

# V&V Reference Report

## L2 ASCDS Version : 10.8

Observation 21751 - L2 Version 1  
Chandra X-Ray Center

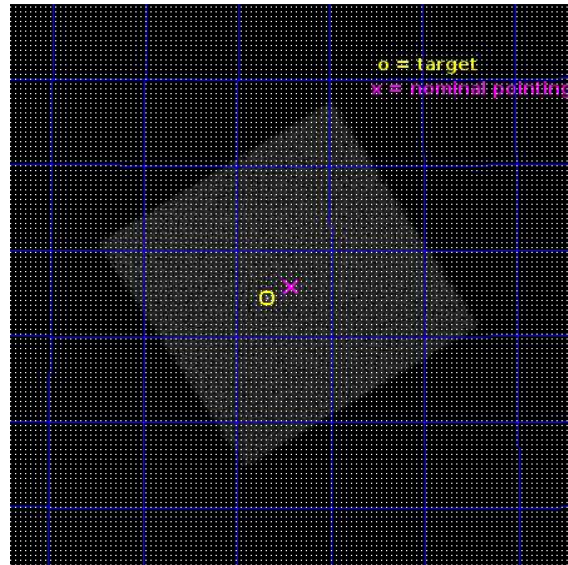
L2 Processing Date : Sep 4 2019

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# 1 Front

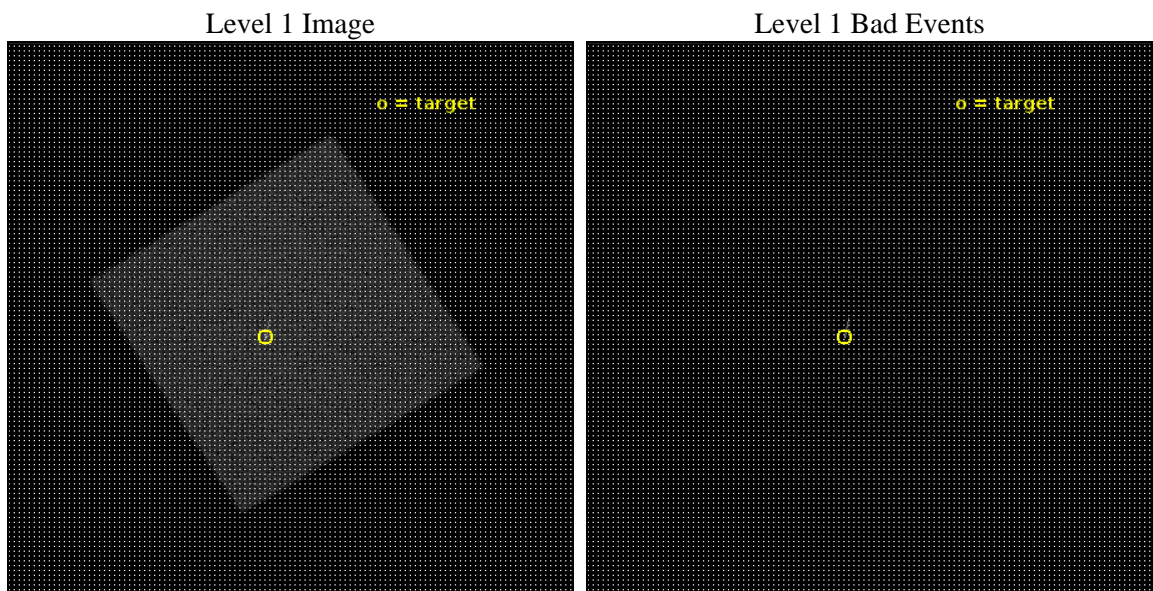
seq_num	291437	Sequence number
obs_id	21751	Observation id
title	AO-20 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.169666	Observer's specified target RA [deg]
dec_targ	45.742509	Observer's specified target Dec [deg]
ra_nom	332.10435202152	Nominal RA [deg]
dec_nom	45.764188483115	Nominal Dec [deg]
roll_nom	192.78692917121	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1194.381321907	[s]
livetime	1176.8481906713	Ontime multiplied by DTCOR
l2events	152679	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	10.8	Processing system revision	ontime	1194.381321907	[s]
caldbver	4.8.4	&#160	l1events	250653	Number of level 1 events
date	2019-09-04T14:37:37	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

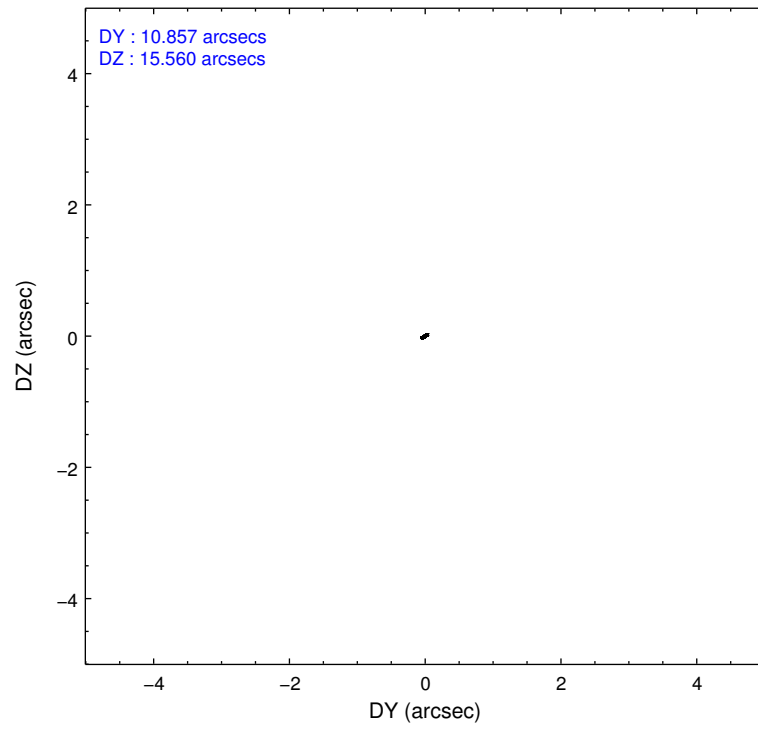
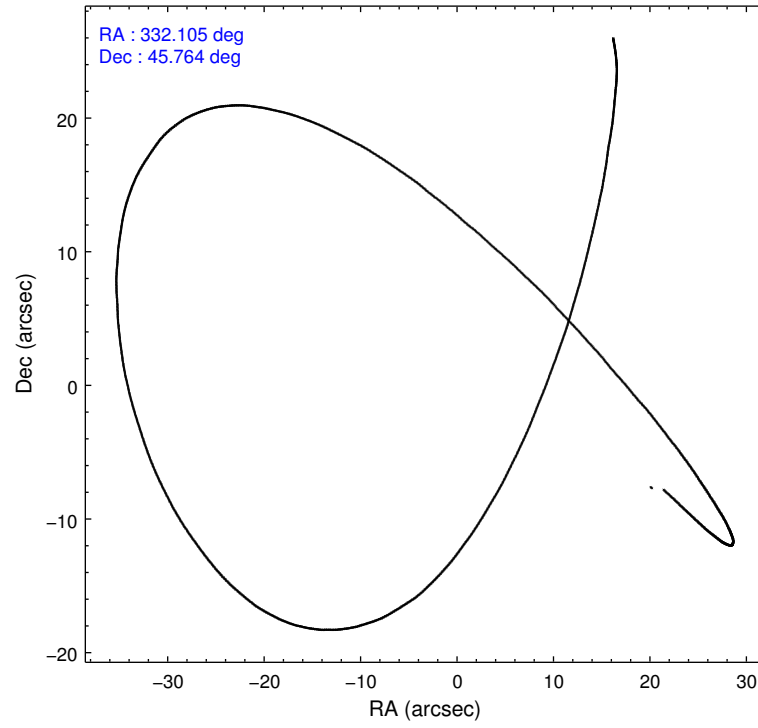
	<b>segment 0</b>
level 1 events	250653
rejected events	51848
rejected %	20%

