

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 5100 - L2 Version 3  
Chandra X-Ray Center

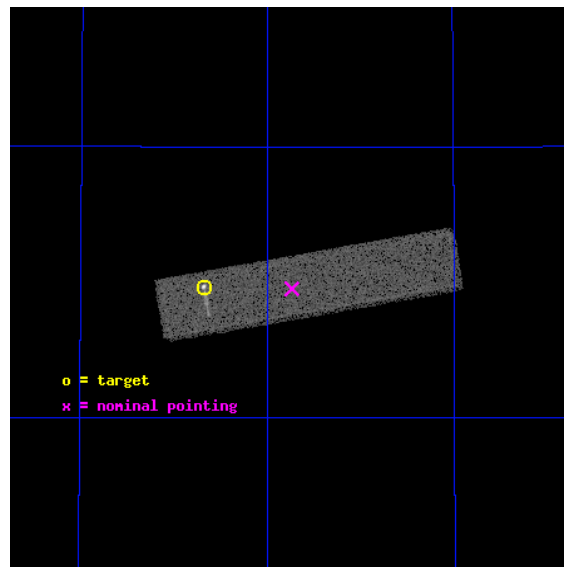
L2 Processing Date : Nov 11 2012

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# 1 Front

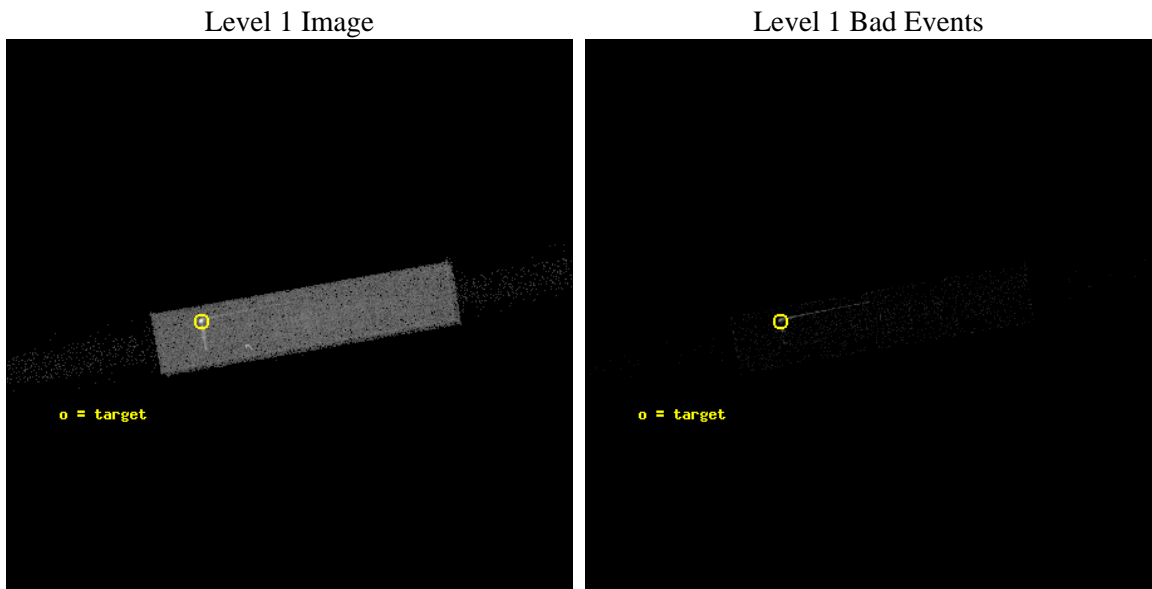
seq_num	290373	Sequence number
obs_id	5100	Observation id
title	AO5A Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	331.93370975325	Nominal RA [deg]
dec_nom	45.739064482843	Nominal Dec [deg]
roll_nom	350.00541174087	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1088.8062976301	[s]
livetime	1083.1980293261	Ontime multiplied by DTCOR
l2events	38668	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	946.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1088.8062976301	[s]
caldsver	4.5.2	&#160	l1events	65645	Number of level 1 events
date	2012-11-11T14:56:42	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

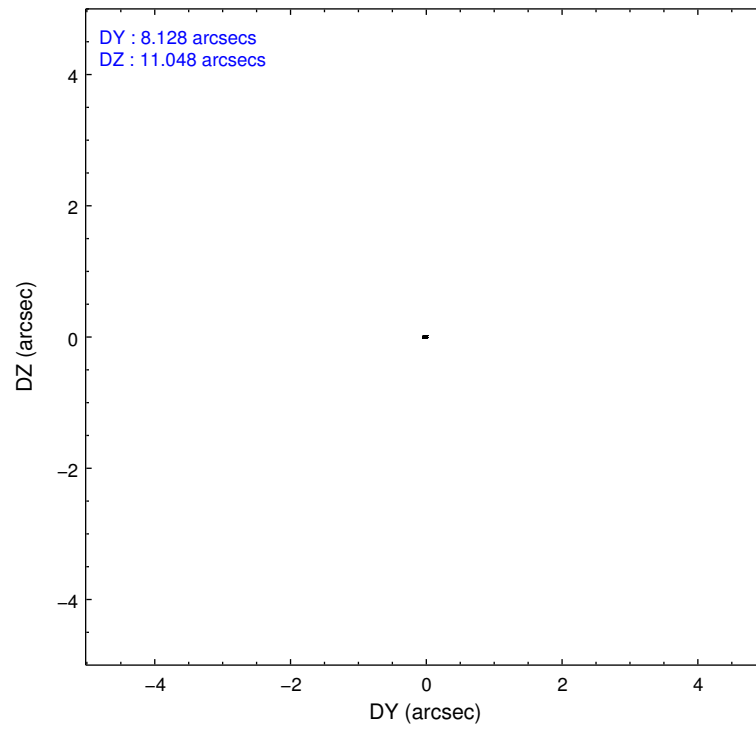
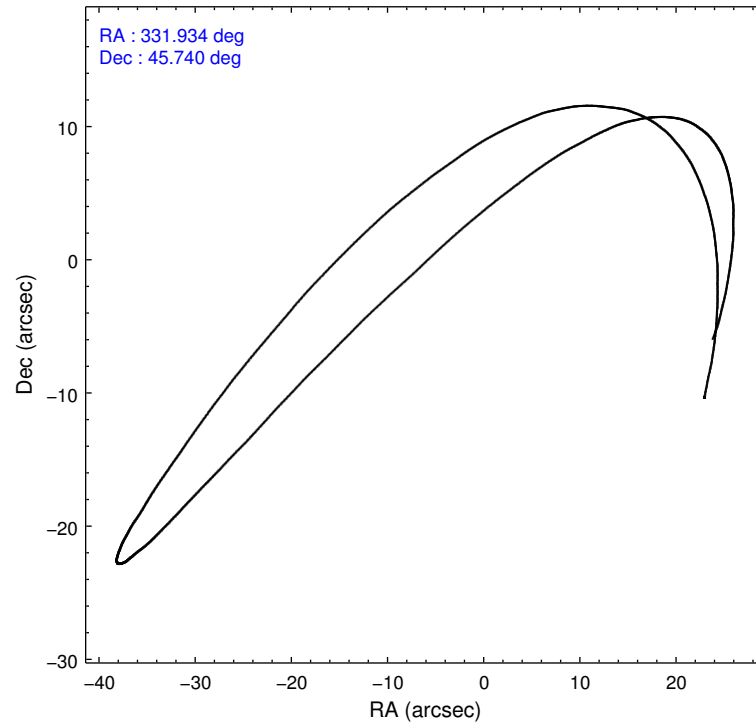
Level 1 Events

