

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4305 - L2 Version 4  
Chandra X-Ray Center

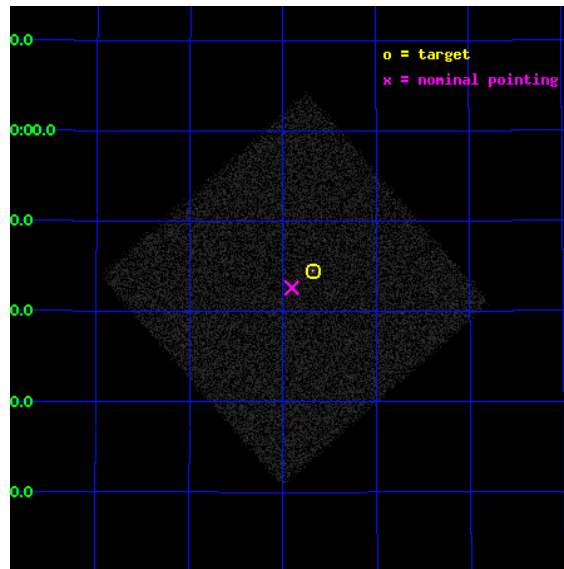
L2 Processing Date : Oct 23 2012

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# 1 Front

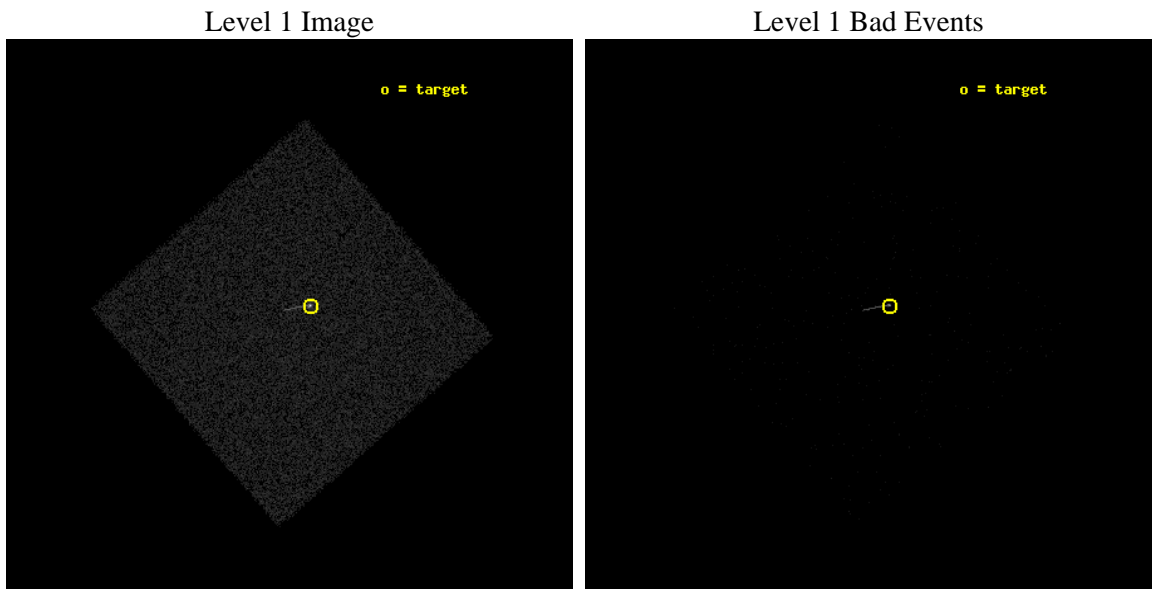
seq_num	290265	Sequence number
obs_id	4305	Observation id
title	AO4 CALIBRATION OBSERVATIONS TO MONITOR SPATIAL VARIATIONS IN THE HRC-I GAIN	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.22618229148	Nominal RA [deg]
dec_nom	45.710827533025	Nominal Dec [deg]
roll_nom	3.8235187471473	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1188.2312999666	[s]
livetime	1176.8281429972	Ontime multiplied by DTCOR
l2events	47329	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	8.4.5	Processing system revision	ontime	1188.2312999666	[s]
caldbver	4.5.2	&#160	l1events	83075	Number of level 1 events
date	2012-10-23T09:29:53	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

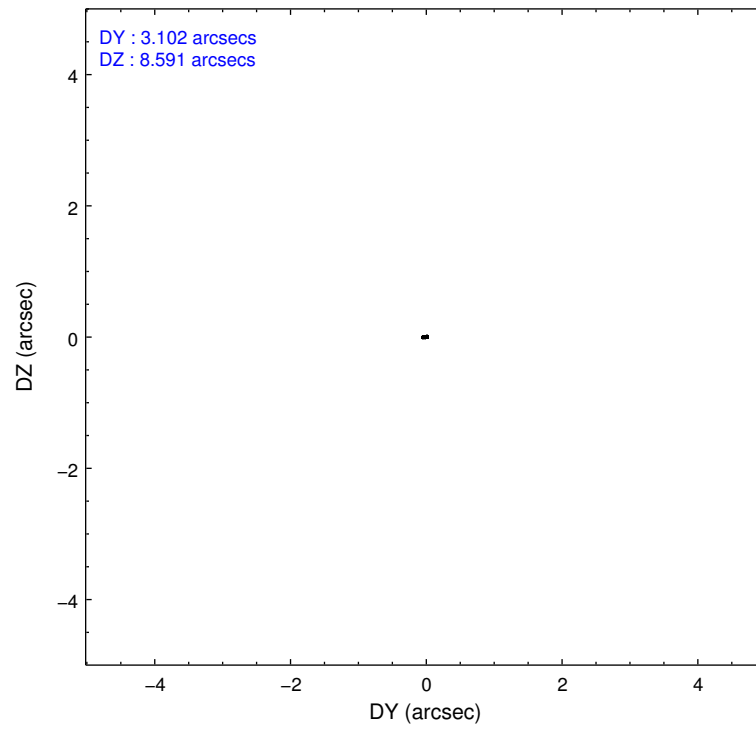
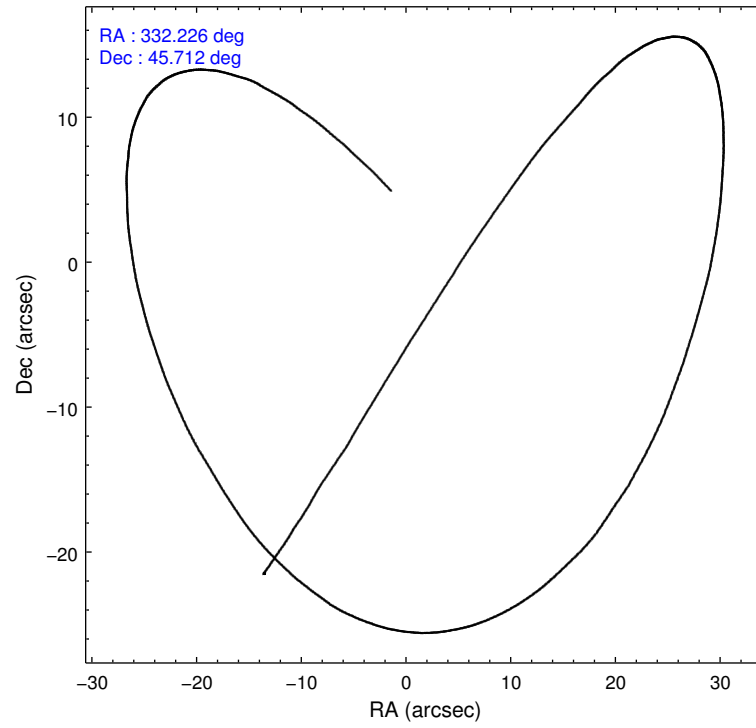
	<b>segment 0</b>
level 1 events	83075
rejected events	16246
rejected %	19%