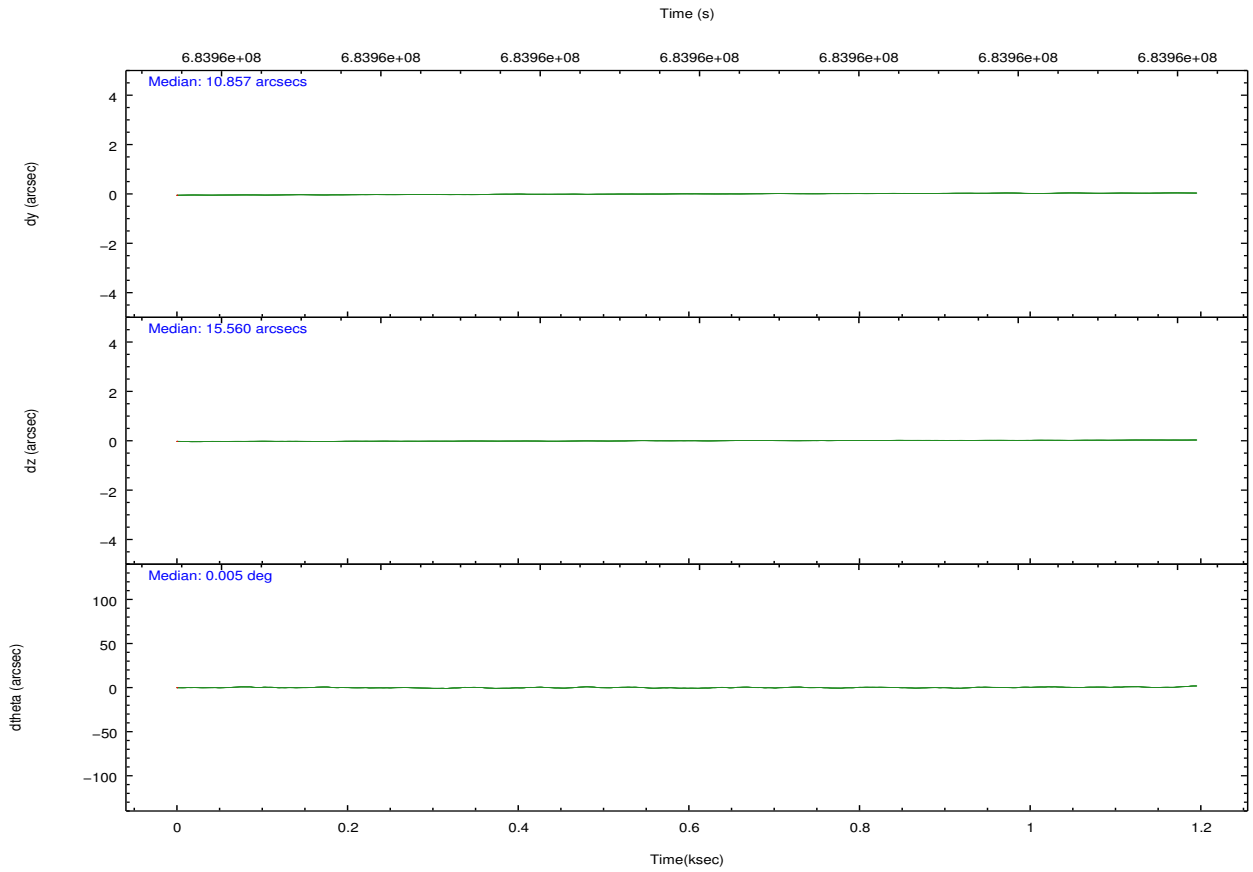
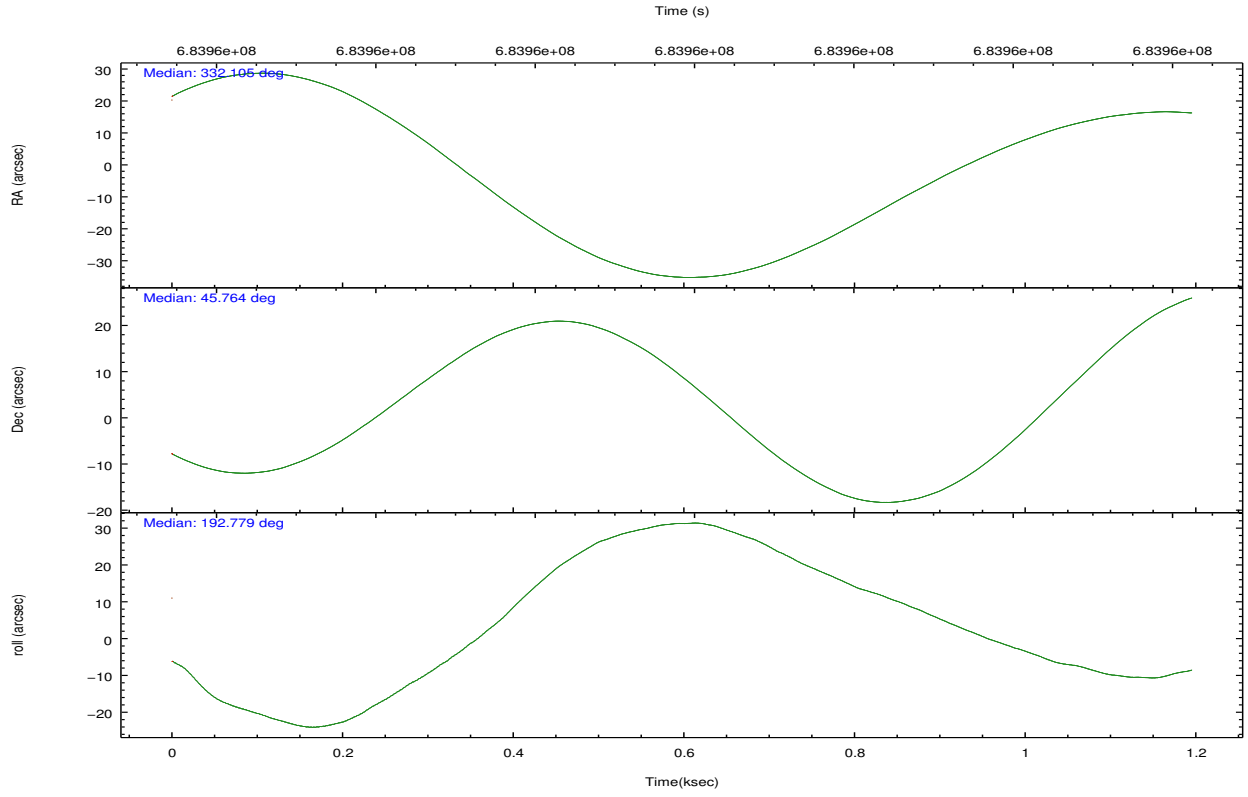
## 2.2 Compared Parameters

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	332.131622	332.1043520215218
[deg] Pointing Dec	45.783678	45.76418848311462
[deg] Pointing Roll	192.862882	192.7869291712081
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9854943052878
[mm] SIM translation stage offset	0	-5.413686238853188e-06
[s] Observation start time (MET)	683963173.184000	683962797.1993001
Observation start date	2019-09-04T05:45:04	2019-09-04T05:39:57
[s] Observation end time (MET)	683964173.184000	683964307.02439
Observation end date	2019-09-04T06:01:44	2019-09-04T06:05:07