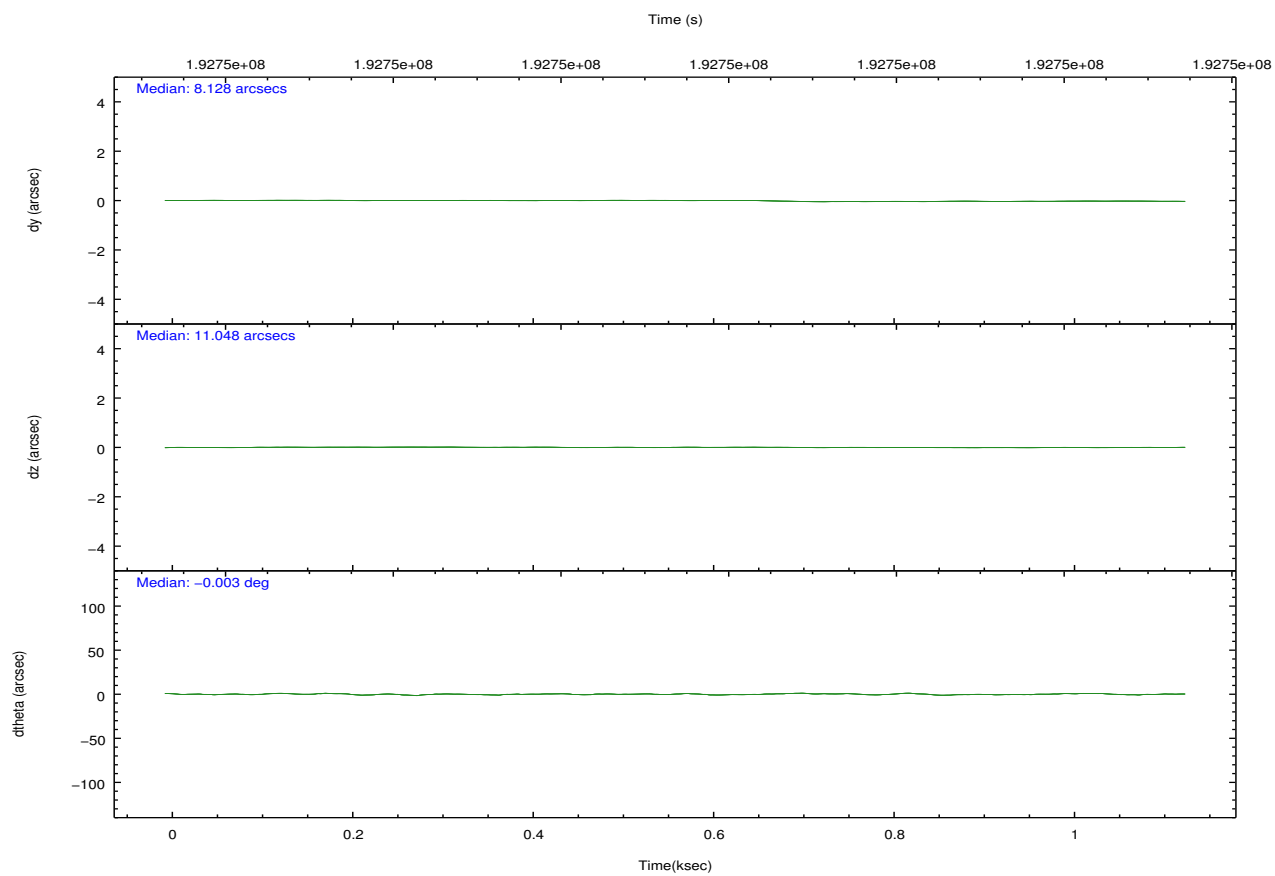
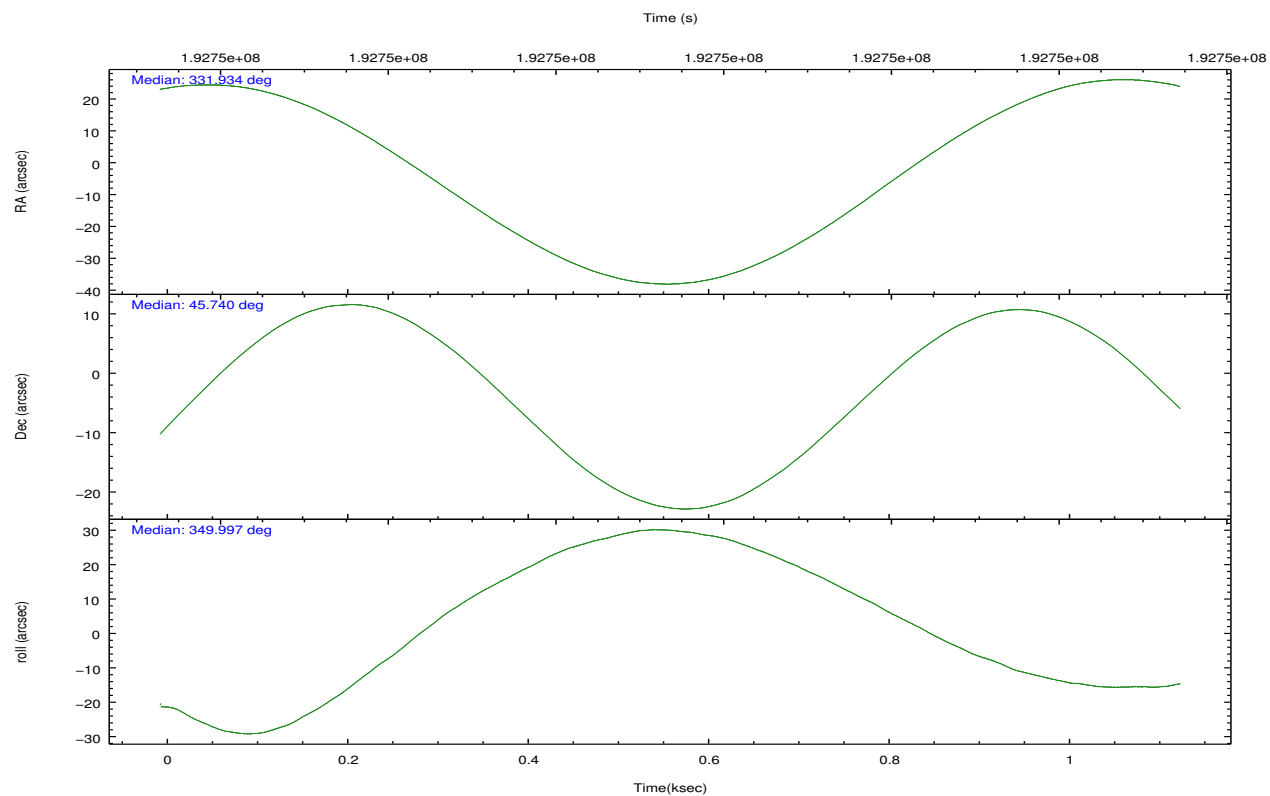
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1064	63499	1082
rejected events	1064	15199	1082
rejected %	100%	23%	100%

