

# V&V Reference Report

## L2 ASCDS Version : 10.4.1

Observation 17353 - L2 Version 1  
Chandra X-Ray Center

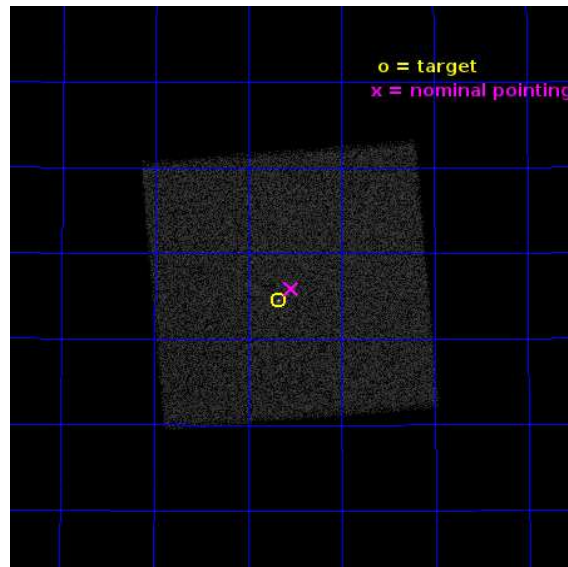
L2 Processing Date : Sep 27 2015

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# 1 Front

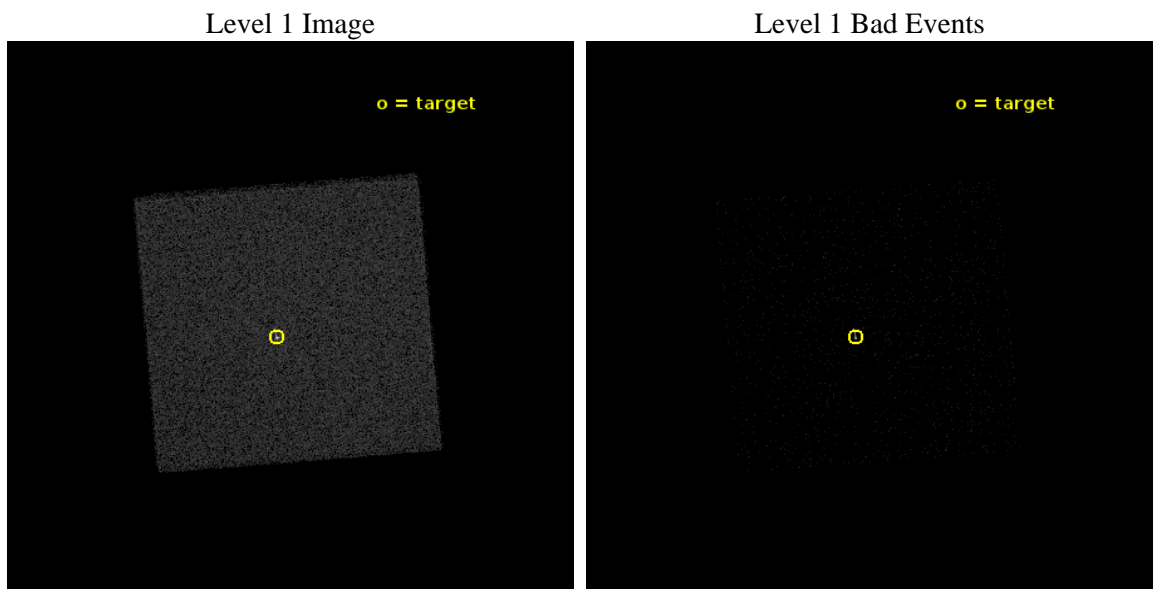
seq_num	291226	Sequence number
obs_id	17353	Observation id
title	AO-16 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.13363921603	Nominal RA [deg]
dec_nom	45.765274825455	Nominal Dec [deg]
roll_nom	220.21017382633	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1182.0813169479	[s]
livetime	1171.4274887467	Ontime multiplied by DTCOR
l2events	87887	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	10.4.1	Processing system revision	ontime	1182.0813169479	[s]
caldbver	4.6.8	&#160	l1events	148397	Number of level 1 events
date	2015-09-27T03:42:14	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

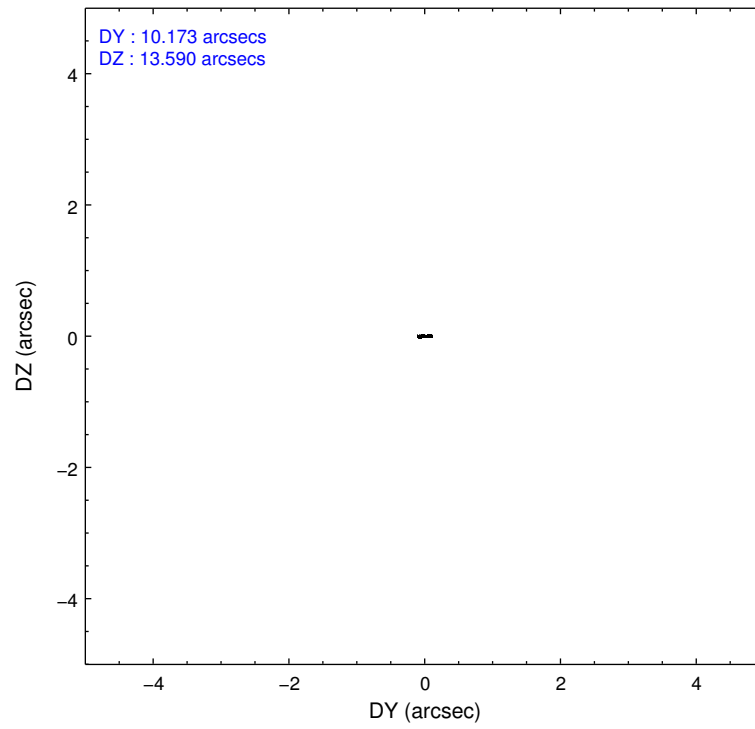
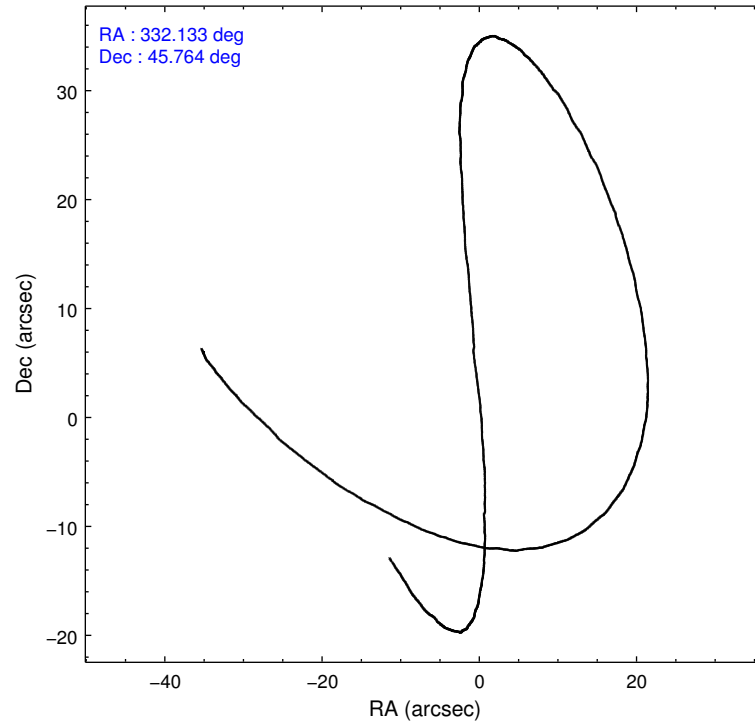
#### Level 1 Events

