775	Observation id
title	AO-20 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.169666	Observer's specified target RA [deg]
dec_targ	45.742509	Observer's specified target Dec [deg]
ra_nom	332.19320031712	Nominal RA [deg]
dec_nom	45.683017811666	Nominal Dec [deg]
roll_nom	59.115582186937	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1194.3813216686	[s]
livetime	1176.5250615486	Ontime multiplied by DTCOR
l2events	153881	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	10.7.1	Processing system revision	ontime	1194.3813216686	[s]
caldbver	4.8.2	 	l1events	254987	Number of level 1 events
date	2019-04-09T03:55:49	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

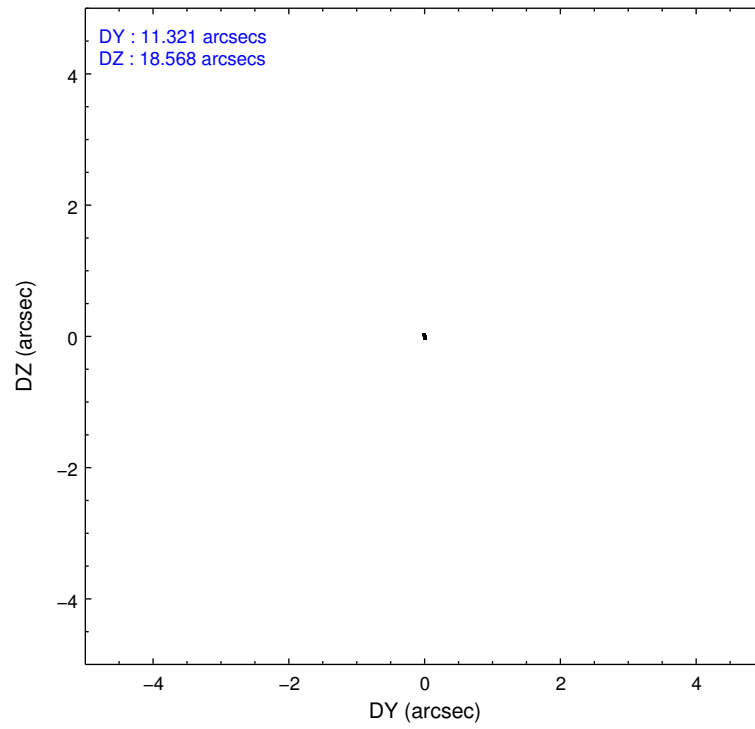
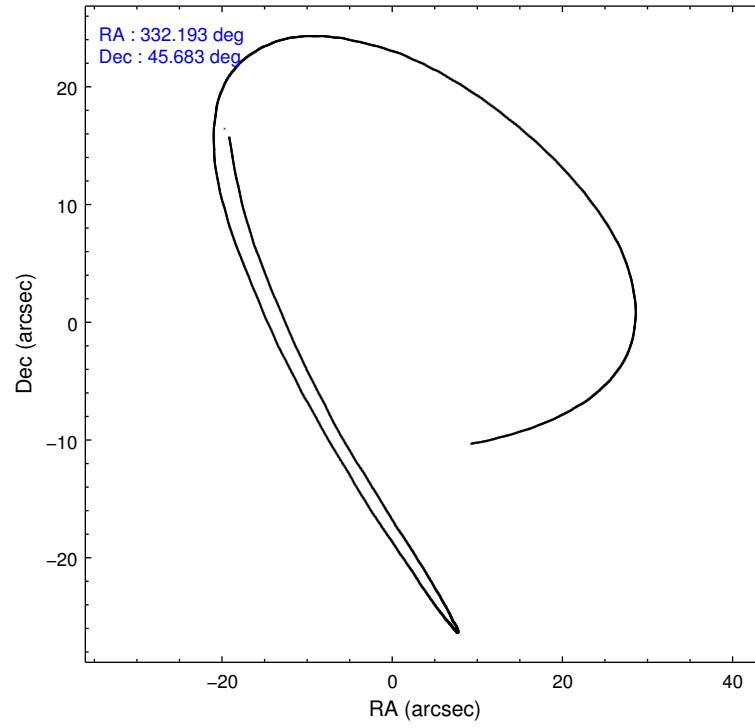
Level 1 Events