## 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	331.895316	331.9337097532534			
[deg] Pointing Dec	45.726791	45.73906448284269			
[deg] Pointing Roll	349.965624	350.0054117408726			
[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)	192747553.184000	192747176.77321			
Observation start date	2004-02-09T20:58:09	2004-02-09T20:52:56			
[s] Observation end time (MET)	192748499.184000	192748633.29827			
Observation end date	2004-02-09T21:13:55	2004-02-09T21:17:13			

## 2.3 Aspect





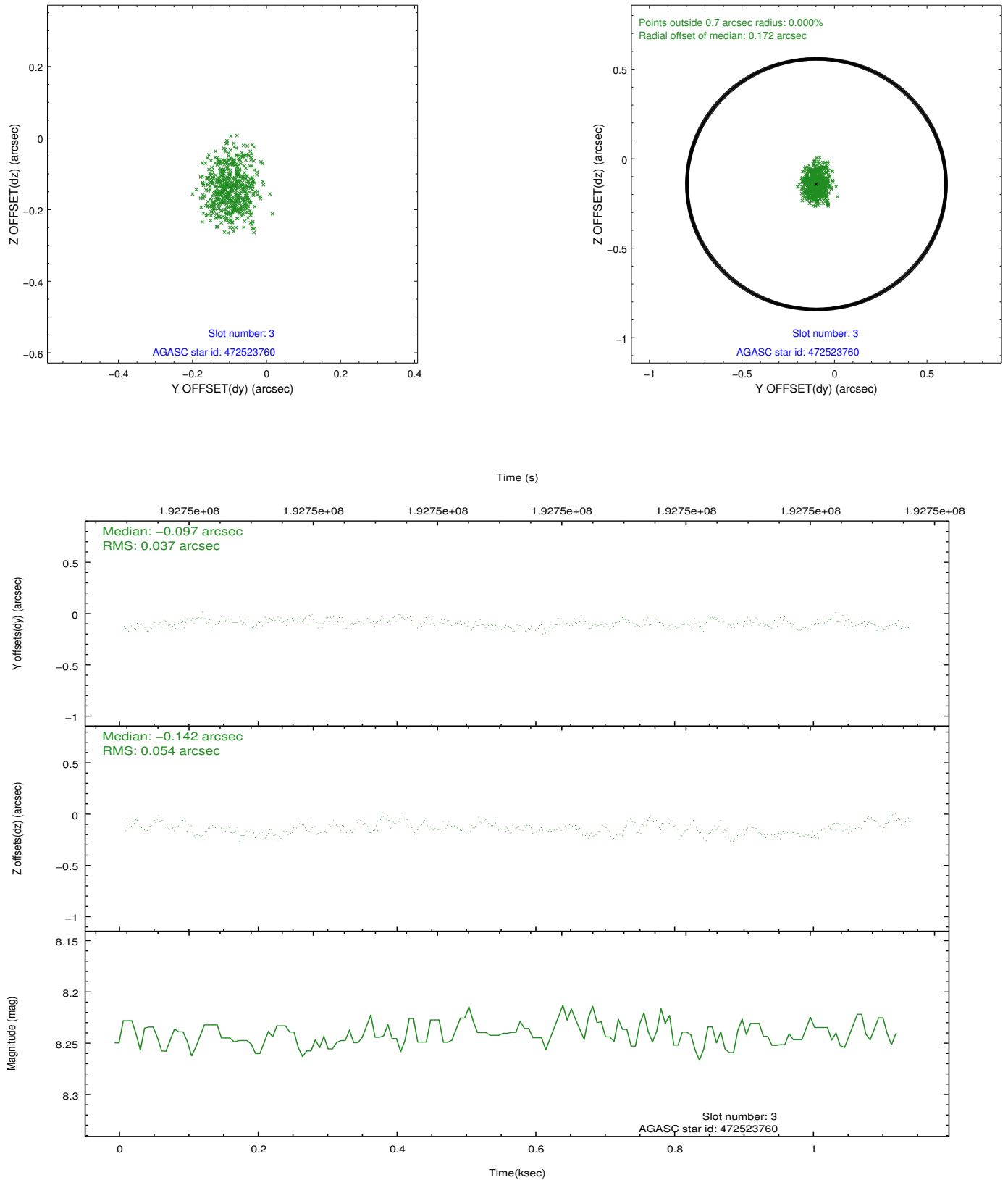
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.02	276	0.151	-0.166	0.006	0.011	0.000000	0.000000	-1162.28	-459.75
1	FID	HRC-S-2	7.01	276	0.130	-0.110	0.004	0.011	0.000000	0.000000	1233.17	-454.04
2	FID	HRC-S-3	7.03	276	0.109	-0.027	0.007	0.013	0.000000	0.000000	-1160.56	568.27
3	GUIDE	472523760	8.24	553	-0.097	-0.142	0.071	0.112	331.645363	45.403260	-419.91	-1260.51
4	GUIDE	472527720	6.99	553	-0.067	-0.062	0.065	0.102	331.460205	45.112509	-704.87	-2373.98
5	GUIDE	472533912	9.17	553	0.001	-0.000	0.103	0.164	331.791136	46.368695	-659.71	2221.94
6	GUIDE	472655152	9.43	553	0.115	0.065	0.097	0.162	332.504239	45.862991	1415.01	754.51
7	GUIDE	472659832	9.47	552	0.054	0.132	0.104	0.166	332.780399	46.098139	1942.43	1710.98