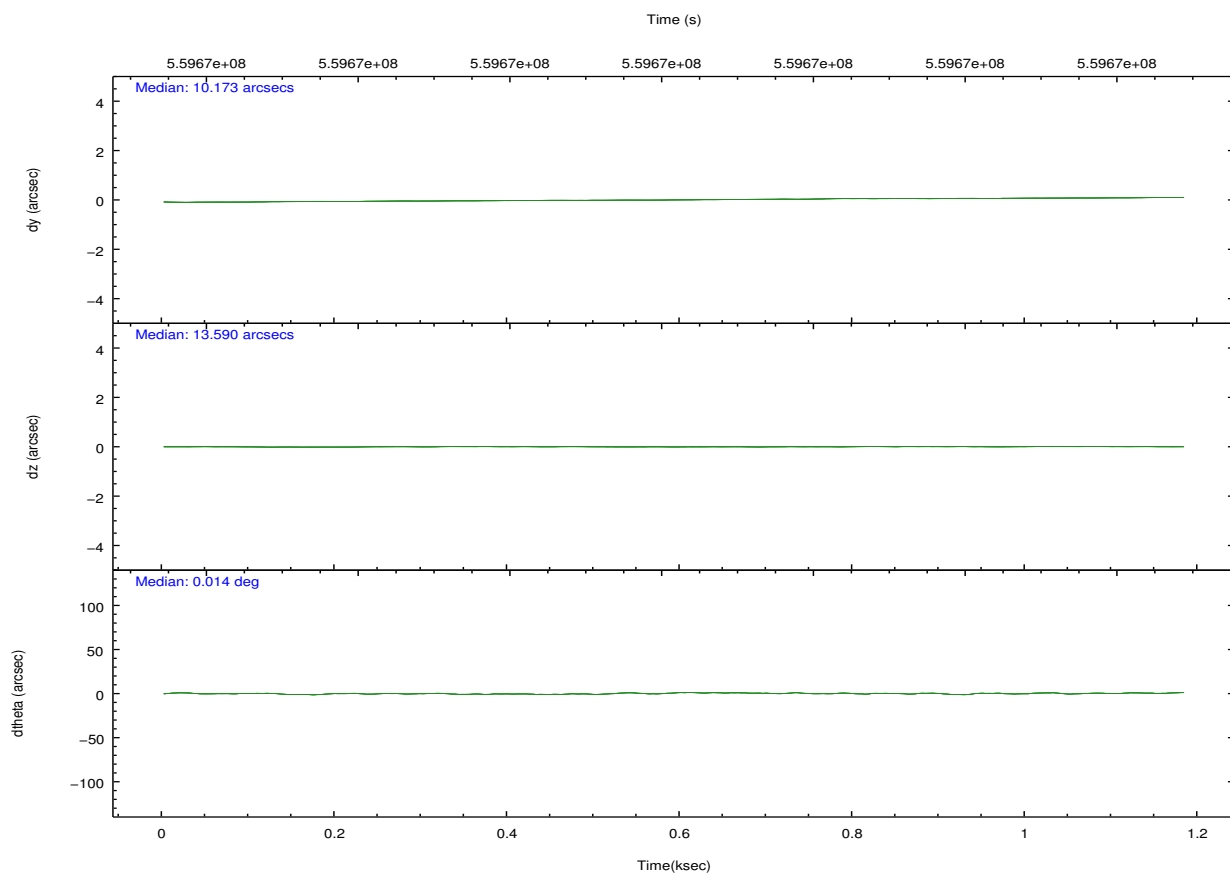
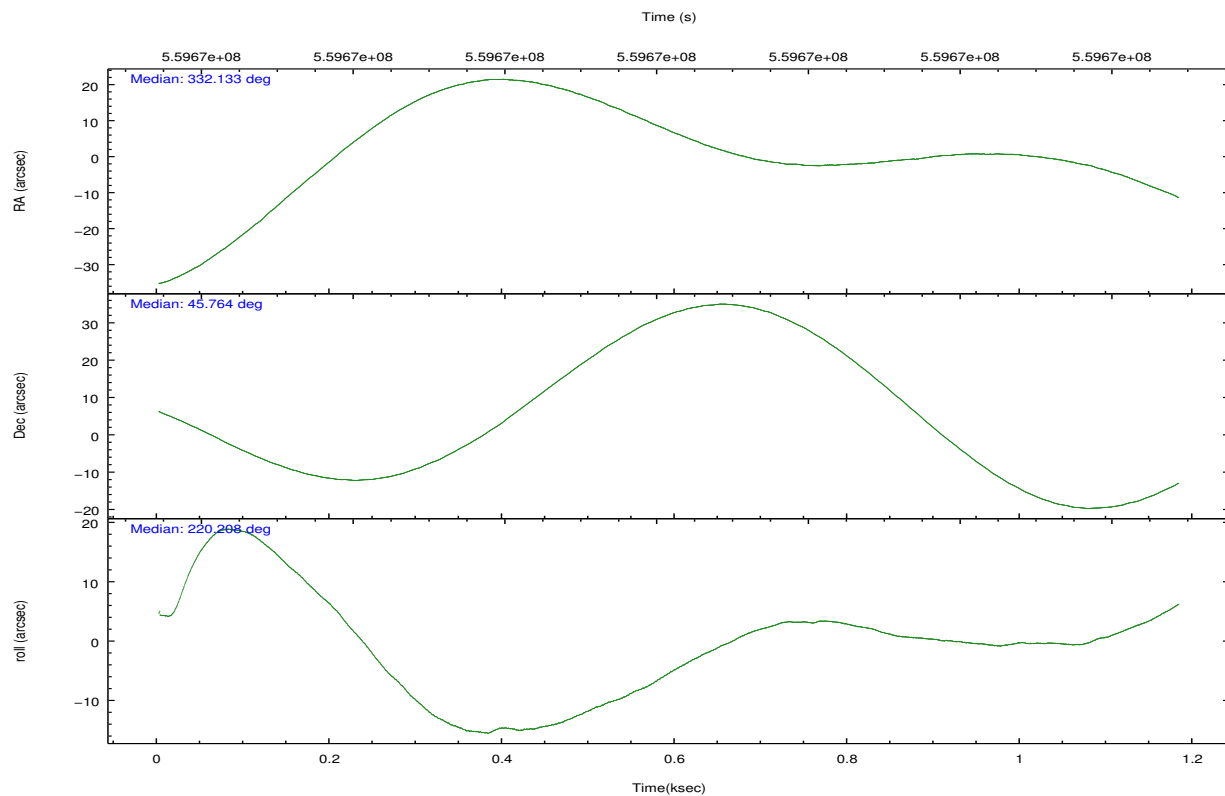
	<b>segment 0</b>
level 1 events	148397
rejected events	32176
rejected %	21%

## 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	332.145723	332.1336392160343			
[deg] Pointing Dec	45.792181	45.76527482545521			
[deg] Pointing Roll	220.297063	220.2101738263318			
[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)	559671992.184000	559671616.3811001			
Observation start date	2015-09-26T16:25:24	2015-09-26T16:20:16			
[s] Observation end time (MET)	559672992.184000	559673126.71869			
Observation end date	2015-09-26T16:42:04	2015-09-26T16:45:26			