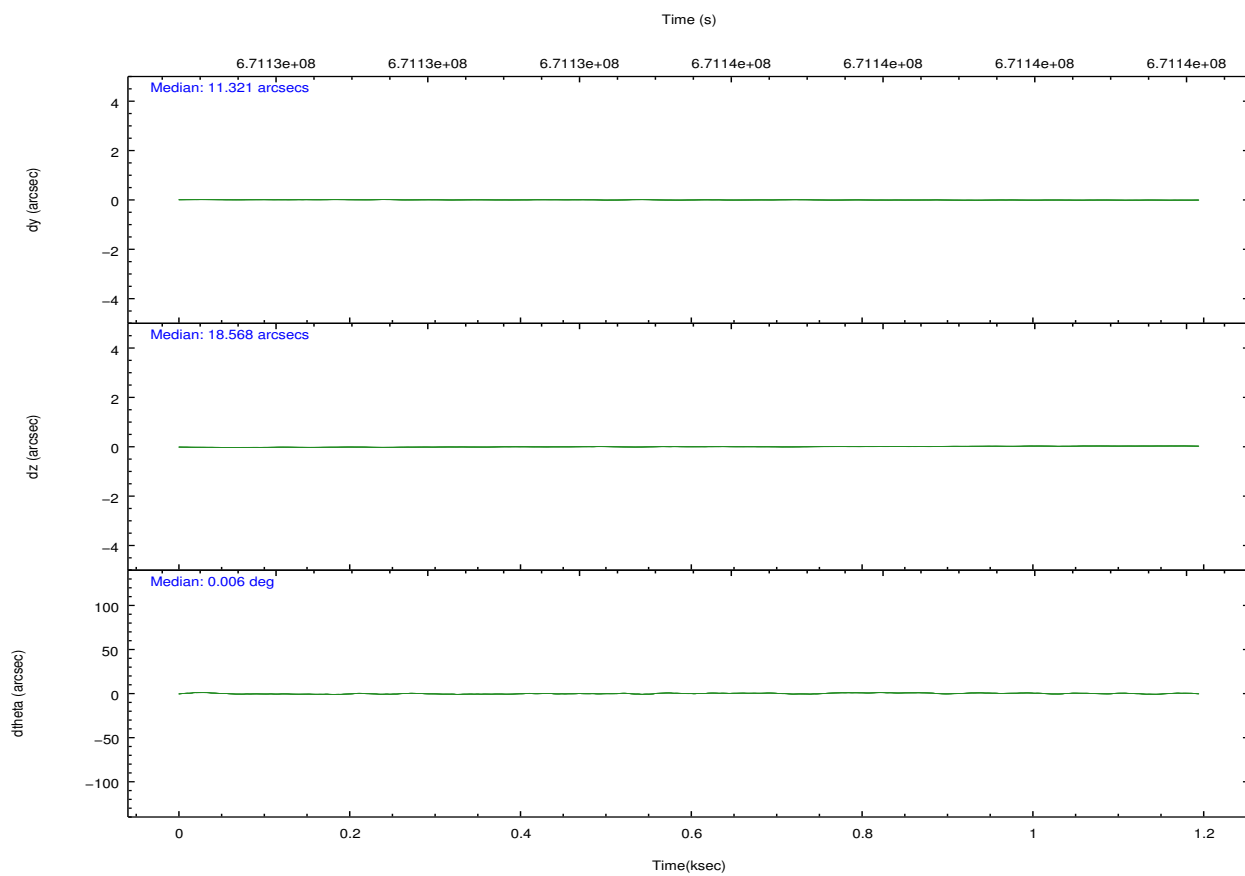
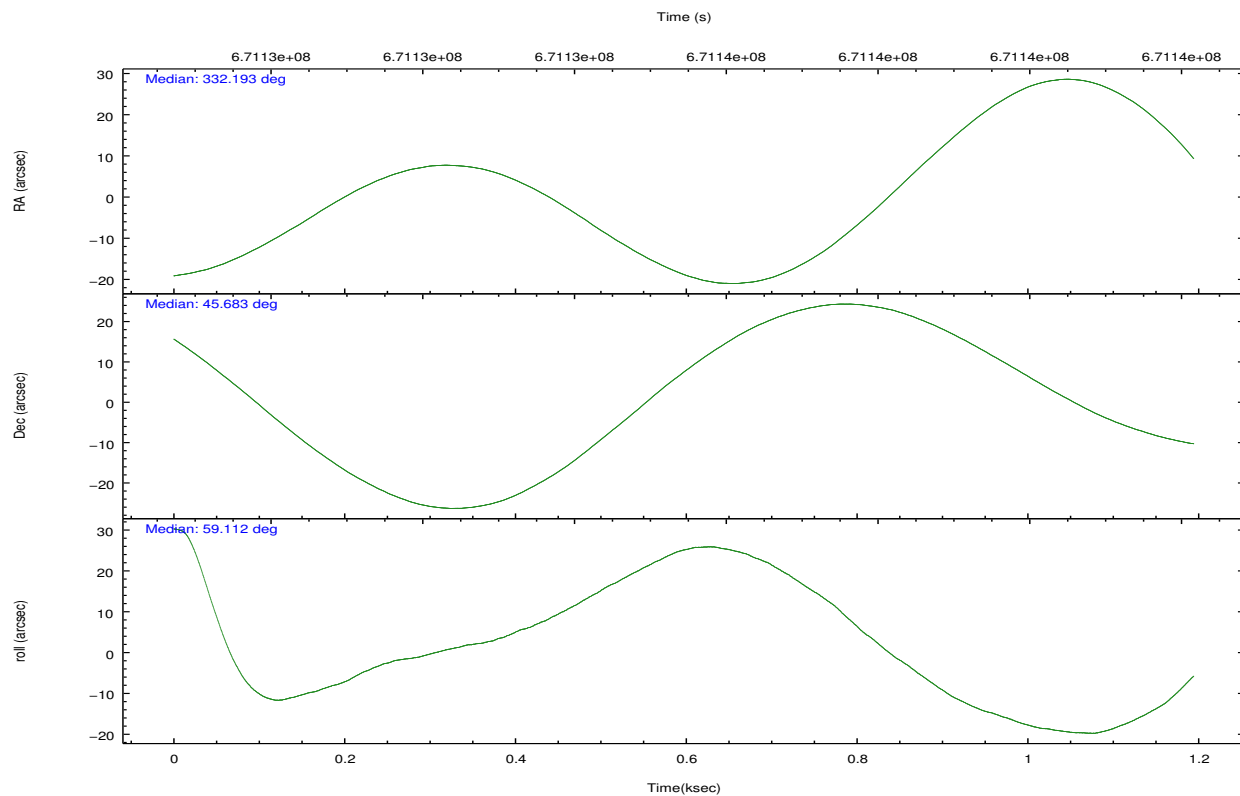
	segment 0
level 1 events	254987
rejected events	53685
rejected %	21%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.192608	332.1932003171195			
[deg] Pointing Dec	45.656048	45.68301781166629			
[deg] Pointing Roll	59.211550	59.11558218693734			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	671134534.184000	671134157.80441			
Observation start date	2019-04-08T18:14:25	2019-04-08T18:09:17			
[s] Observation end time (MET)	671135534.184000	671135667.6295			
Observation end date	2019-04-08T18:31:05	2019-04-08T18:34:27			