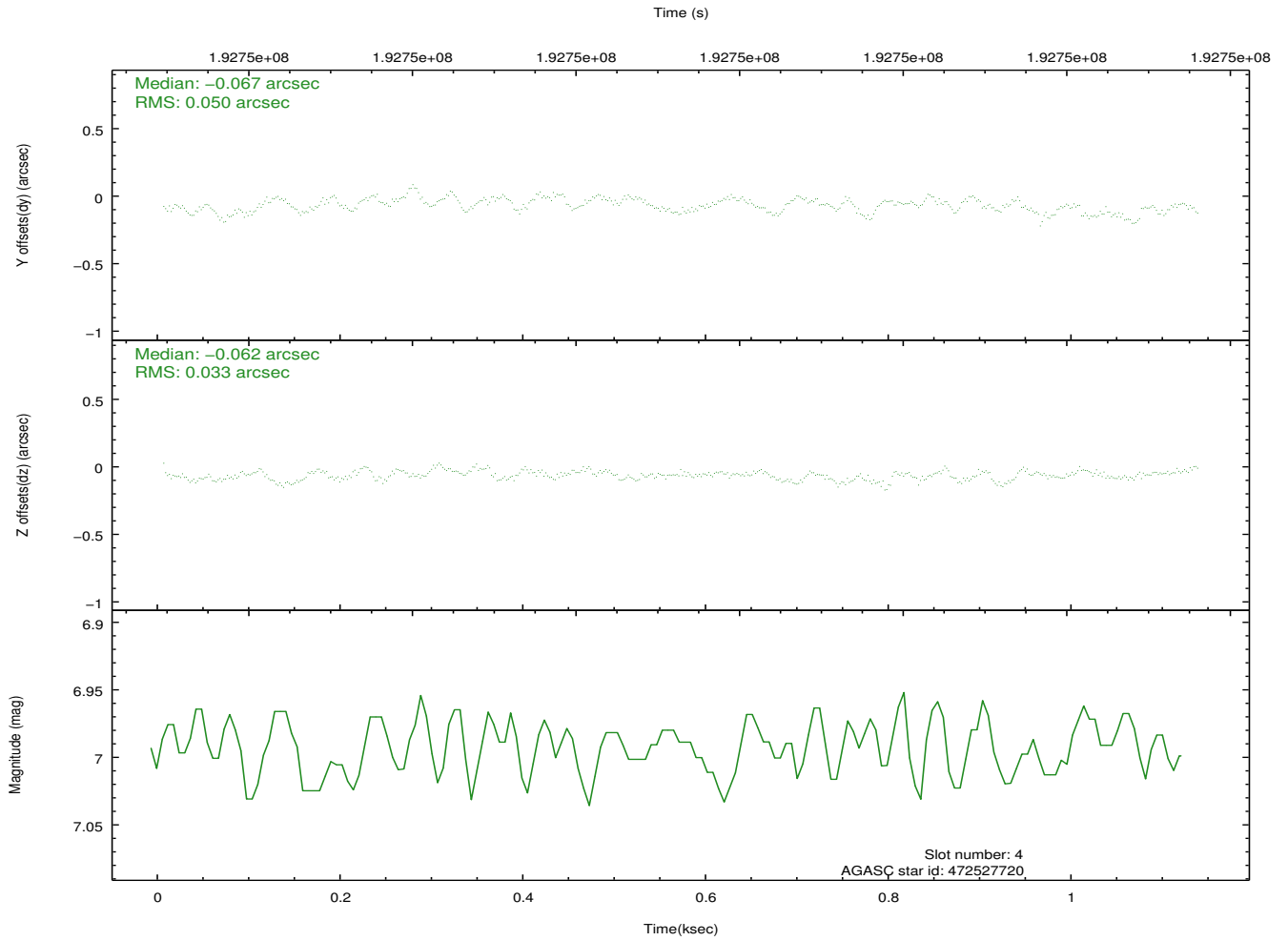
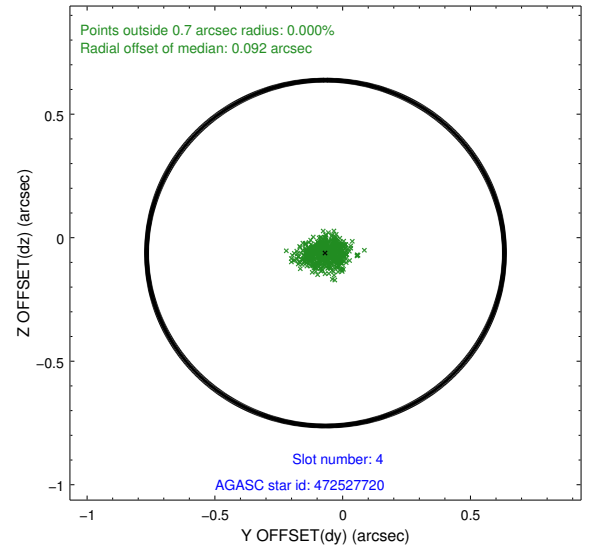
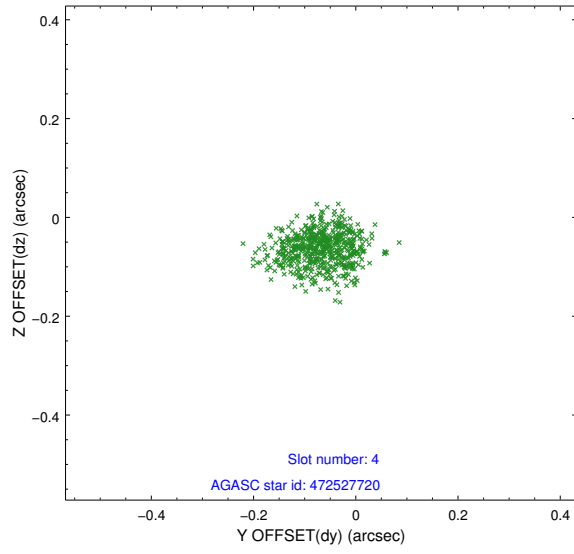


