

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2646 - L2 Version 3  
Chandra X-Ray Center

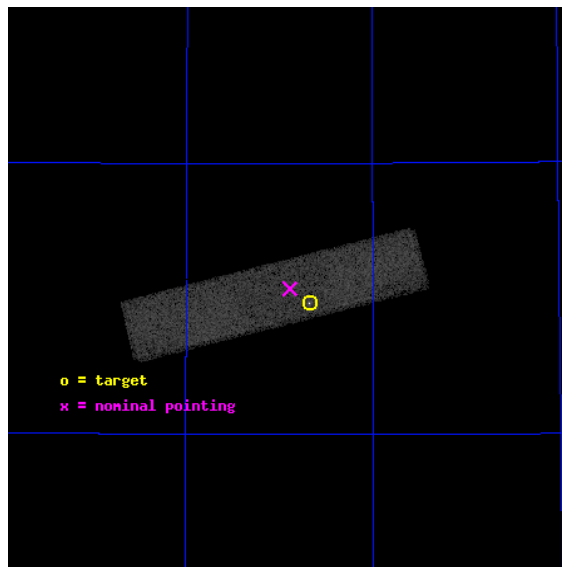
L2 Processing Date : Oct 11 2012

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# 1 Front

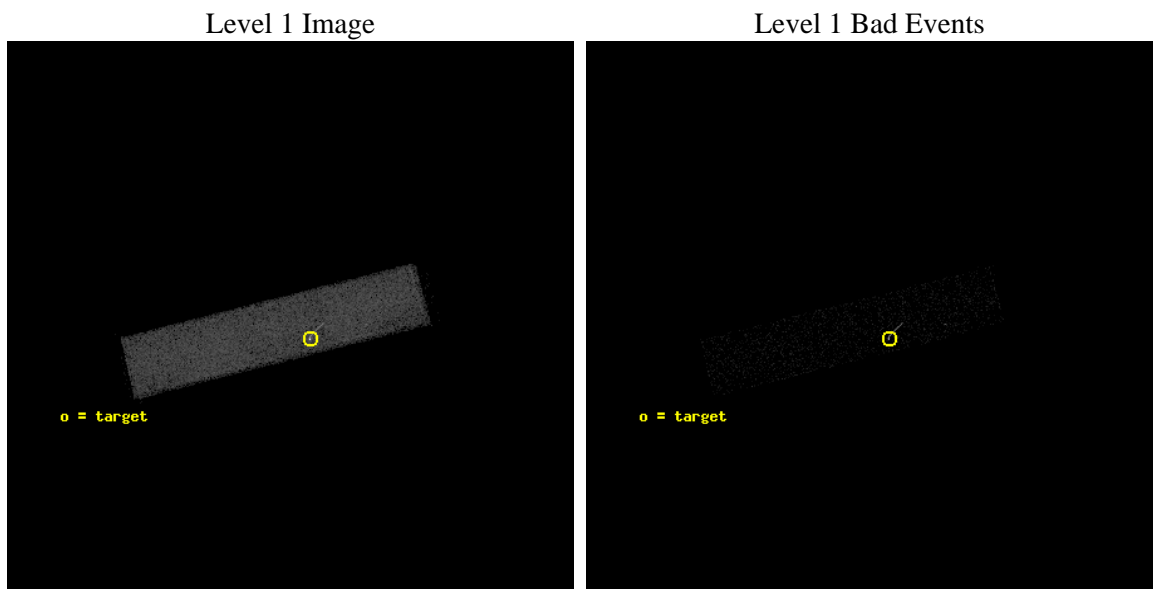
seq_num	290202	Sequence number
obs_id	2646	Observation id
title	AO3B HRC-S CALIBRATION OBSERVATION: MINI-SCAN OF ARLAC	Proposal ti
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.22227053123	Nominal RA [deg]
dec_nom	45.76865562316	Nominal Dec [deg]
roll_nom	165.81865129888	Nominal Roll [deg]
revision	3	Processing version of data
ontime	820.25628378987	[s]
livetime	814.30596757455	Ontime multiplied by DTCOR
l2events	44443	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	820.25628378987	[s]
caldsver	4.5.2	&#160	l1events	60785	Number of level 1 events
date	2012-10-11T21:37:35	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

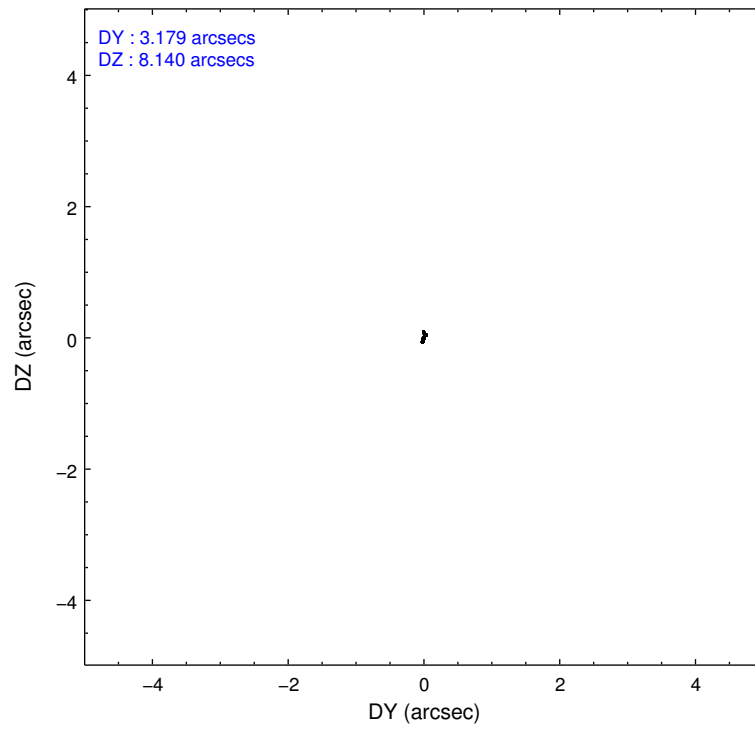
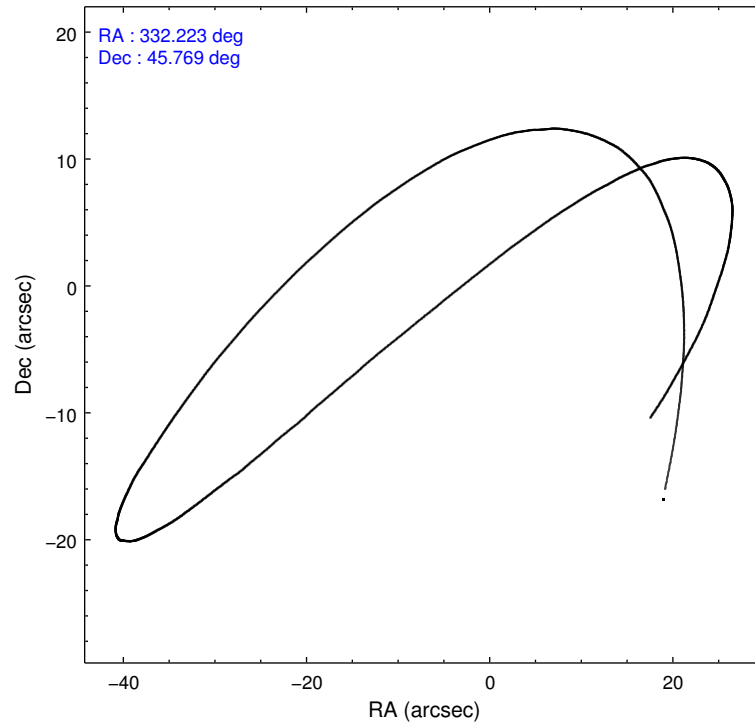
Level 1 Events

