

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 5099 - L2 Version 3  
Chandra X-Ray Center

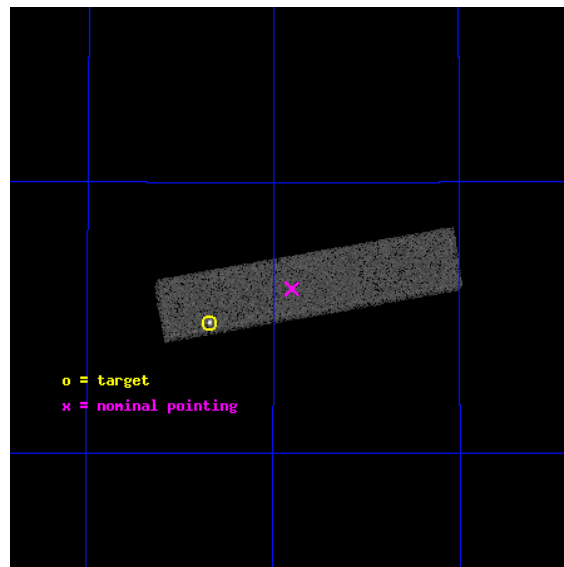
L2 Processing Date : Nov 11 2012

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# 1 Front

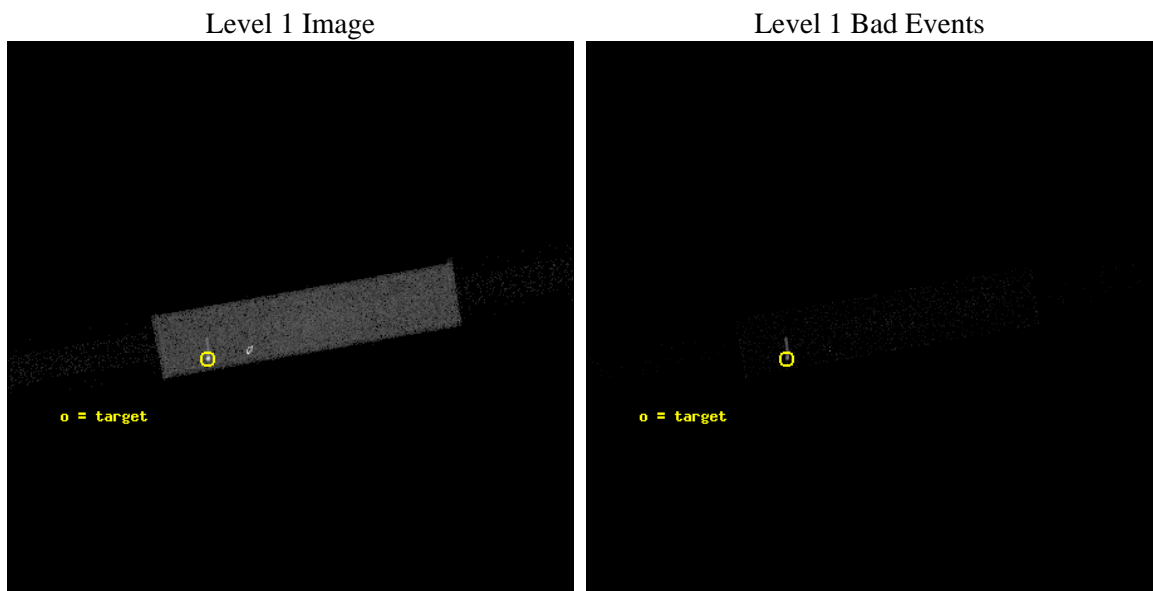
seq_num	290372	Sequence number
obs_id	5099	Observation id