## 2.4 Star Slots

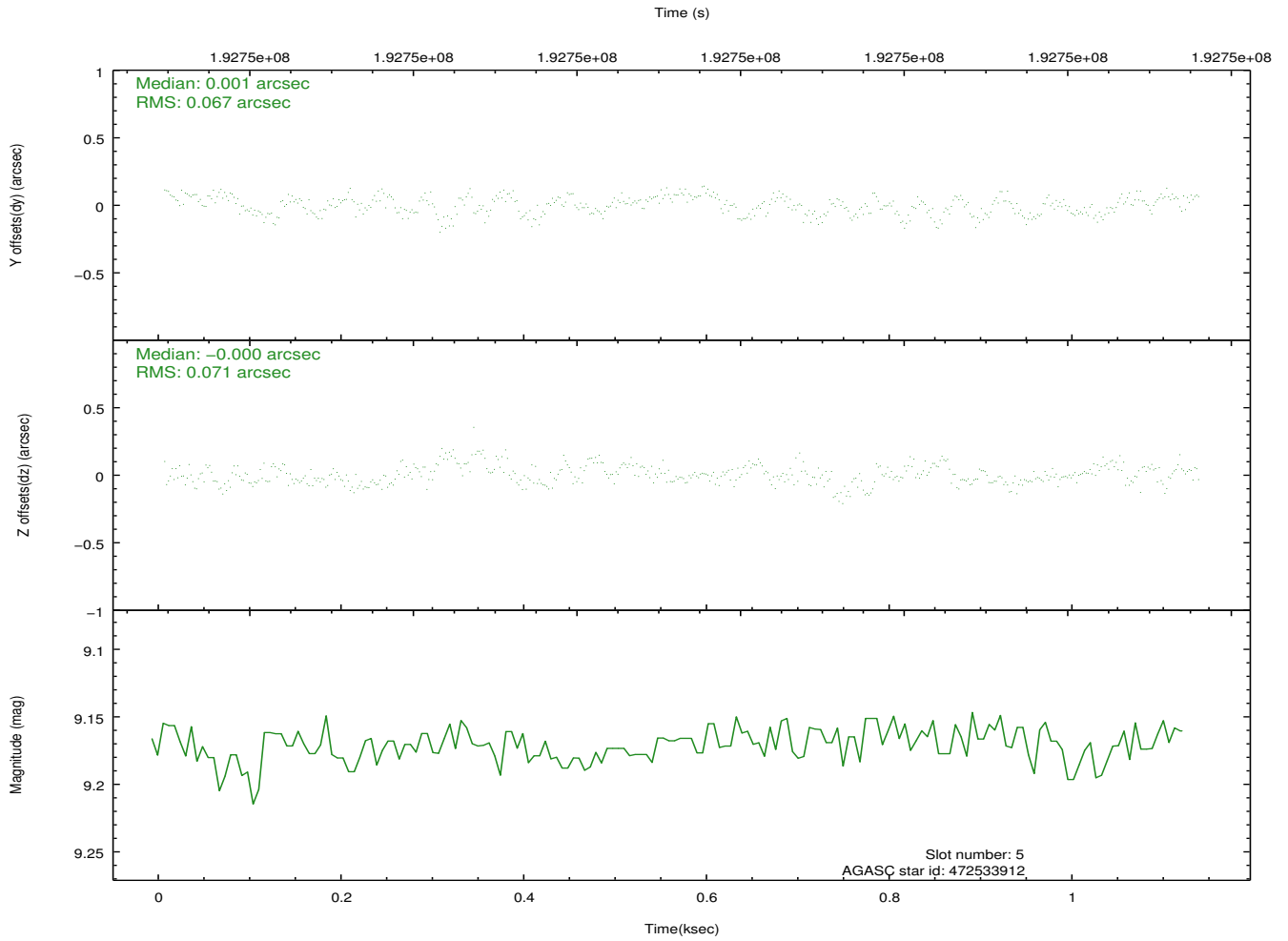
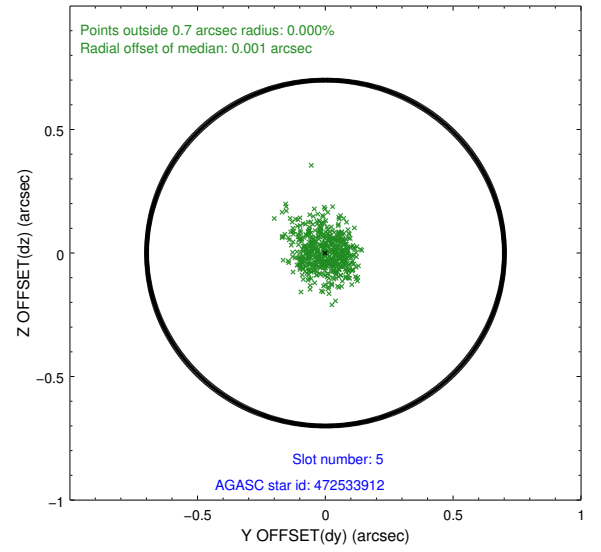
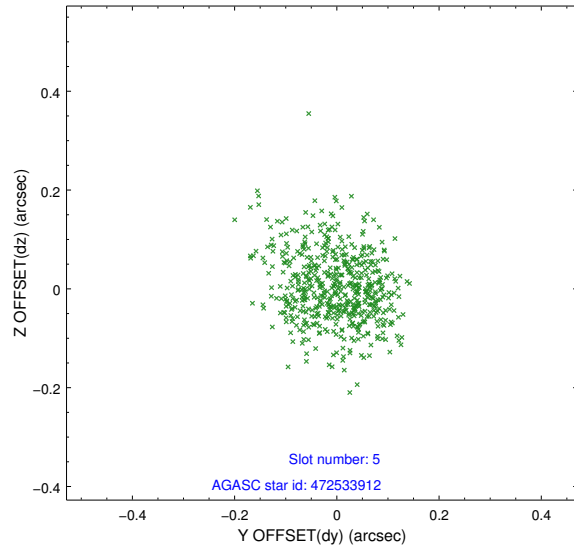
### 2.4.1 Slot 3



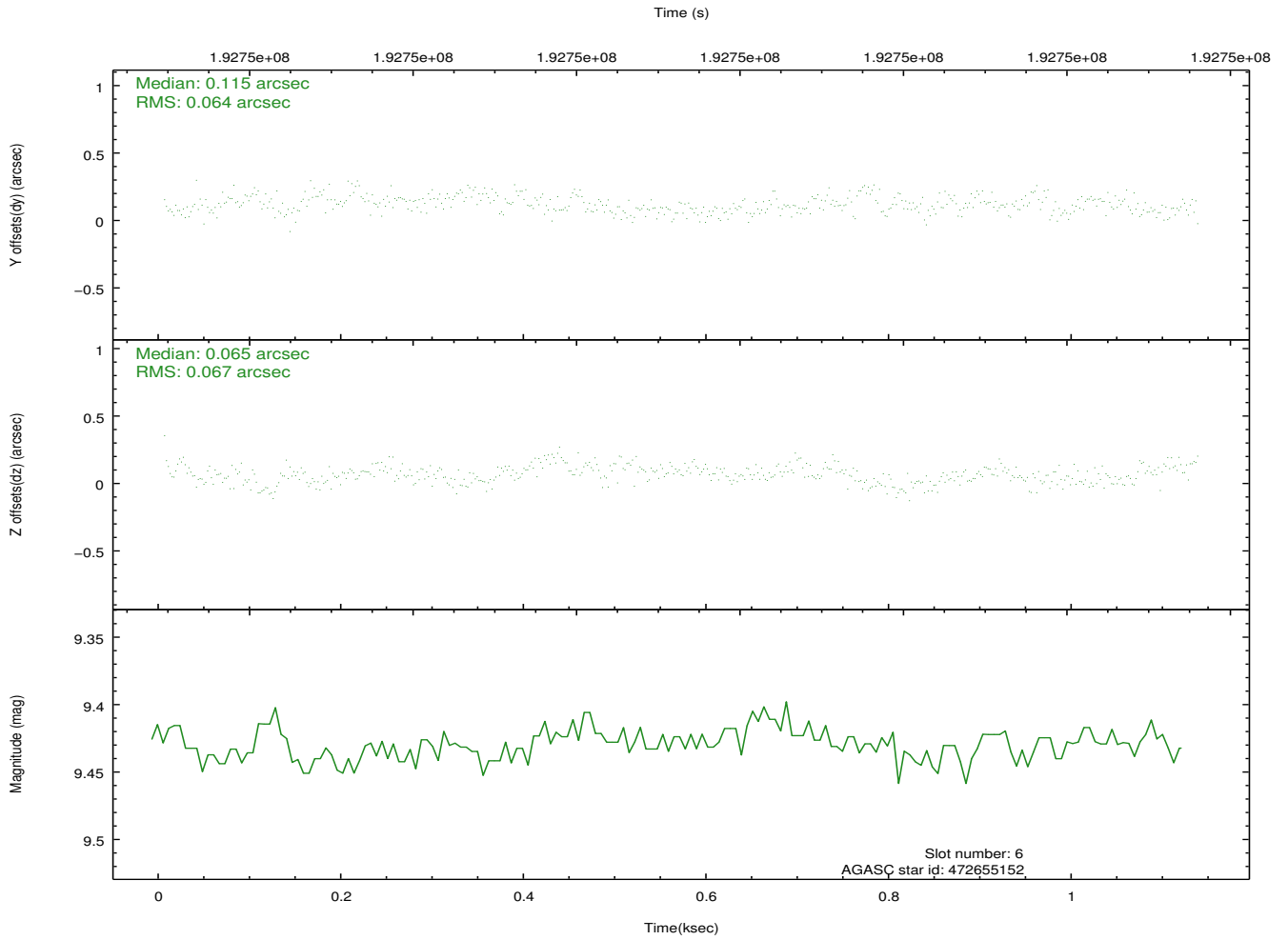
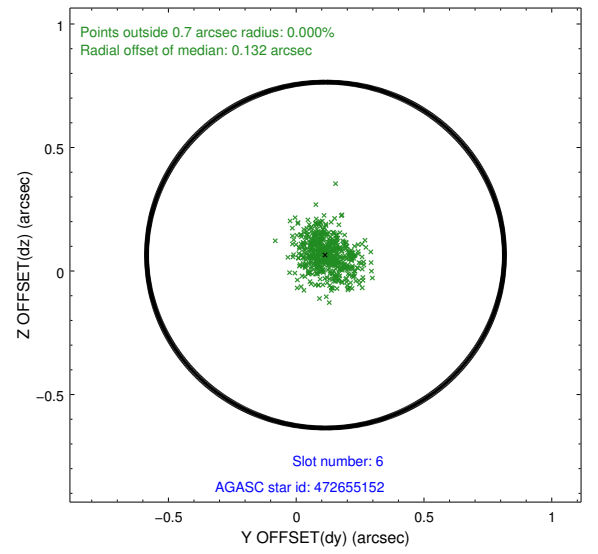
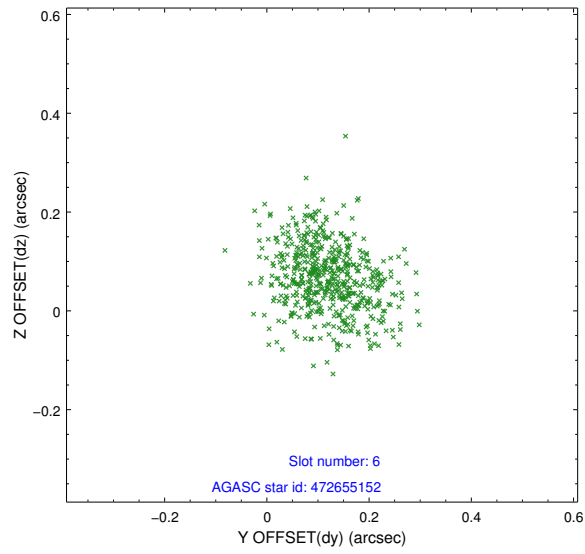
## 2.4.2 Slot 4