2.3 Aspect



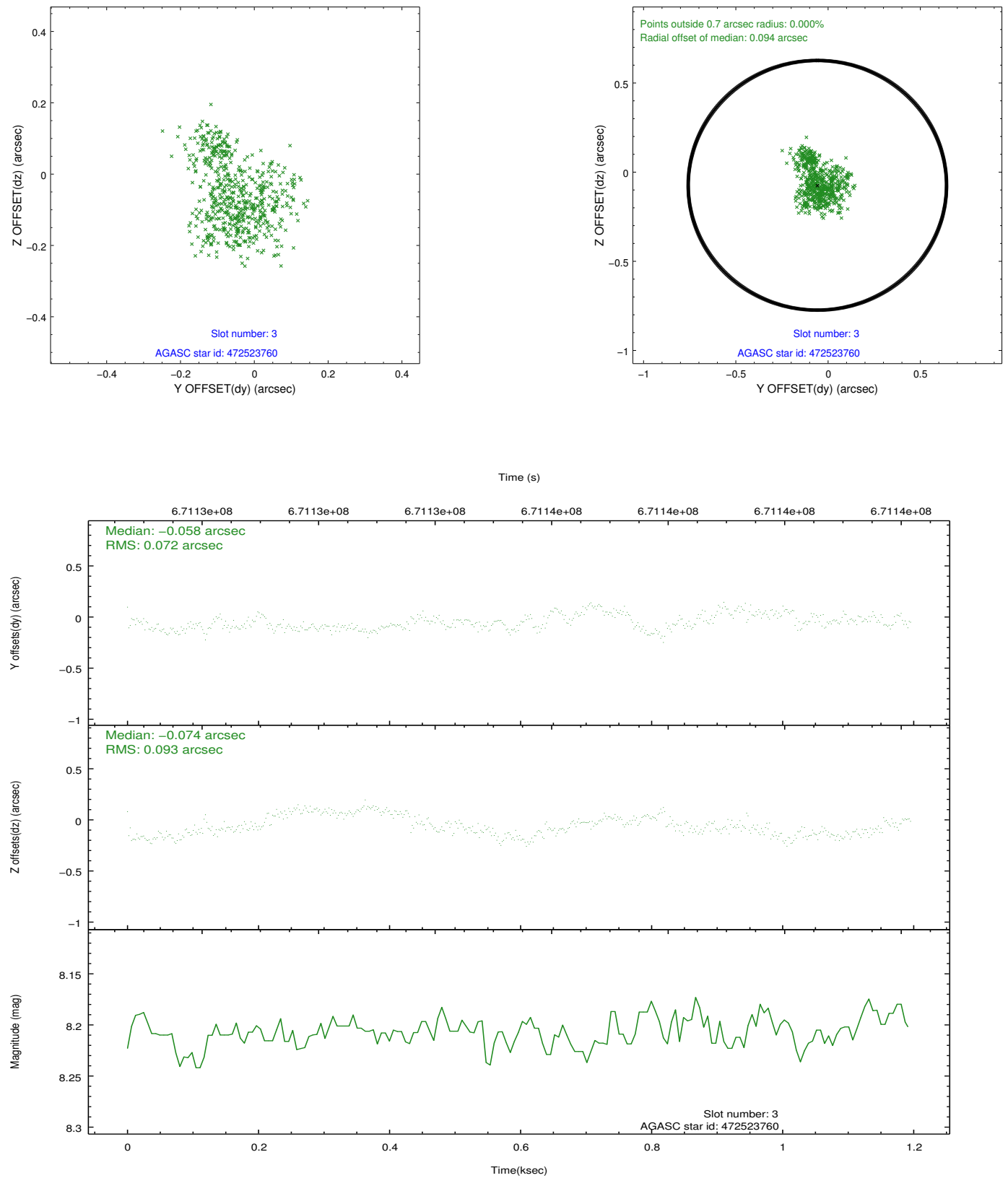


Slot Statistics

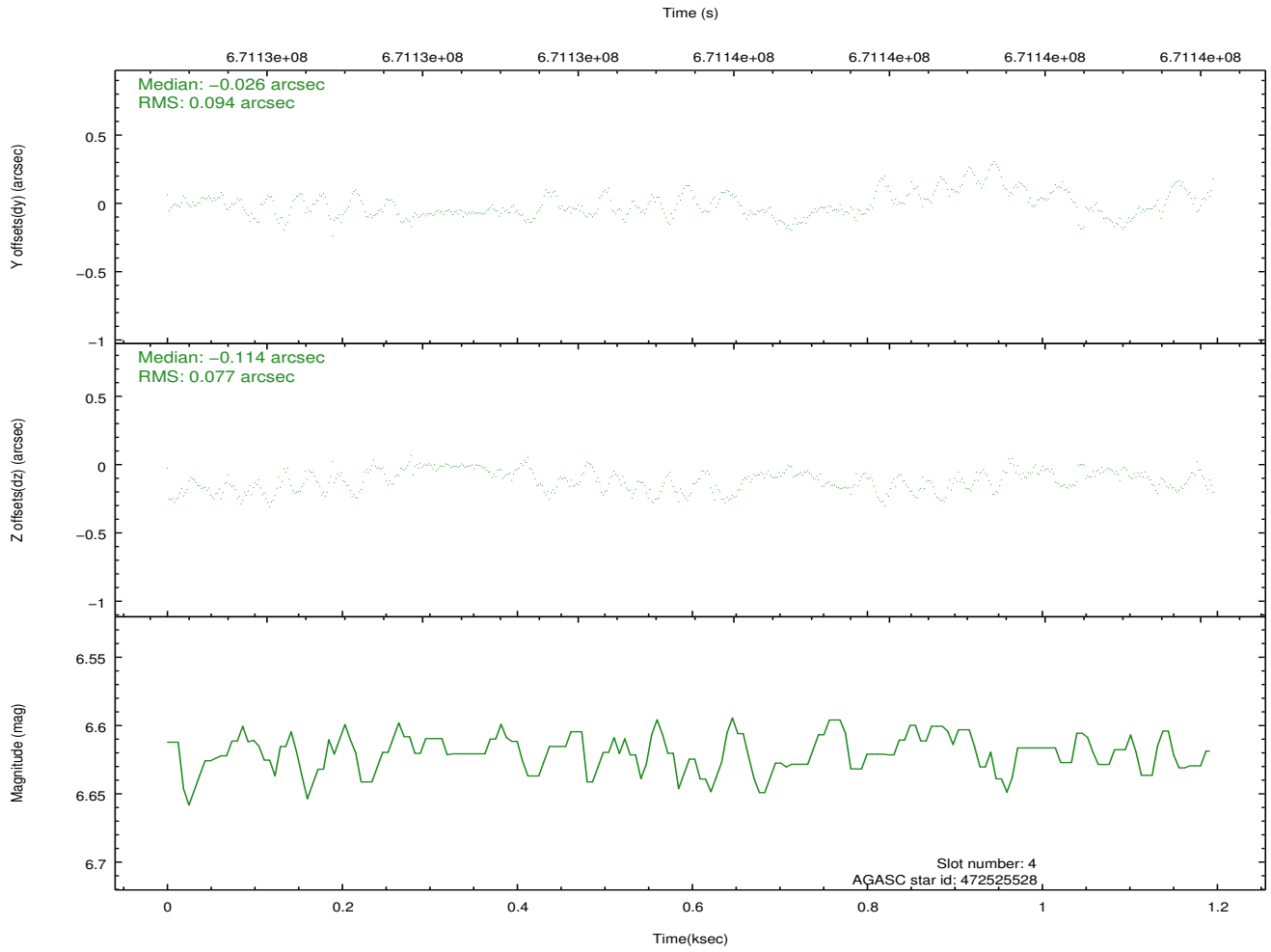
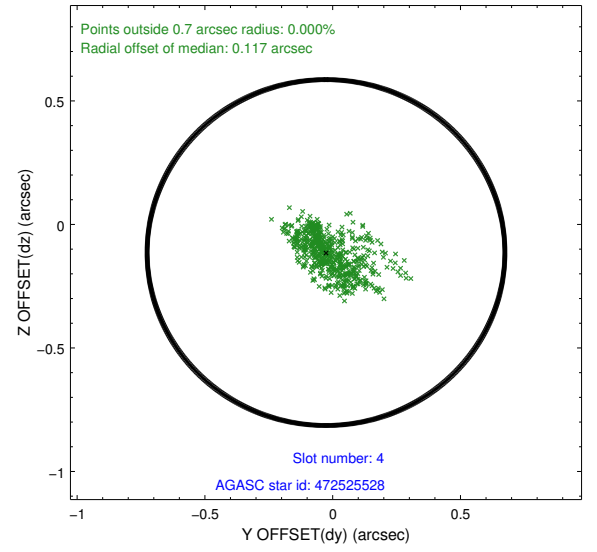
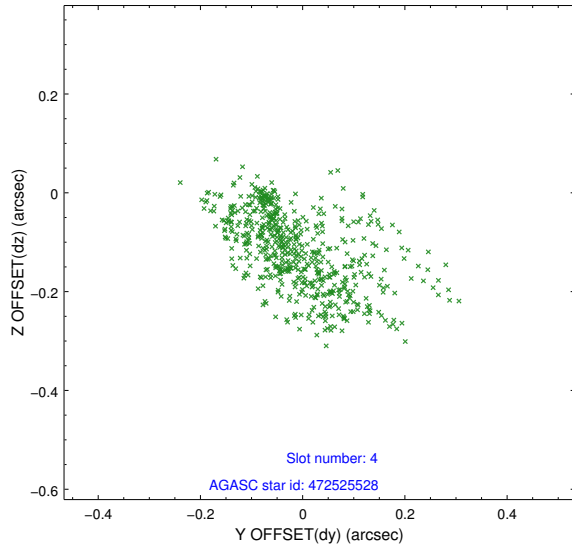
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.02	292	1.000	-0.242	-0.049	0.009	0.013	0.000000	0.000000	-767.21	-1306
1	FID		HRC-I-2	7.04	292	1.000	0.396	-0.110	0.007	0.012	0.000000	0.000000	843.44	-1312
2	FID		HRC-I-3	7.09	292	1.000	-0.035	0.072	0.007	0.014	0.000000	0.000000	-1192.68	993
3	GUIDE	used	472523760	8.21	584	1.000	-0.058	-0.074	0.131	0.195	331.645363	45.403260	-1486.00	727
4	GUIDE	used	472525528	6.62	584	1.000	-0.026	-0.114	0.127	0.209	331.551102	45.248694	-2088.79	652
5	GUIDE	used	472533912	9.13	583	1.000	-0.240	-0.465	0.170	0.262	331.791136	46.368695	1691.77	2174
6	GUIDE	used	472665256	8.99	583	1.000	-0.155	0.164	0.162	0.283	332.808125	46.195041	2459.91	-314
7	GUIDE	used	472649352	9.71	583	1.000	0.466	0.490	0.281	0.407	332.034169	45.325407	-1222.75	-261

