

# V&V Reference Report

## L2 ASCDS Version : 10.6

Observation 19817 - L2 Version 1  
Chandra X-Ray Center

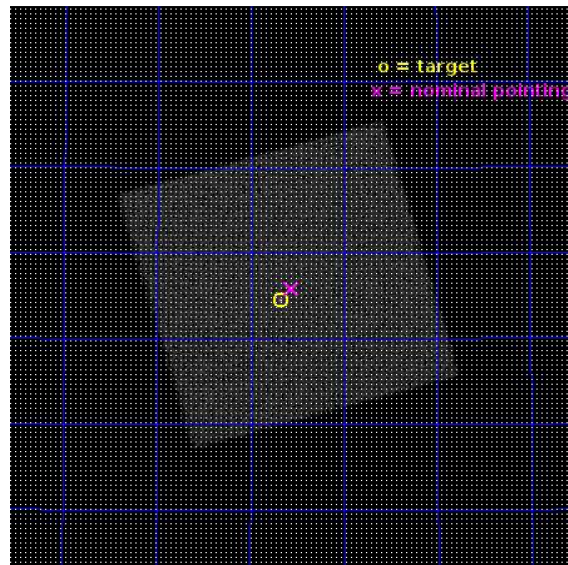
L2 Processing Date : Sep 17 2017

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# 1 Front

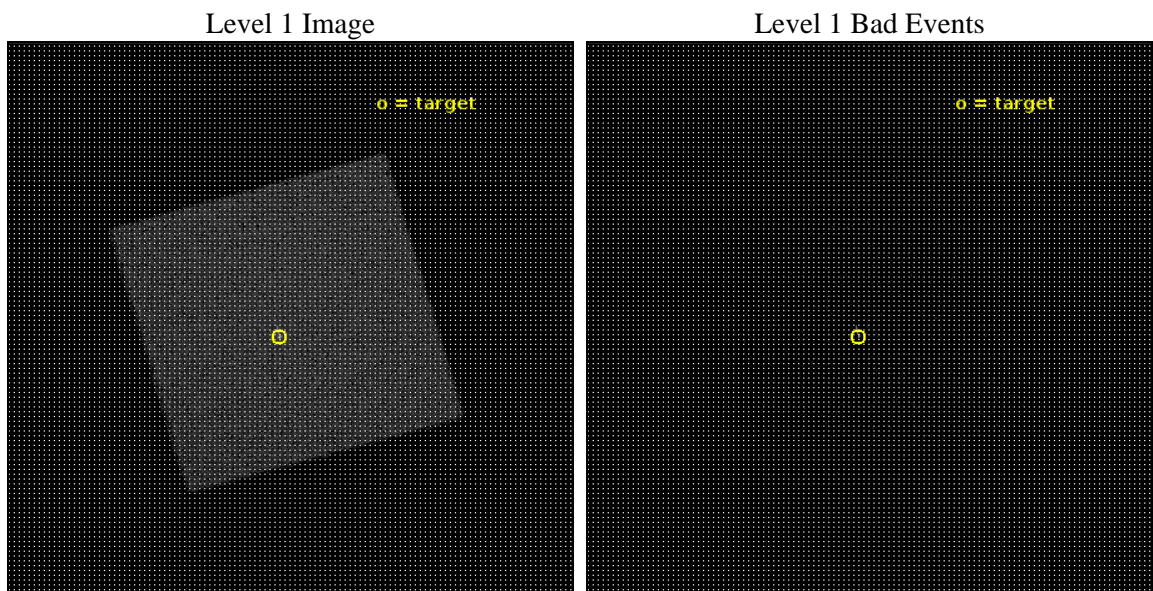
seq_num	291334	Sequence number
obs_id	19817	Observation id
title	AO-18 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.1399565914	Nominal RA [deg]
dec_nom	45.764247757455	Nominal Dec [deg]
roll_nom	208.95985671636	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1177.9813190699	[s]
livetime	1163.263300962	Ontime multiplied by DTCOR
l2events	129557	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	1177.9813190699	[s]
caldsver	4.7.6	&#160	l1events	215350	Number of level 1 events
date	2017-09-17T15:23:19	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

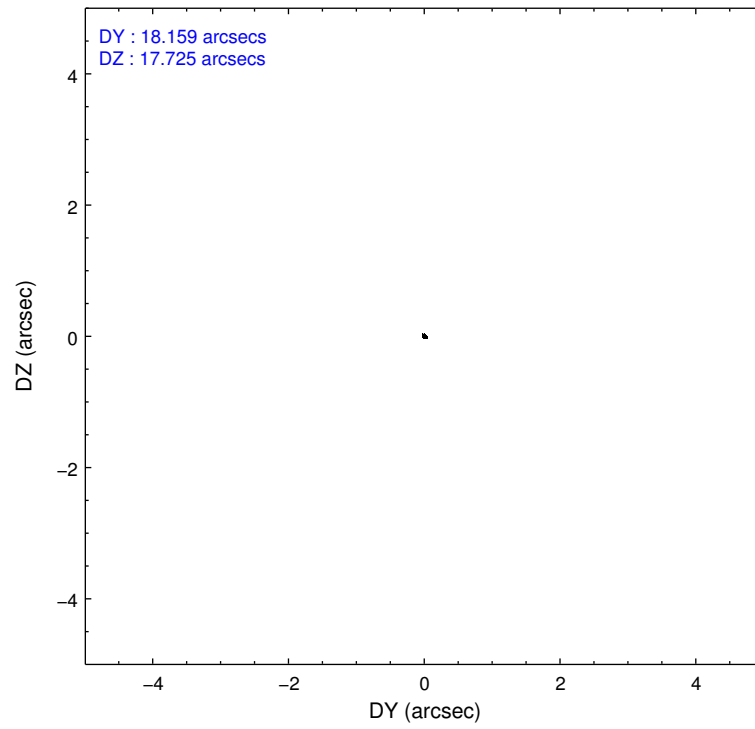
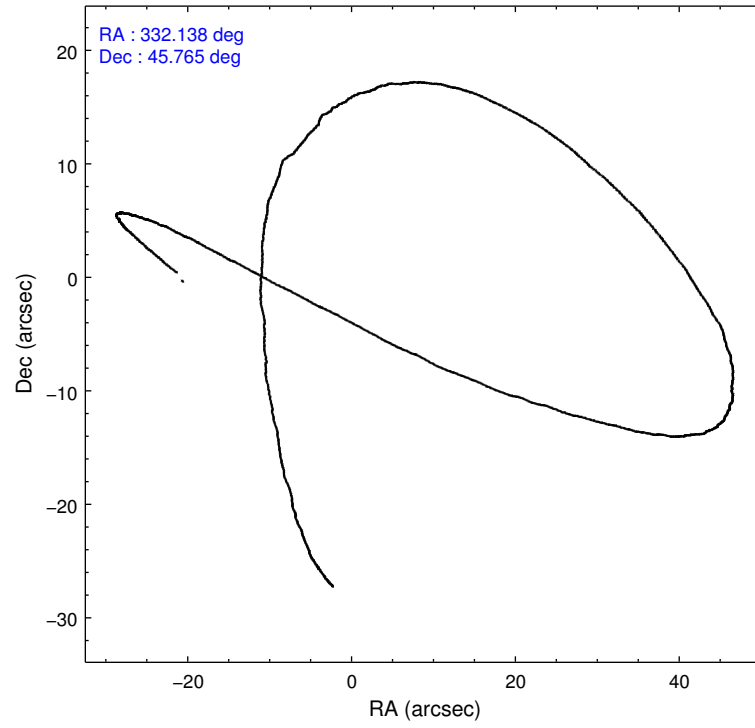
	<b>segment 0</b>
level 1 events	215350
rejected events	46926
rejected %	21%