## 2.3 Aspect





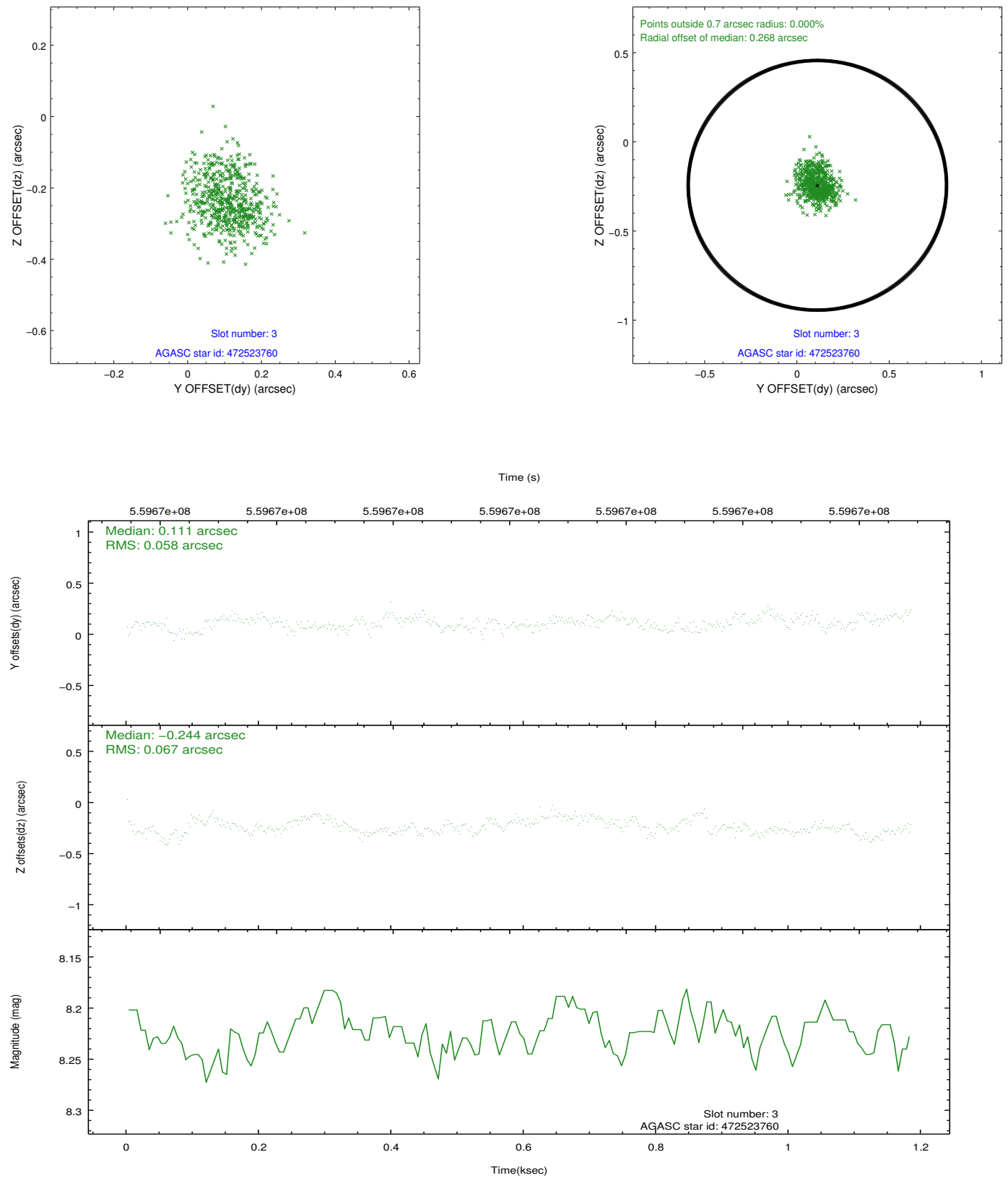
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.00	289	-0.202	-0.079	0.006	0.010	0.000000	0.000000	-766.17	-1301.63
1	FID		HRC-I-2	7.01	289	0.225	-0.112	0.007	0.011	0.000000	0.000000	844.24	-1307.88
2	FID		HRC-I-4	7.00	289	0.094	0.099	0.006	0.011	0.000000	0.000000	1280.05	996.00
3	GUIDE	used	472523760	8.22	578	0.111	-0.244	0.094	0.149	331.645363	45.403260	1866.47	243.70
4	GUIDE	used	472533912	9.13	578	0.247	0.150	0.128	0.230	331.791136	46.368695	-669.61	-2156.59
5	GUIDE	used	472655152	9.38	577	0.124	-0.105	0.172	0.303	332.504239	45.862991	-854.09	378.67
6	GUIDE	used	472525528	6.63	578	-0.375	0.032	0.085	0.146	331.551102	45.248694	2408.00	511.09
7	GUIDE	used	472659832	9.43	577	-0.088	0.150	0.147	0.252	332.780399	46.098139	-1922.10	177.77