2.4 Star Slots

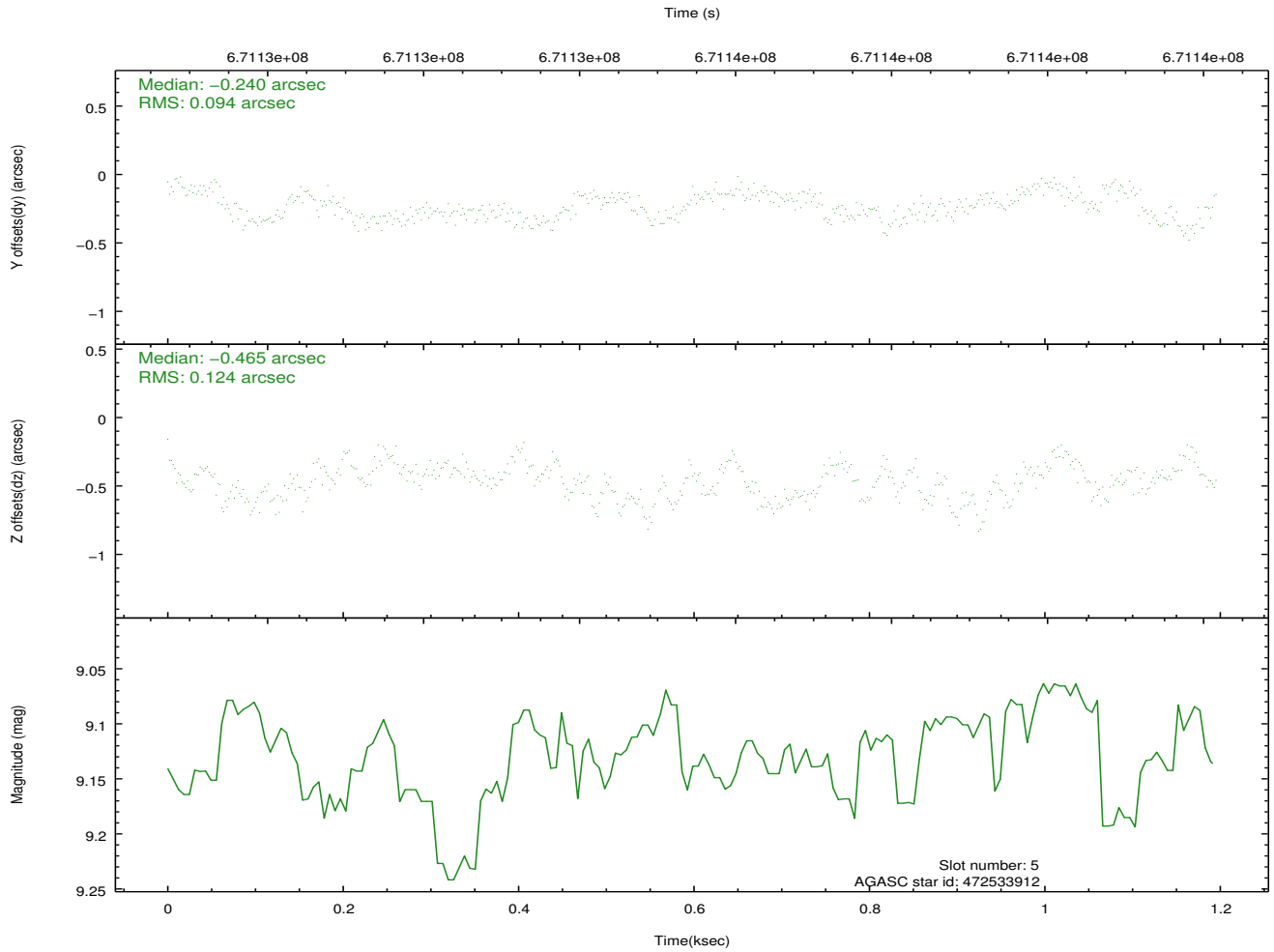
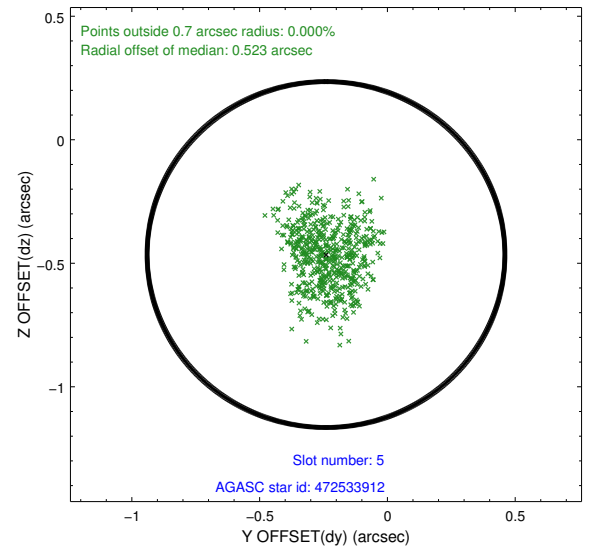
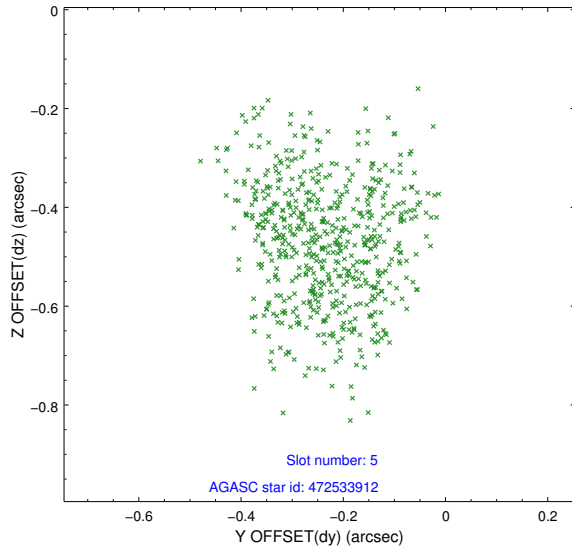
2.4.1 Slot 3