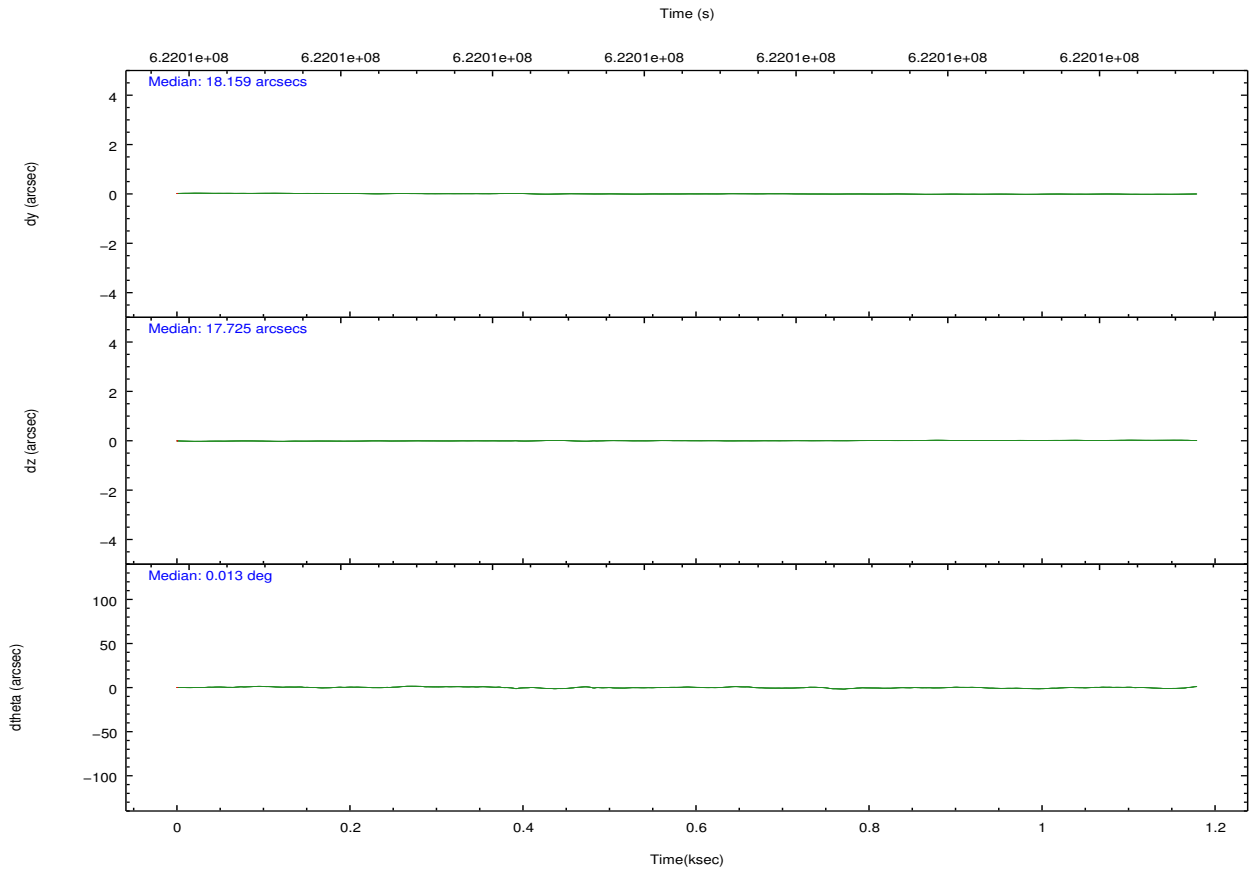
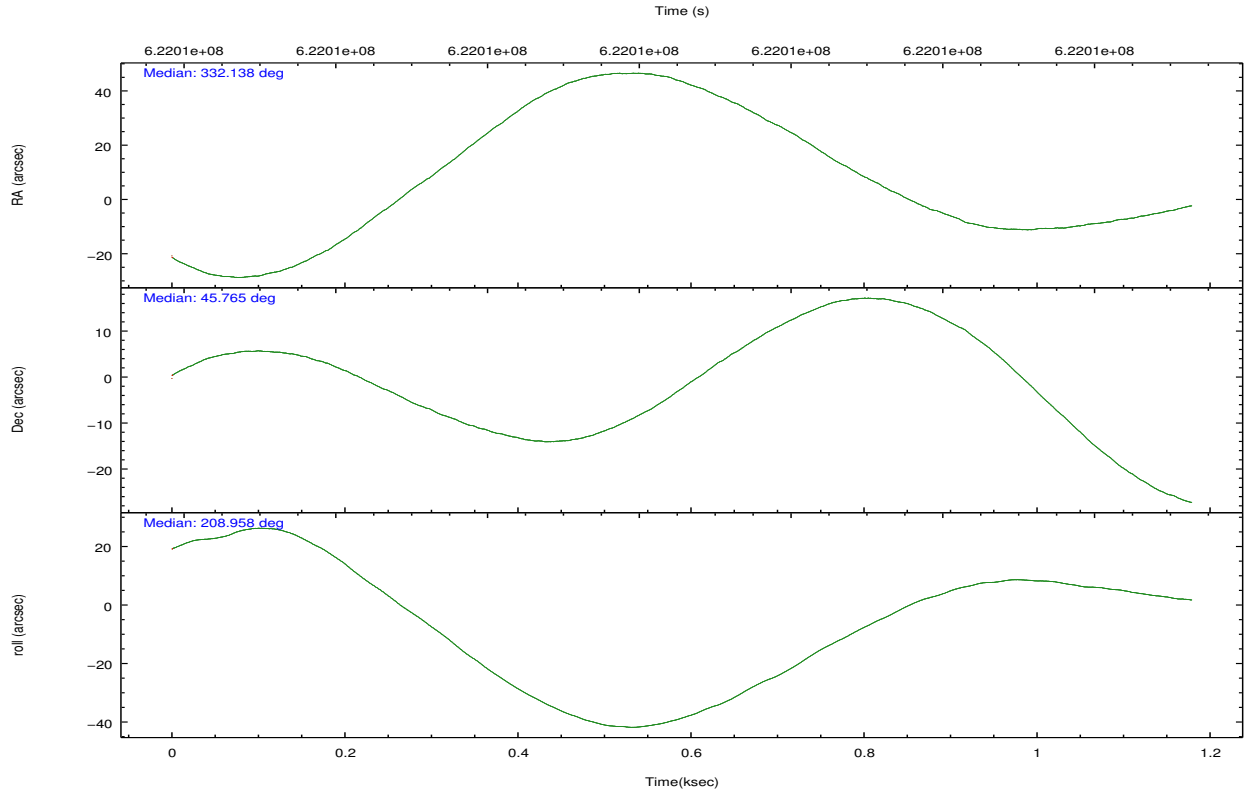
## 2.2 Compared Parameters

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	332.160277	332.1399565914007
[deg] Pointing Dec	45.787712	45.76424775745465
[deg] Pointing Roll	209.040774	208.9598567163584
[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)	622008638.184000	622008262.31565
Observation start date	2017-09-17T04:09:29	2017-09-17T04:04:22
[s] Observation end time (MET)	622009638.184000	622009772.14074
Observation end date	2017-09-17T04:26:09	2017-09-17T04:29:32