title	AO5A Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	331.94994322681	Nominal RA [deg]
dec_nom	45.804639948486	Nominal Dec [deg]
roll_nom	349.97648119423	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1087.7812975943	[s]
livetime	1081.6951051667	Ontime multiplied by DTCOR
l2events	38910	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	1087.7812975943	[s]
caldsver	4.5.2	&#160	l1events	72771	Number of level 1 events
date	2012-11-11T16:21:39	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

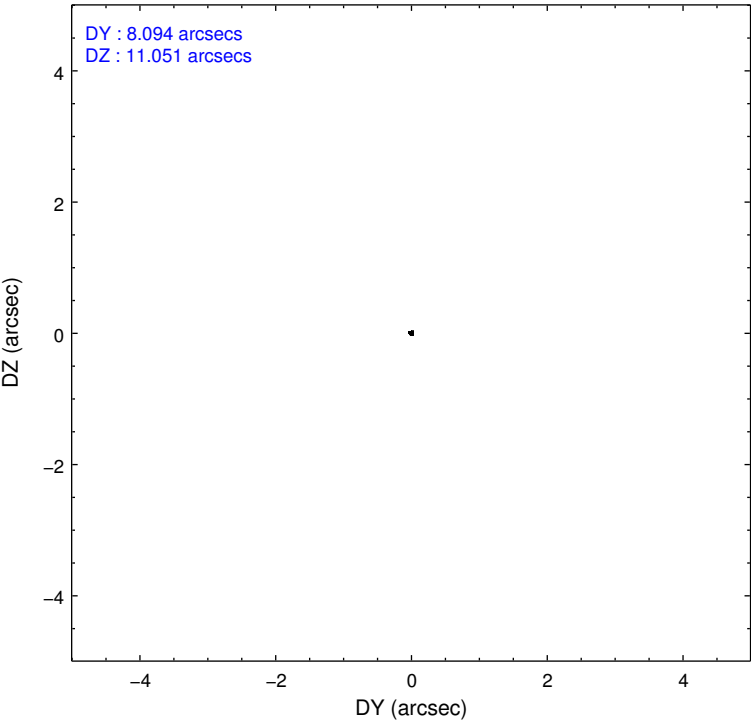
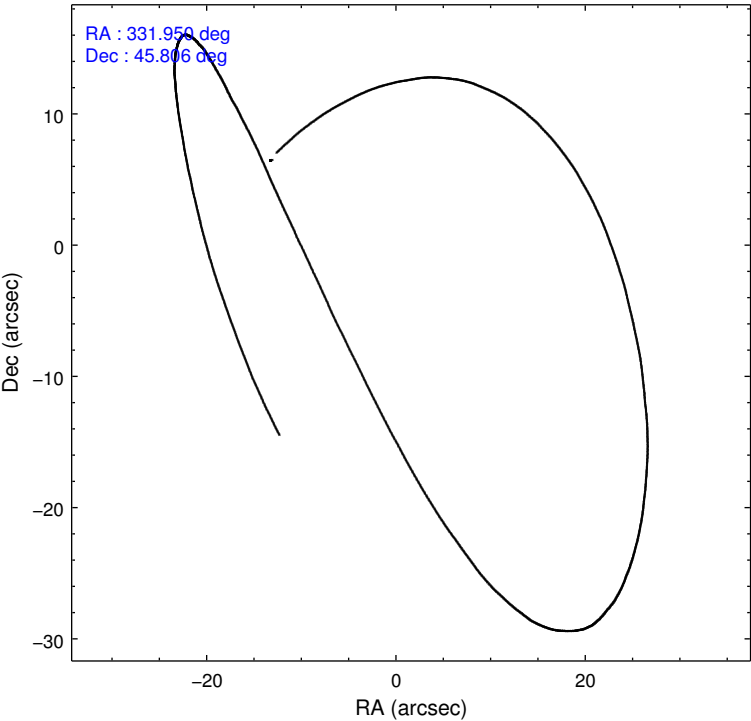
Level 1 Events

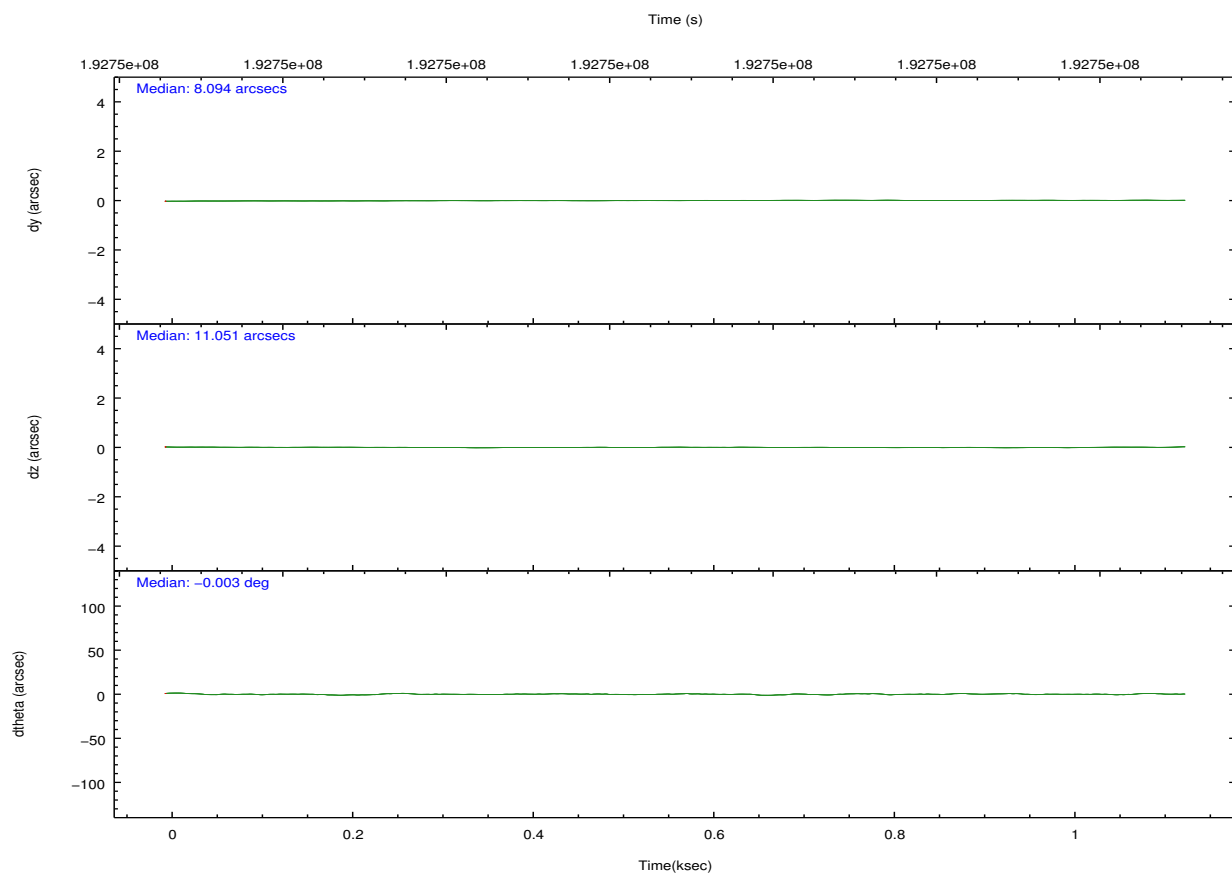
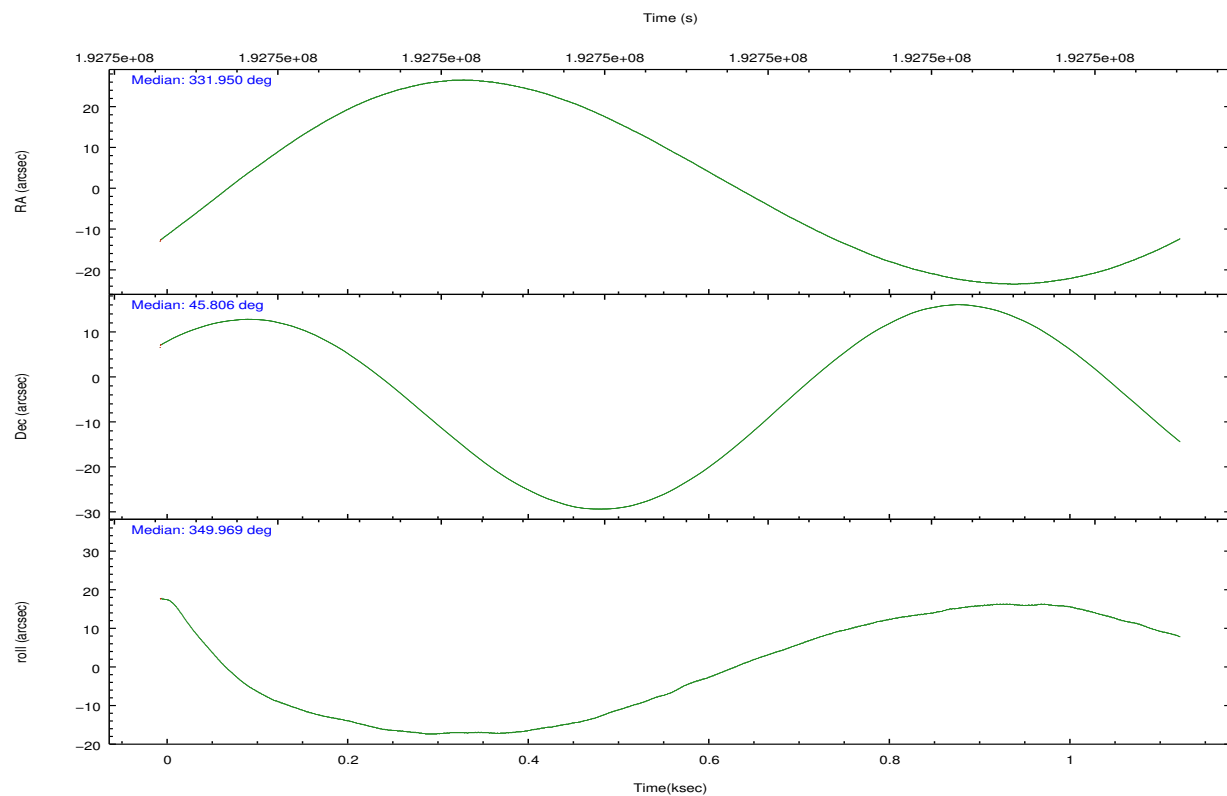