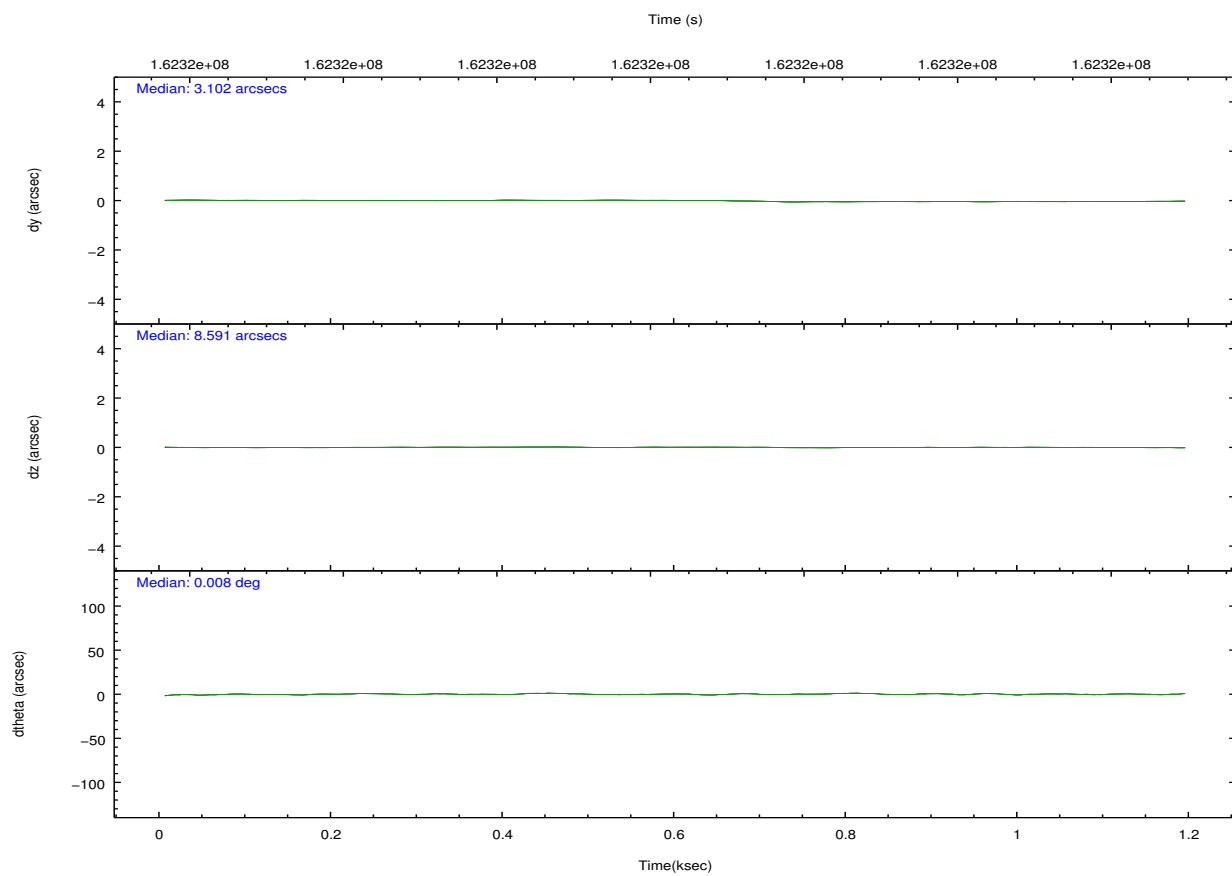
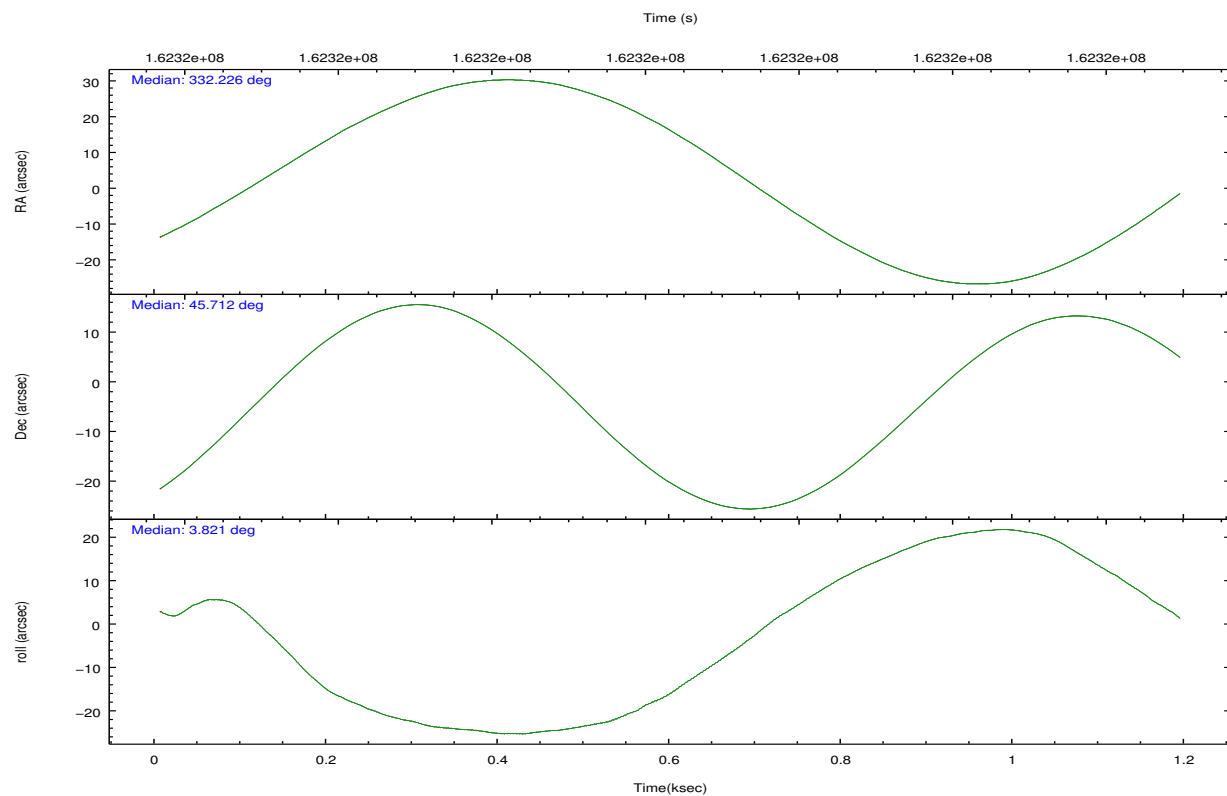
## 2.2 Compared Parameters