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

## 2.3 Aspect





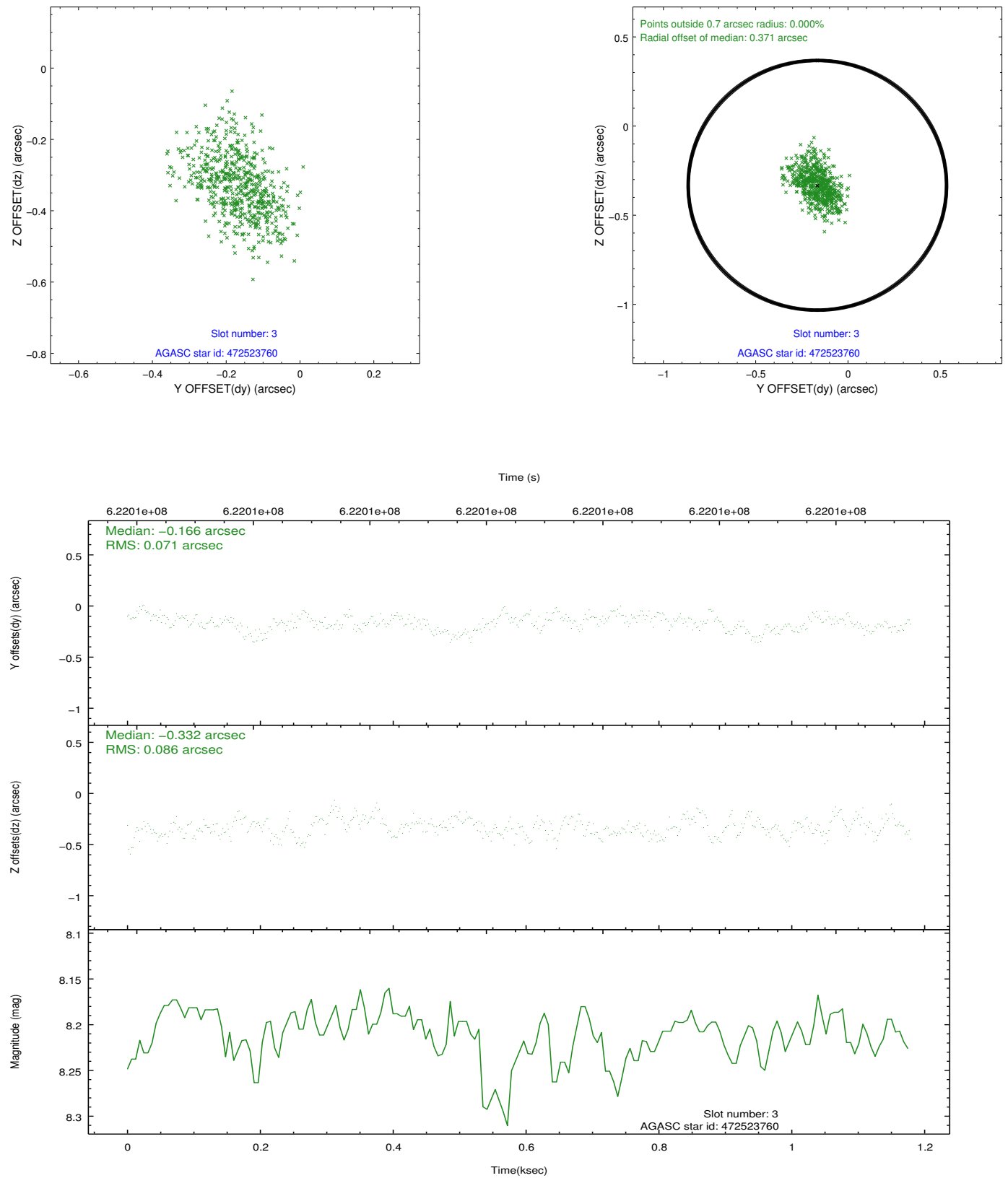
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.03	288	-0.094	-0.089	0.006	0.012	0.000000	0.000000	-774.26	-1305.90
1	FID		HRC-I-3	7.10	288	-0.232	-0.102	0.006	0.015	0.000000	0.000000	-1205.37	994.15
2	FID		HRC-I-4	7.03	288	0.440	0.102	0.006	0.011	0.000000	0.000000	1265.08	999.73
3	GUIDE	used	472523760	8.21	576	-0.166	-0.332	0.117	0.191	331.645363	45.403260	1806.48	576.54
4	GUIDE	used	472665256	8.96	576	0.357	0.415	0.161	0.348	332.808125	46.195041	-2124.14	-500.65
5	GUIDE	used	472533912	9.13	576	0.413	0.314	0.229	0.376	331.791136	46.368695	-219.00	-2273.99
6	GUIDE	used	472655152	9.37	575	0.131	-0.215	0.282	0.468	332.504239	45.862991	-887.85	178.13
7	GUIDE	used	472525528	6.64	575	-0.696	-0.190	0.143	0.235	331.551102	45.248694	2285.49	944.38