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect



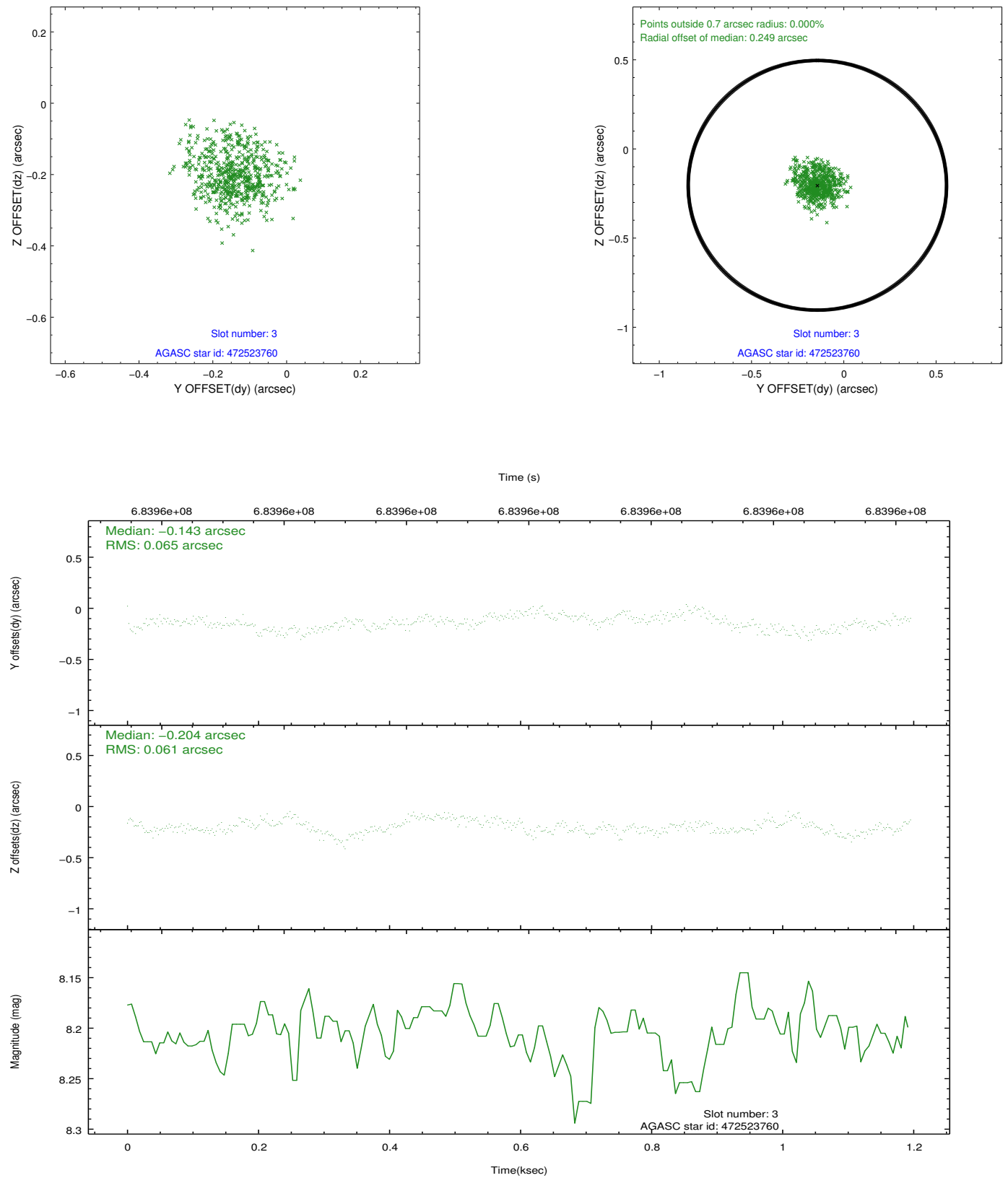


Slot Statistics

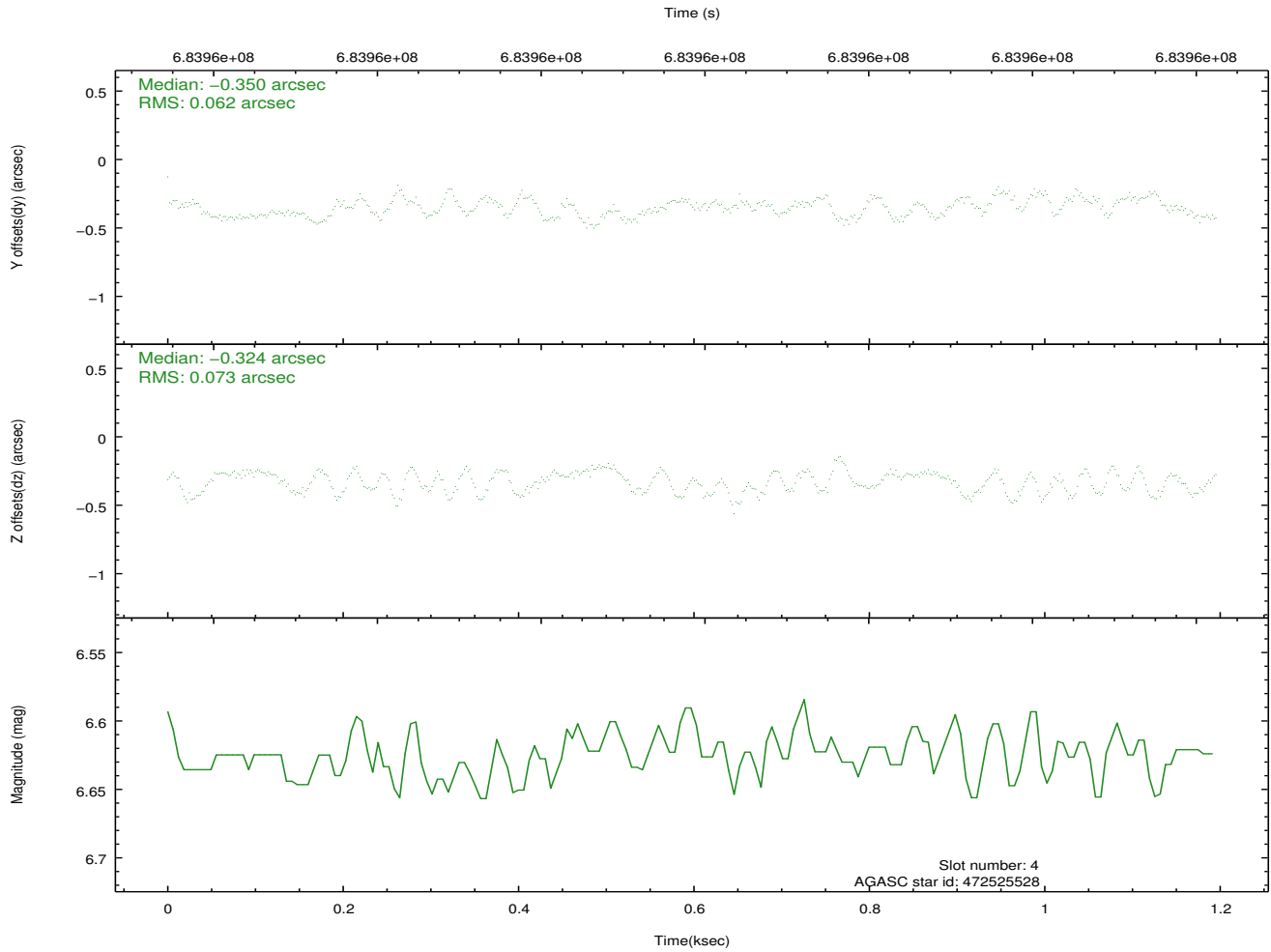
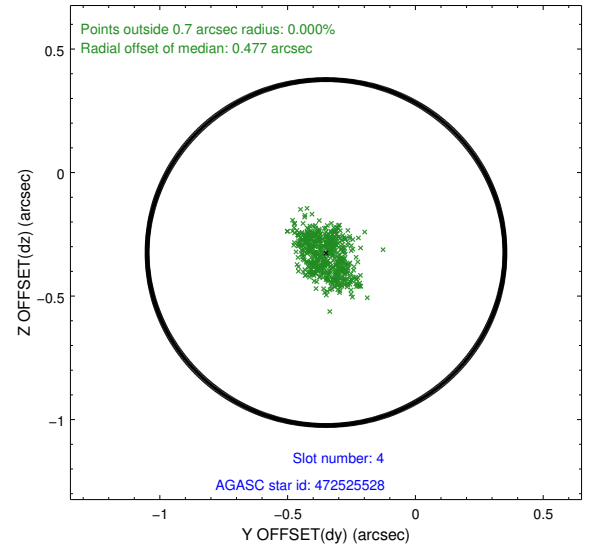
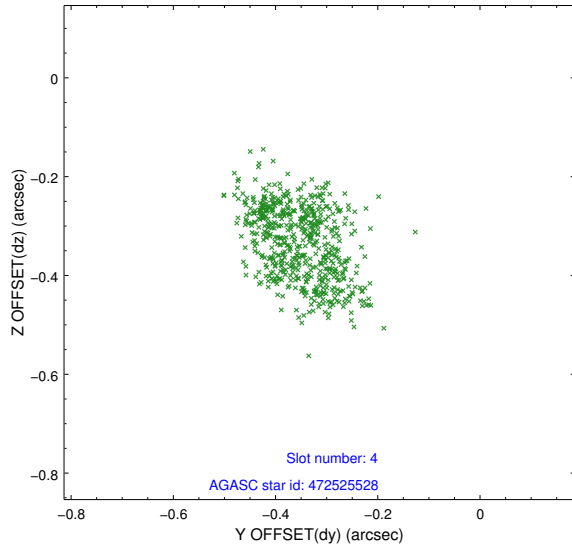
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.05	292	1.000	-0.233	-0.056	0.007	0.012	0.000000	0.000000	-766.69	-1303
1	FID		HRC-I-2	7.07	292	1.000	0.391	-0.115	0.008	0.014	0.000000	0.000000	843.94	-1309
2	FID		HRC-I-3	7.12	292	1.000	-0.040	0.082	0.005	0.010	0.000000	0.000000	-1192.23	996
3	GUIDE	used	472523760	8.20	584	1.000	-0.143	-0.204	0.099	0.151	331.645363	45.403260	1504.22	1055