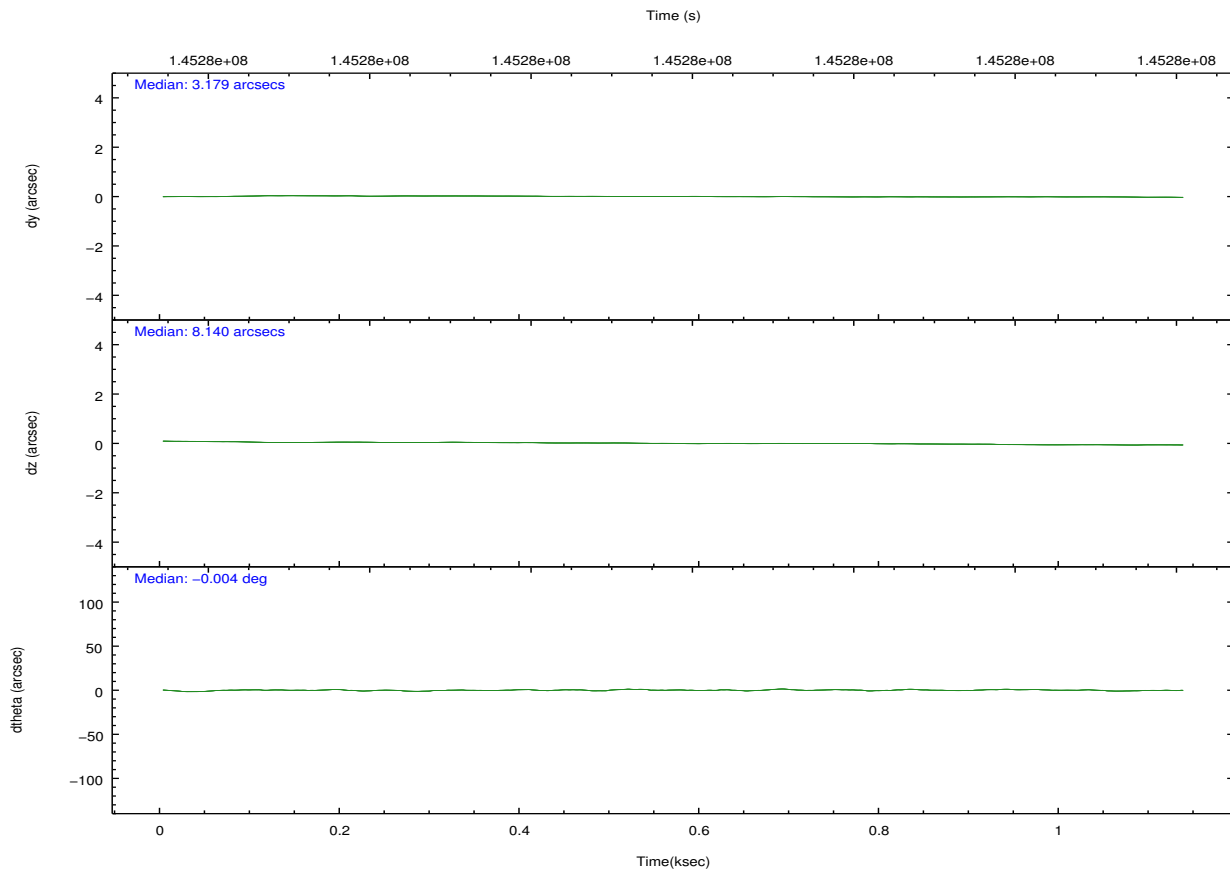
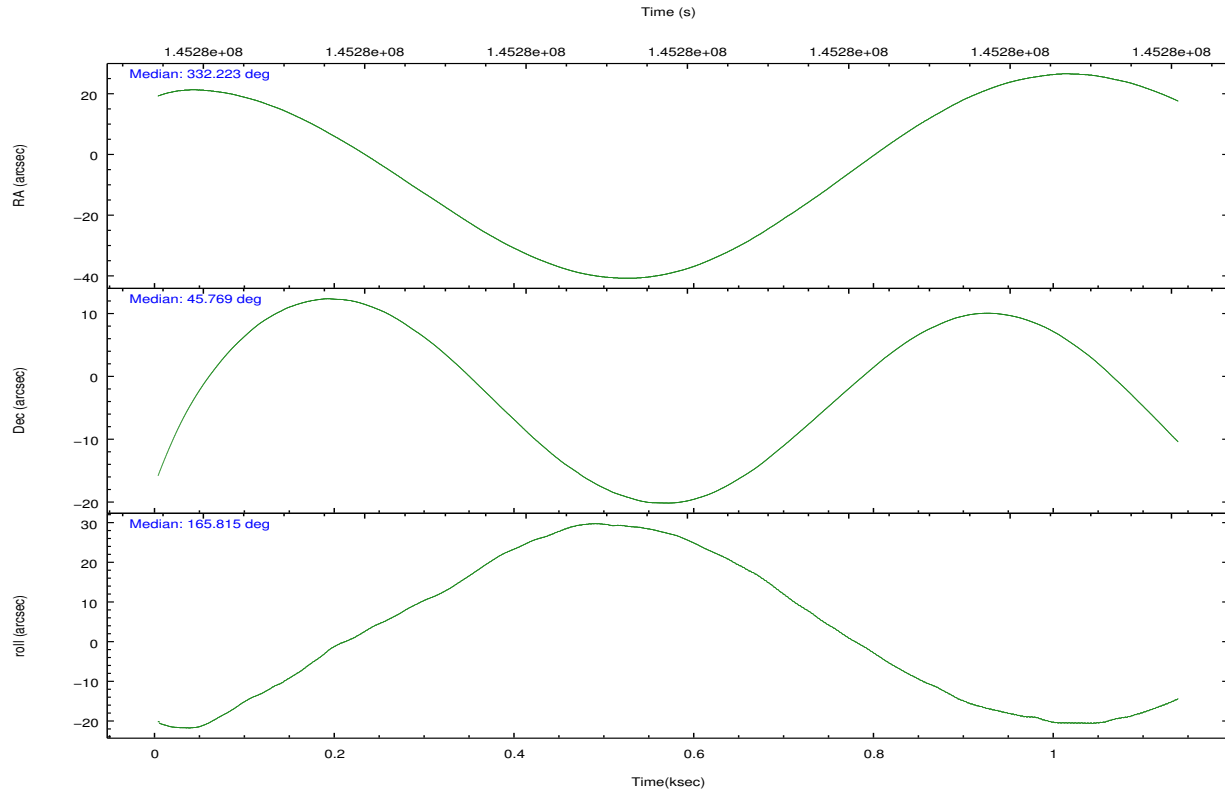
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	0	60785	0
rejected events	0	9432	0
rejected %	0%	15%	0%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.260450	332.2222705312287			
[deg] Pointing Dec	45.776847	45.76865562315989			
[deg] Pointing Roll	165.724003	165.8186512988794			
[s] Window start time (MET)	141868864.184000	141868864.184000			
[s] Window stop time (MET)	147139264.184000	147139264.184000			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	145280748.184000	145279811.18663			
Observation start date	2002-08-09T11:44:44	2002-08-09T11:30:11			
[s] Observation end time (MET)	145281748.184000	145281881.68672			
Observation end date	2002-08-09T12:01:24	2002-08-09T12:04:41			