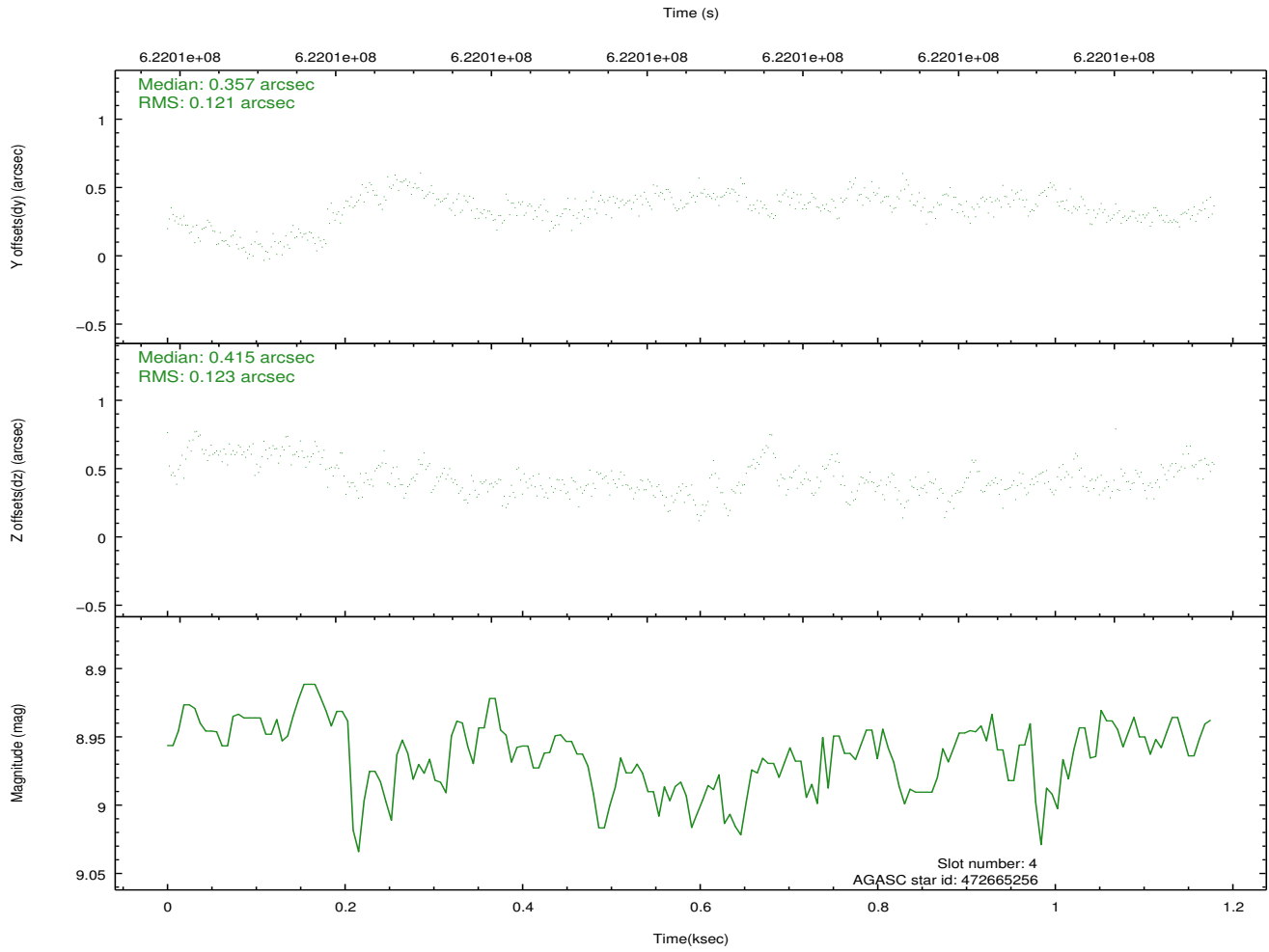
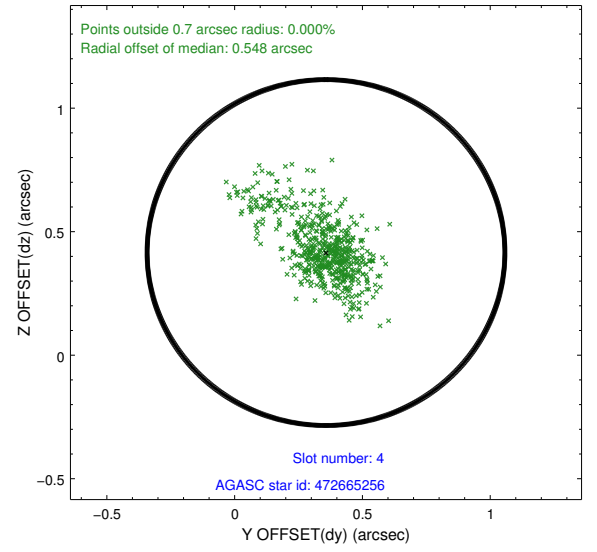
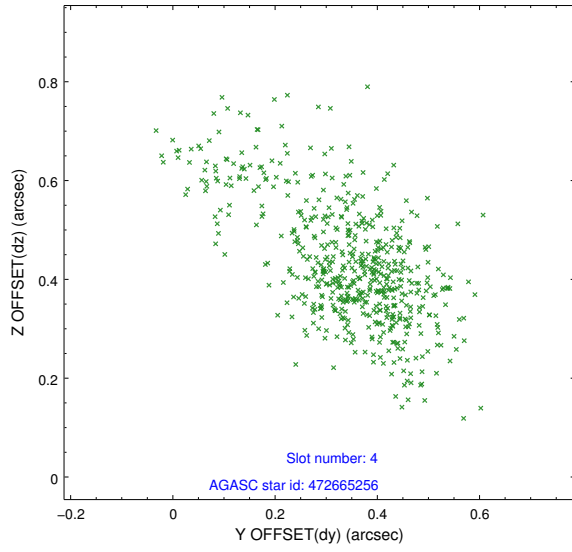


## 2.4 Star Slots

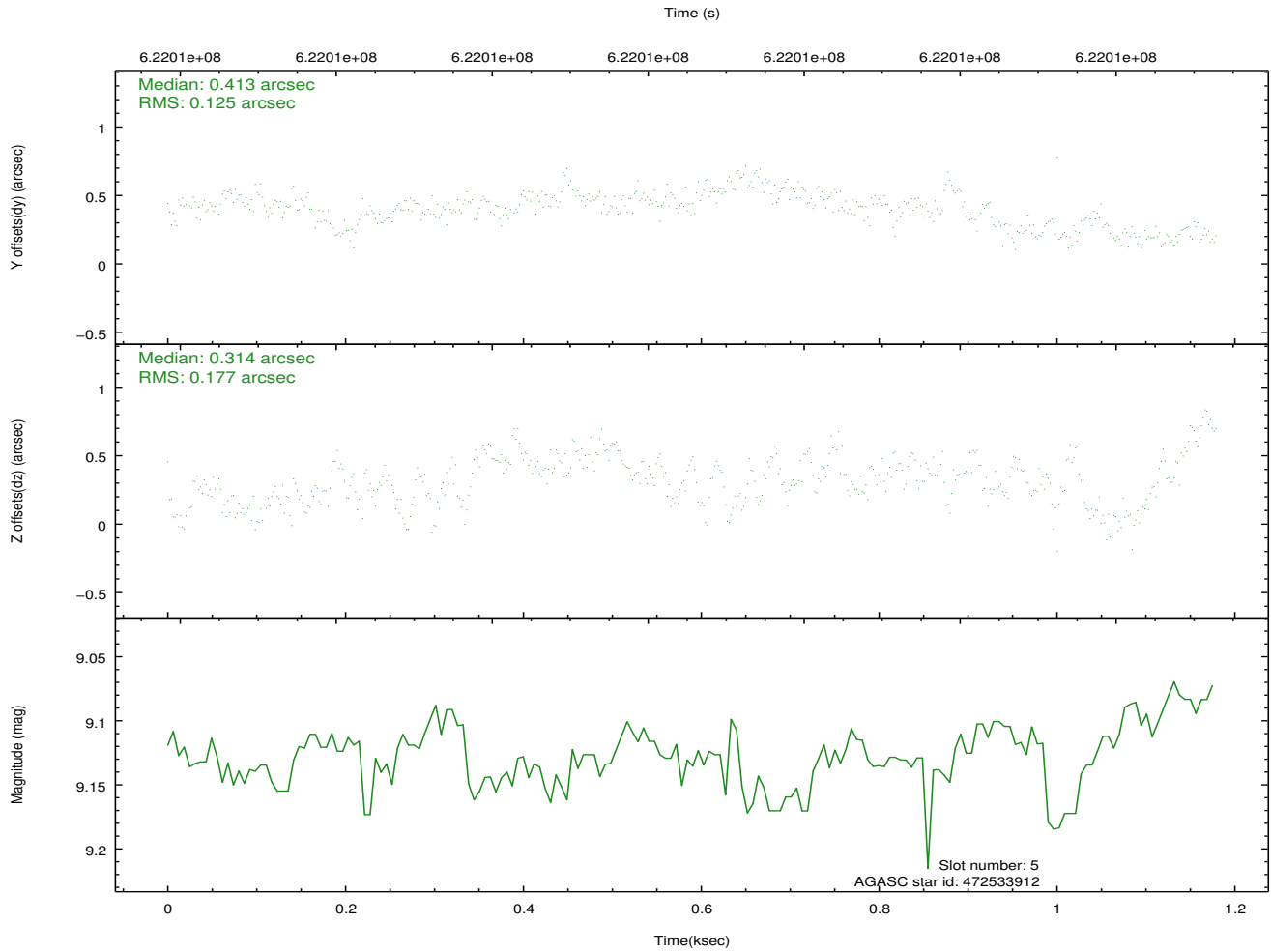
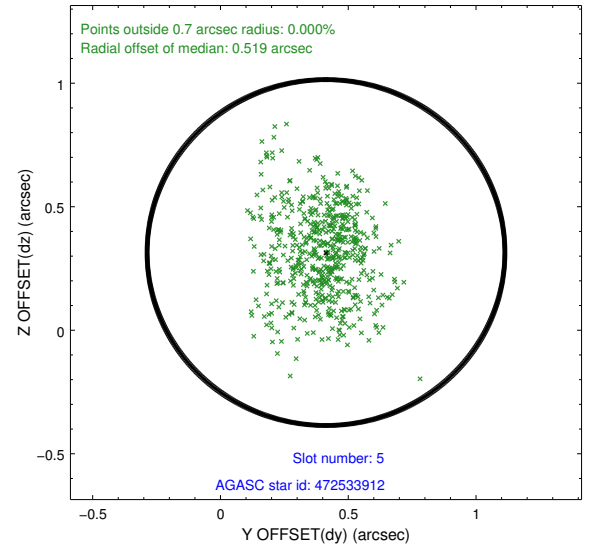
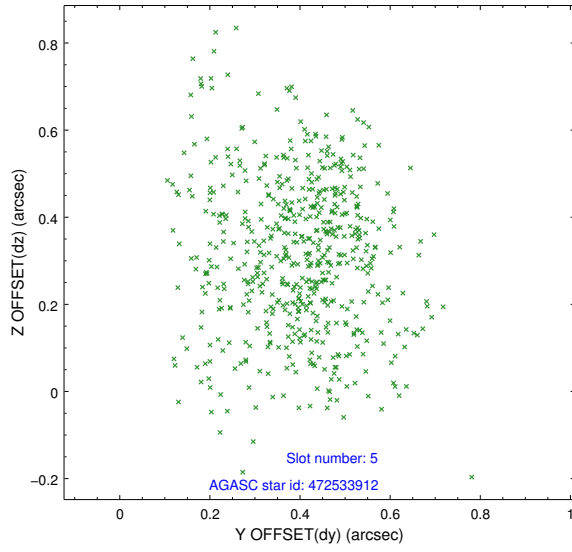
### 2.4.1 Slot 3