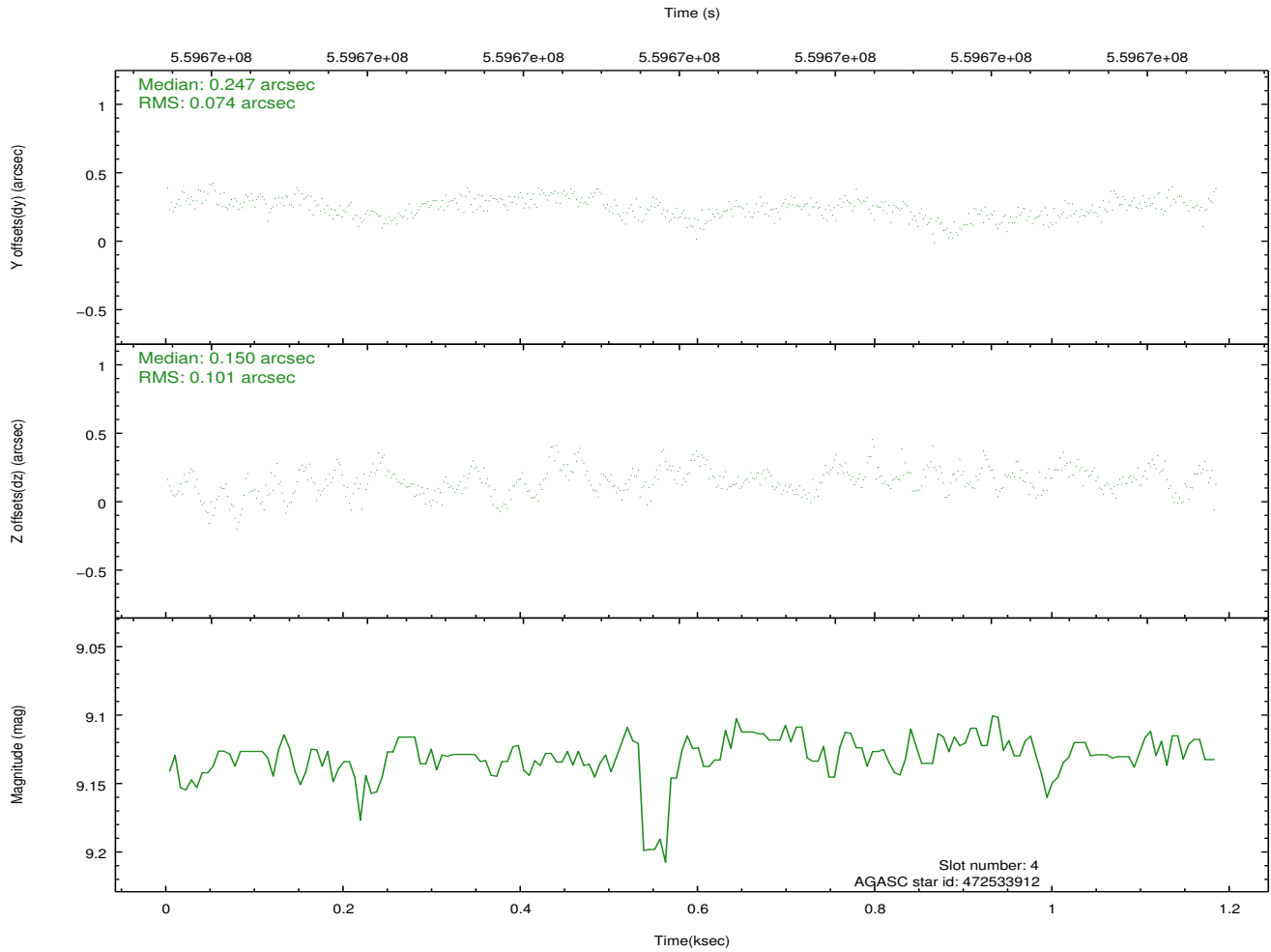
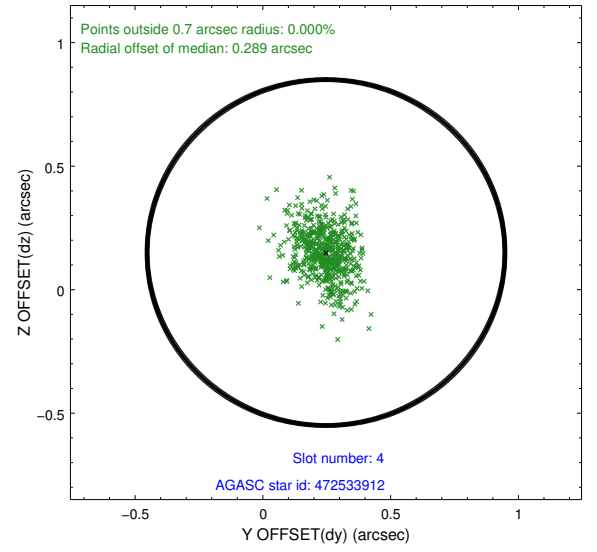
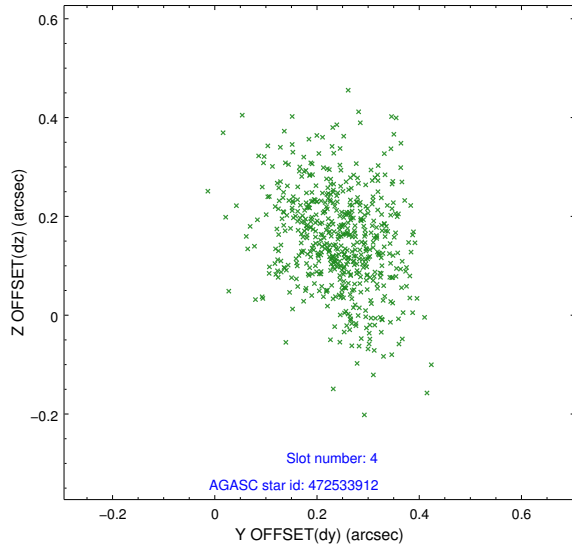


## 2.4 Star Slots

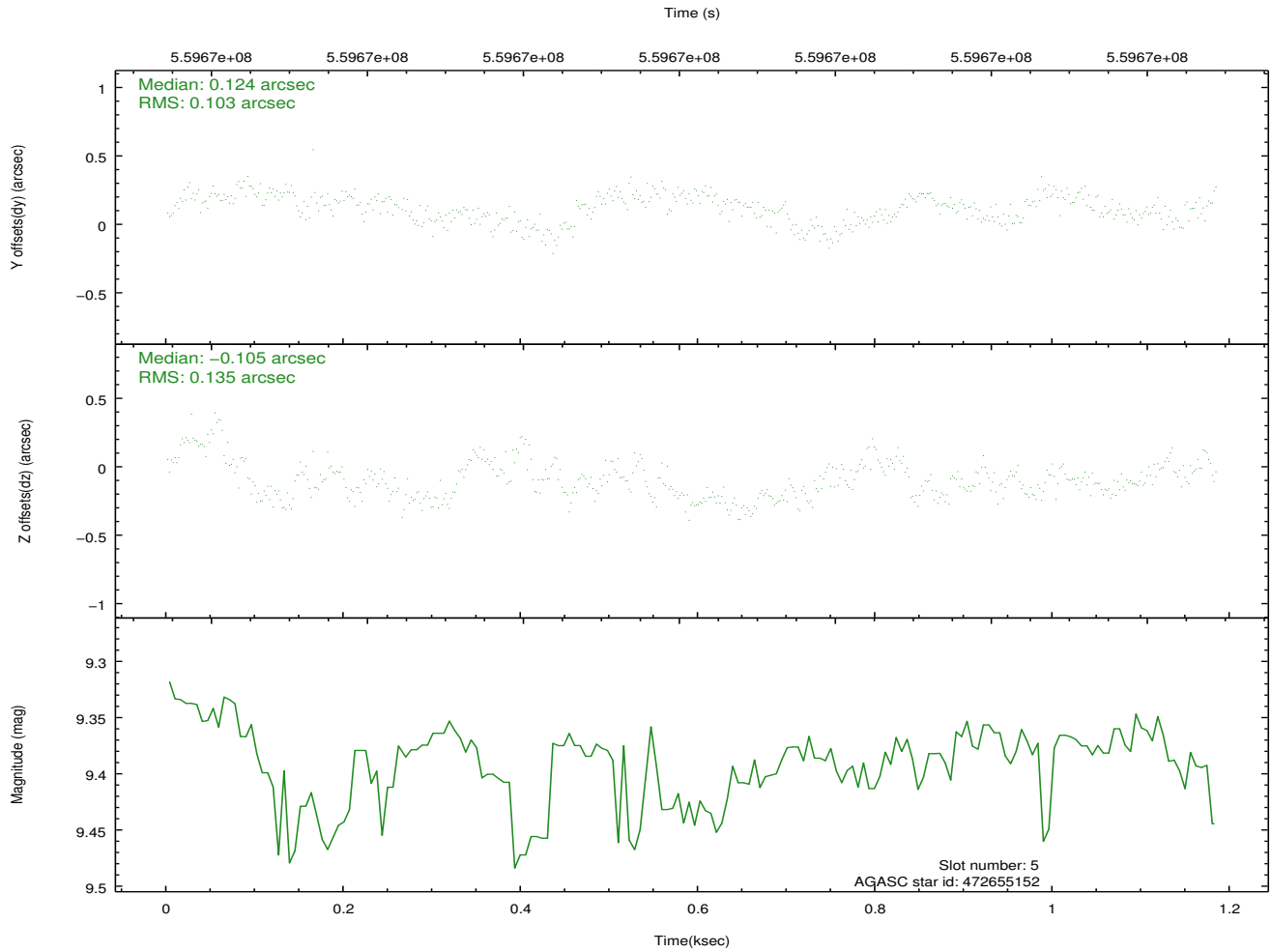
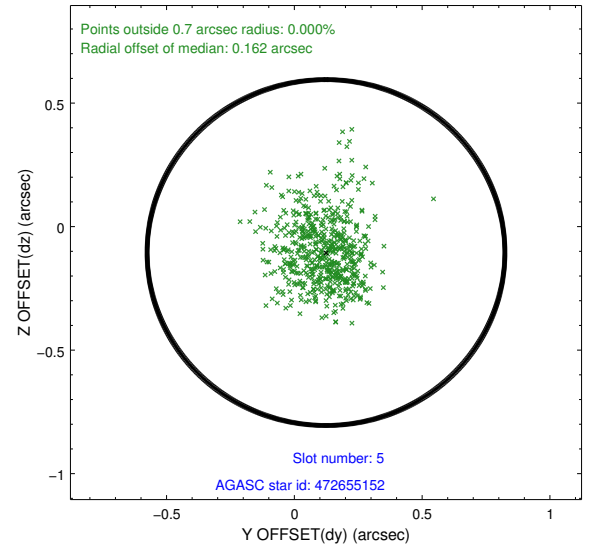
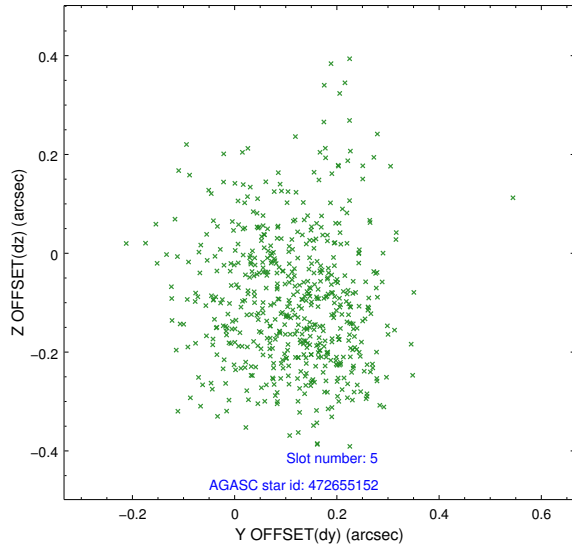
### 2.4.1 Slot 3