4	GUIDE	used	472525528	6.62	584	1.000	-0.350	-0.324	0.101	0.161	331.551102	45.248694	1865.60	1544
5	GUIDE	used	472527720	6.99	584	1.000	-0.340	-0.373	0.113	0.180	331.460205	45.112509	2203.71	1969
6	GUIDE	used	472535576	7.83	584	1.000	0.197	0.316	0.109	0.207	331.438373	46.291802	1278.53	-2173
7	GUIDE	used	472665256	8.96	583	1.000	0.655	0.577	0.104	0.170	332.808125	46.195041	-1969.87	-1081

## 2.4 Star Slots

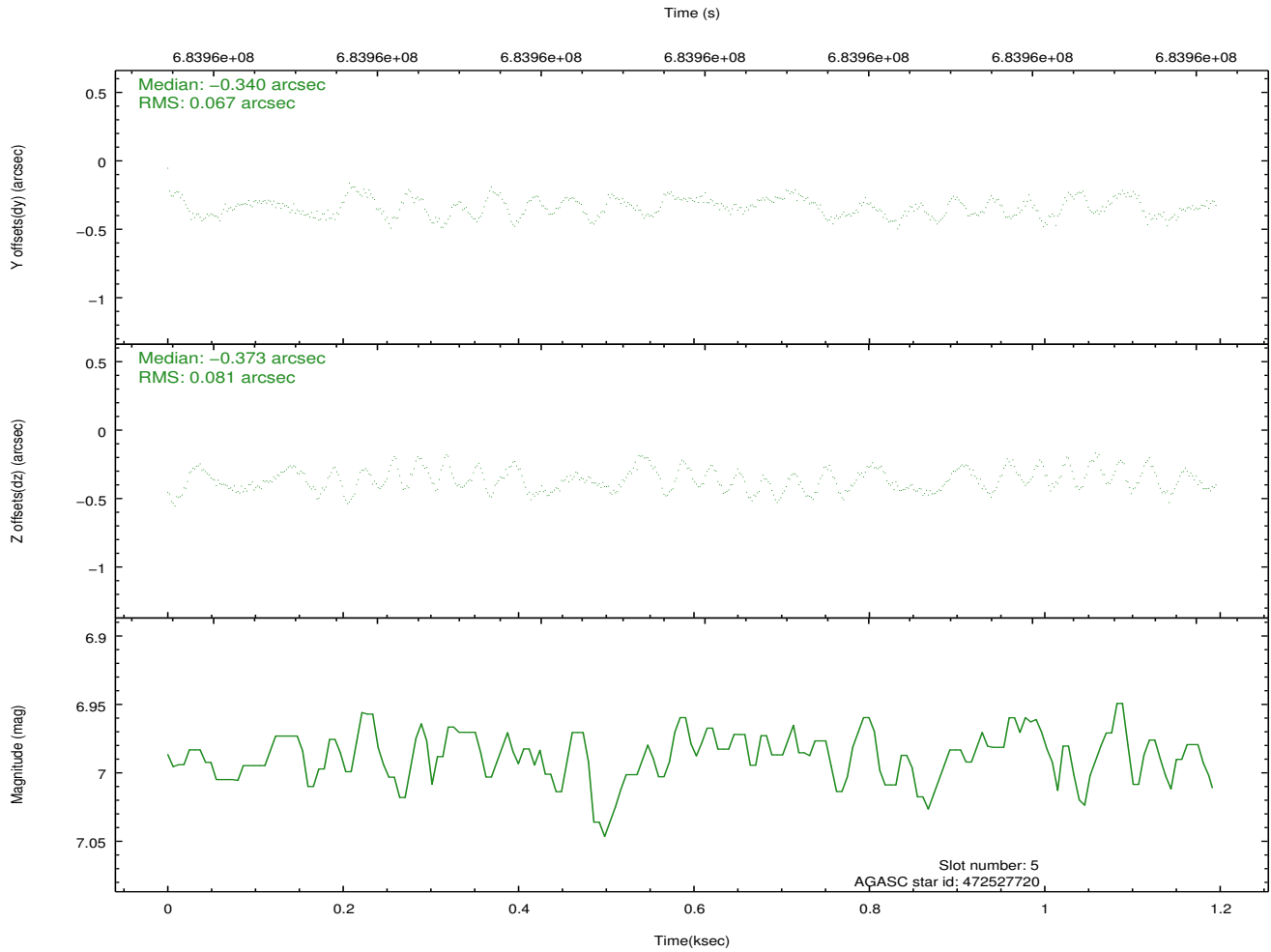
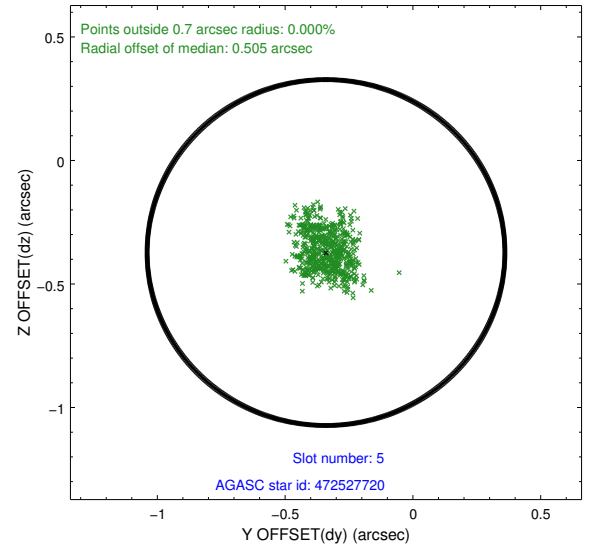
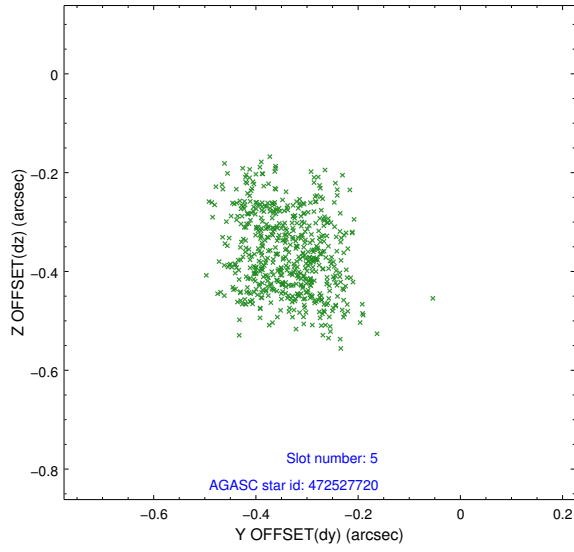
### 2.4.1 Slot 3