## 2.3 Aspect





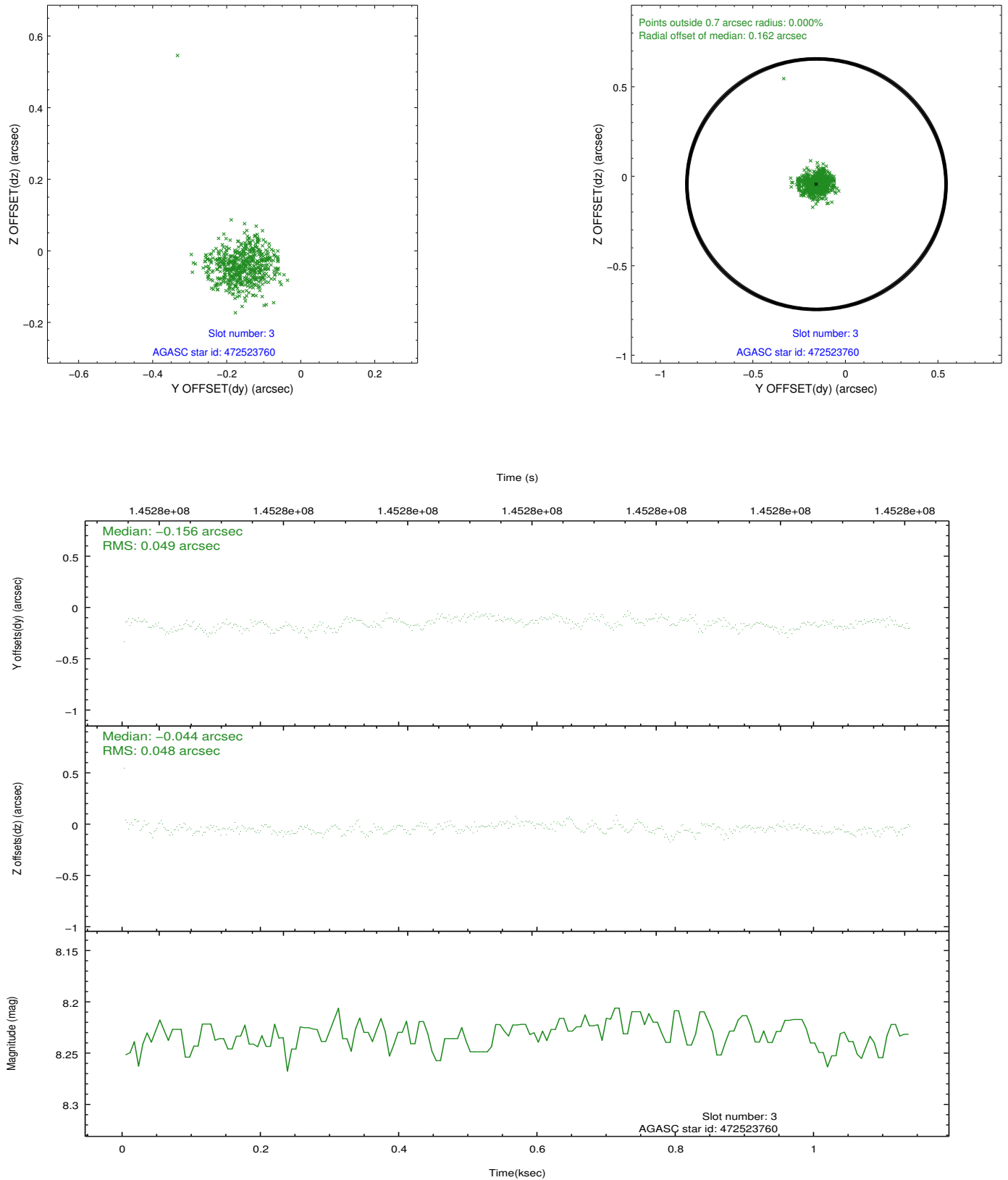
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.01	277	0.153	-0.094	0.007	0.012	0.000000	0.000000	-1157.19	-456.72
1	FID	HRC-S-2	7.03	277	0.085	-0.091	0.005	0.010	0.000000	0.000000	1238.24	-450.96
2	FID	HRC-S-3	7.04	277	0.153	-0.117	0.007	0.013	0.000000	0.000000	-1155.46	571.16
3	GUIDE	472523760	8.23	555	-0.156	-0.044	0.068	0.103	331.645363	45.403260	1176.33	1685.08
4	GUIDE	472665256	9.01	554	0.023	0.156	0.091	0.135	332.808125	46.195041	-947.91	-1792.91
5	GUIDE	472659832	9.45	555	0.010	0.090	0.105	0.175	332.780399	46.098139	-973.19	-1444.29
6	GUIDE	472523568	9.34	555	-0.023	-0.128	0.086	0.144	331.465966	45.371411	1587.93	1901.75
7	GUIDE	472646552	9.62	554	0.149	-0.066	0.098	0.167	333.120915	45.571877	-2277.49	176.36