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	332.194843	332.2261822914827
[deg] Pointing Dec	45.694386	45.71082753302527
[deg] Pointing Roll	3.941489	3.823518747147312
[s] Window start time (MET)	161654464.184000	161654464.184000
[s] Window stop time (MET)	165369664.184000	165369664.184000
[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)	162316228.184000	162315852.07049
Observation start date	2003-02-22T15:49:24	2003-02-22T15:44:12
[s] Observation end time (MET)	162317228.184000	162317361.89556
Observation end date	2003-02-22T16:06:04	2003-02-22T16:09:21

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

## 2.3 Aspect





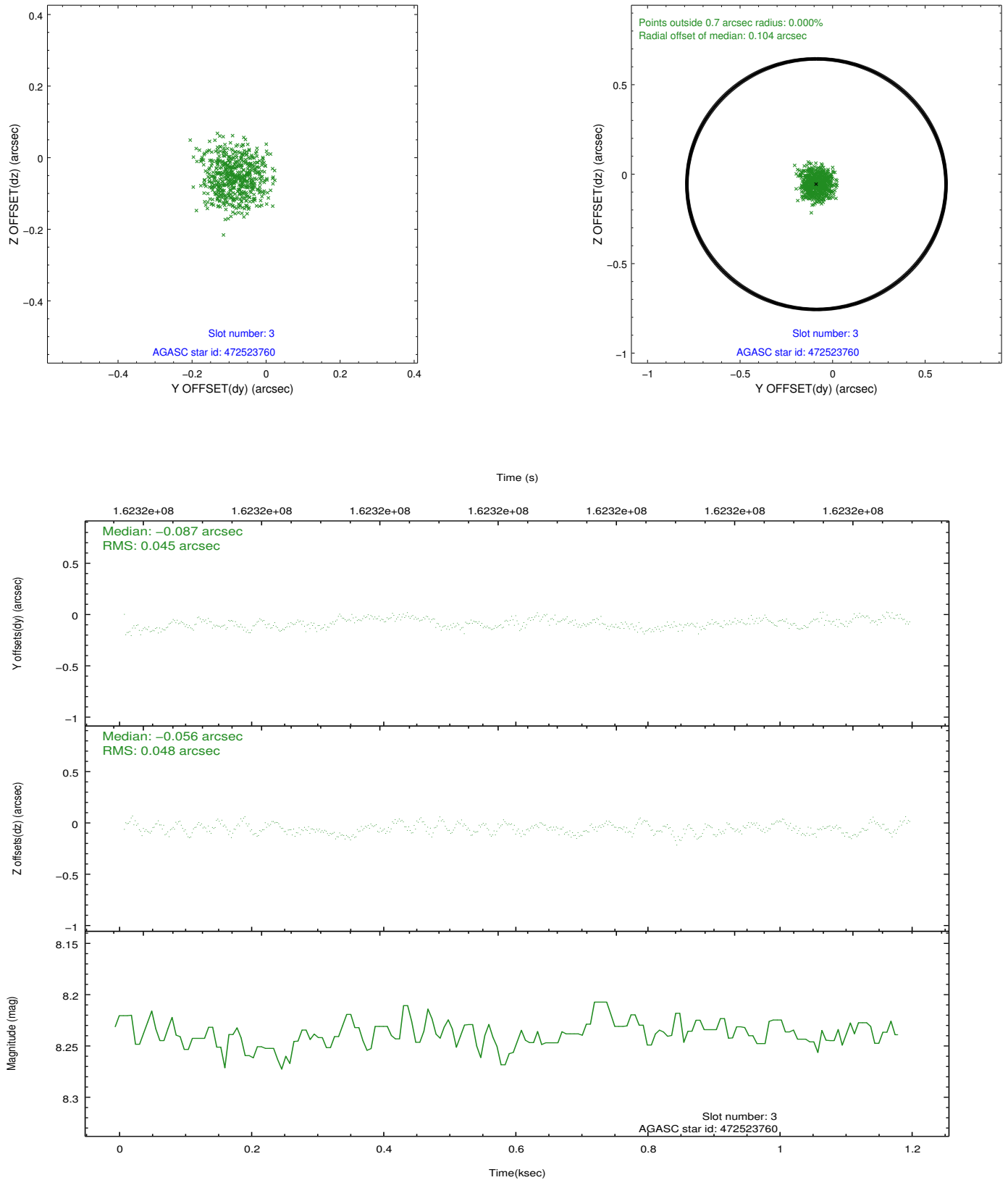
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.98	291	0.026	0.063	0.007	0.012	0.000000	0.000000	-758.53	-1296.47
1	FID	HRC-I-2	7.01	291	0.076	-0.077	0.006	0.011	0.000000	0.000000	851.54	-1302.63
2	FID	HRC-I-3	7.06	291	0.016	-0.074	0.007	0.011	0.000000	0.000000	-1184.11	1003.48
3	GUIDE	472523760	8.24	581	-0.087	-0.056	0.072	0.109	331.645363	45.403260	-1456.37	-948.50
4	GUIDE	472527720	6.98	581	-0.102	-0.051	0.066	0.106	331.460205	45.112509	-2006.96	-1957.83
5	GUIDE	472654568	9.44	581	0.022	0.001	0.115	0.179	332.194449	45.063576	-159.40	-2271.82
6	GUIDE	472655152	9.43	581	0.155	0.031	0.096	0.152	332.504239	45.862991	816.50	546.89
7	GUIDE	472659832	9.47	579	0.003	0.066	0.088	0.138	332.780399	46.098139	1560.91	1353.10