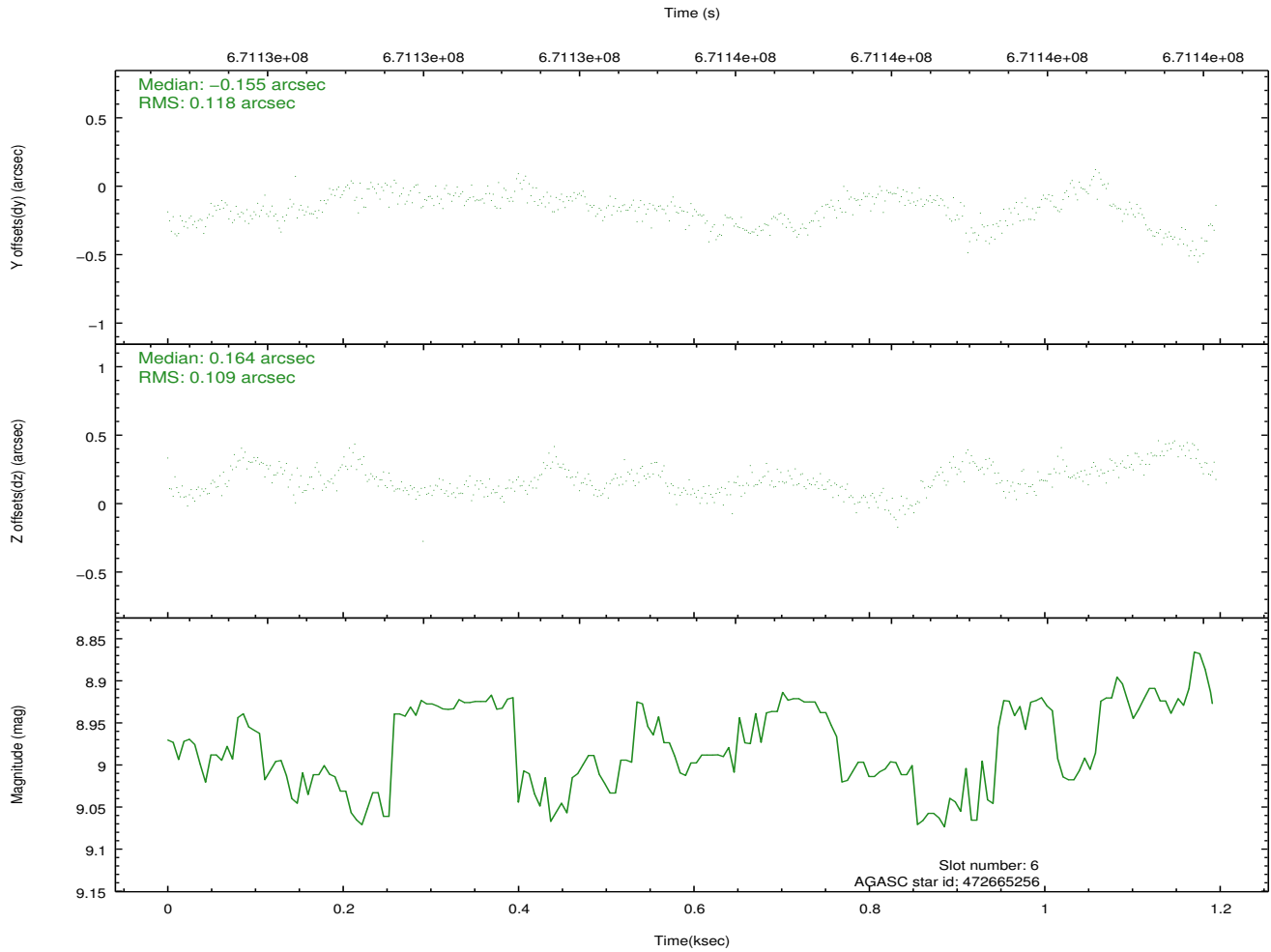
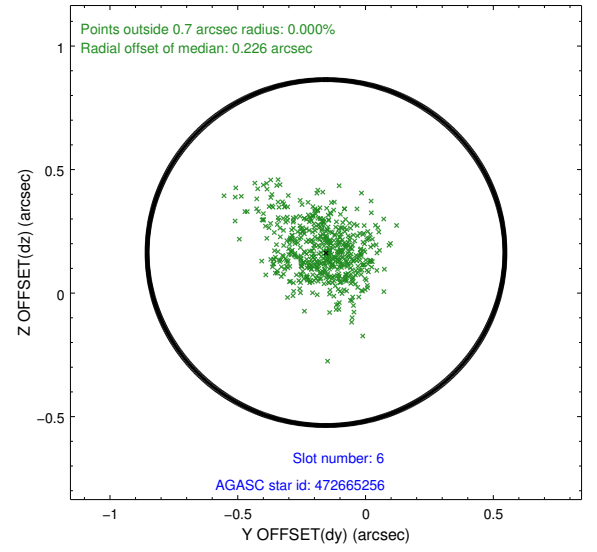
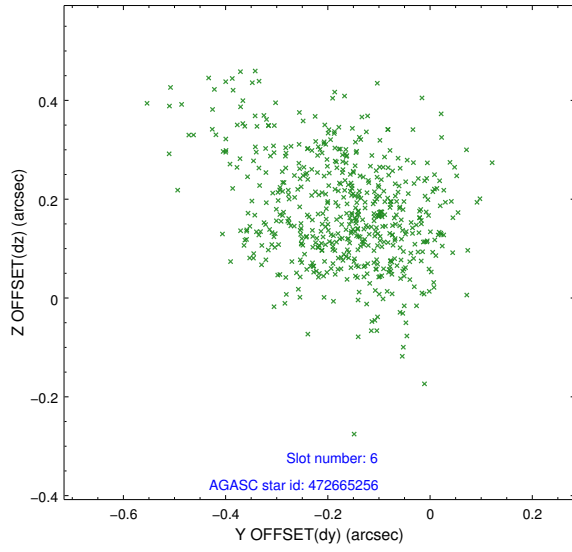
2.4.2 Slot 4