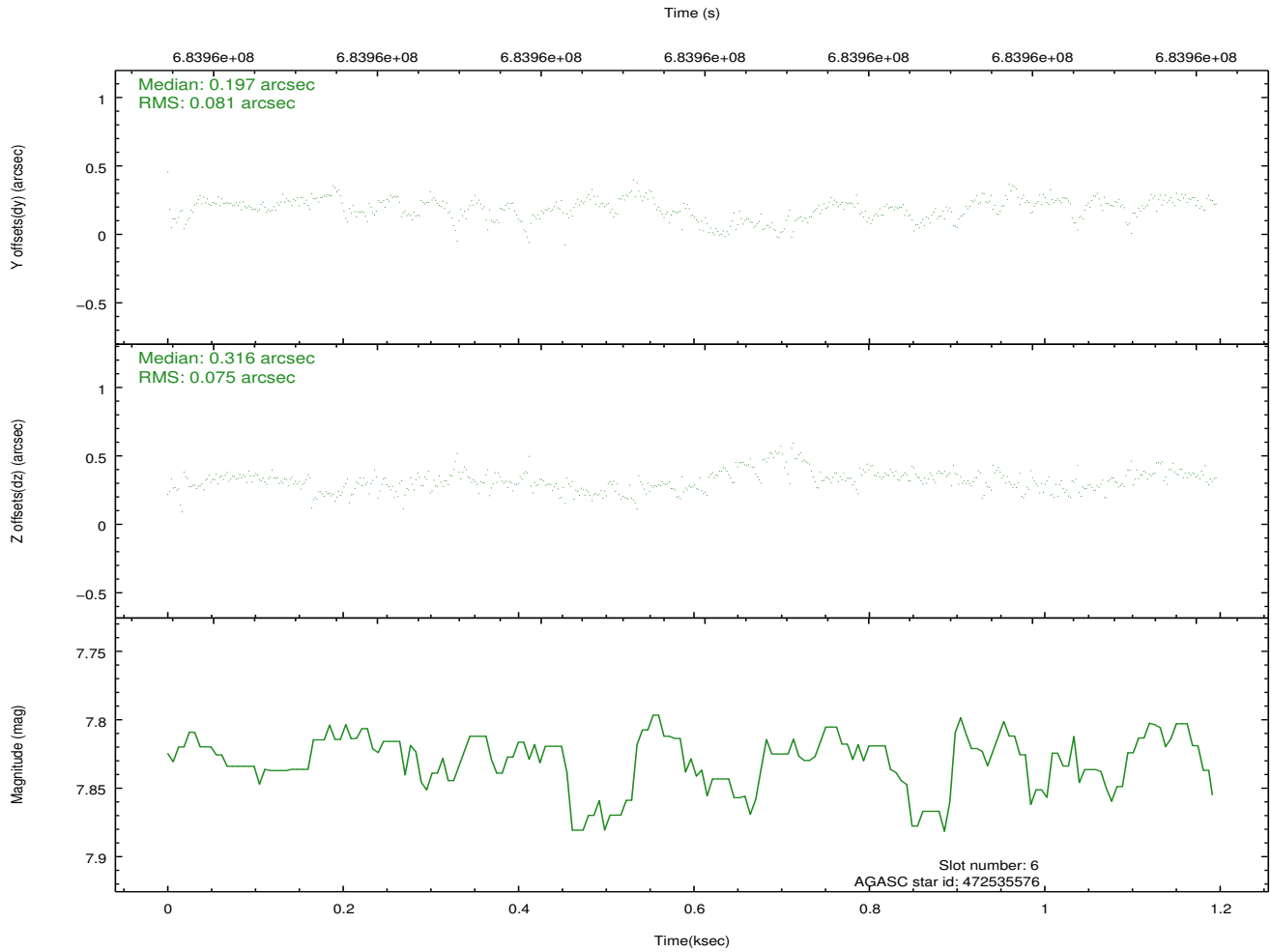
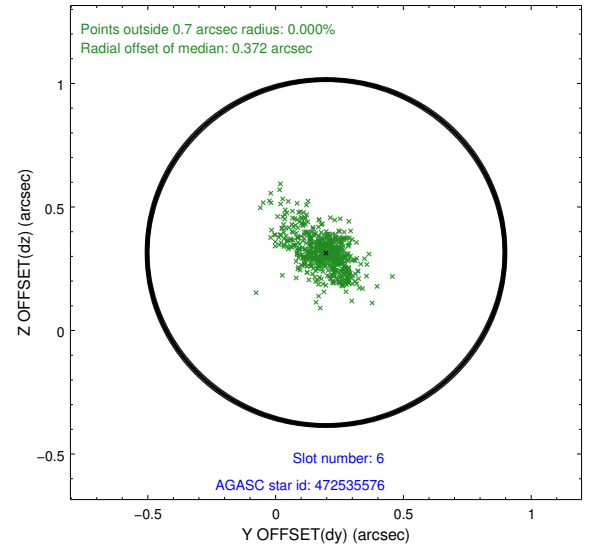
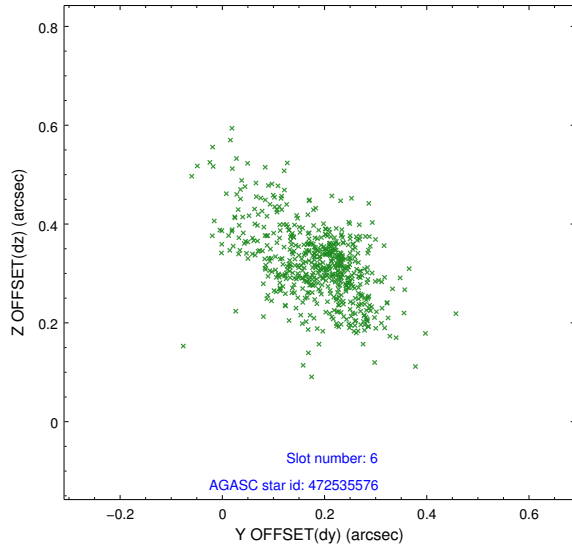
## 2.4.2 Slot 4