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1099	70526	1146
rejected events	1099	15471	1146
rejected %	100%	21%	100%

## 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	331.912012	331.9499432268138			
[deg] Pointing Dec	45.792494	45.8046399484864			
[deg] Pointing Roll	349.936238	349.9764811942266			
[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)	192746097.184000	192745721.27315			
Observation start date	2004-02-09T20:33:53	2004-02-09T20:28:41			
[s] Observation end time (MET)	192747043.184000	192747176.77321			
Observation end date	2004-02-09T20:49:39	2004-02-09T20:52:56			

### 2.3 Aspect





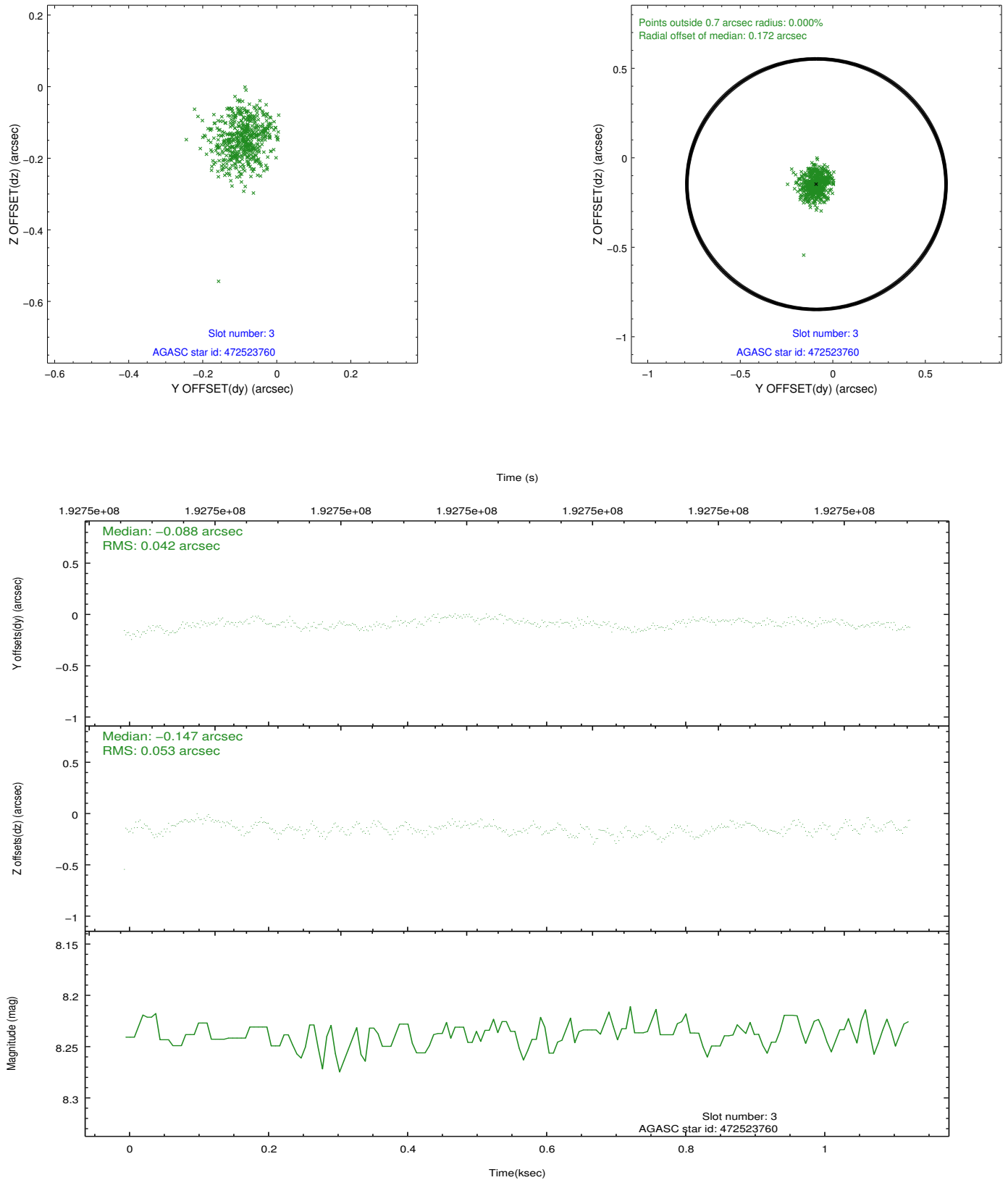