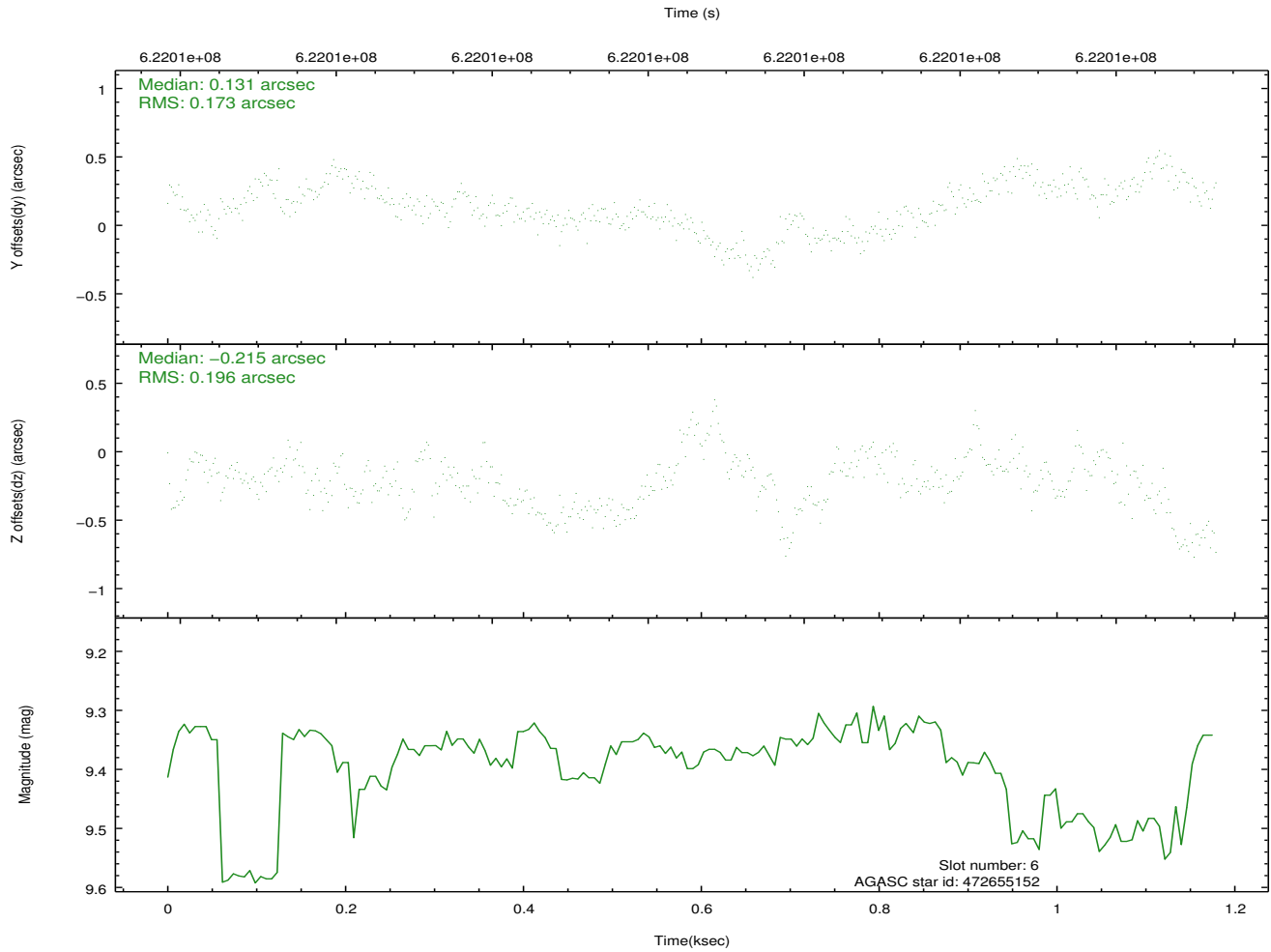
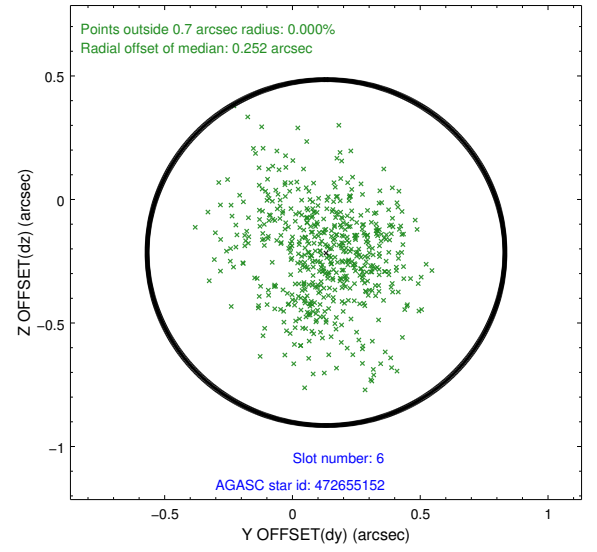
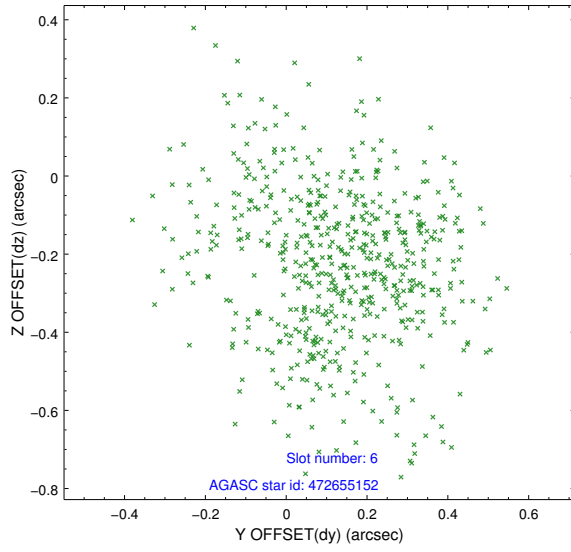
## 2.4.2 Slot 4