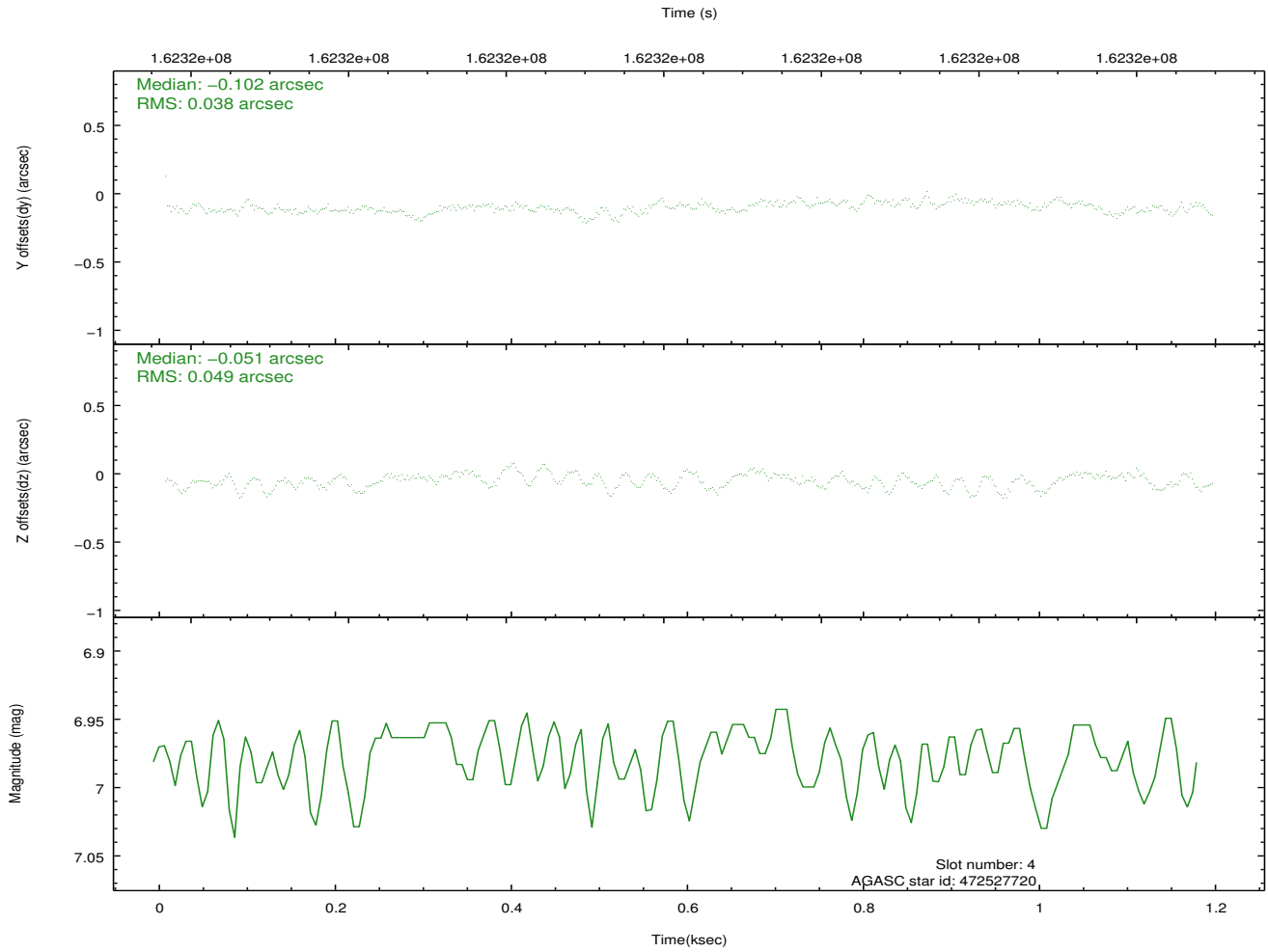
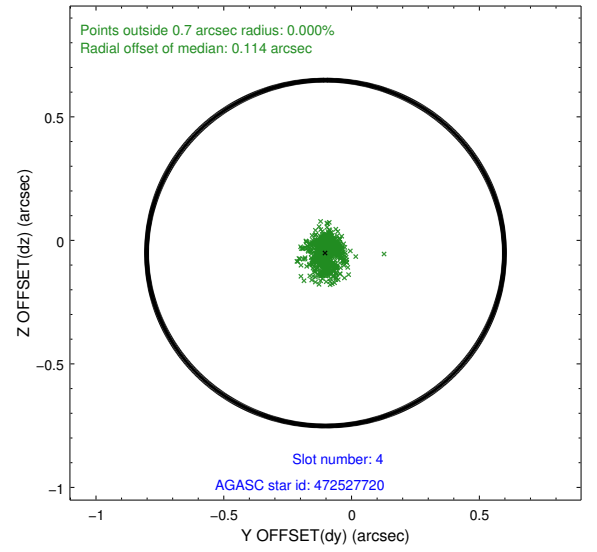
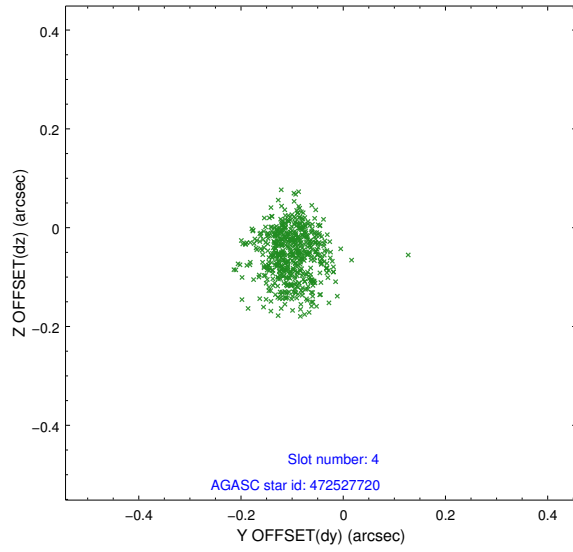