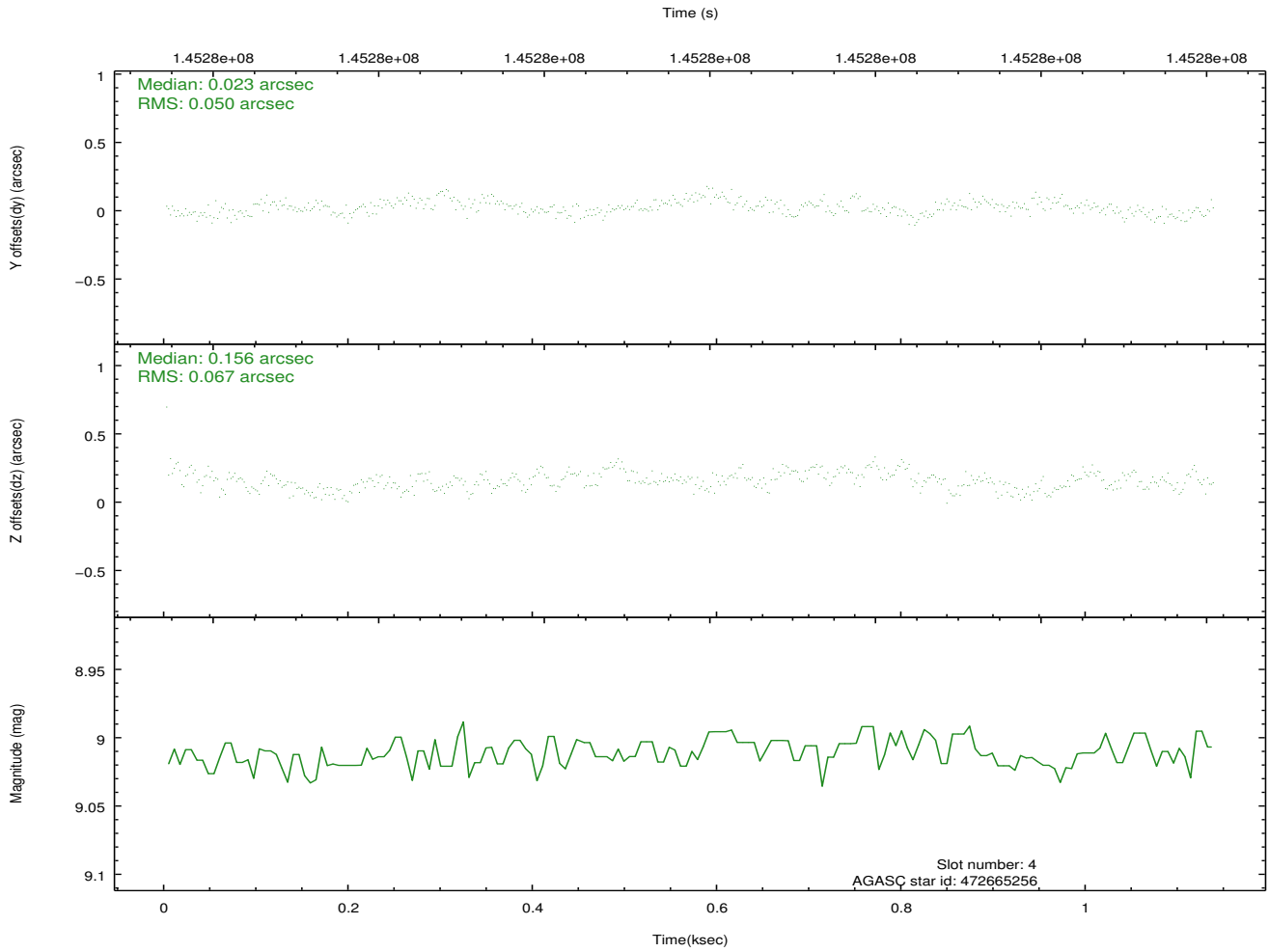
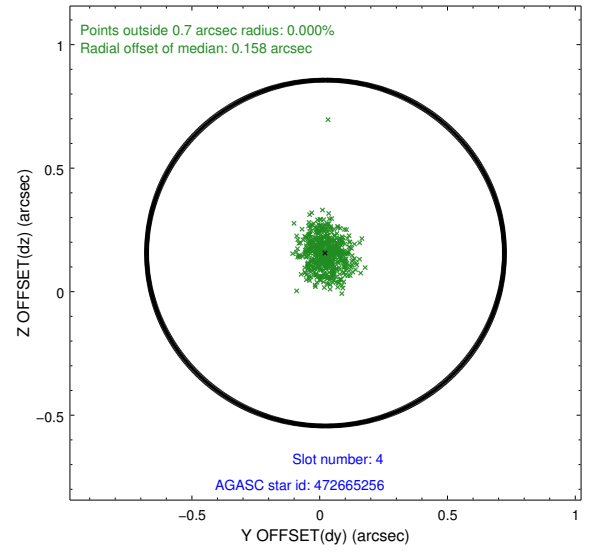
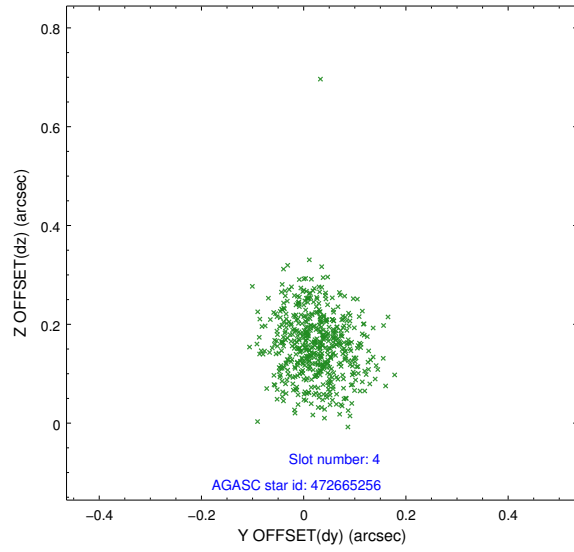