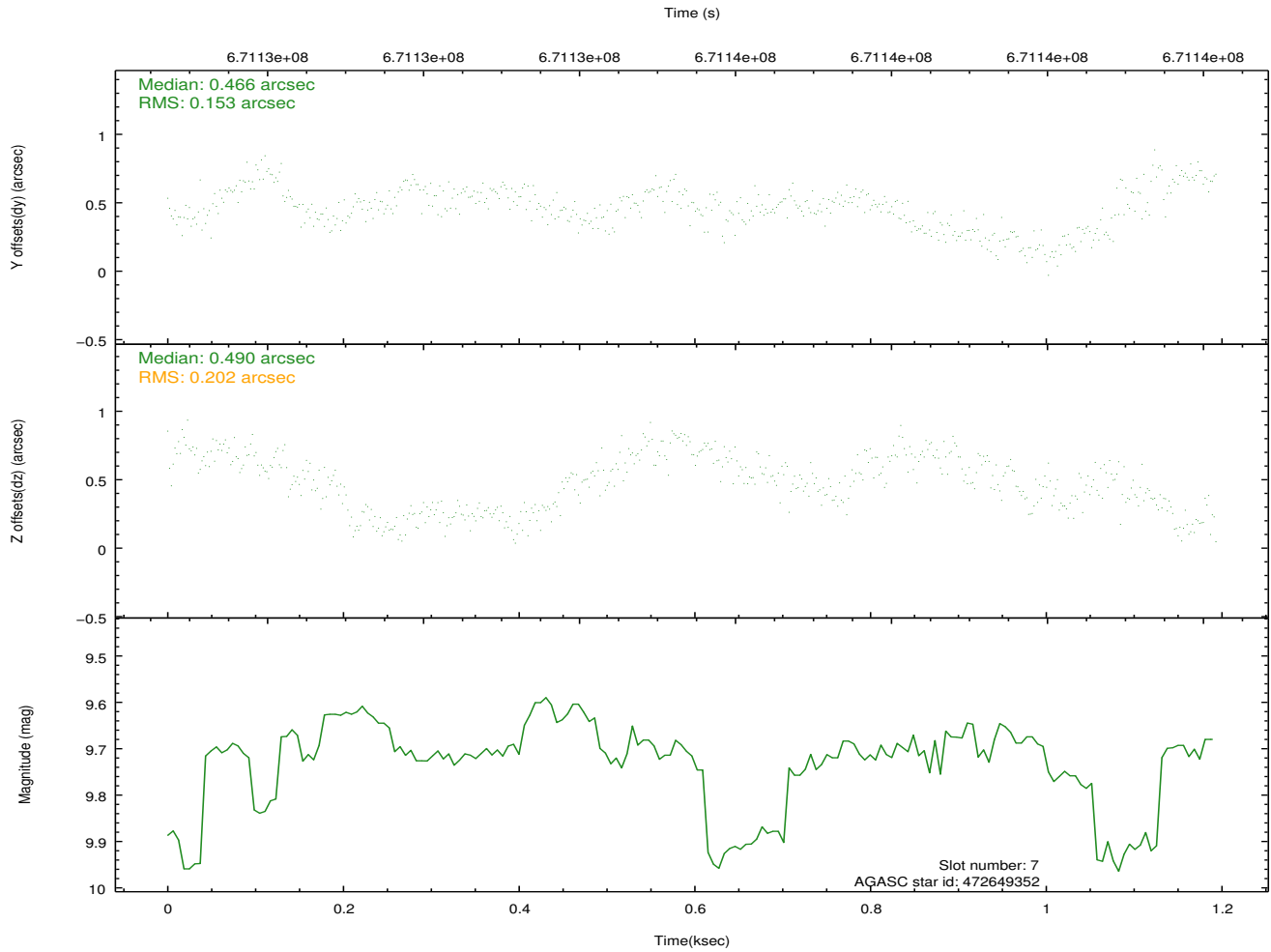
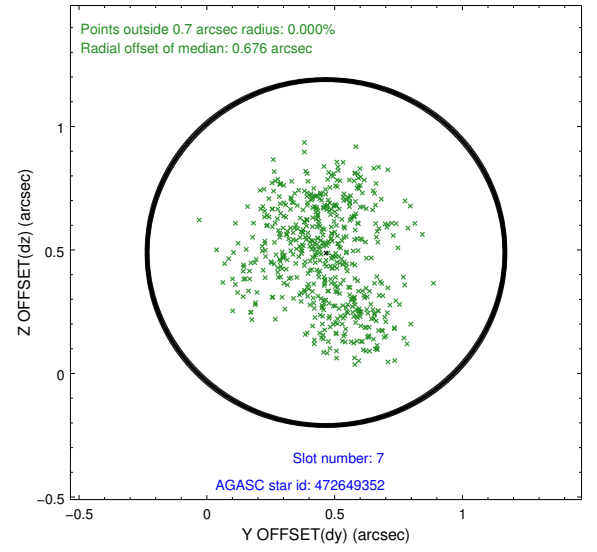
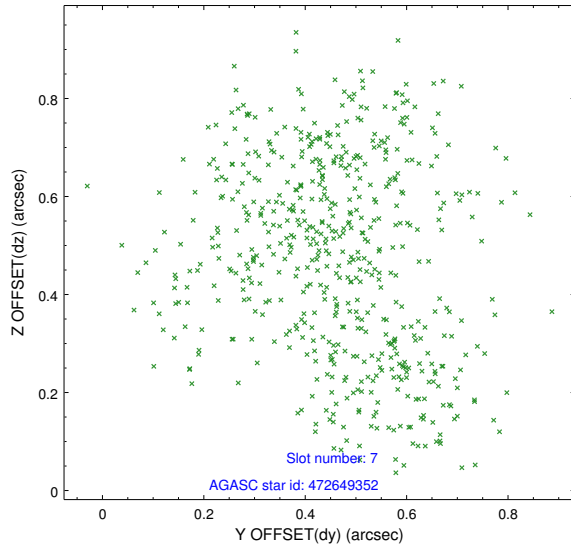
2.4.3 Slot 5