## 2.4 Star Slots

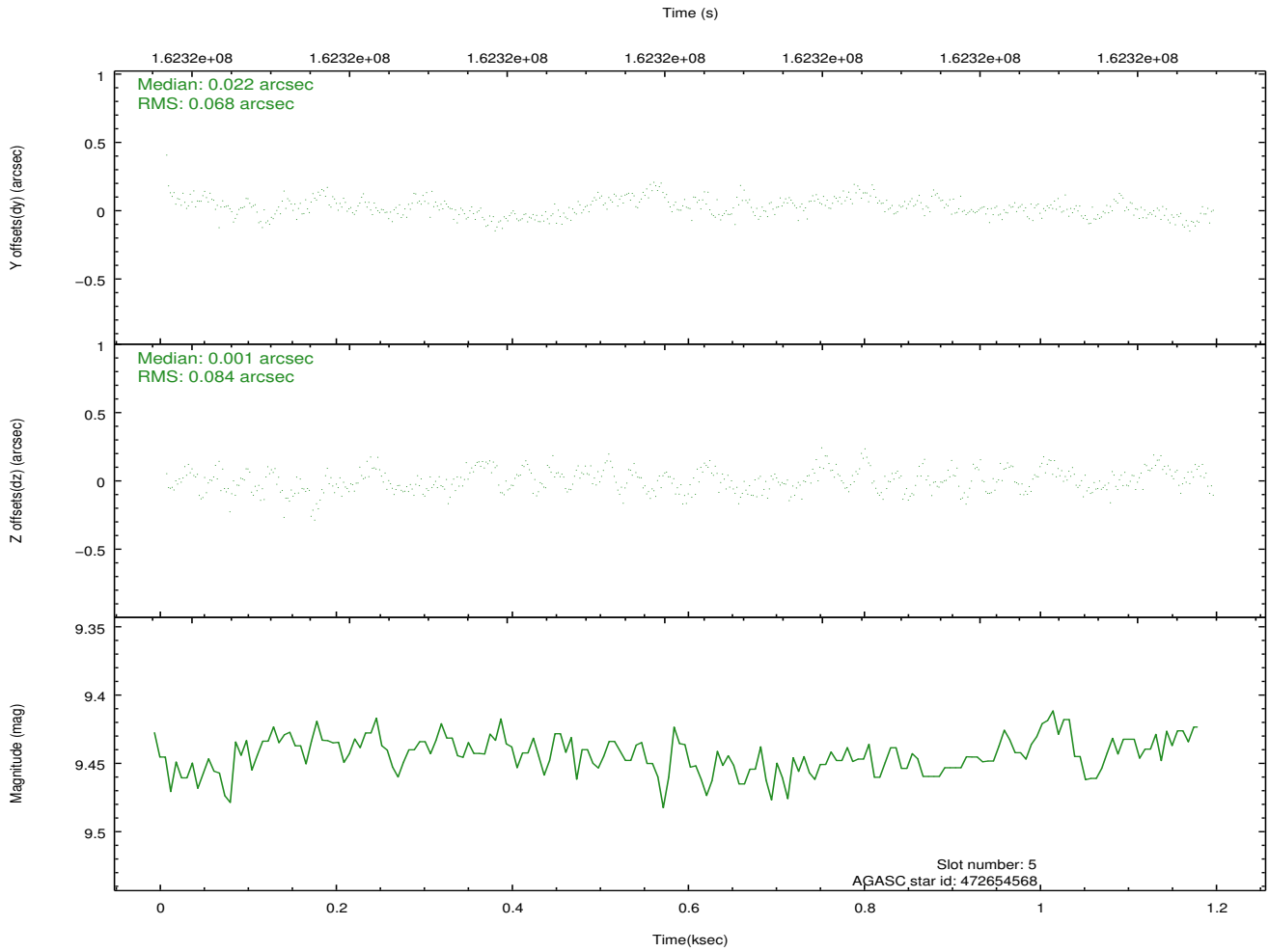
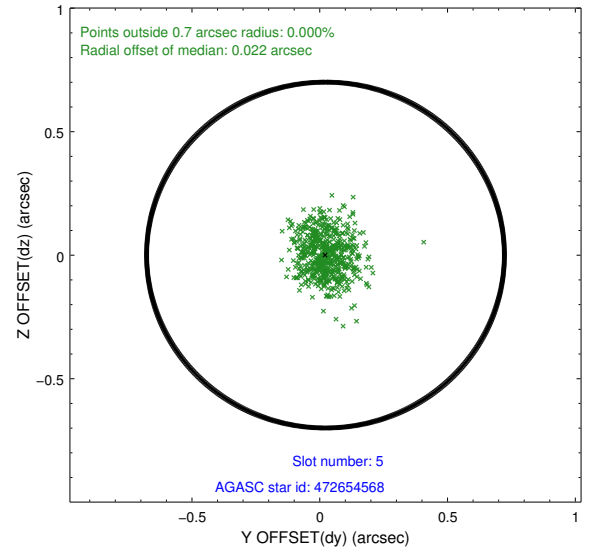
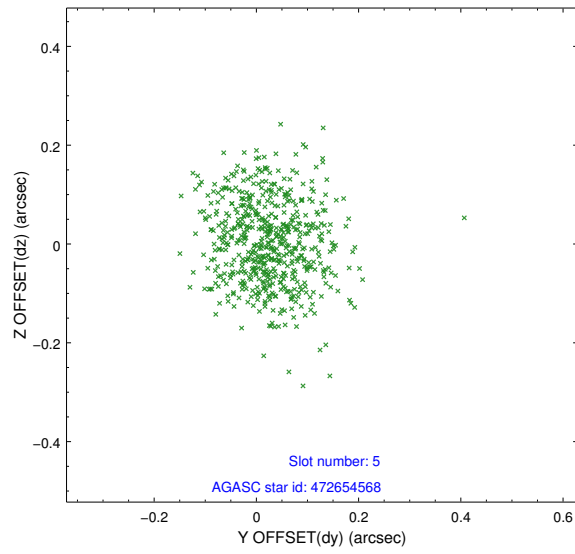
### 2.4.1 Slot 3