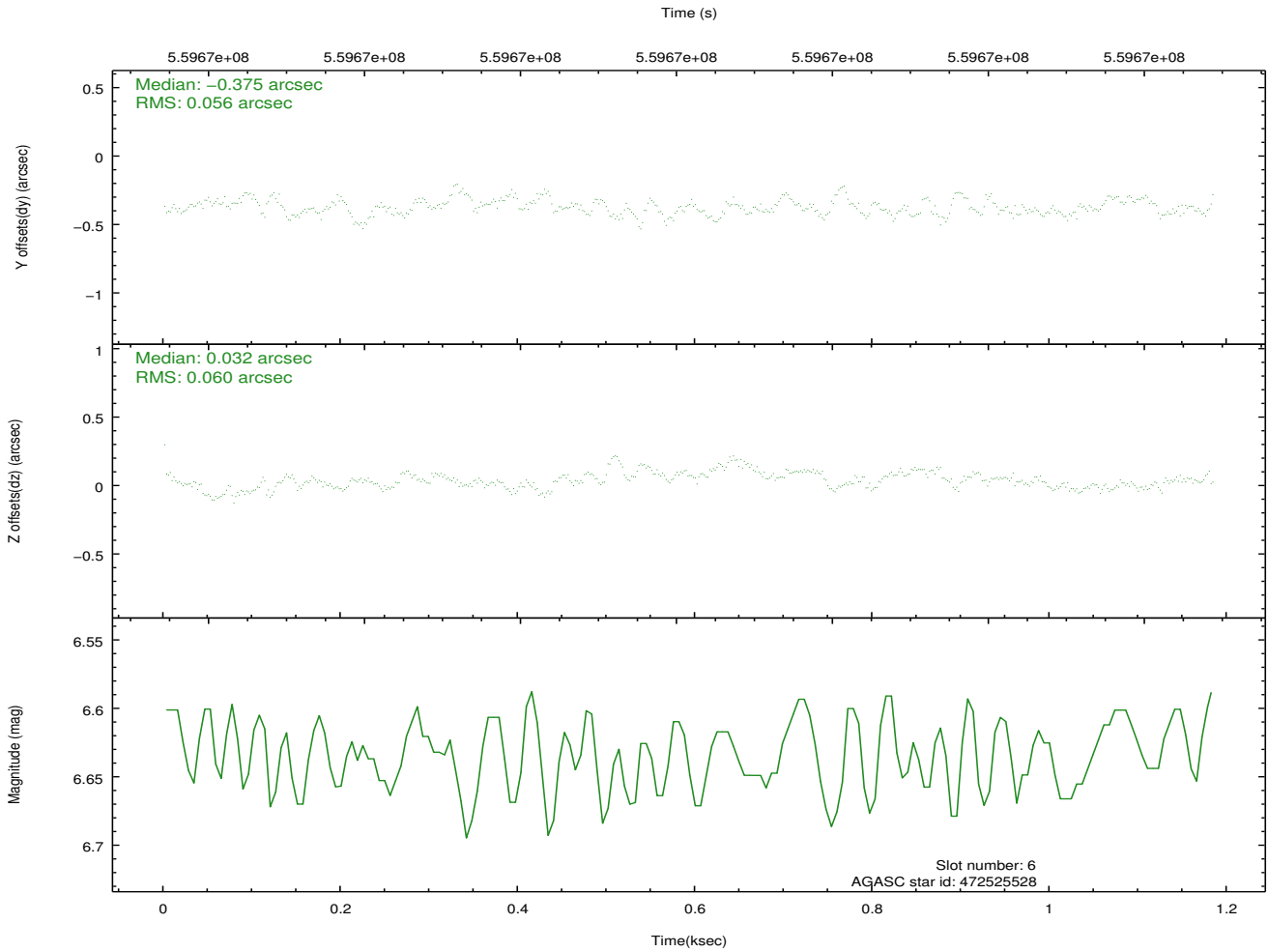
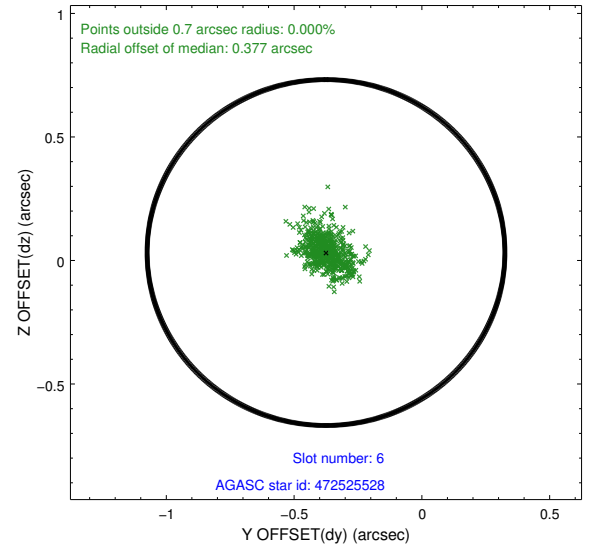
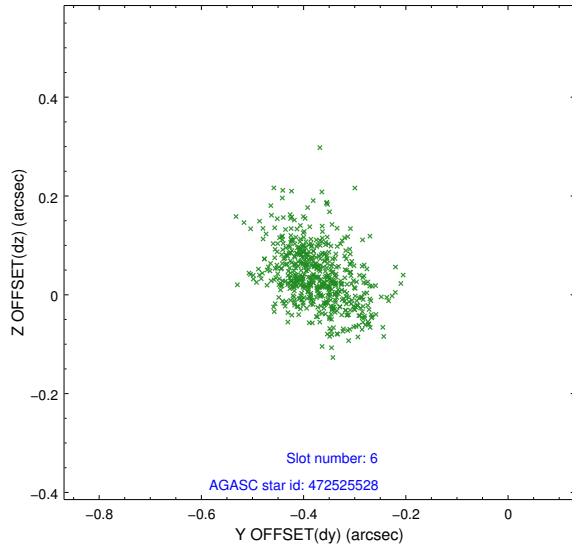
## 2.4.2 Slot 4