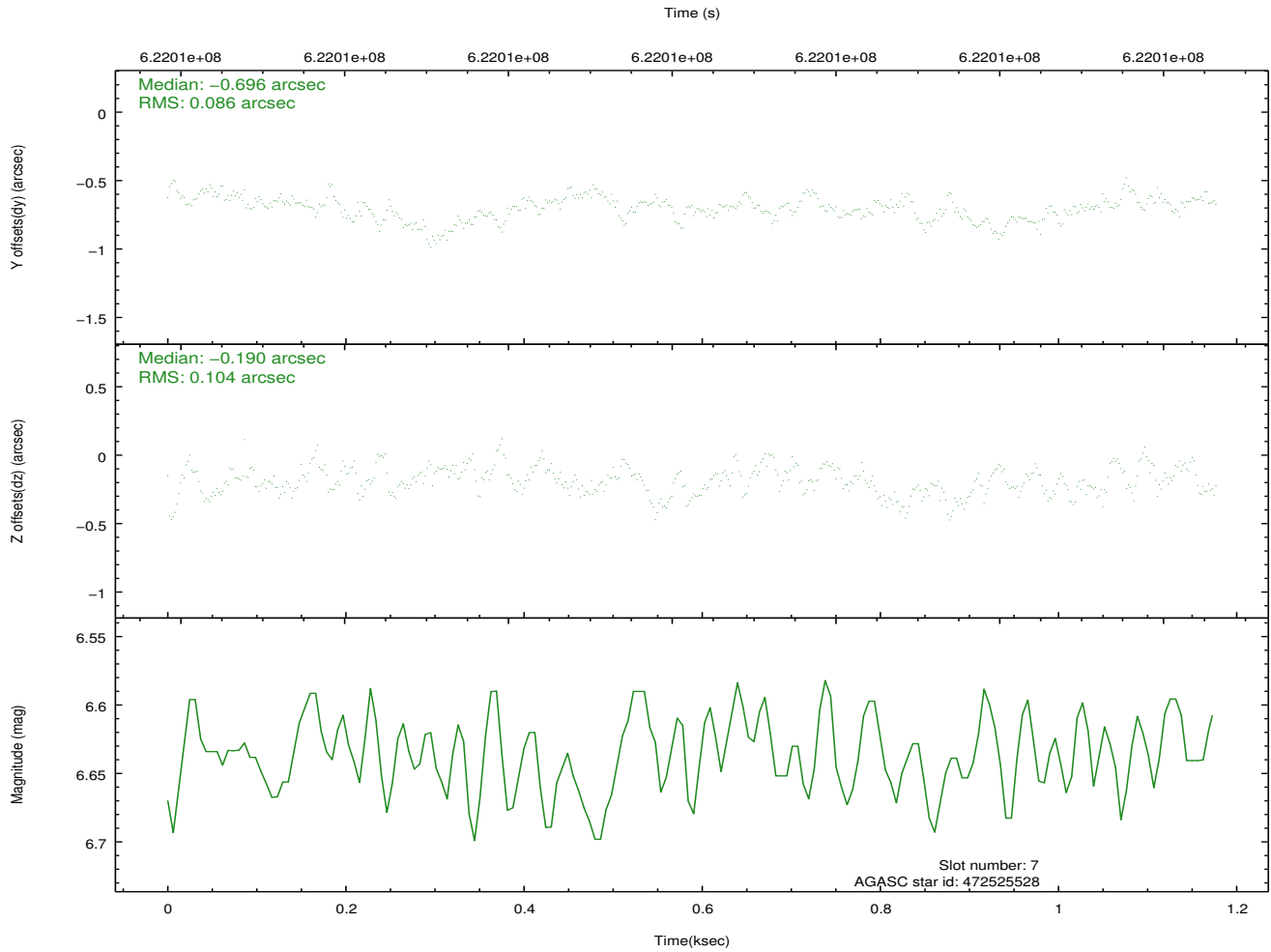
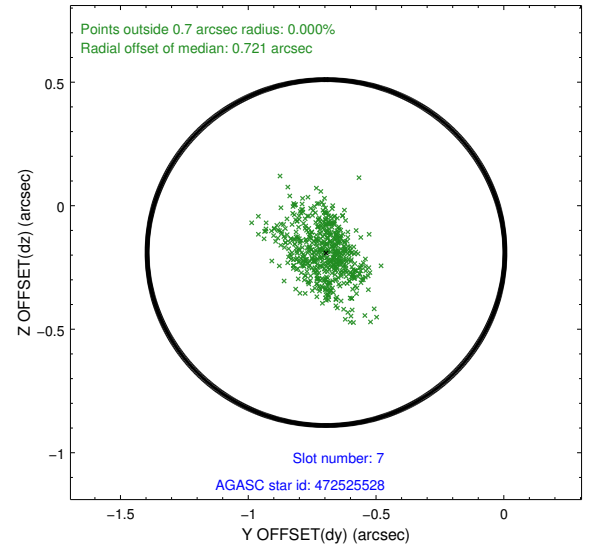
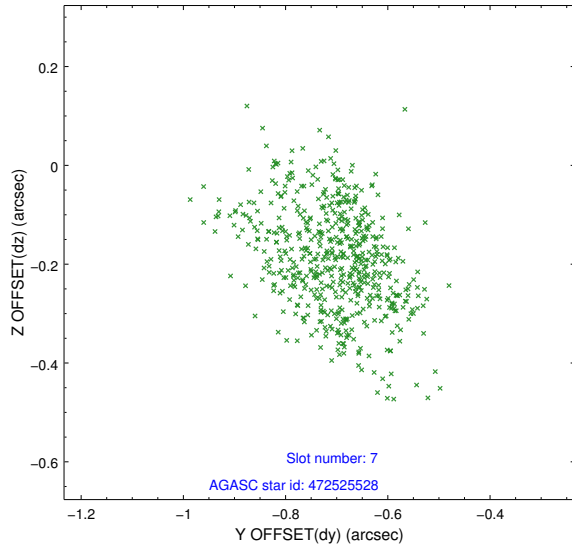
### 2.4.3 Slot 5