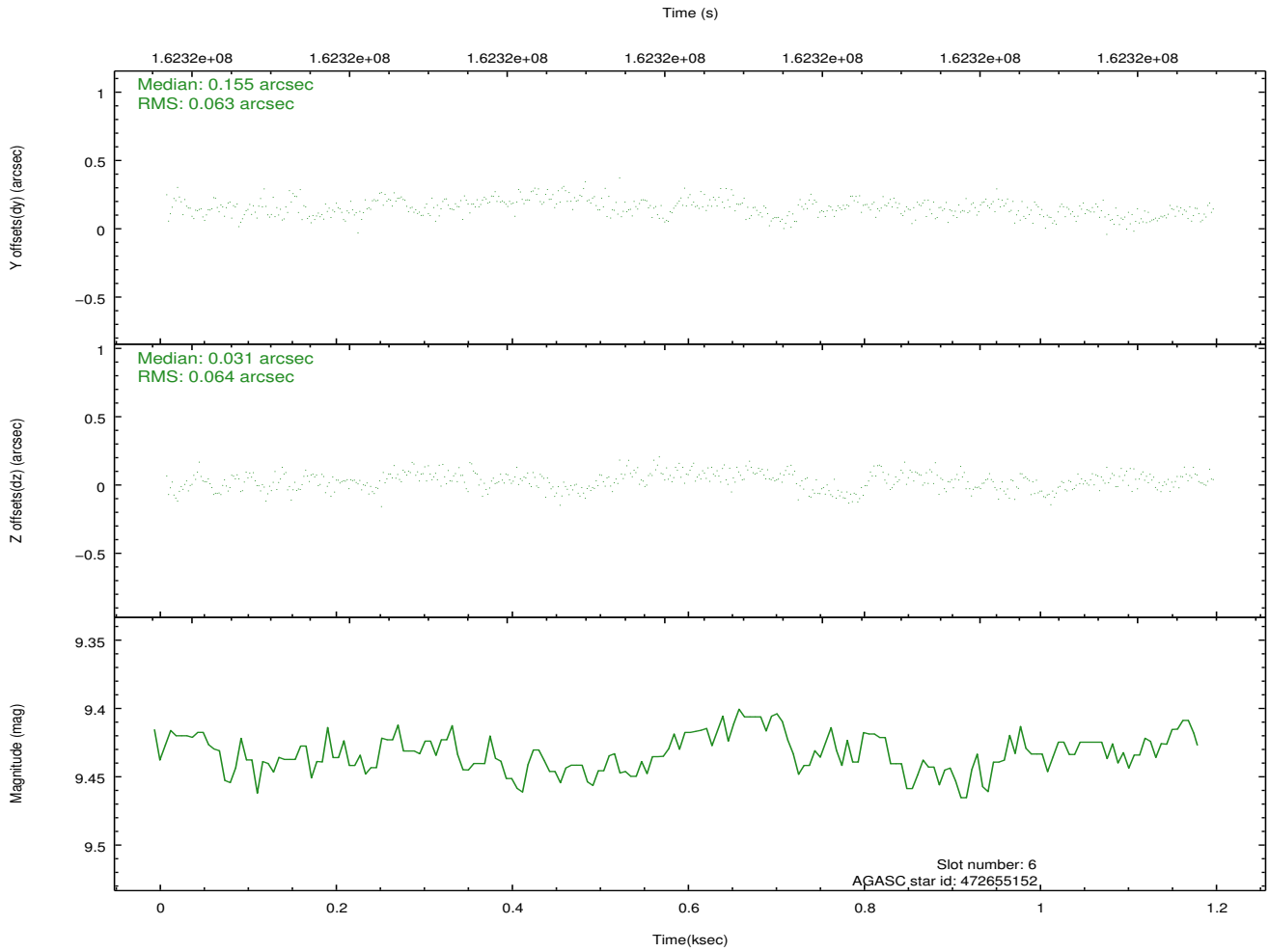
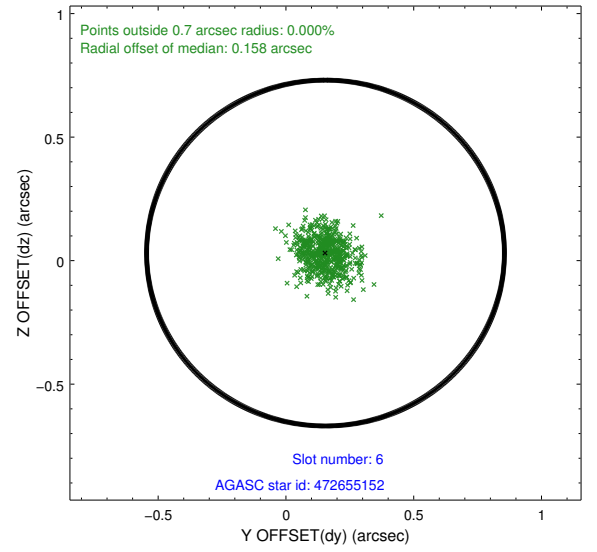
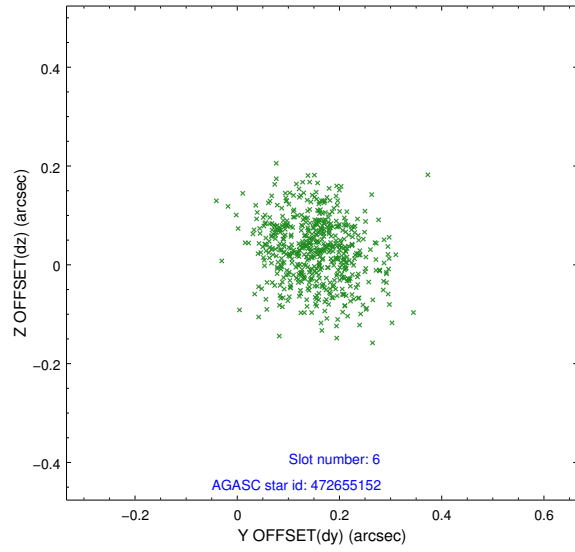