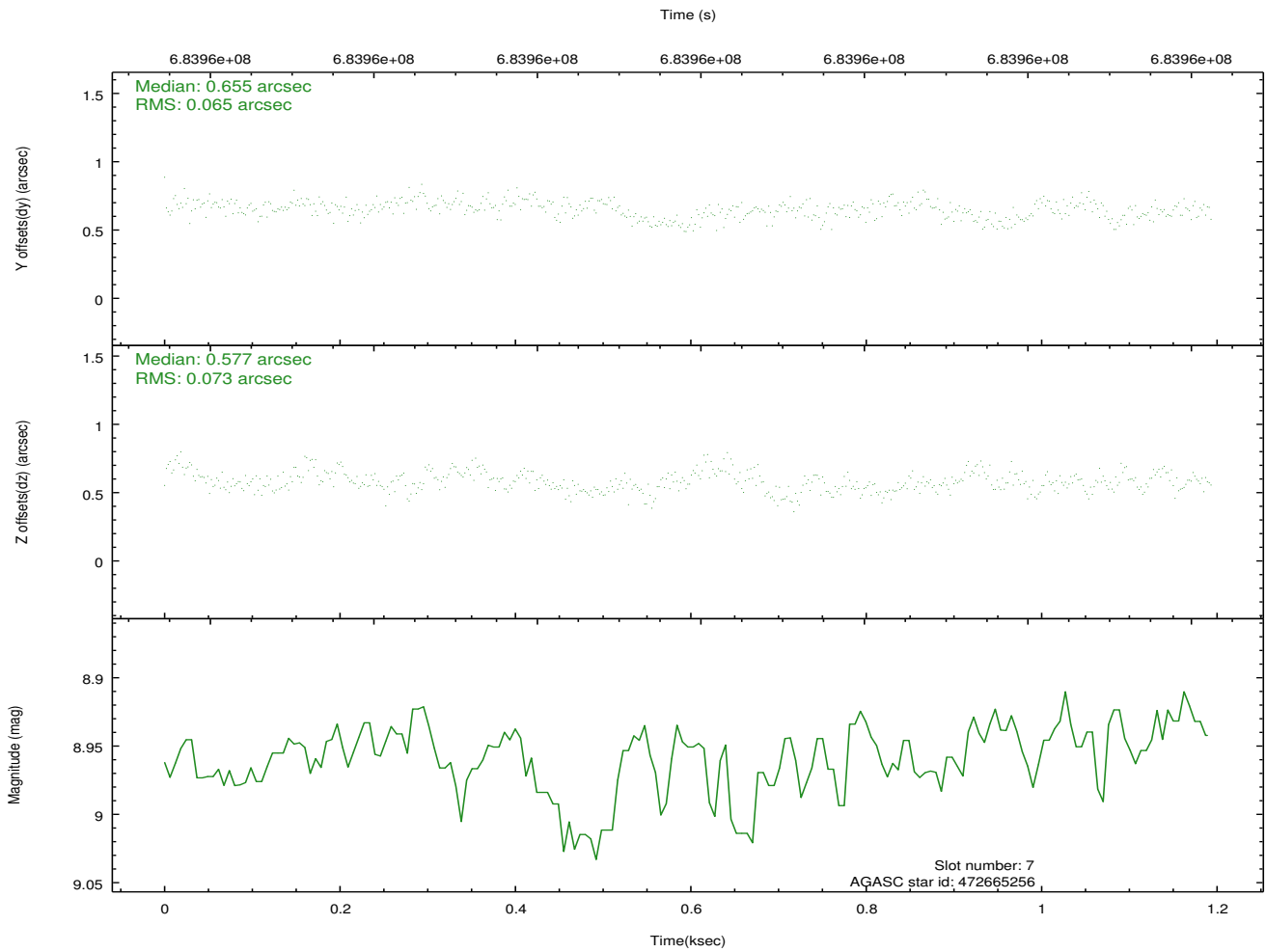
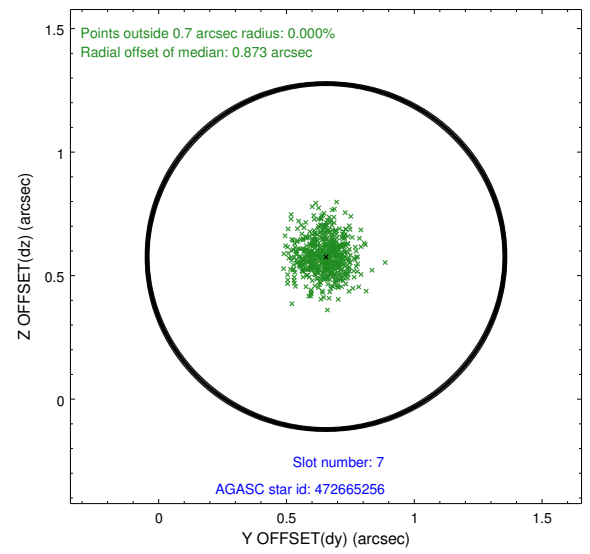
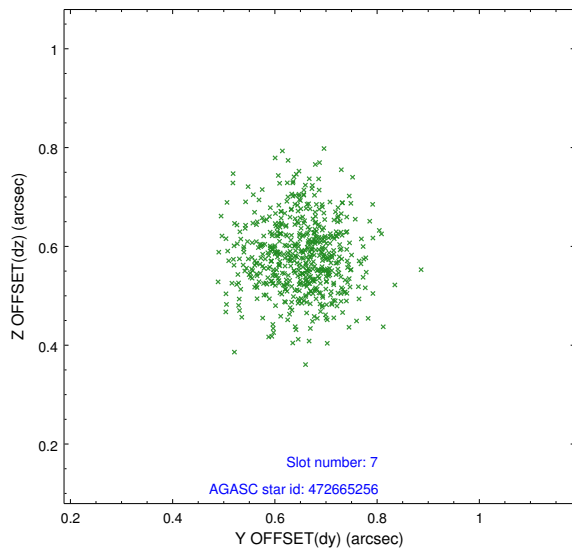
### 2.4.3 Slot 5