## 2.4.4 Slot 6

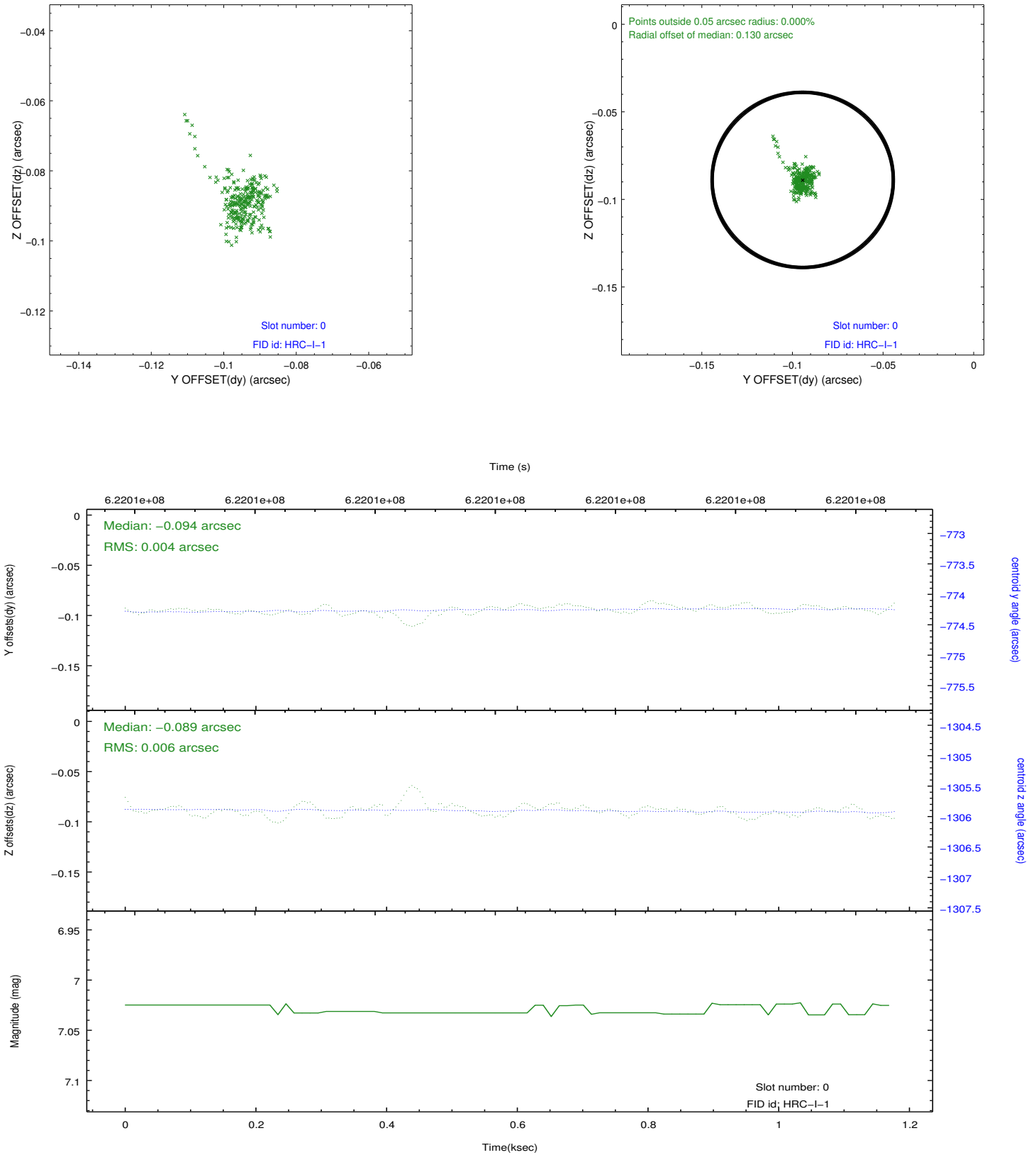


## 2.4.5 Slot 7

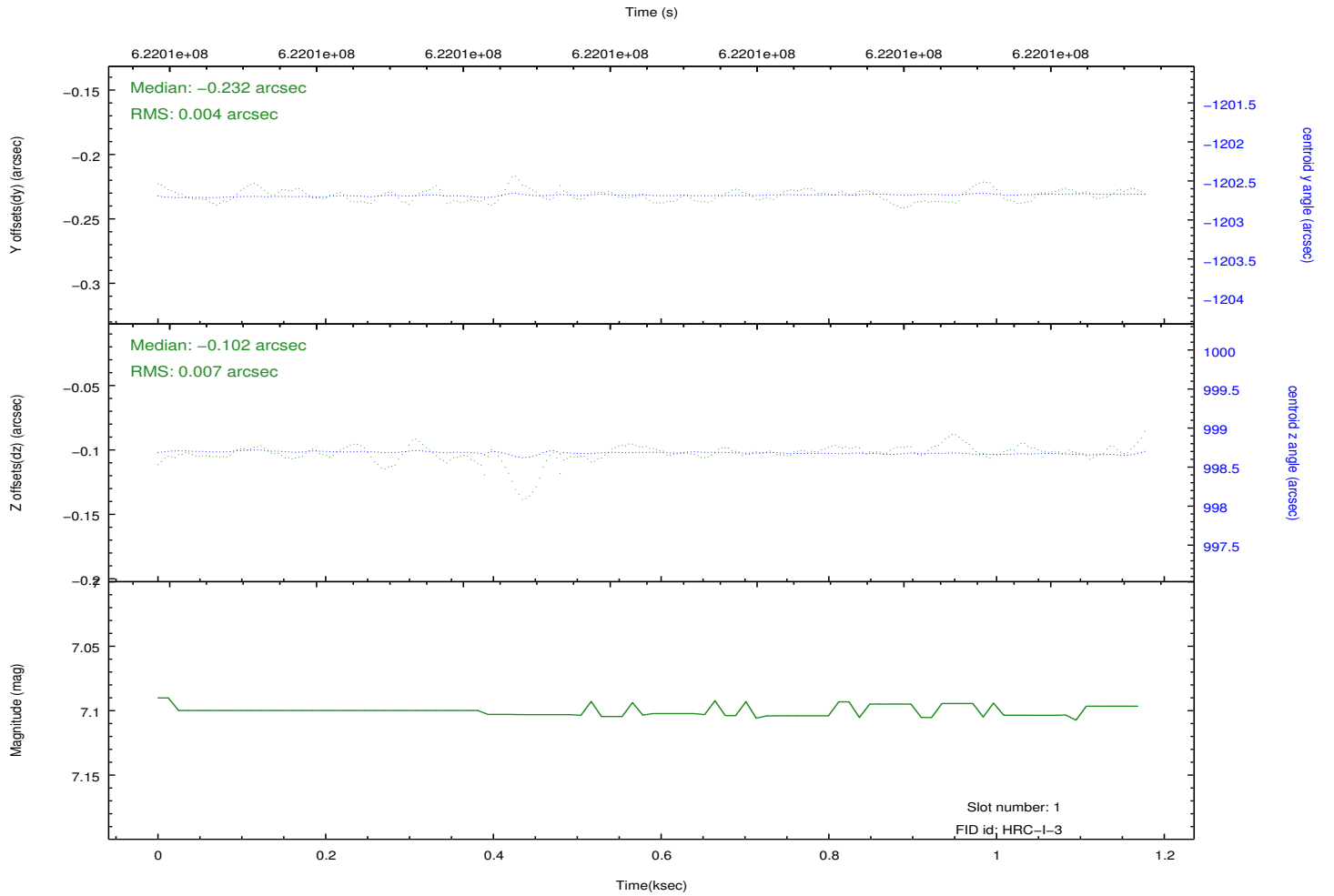
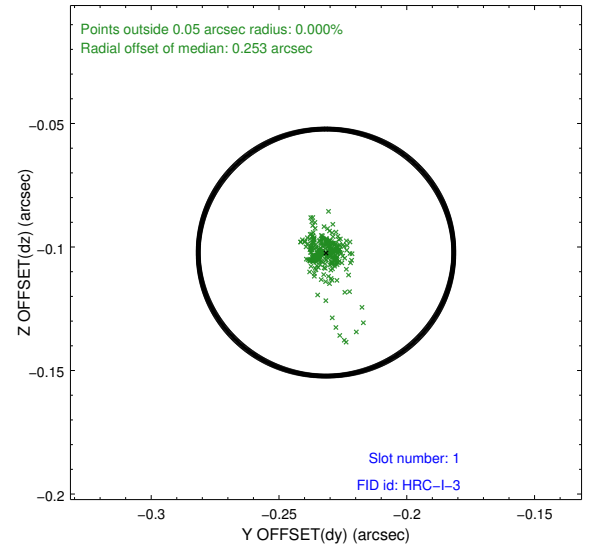
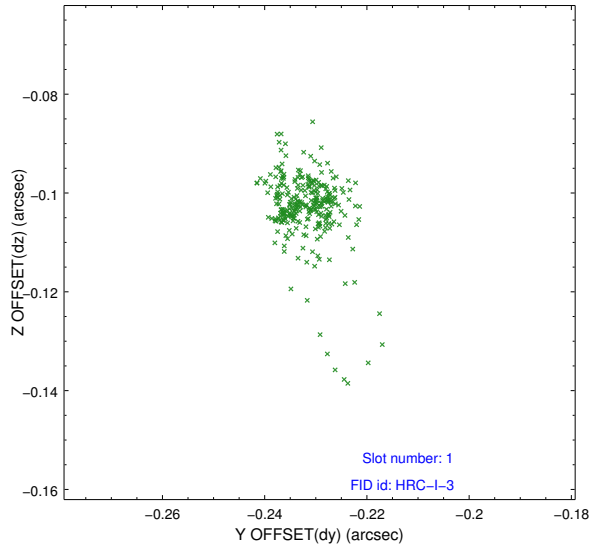