## 2.4.2 Slot 4



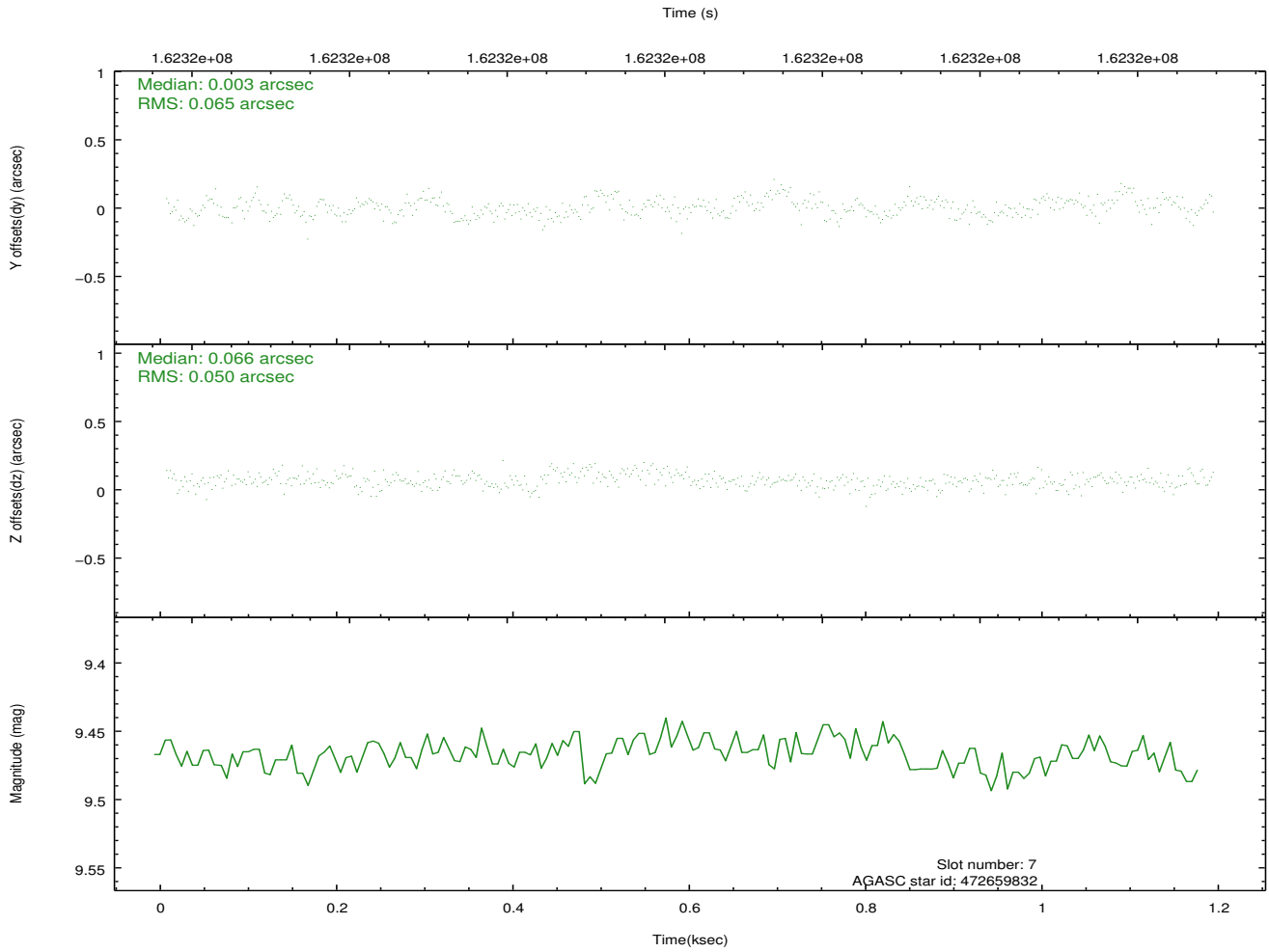
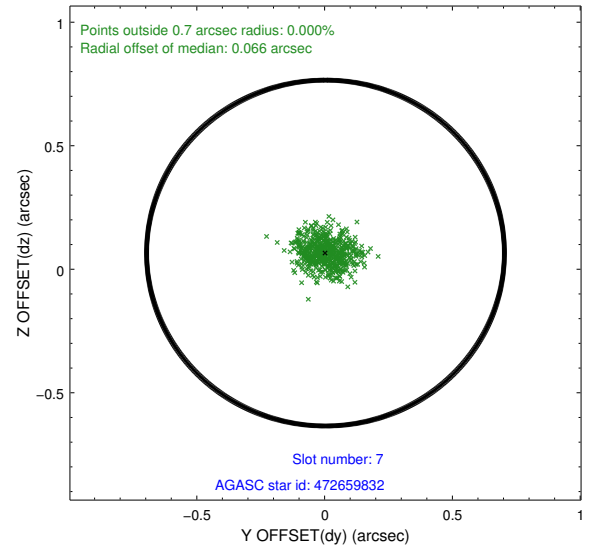
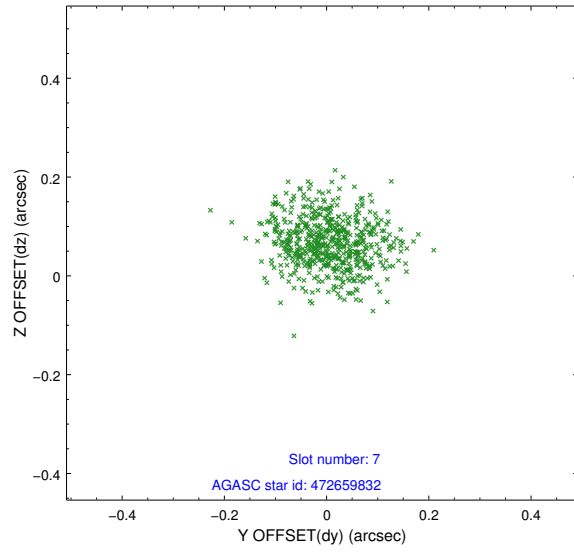
### 2.4.3 Slot 5