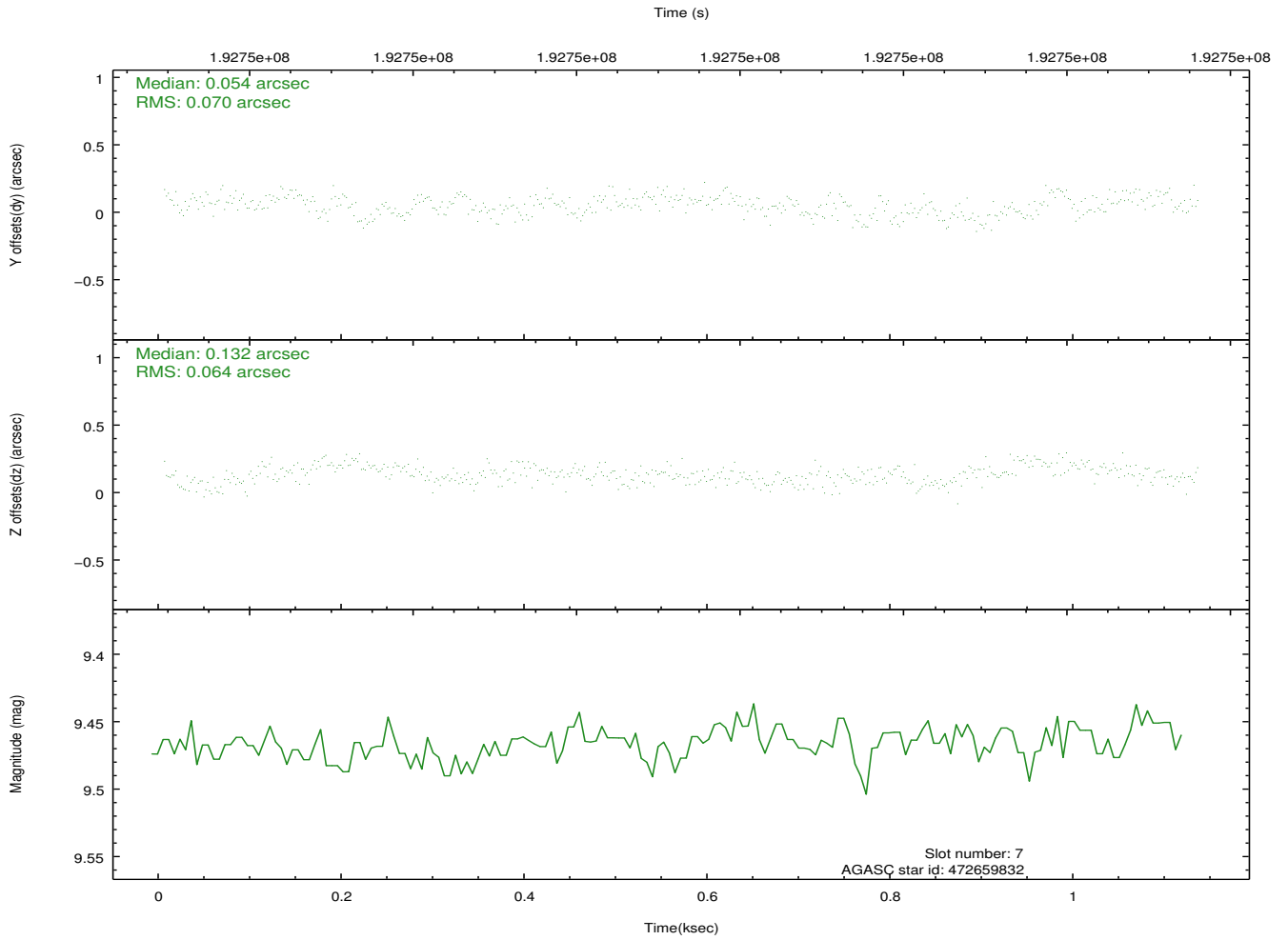
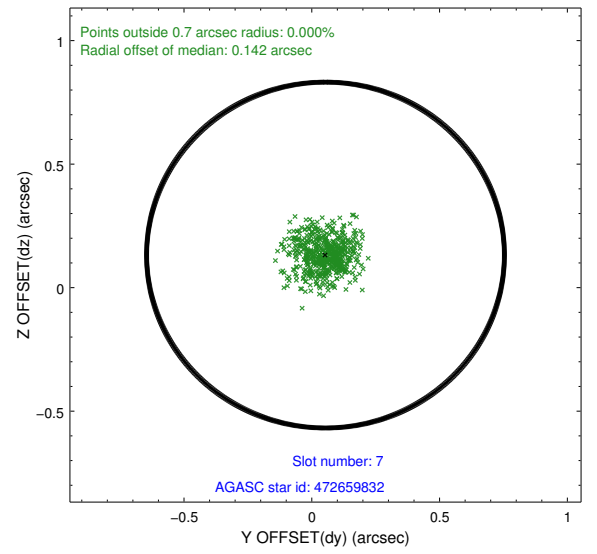
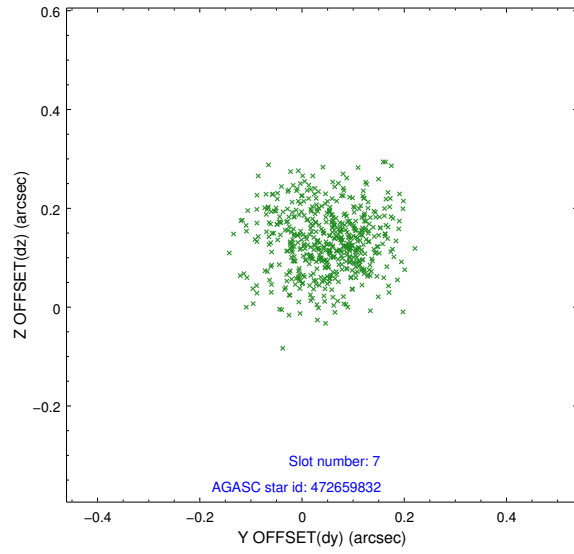
### 2.4.3 Slot 5