## 2.4 Star Slots

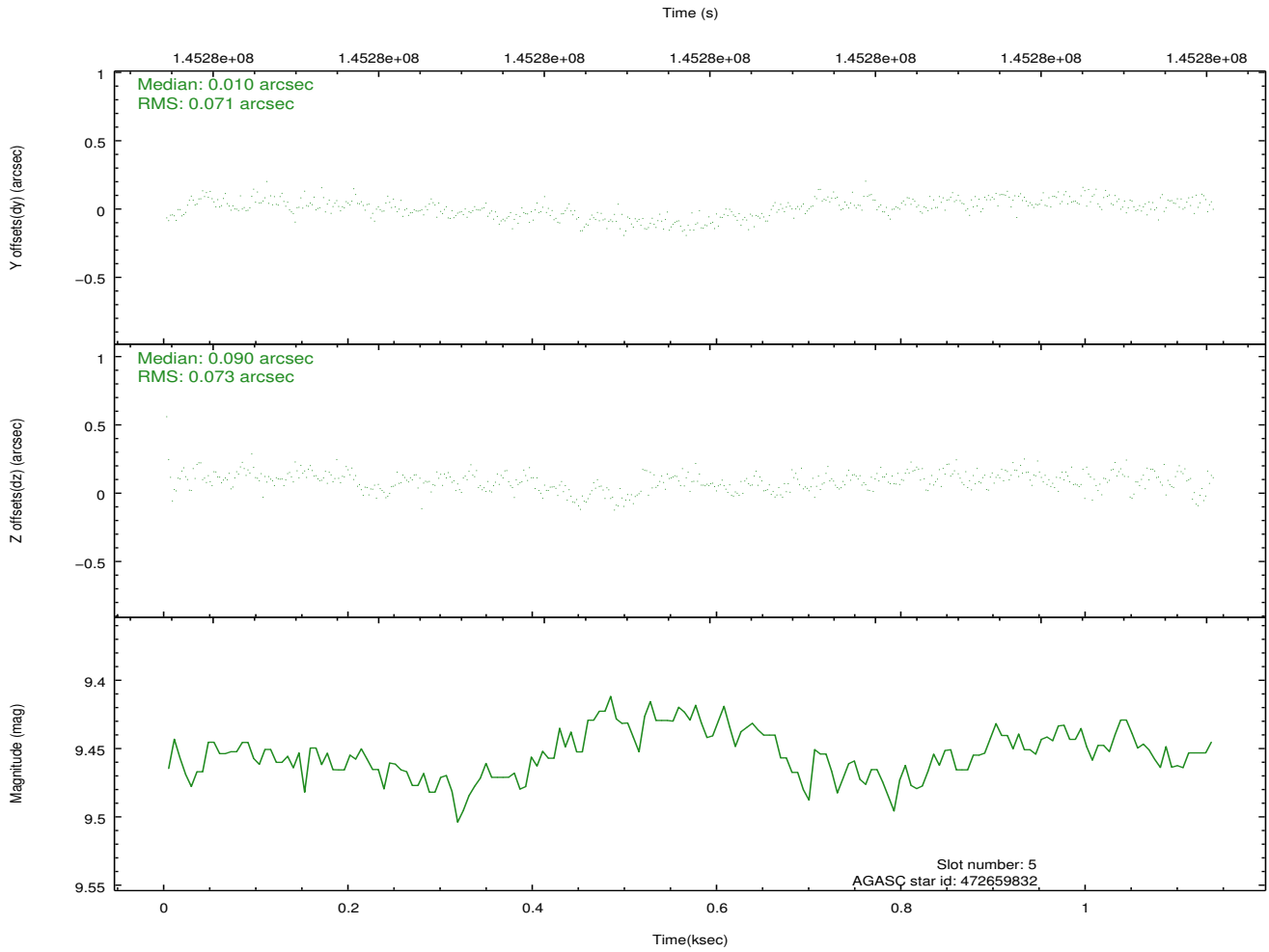
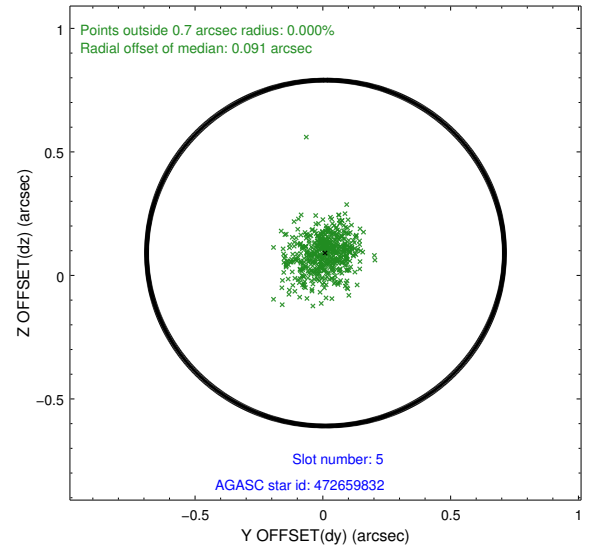
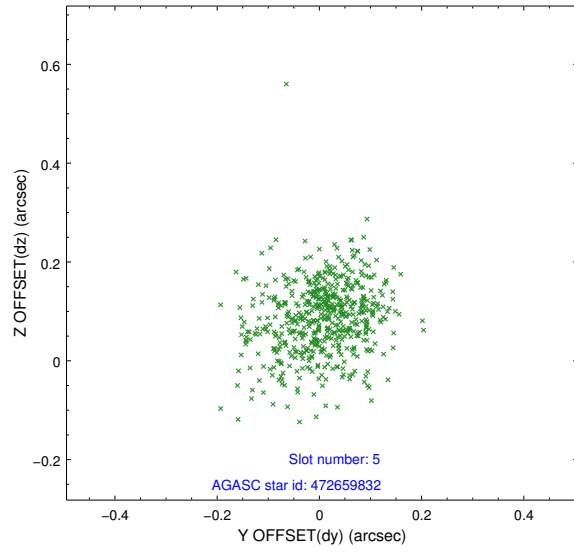
### 2.4.1 Slot 3



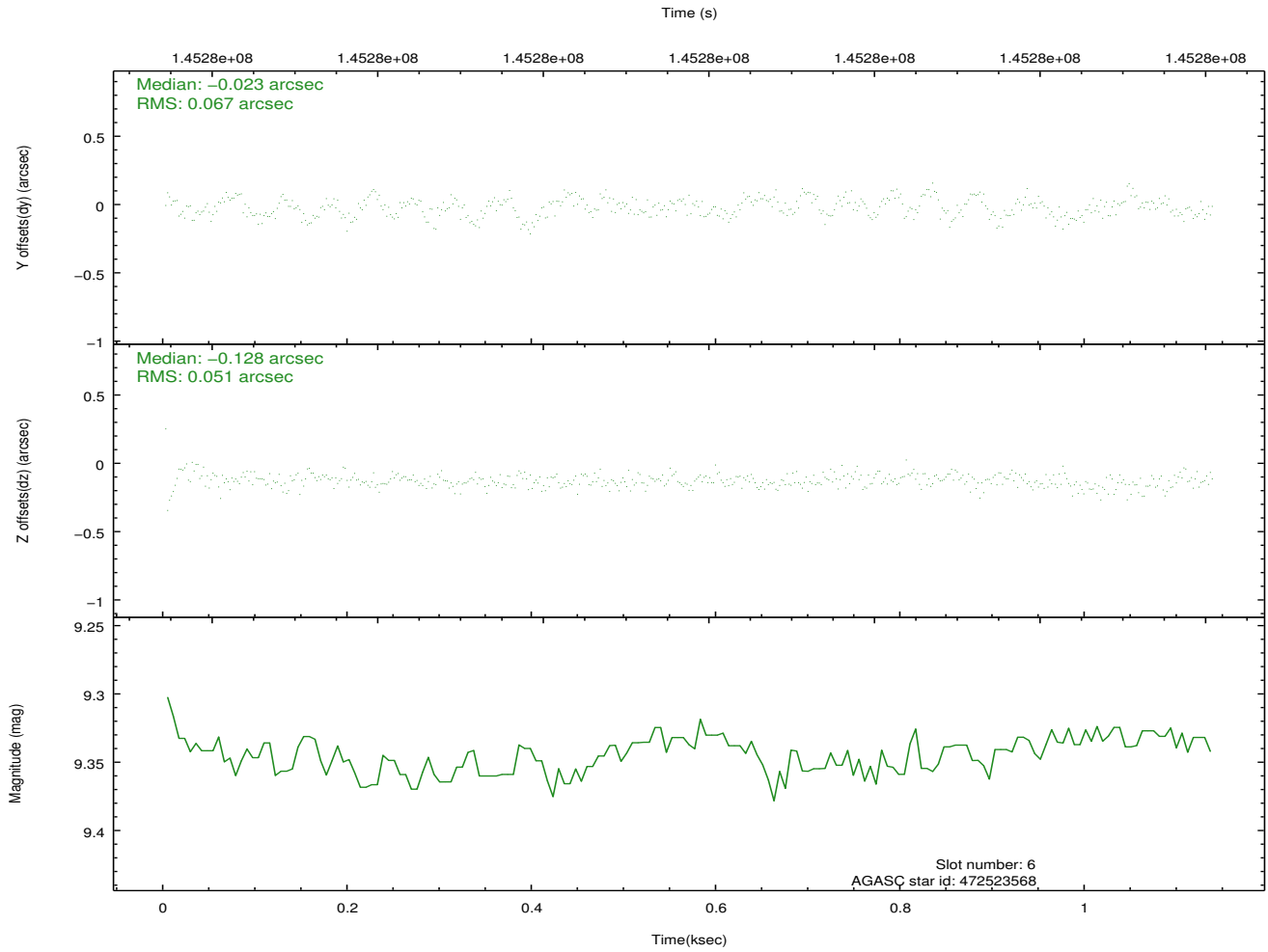
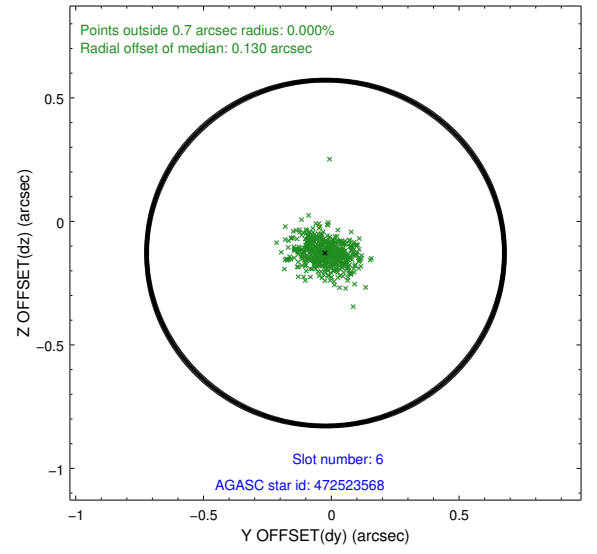
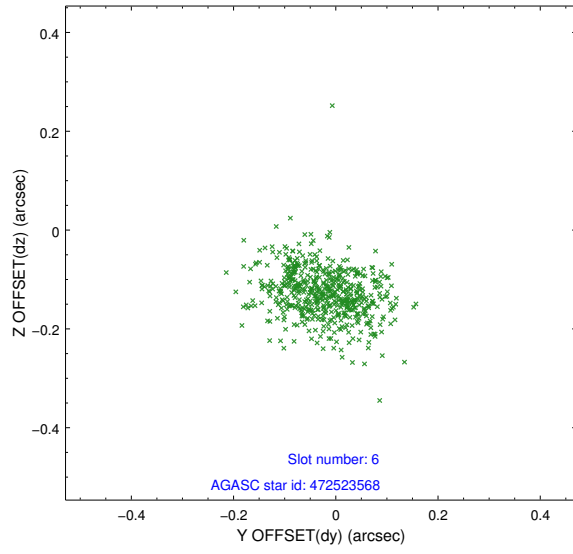
## 2.4.2 Slot 4