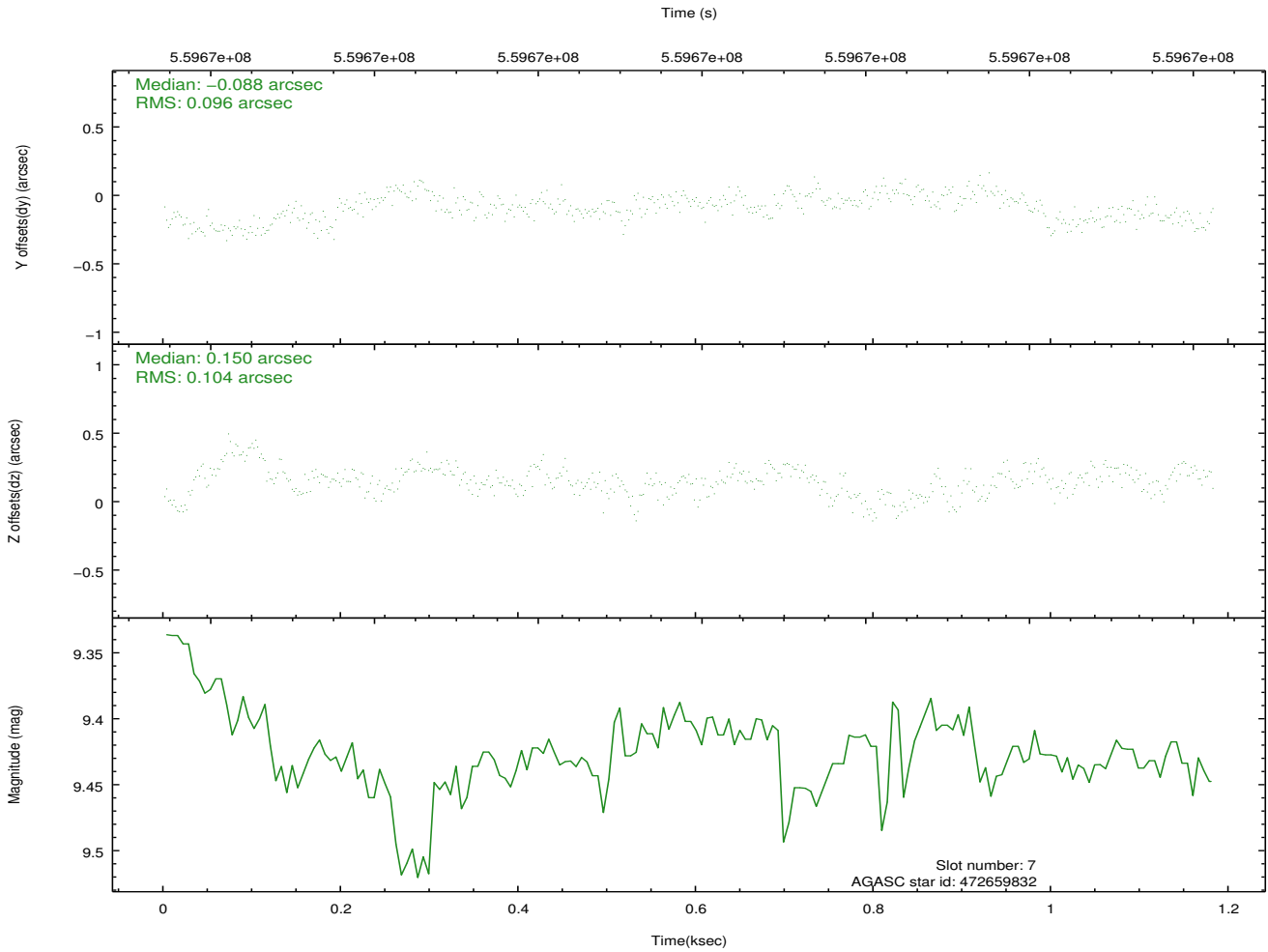
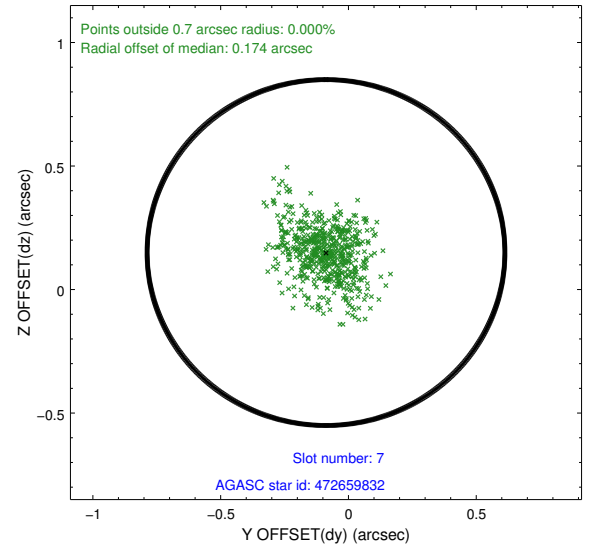
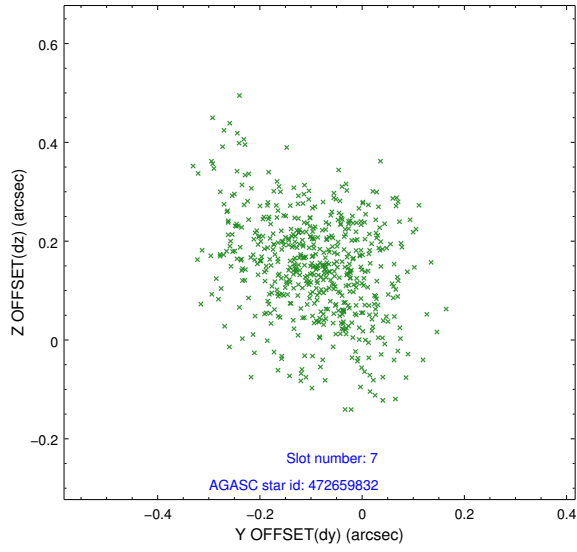
### 2.4.3 Slot 5