## 2.5 FID Slots

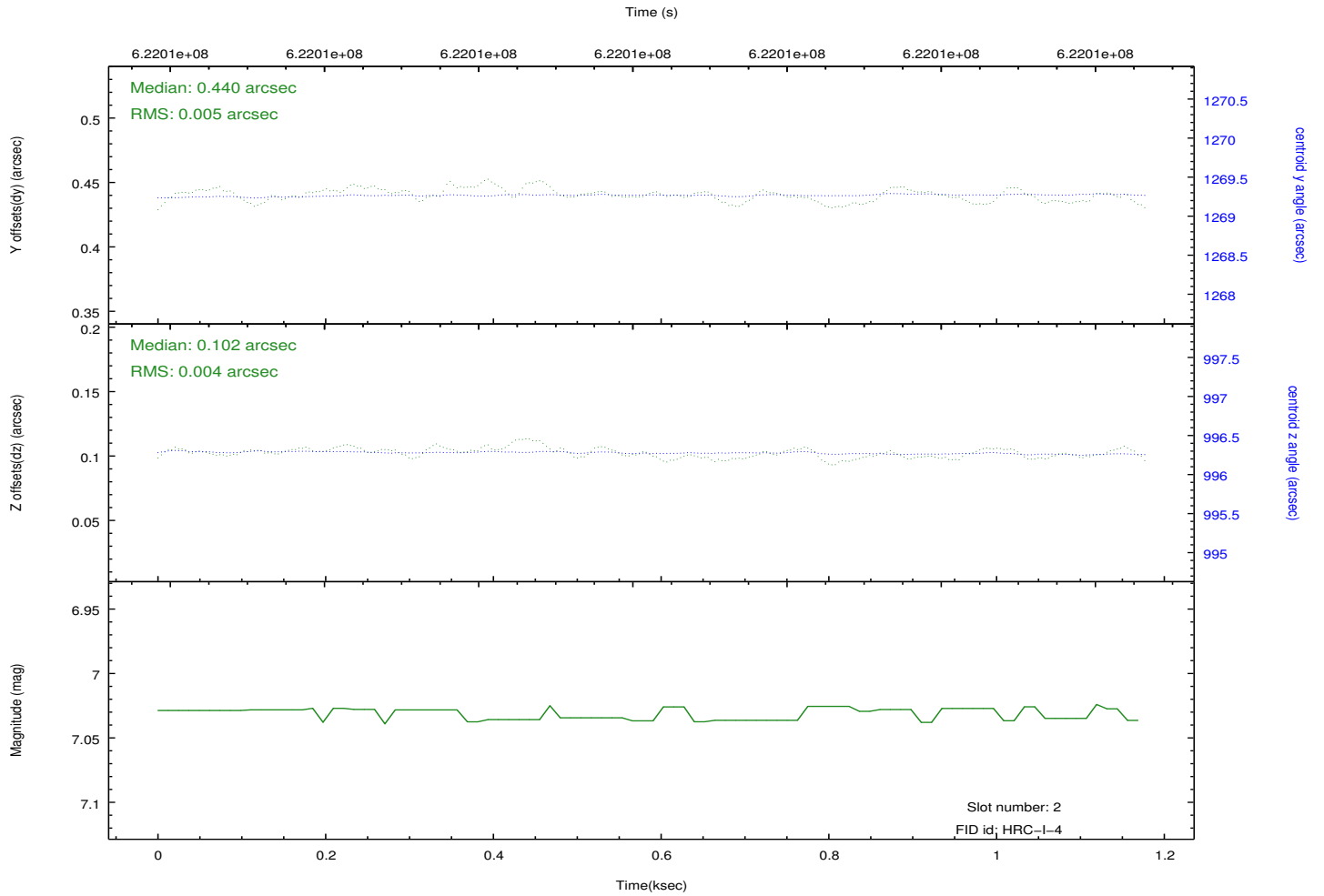
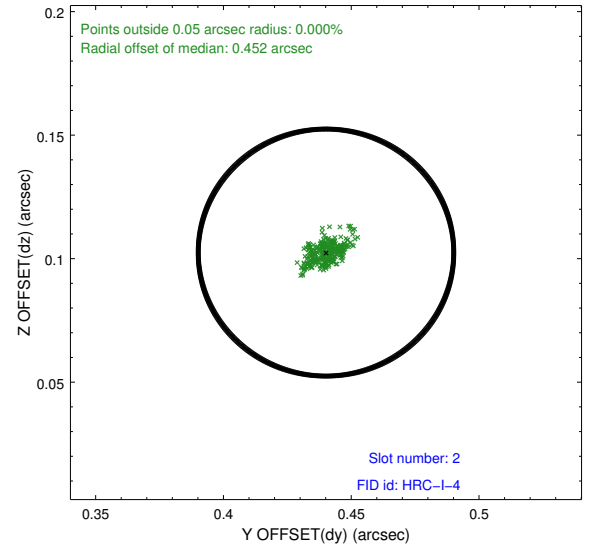
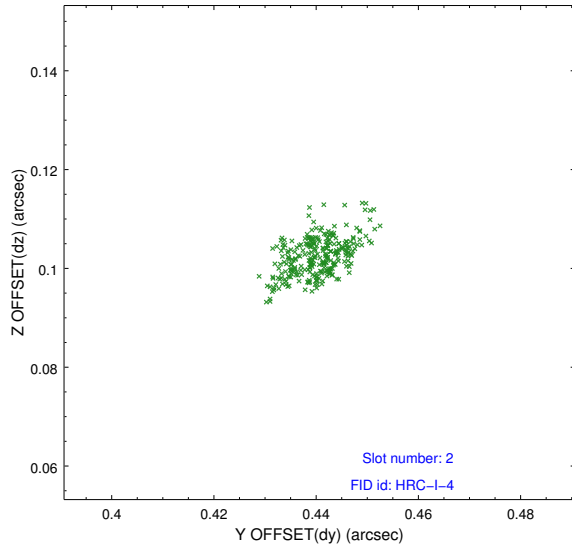
### 2.5.1 Slot 0



## 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)	2017.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1779813190699

### A.2 Comments