## 2.4.4 Slot 6

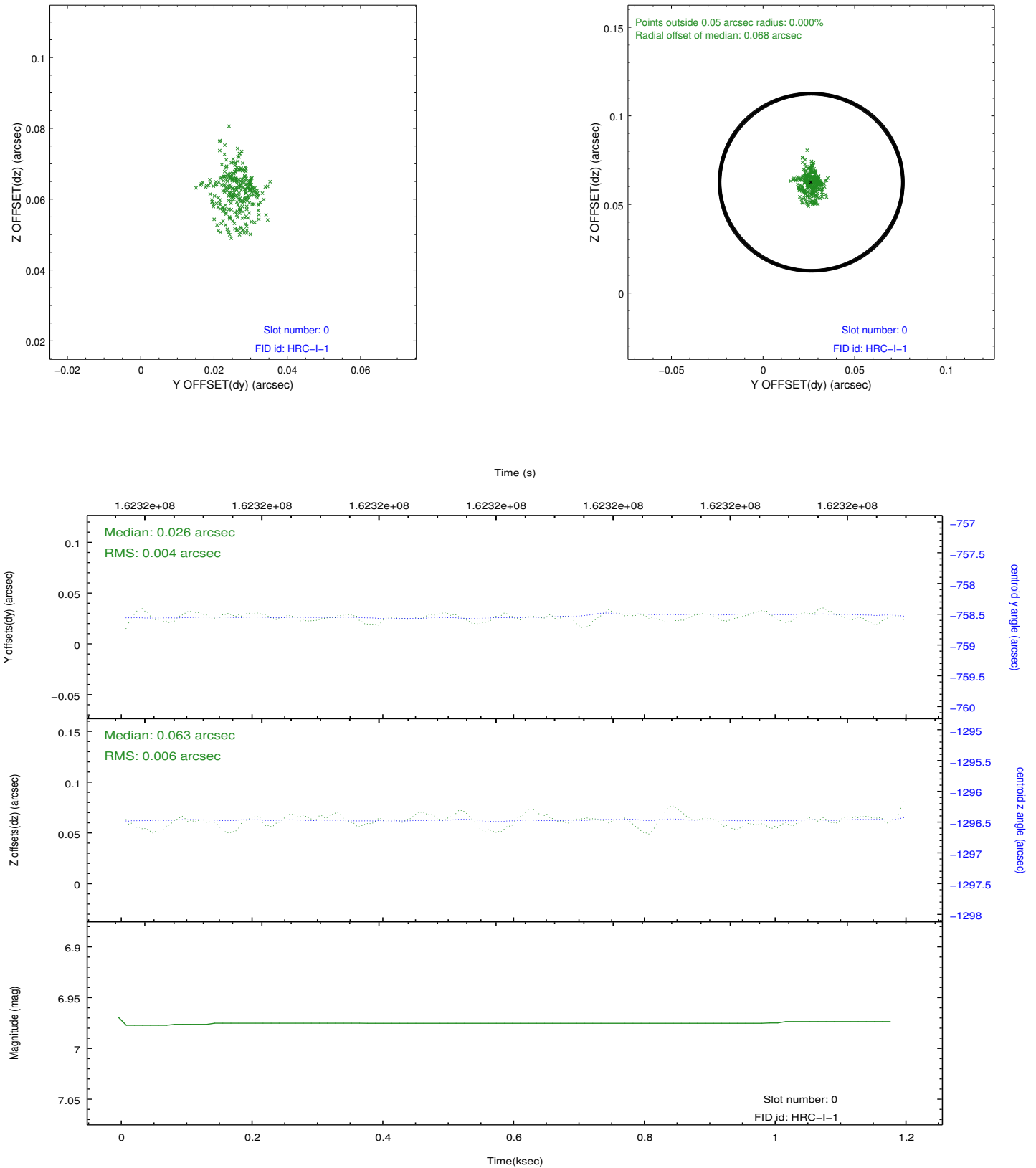


## 2.4.5 Slot 7

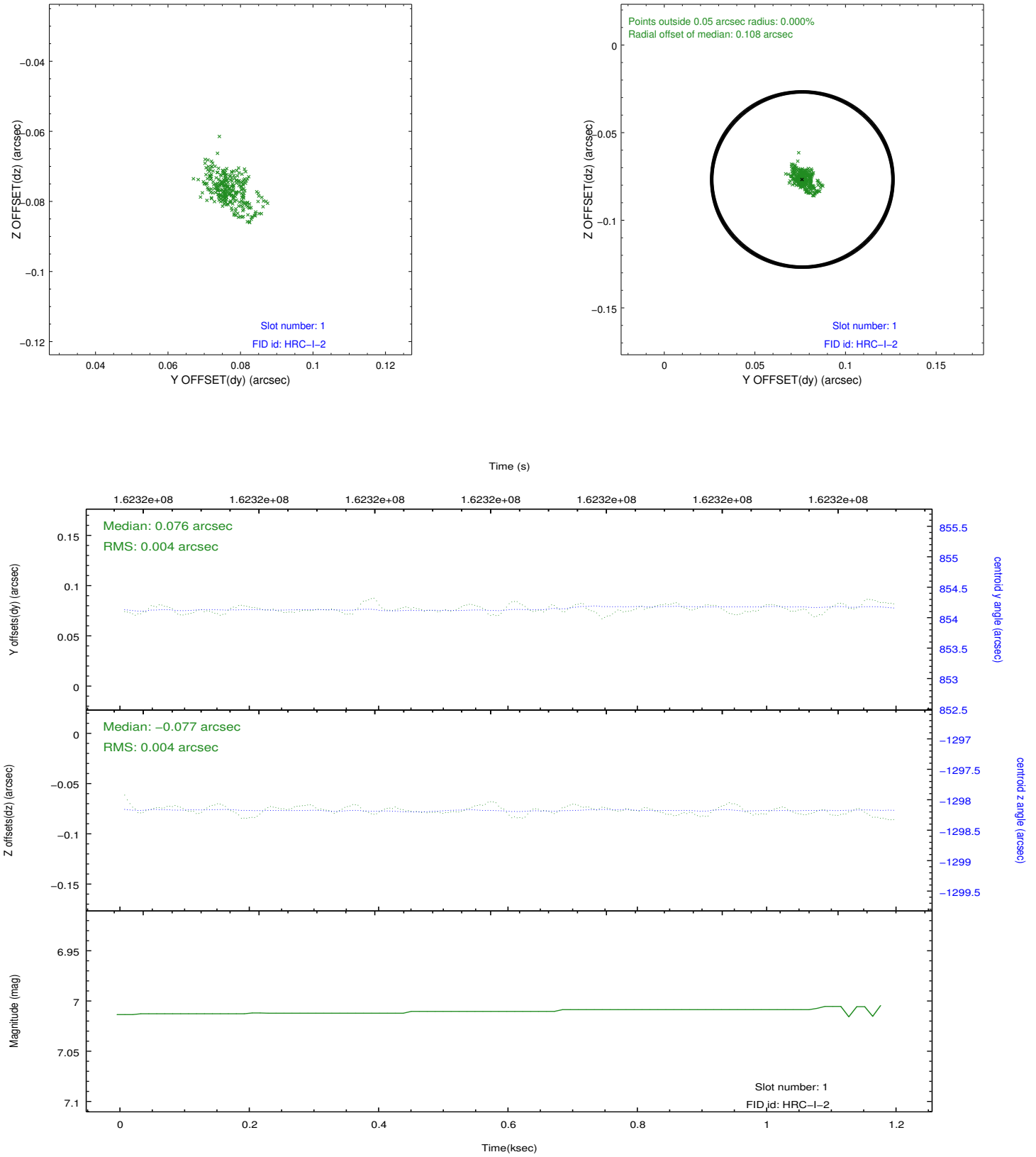


## 2.5 FID Slots

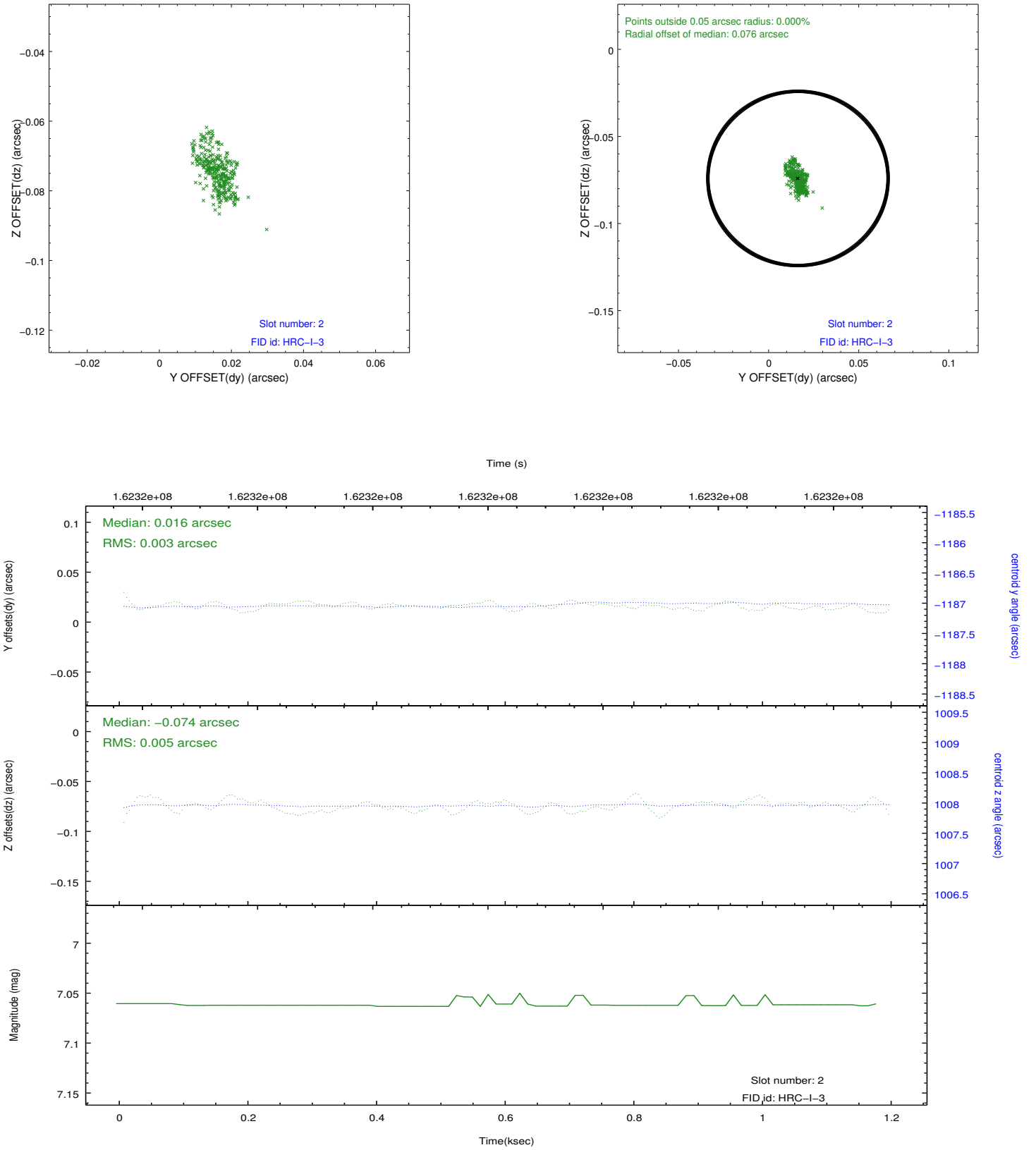
### 2.5.1 Slot 0



## 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)	2012.11.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.188

### A.2 Comments

Window constraint met.