## 2.4.4 Slot 6

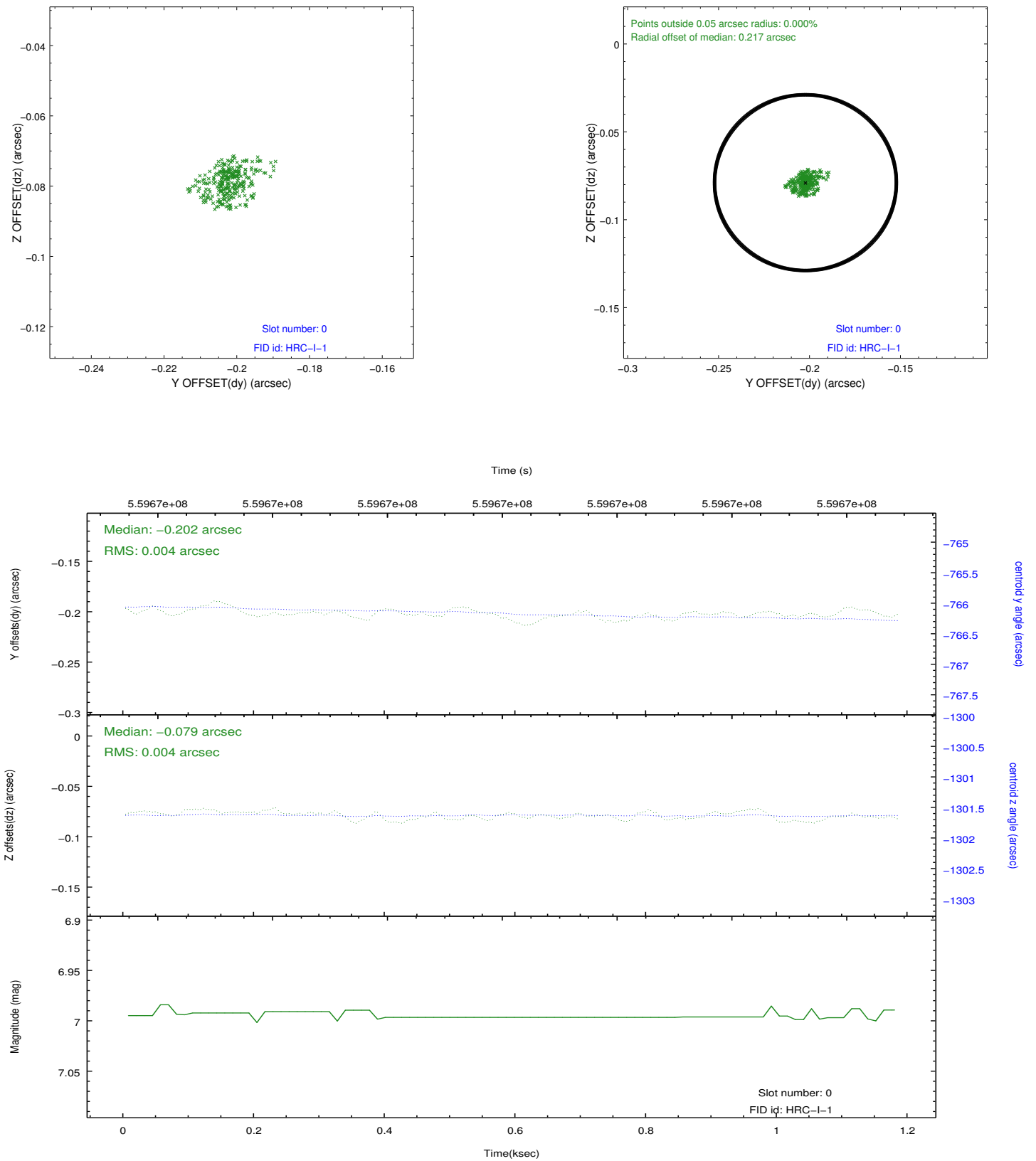


## 2.4.5 Slot 7

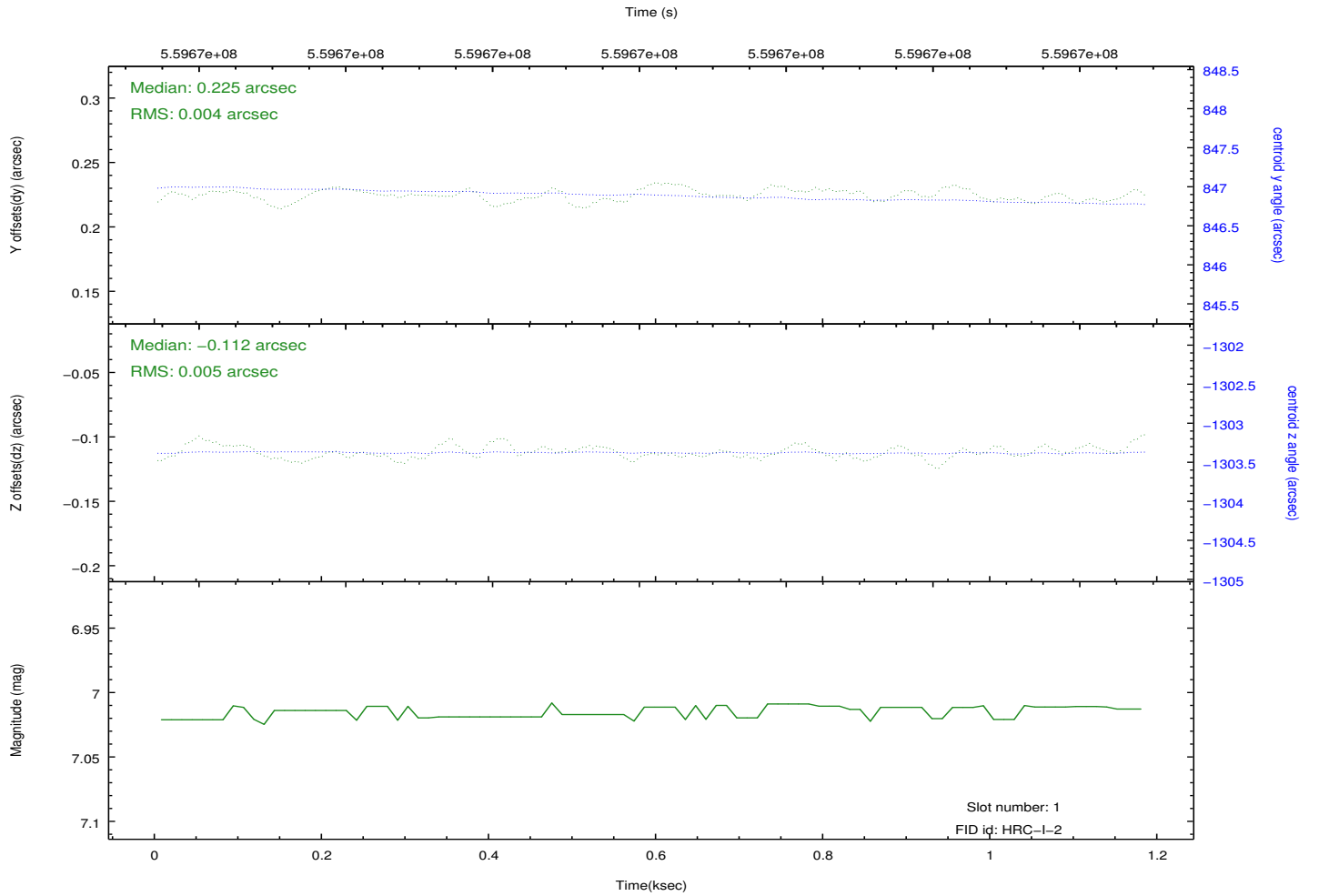
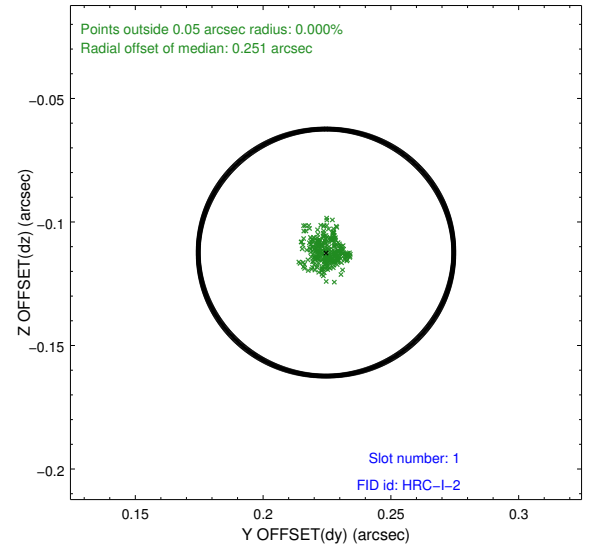
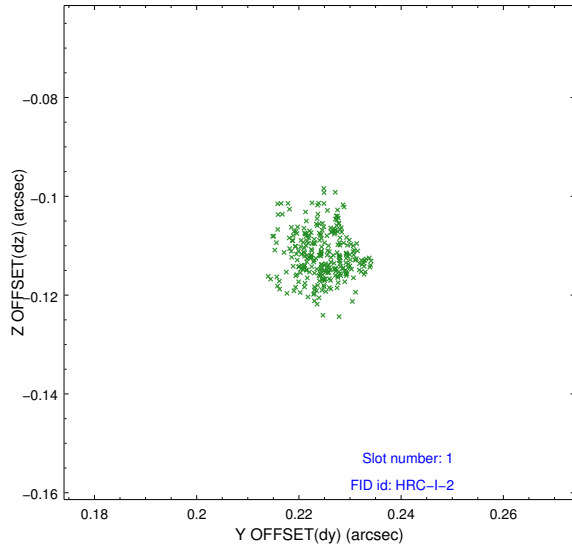