## 2.4.4 Slot 6

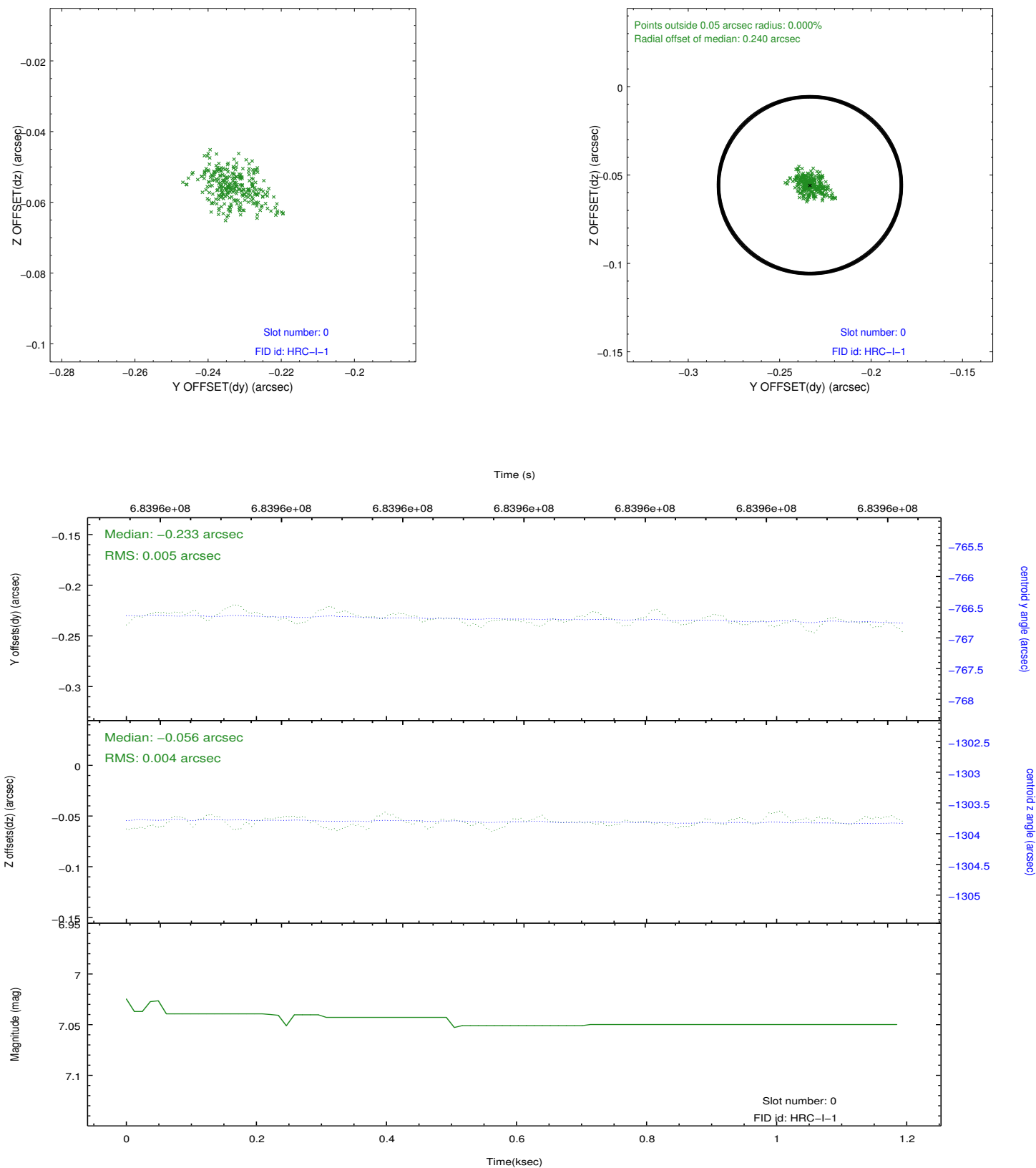


## 2.4.5 Slot 7

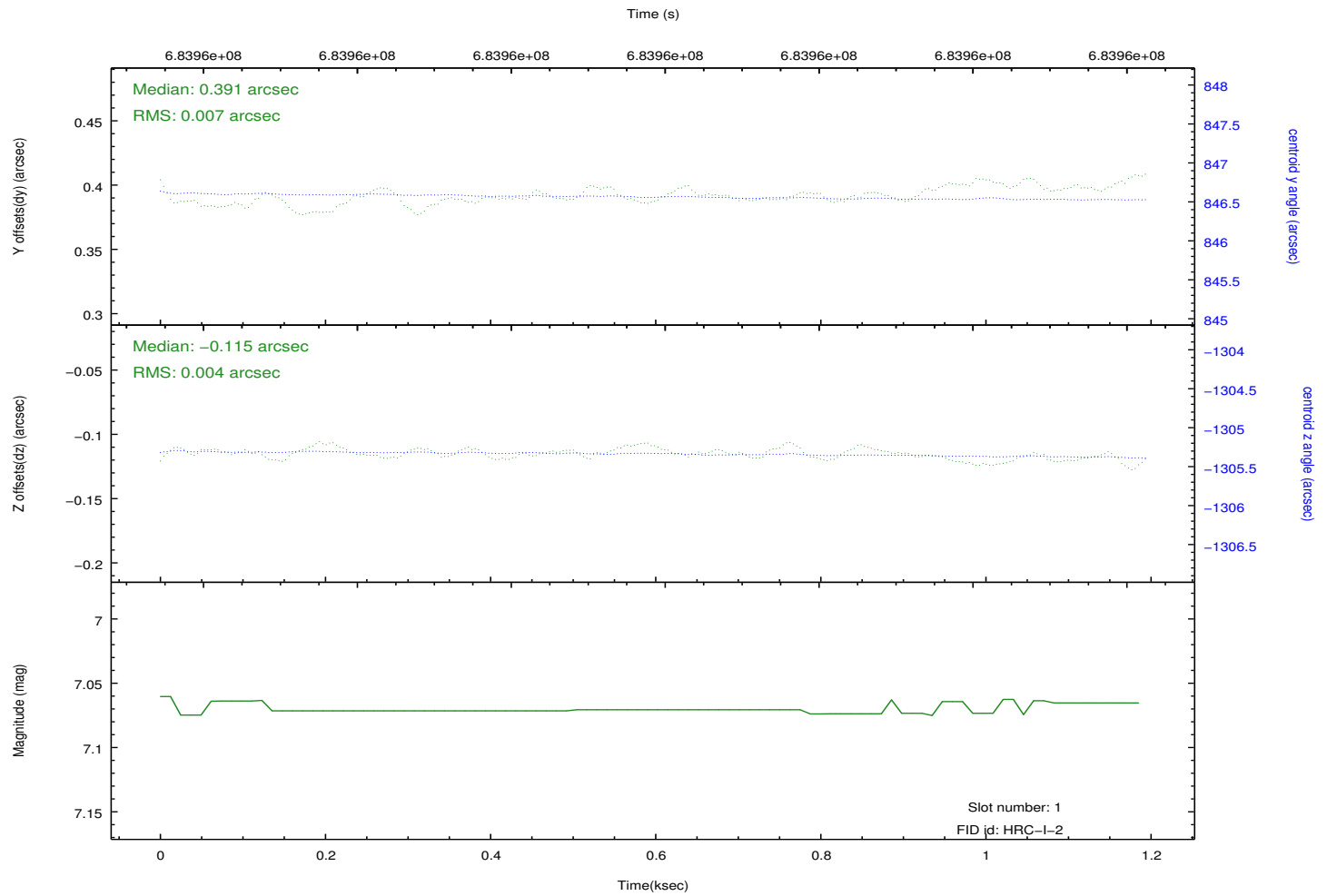
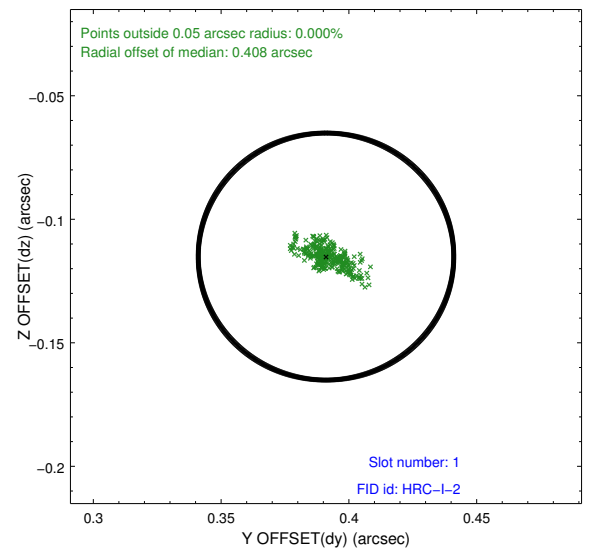
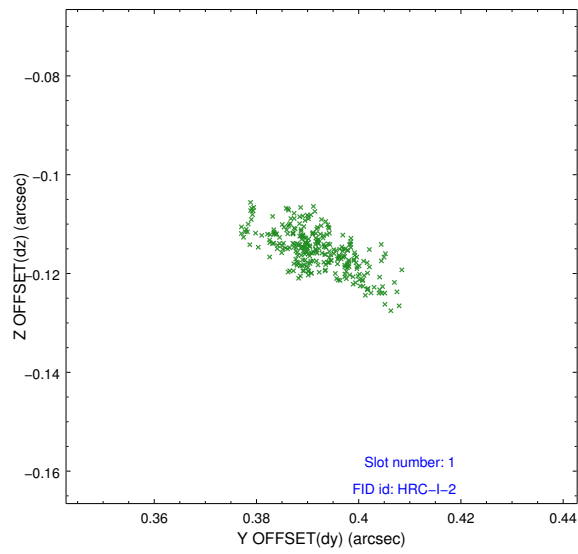