2.4.4 Slot 6

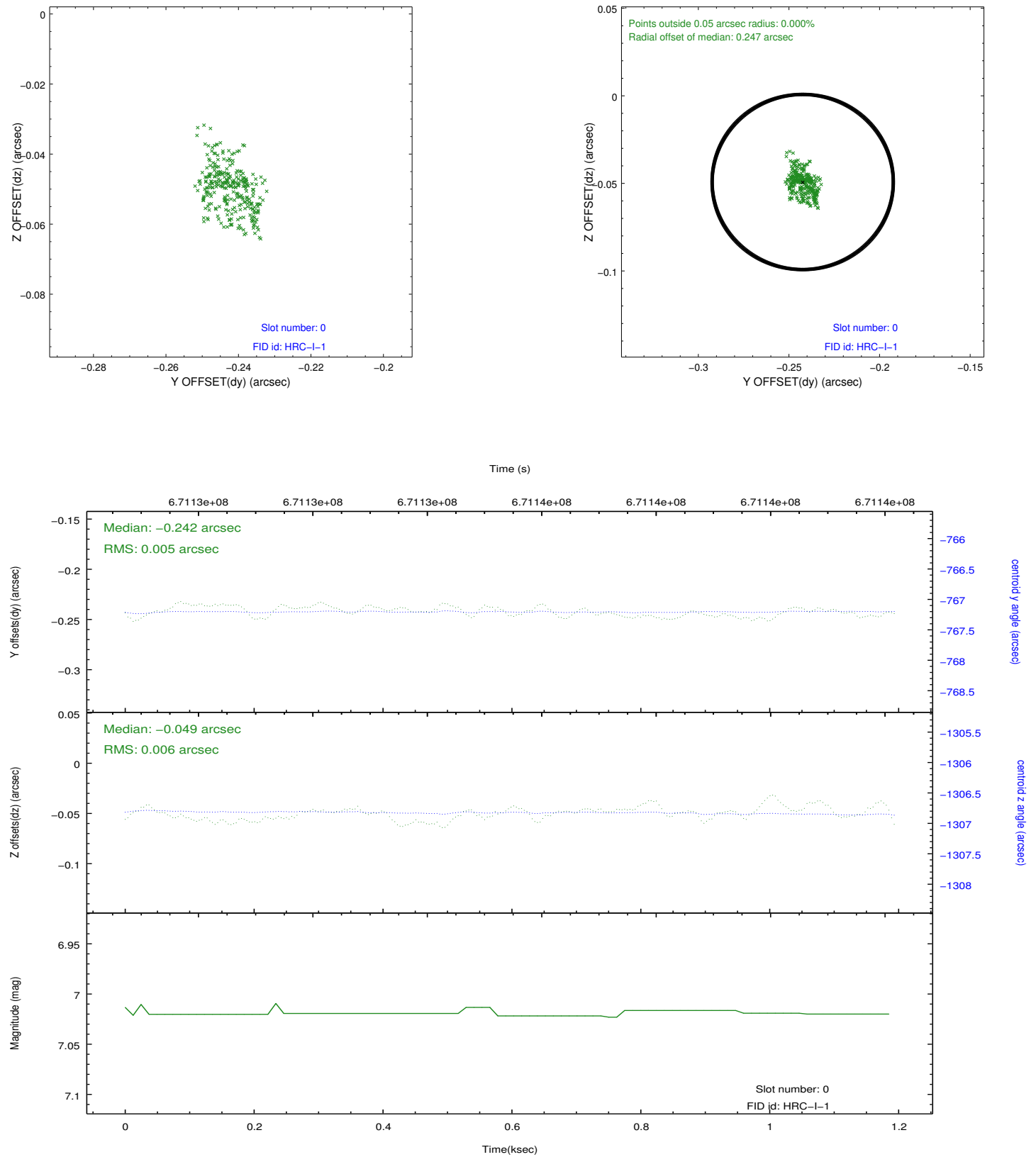


2.4.5 Slot 7

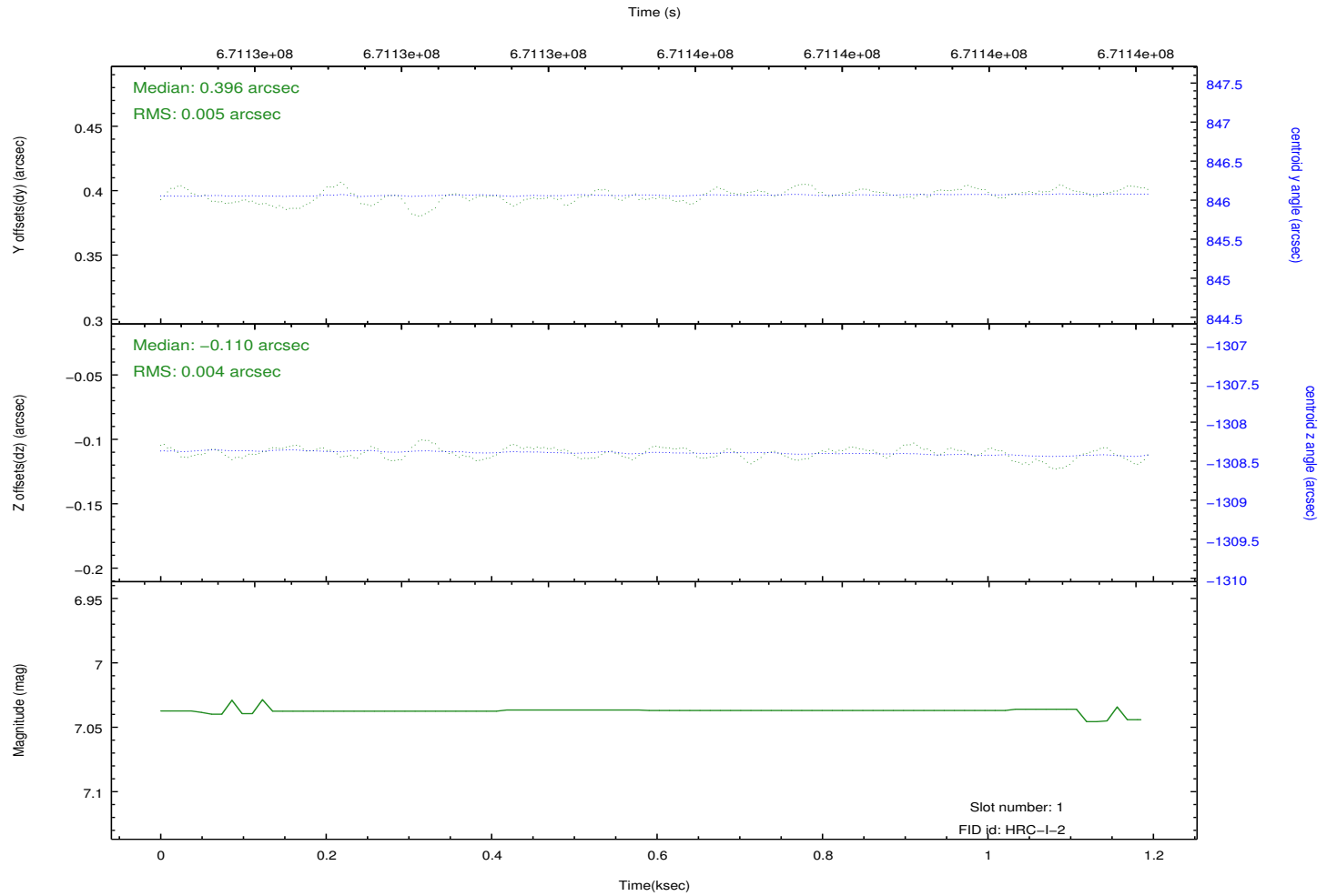
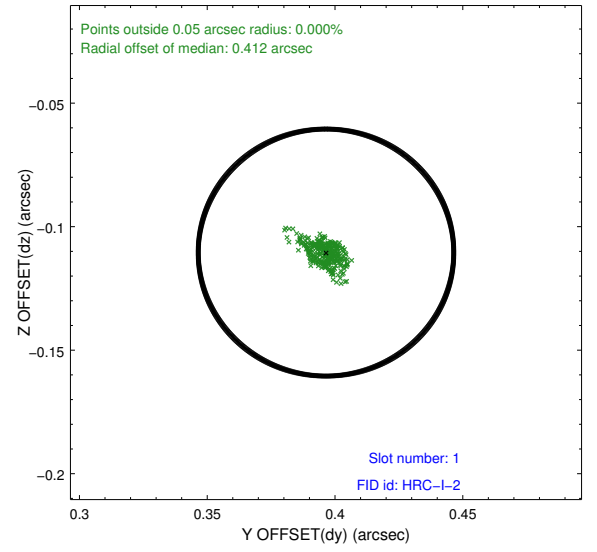
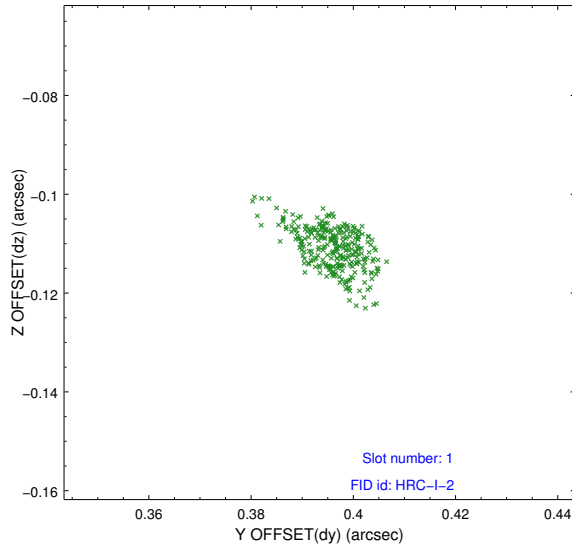