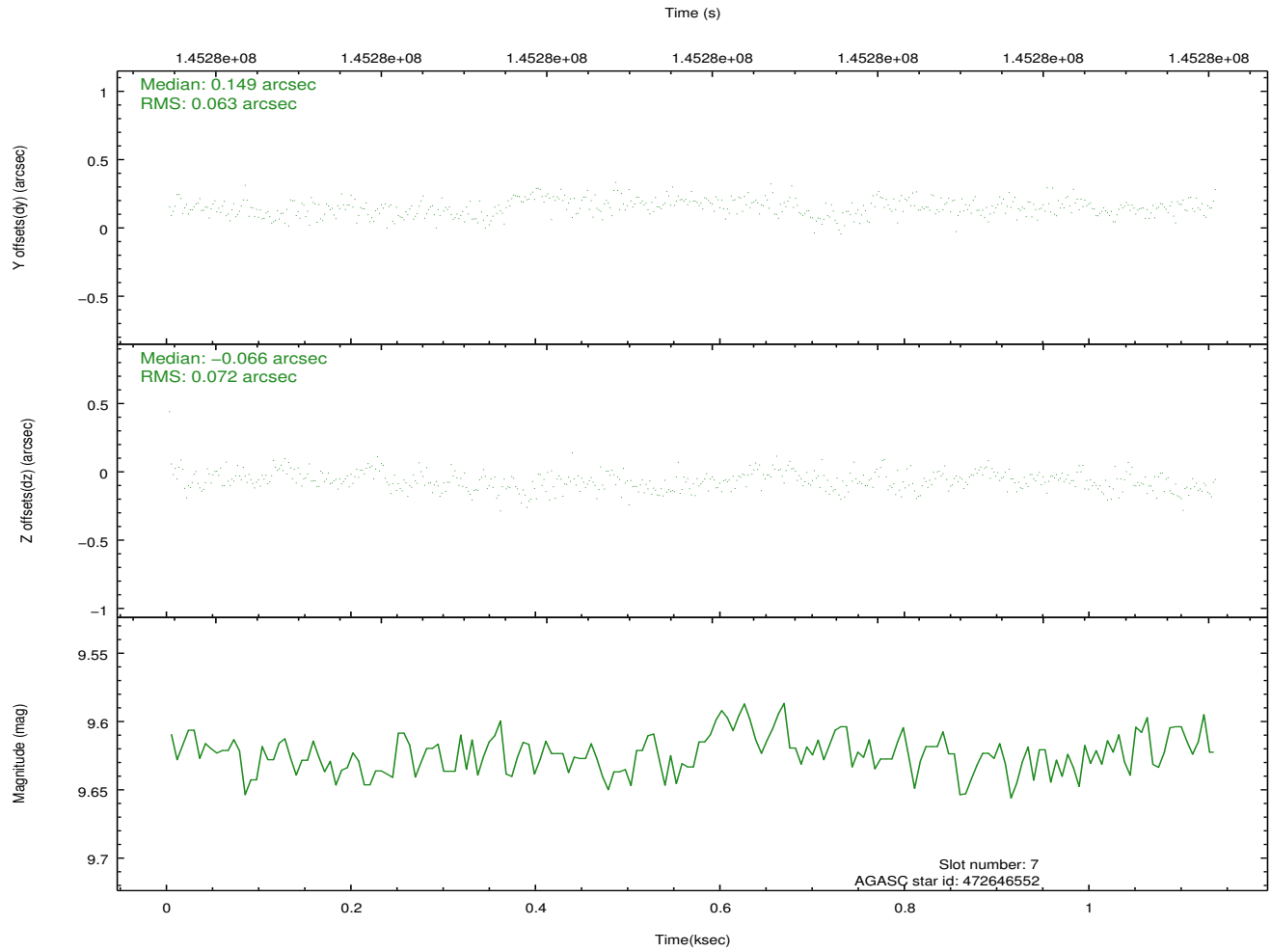
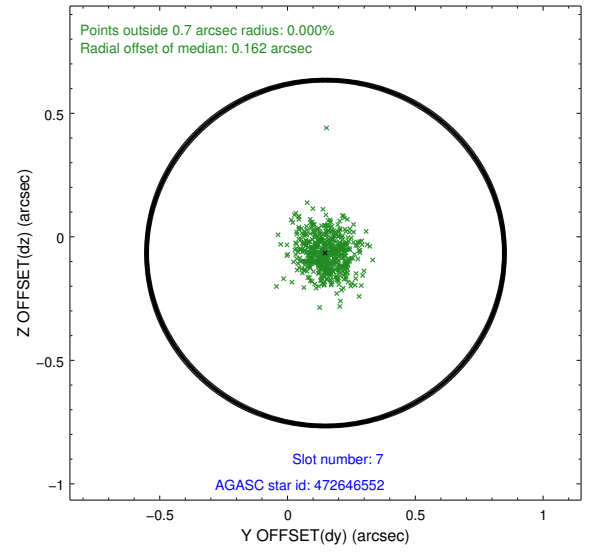
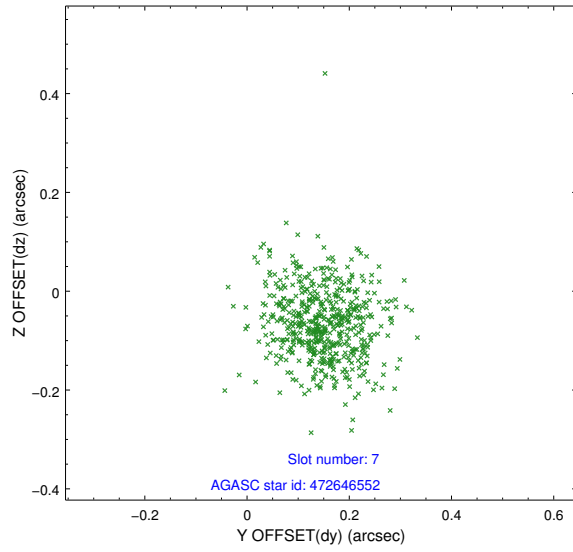
### 2.4.3 Slot 5