## 2.5 FID Slots

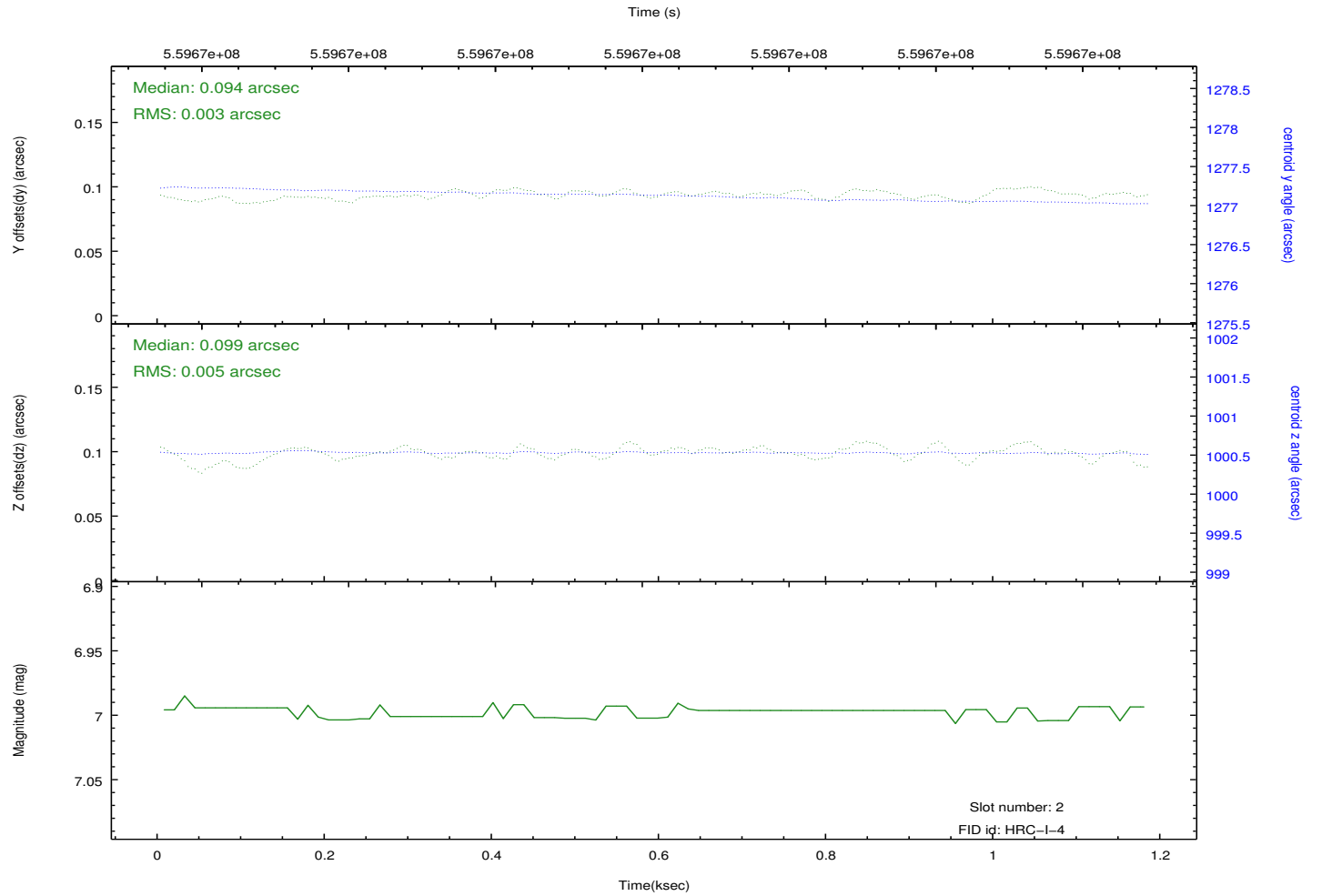
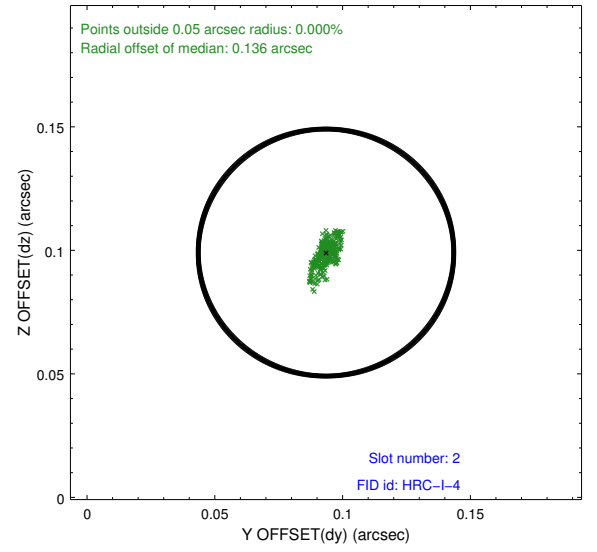
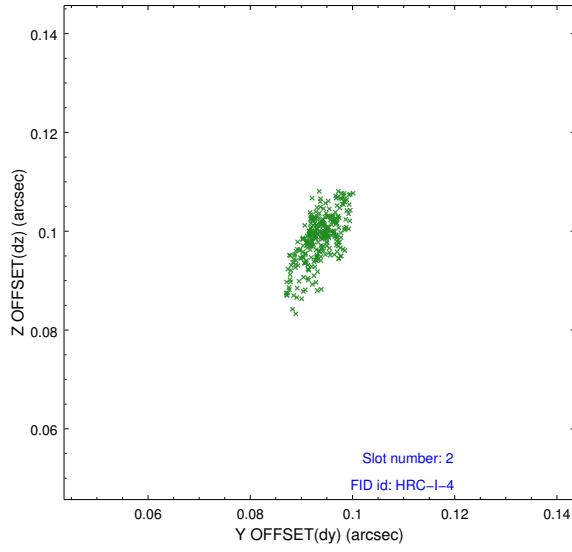
### 2.5.1 Slot 0



## 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)	2015.09.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1820813169479

### A.2 Comments