## 2.5 FID Slots

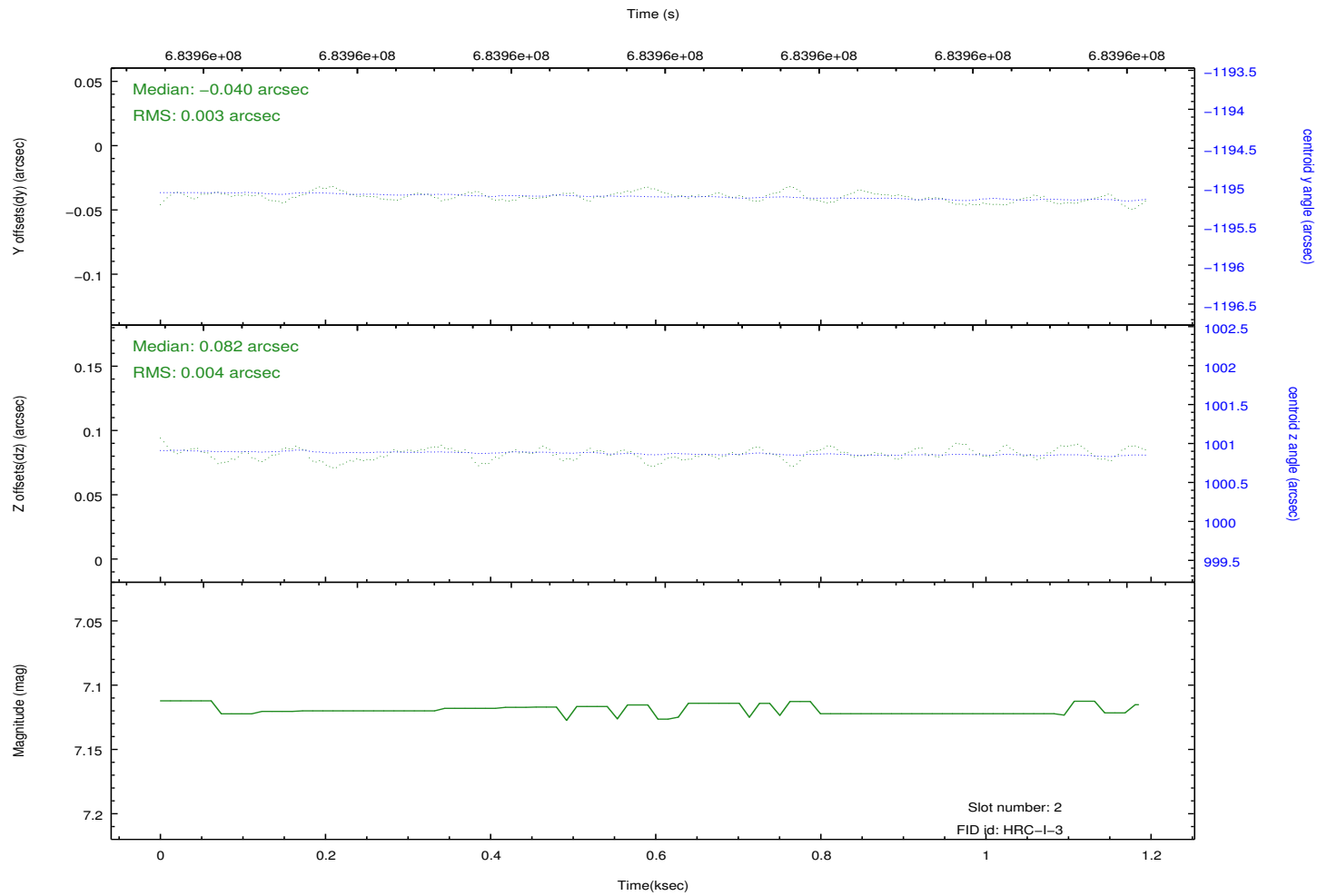
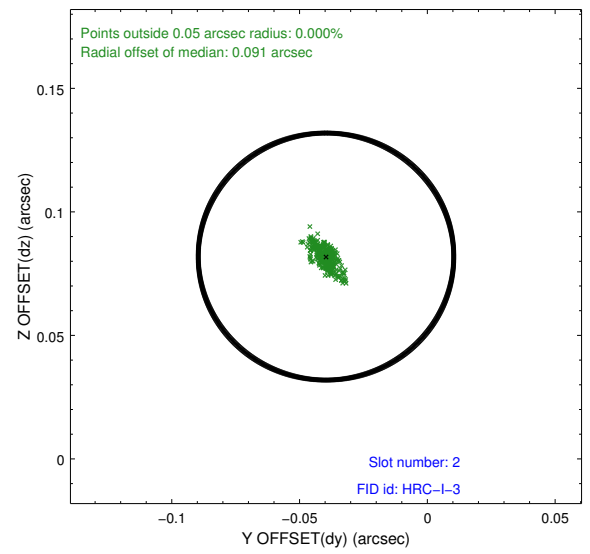
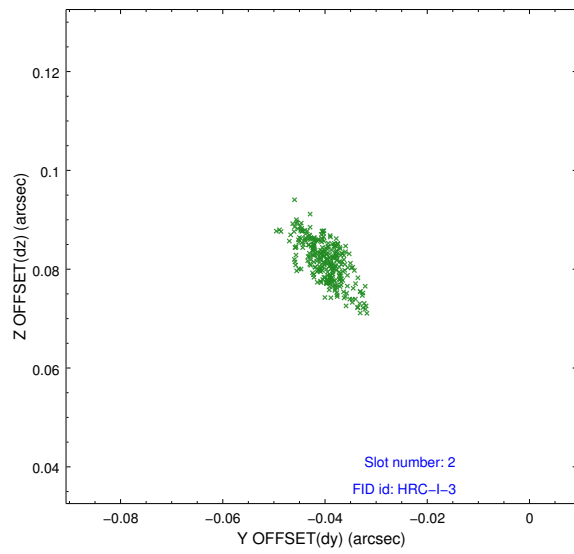
### 2.5.1 Slot 0



## 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)	2019.09.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.194381321907

### A.2 Comments