## 2.4.4 Slot 6

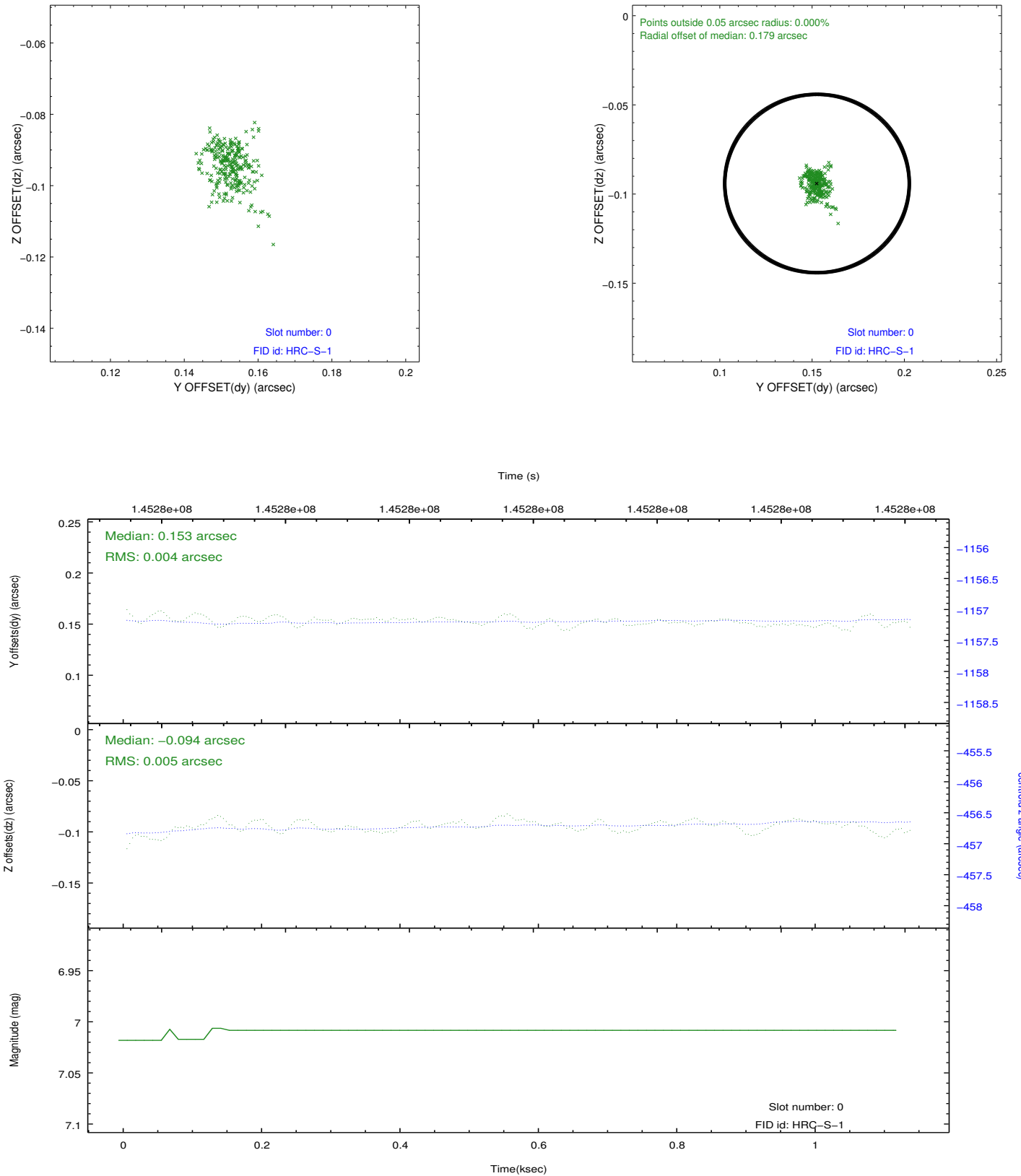


## 2.4.5 Slot 7

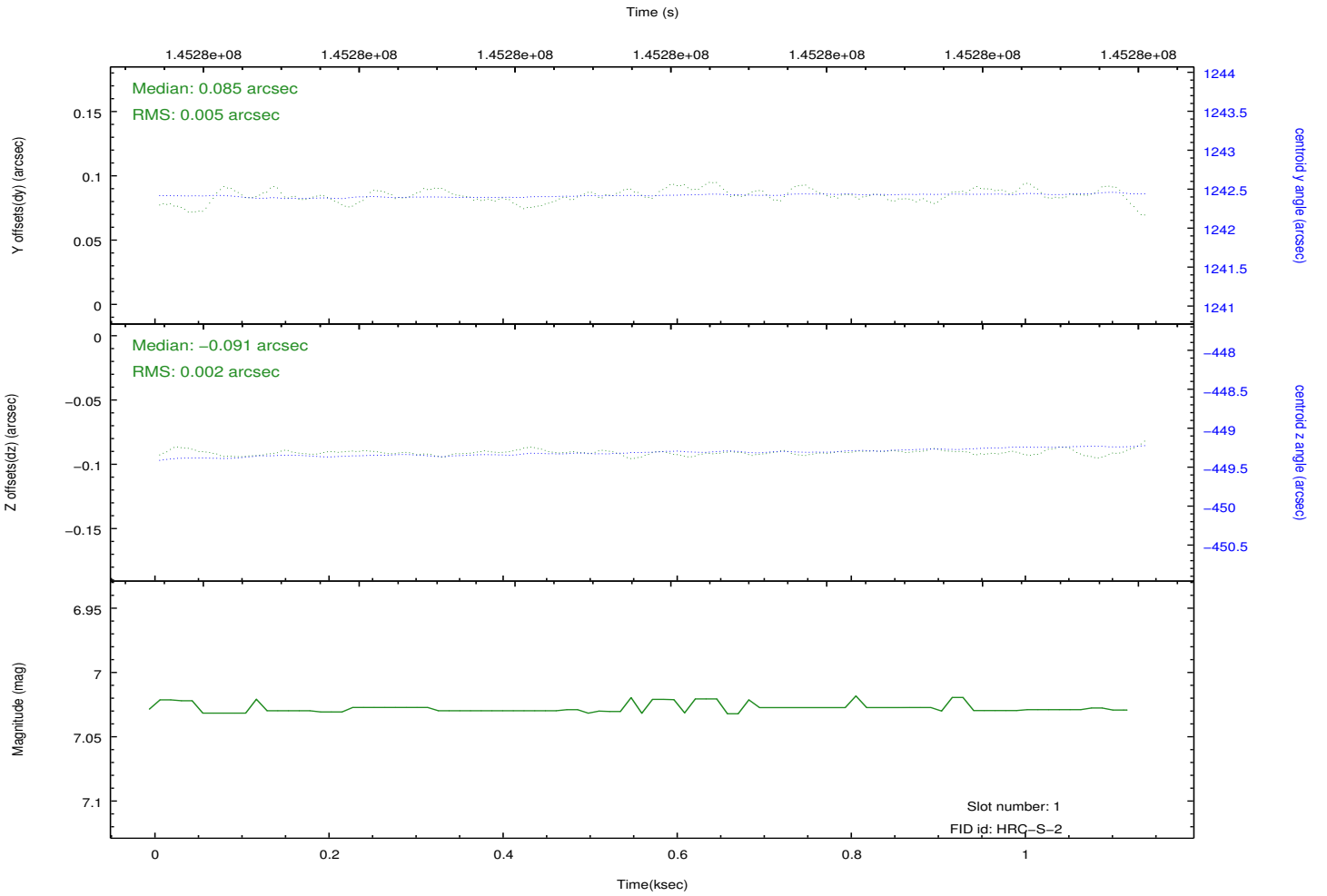
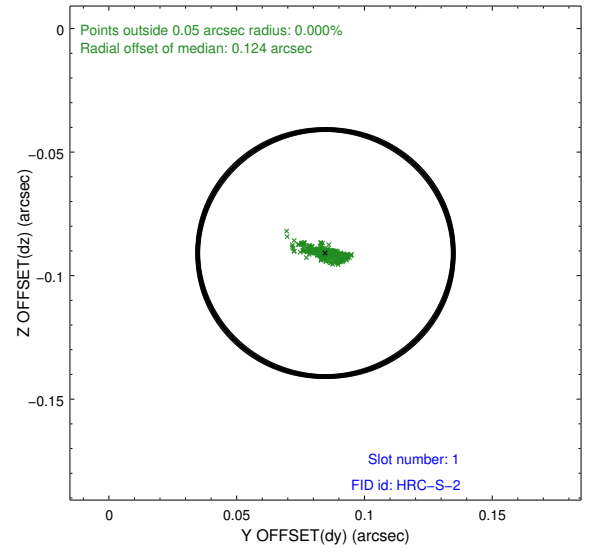
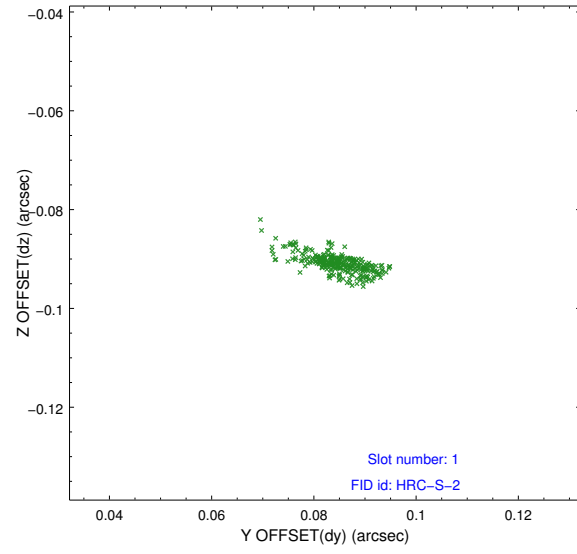