2.5 FID Slots

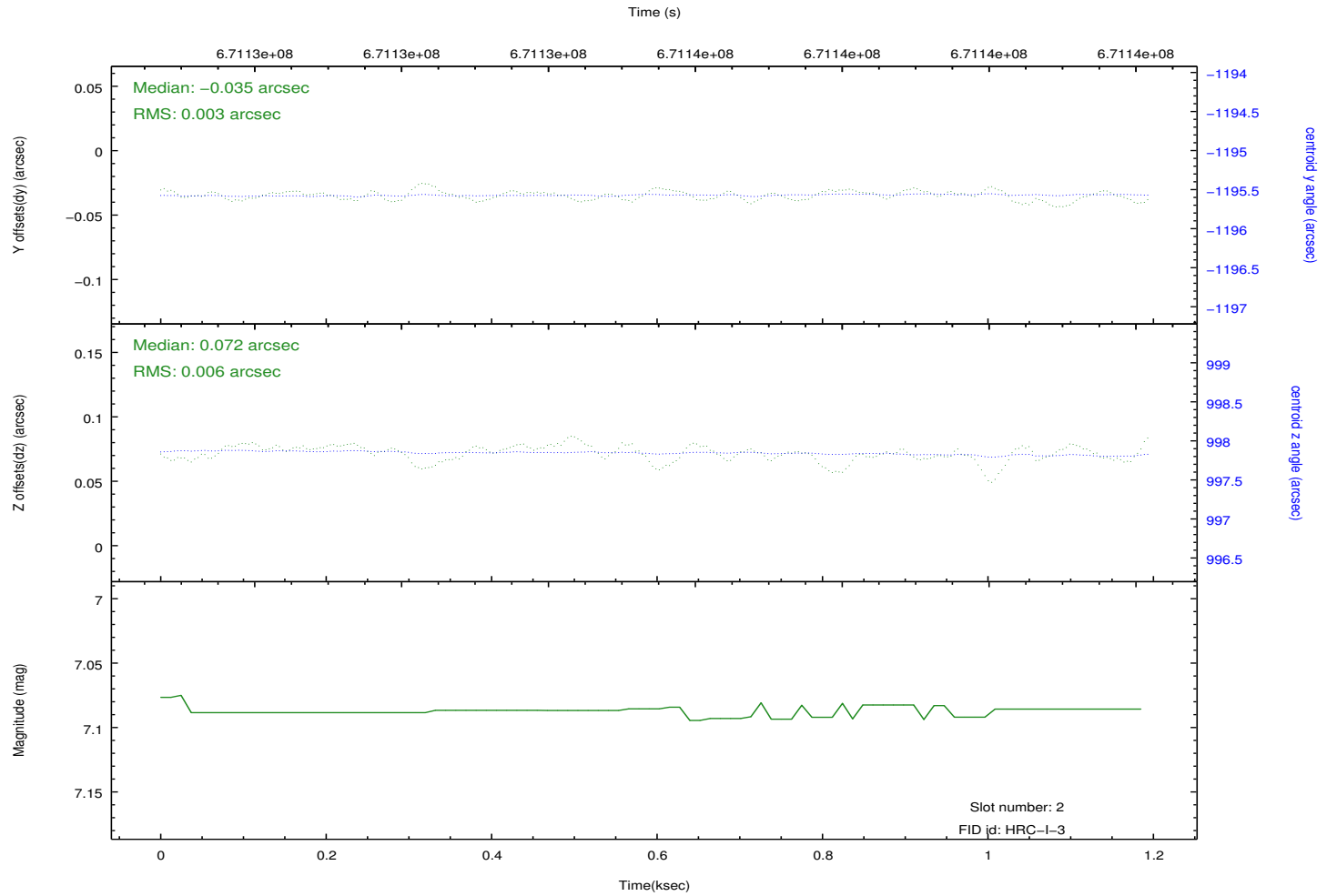
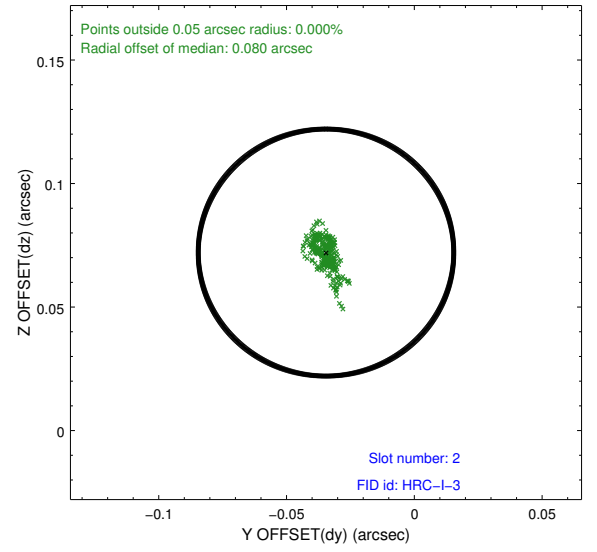
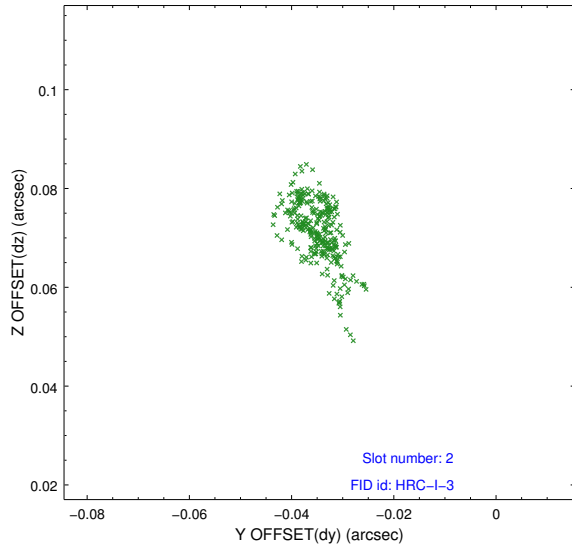
2.5.1 Slot 0



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)	2019.04.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1943813216686

A.2 Comments