## 2.4.4 Slot 6

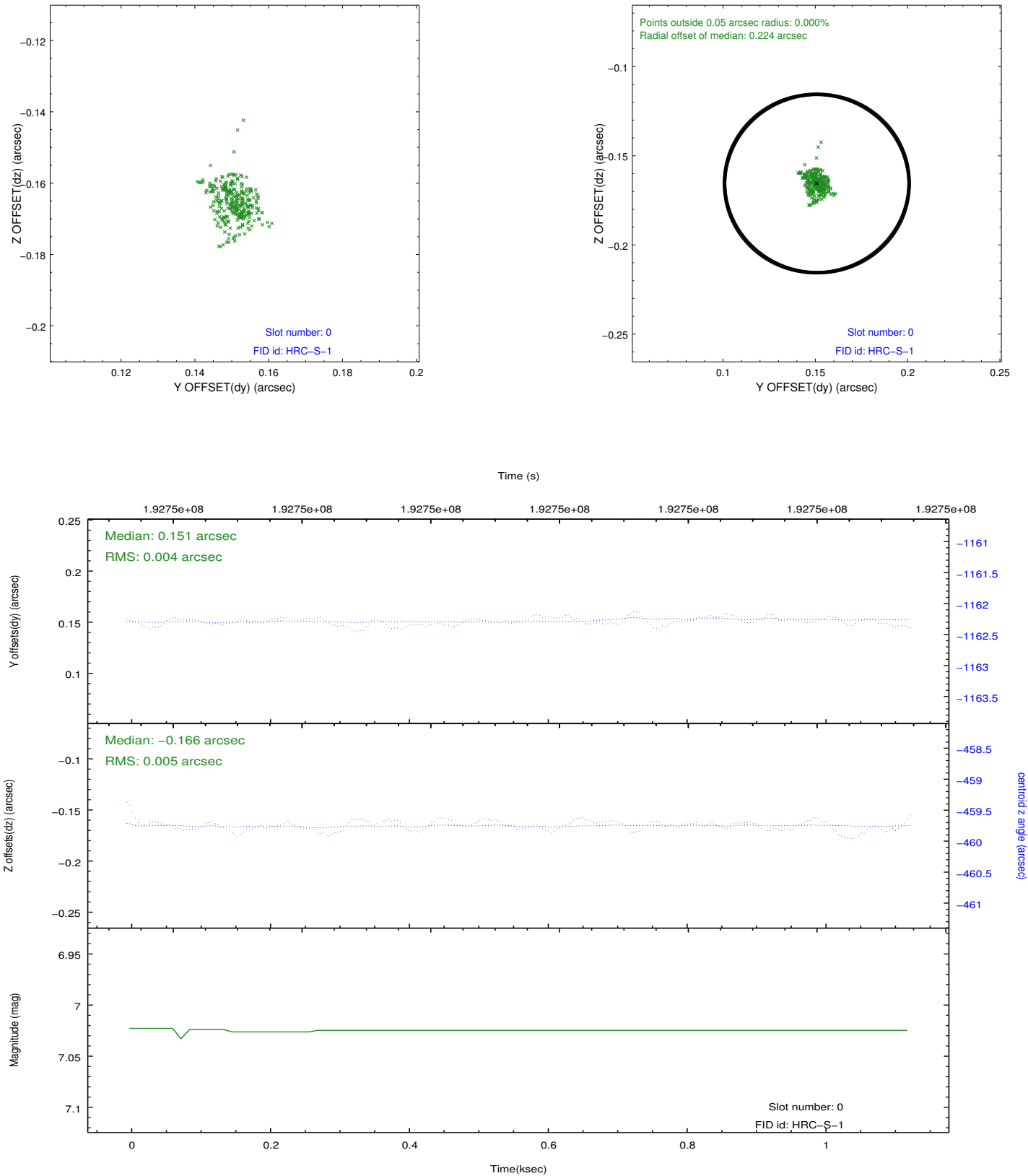


## 2.4.5 Slot 7

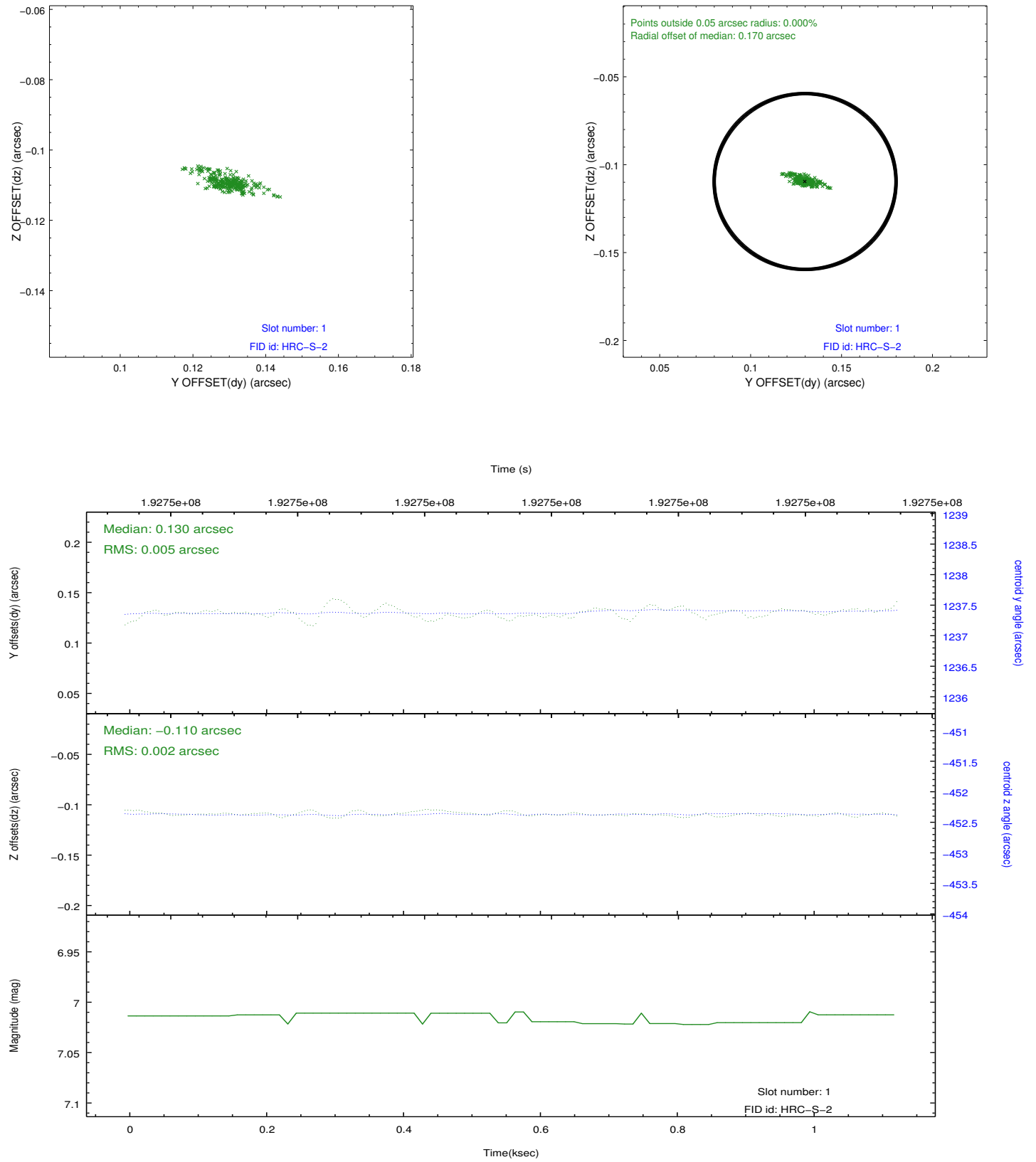


## 2.5 FID Slots

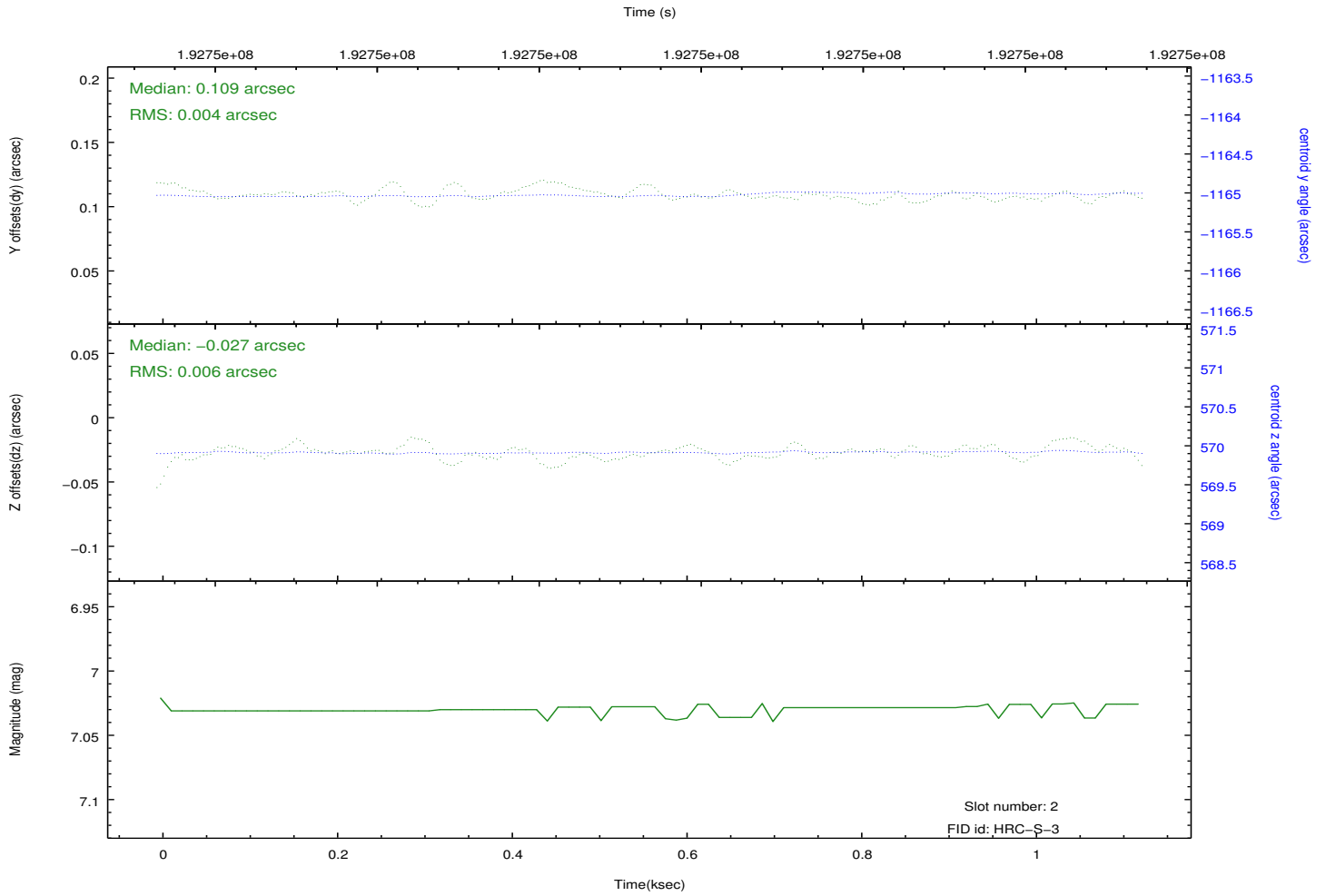
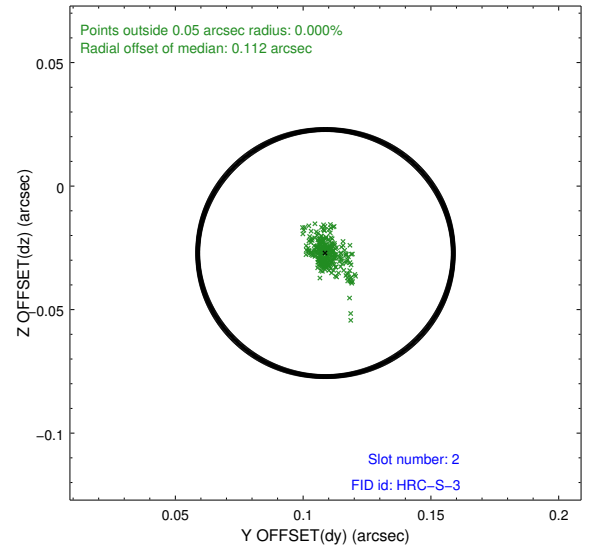
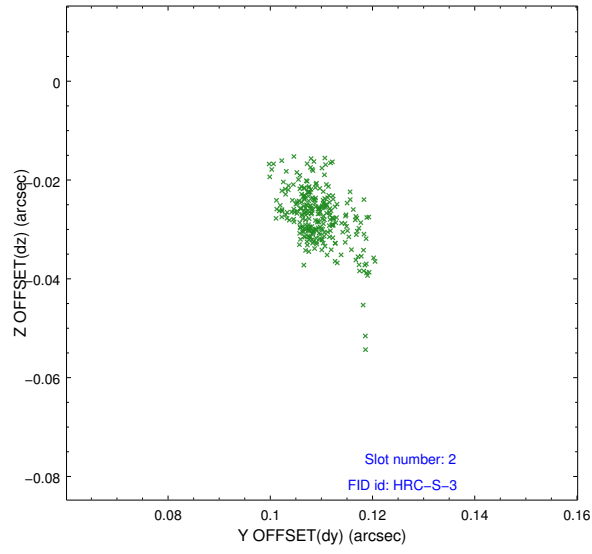
### 2.5.1 Slot 0



## 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)	2012.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.088

### A.2 Comments