## 2.5 FID Slots

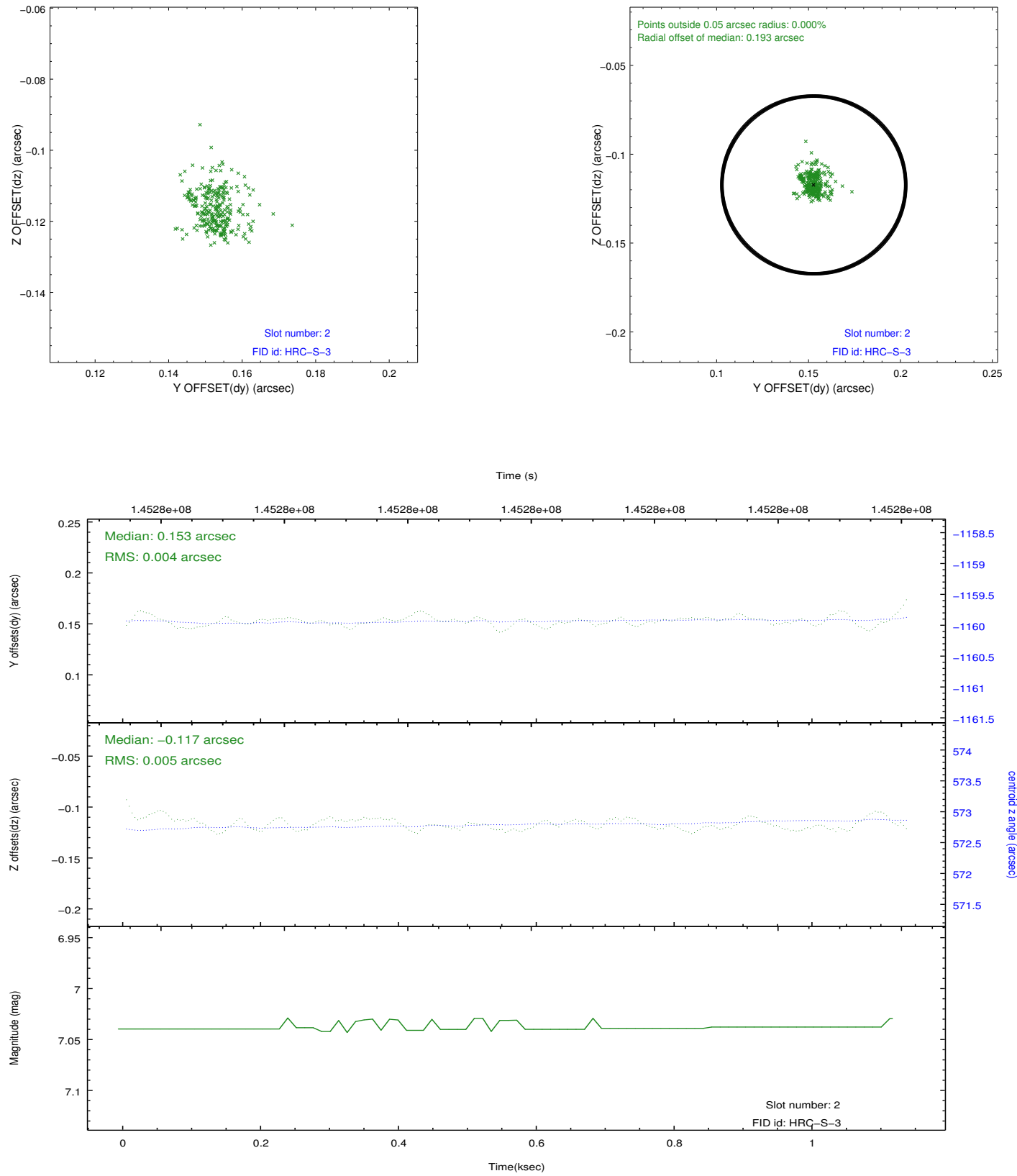
### 2.5.1 Slot 0



## 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)	2012.10.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.82

### A.2 Comments

Window constraint met.