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.03	276	0.151	-0.167	0.006	0.010	0.000000	0.000000	-1162.25	-459.76
1	FID	HRC-S-2	7.02	276	0.129	-0.109	0.004	0.010	0.000000	0.000000	1233.20	-454.04
2	FID	HRC-S-3	7.03	276	0.110	-0.026	0.006	0.011	0.000000	0.000000	-1160.53	568.27
3	GUIDE	472523760	8.24	552	-0.088	-0.147	0.072	0.110	331.645363	45.403260	-418.18	-1500.27
4	GUIDE	472533912	9.17	552	-0.034	0.045	0.096	0.166	331.791136	46.368695	-658.55	1983.72
5	GUIDE	472655152	9.43	552	0.150	0.016	0.100	0.166	332.504239	45.862991	1416.14	514.84
6	GUIDE	472659832	9.46	551	0.012	0.110	0.105	0.178	332.780399	46.098139	1943.16	1471.50
7	GUIDE	472654568	9.44	550	-0.032	-0.007	0.120	0.184	332.194449	45.063576	1170.07	-2457.89

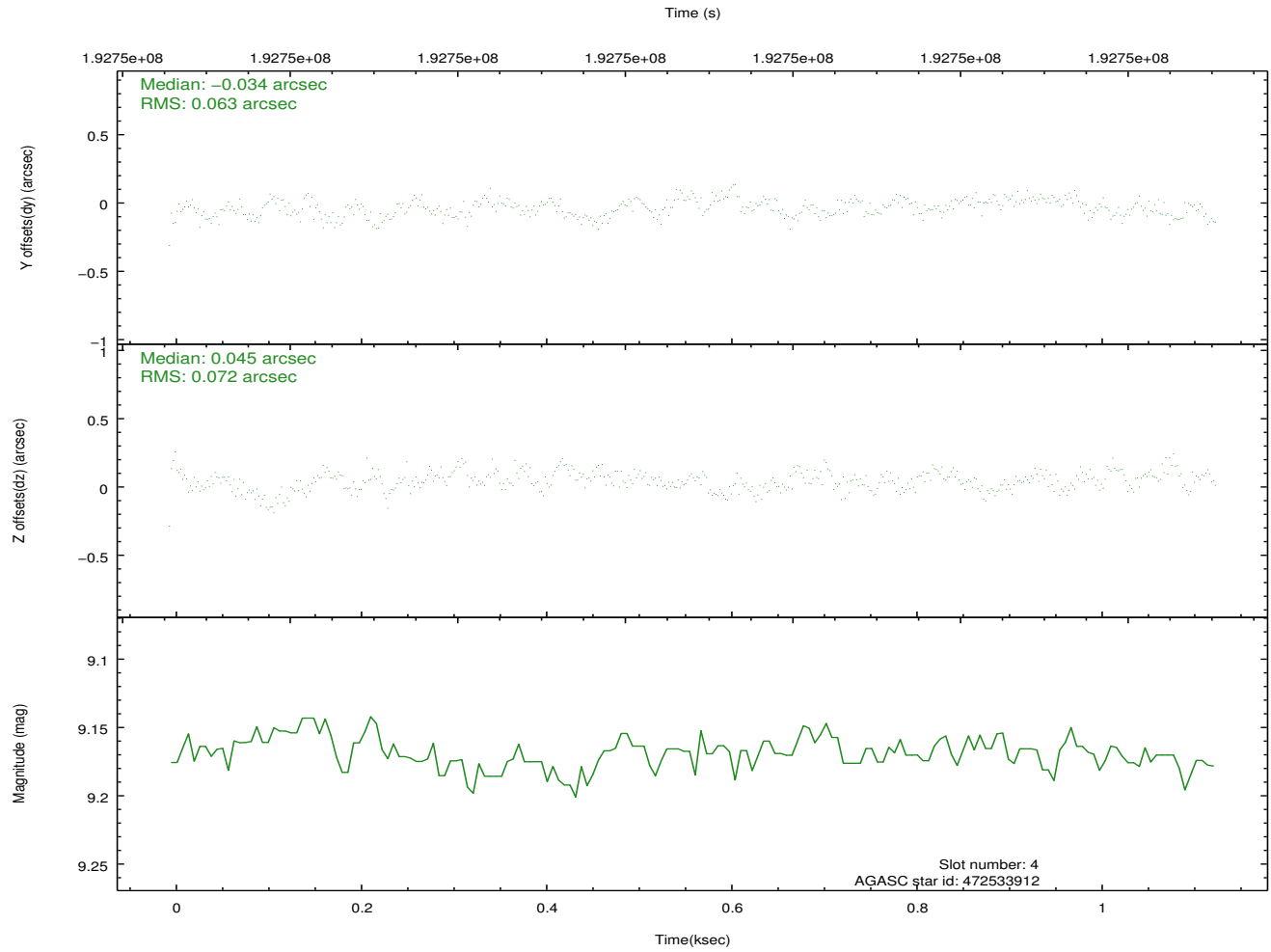
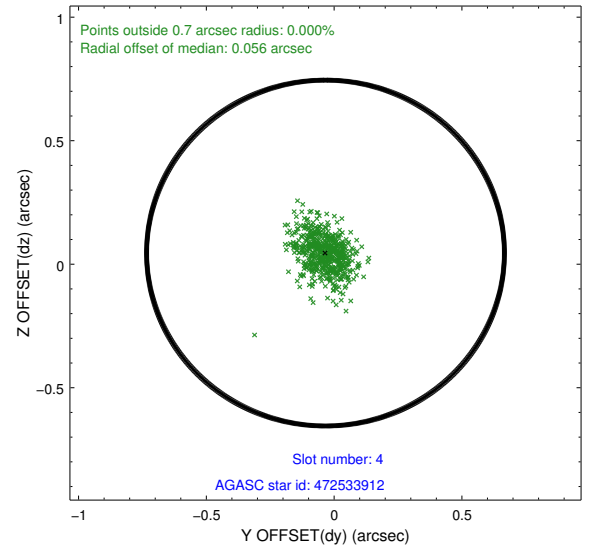
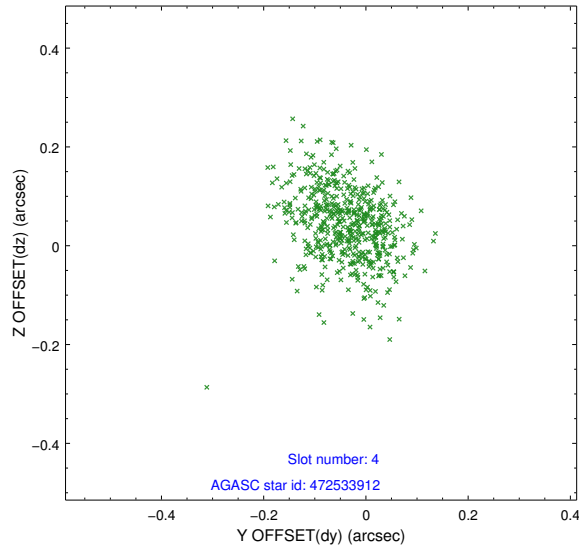


## 2.4 Star Slots

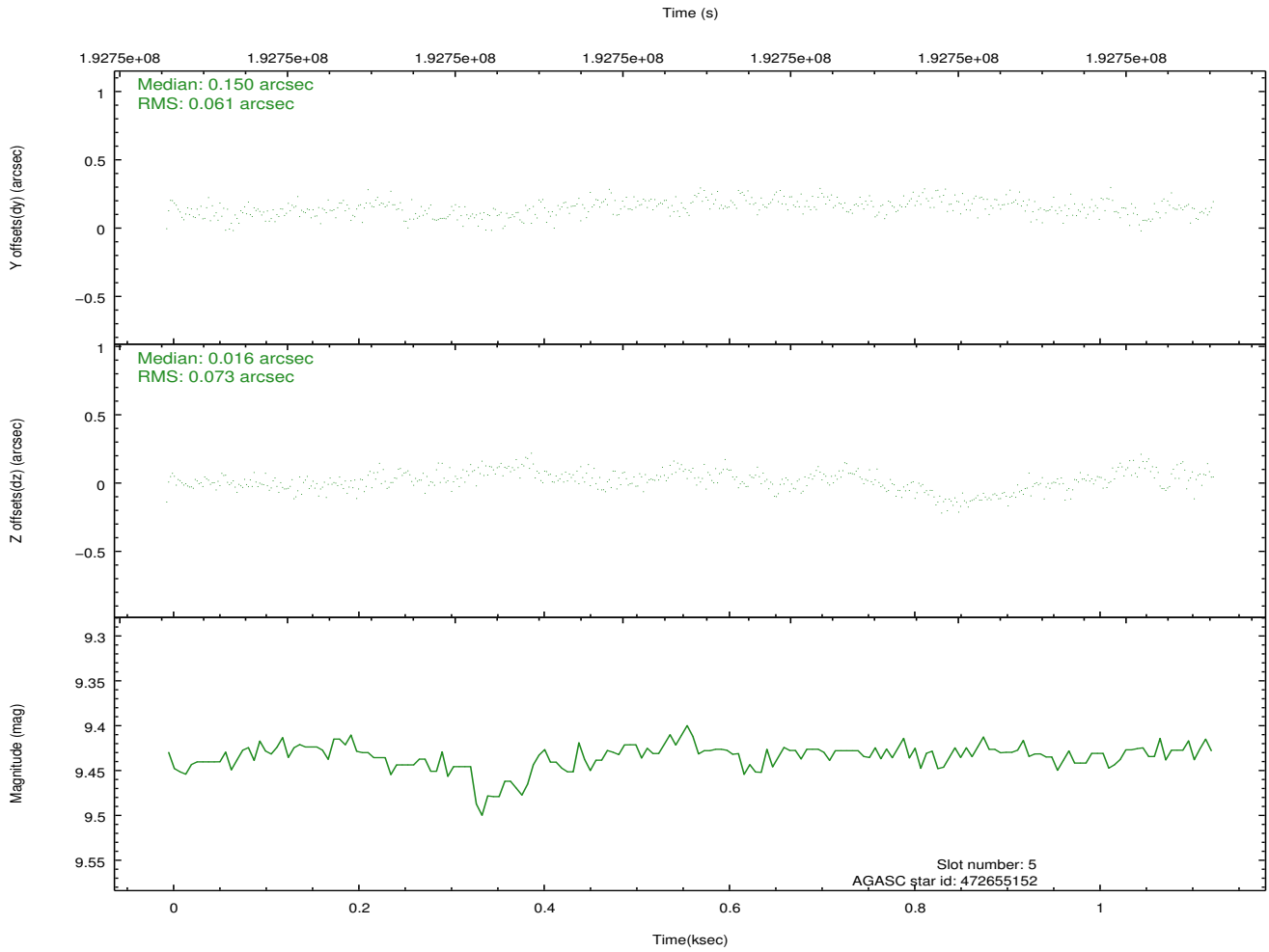
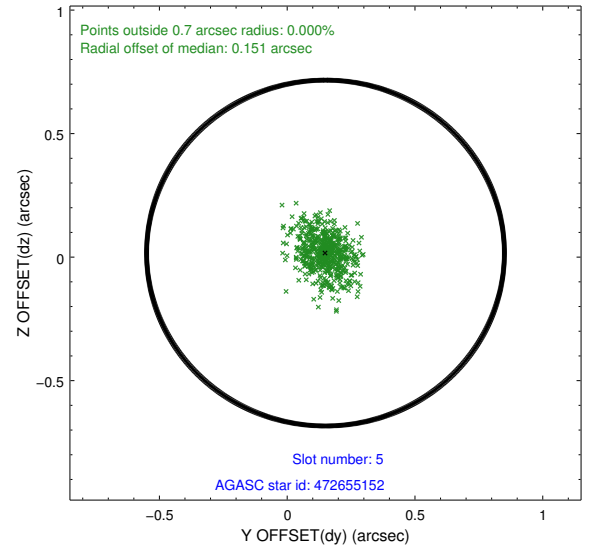
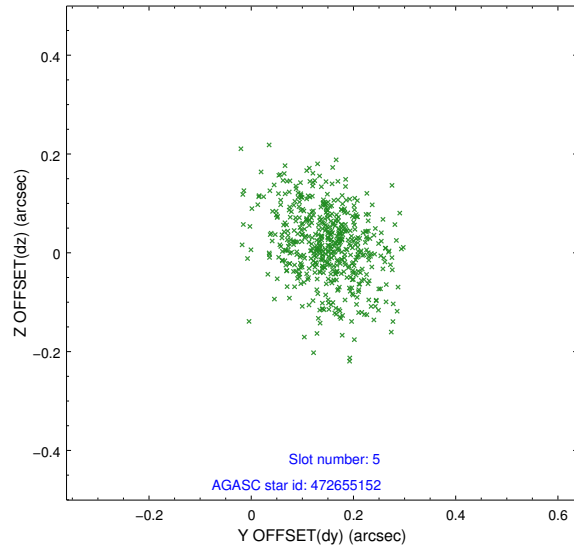
### 2.4.1 Slot 3



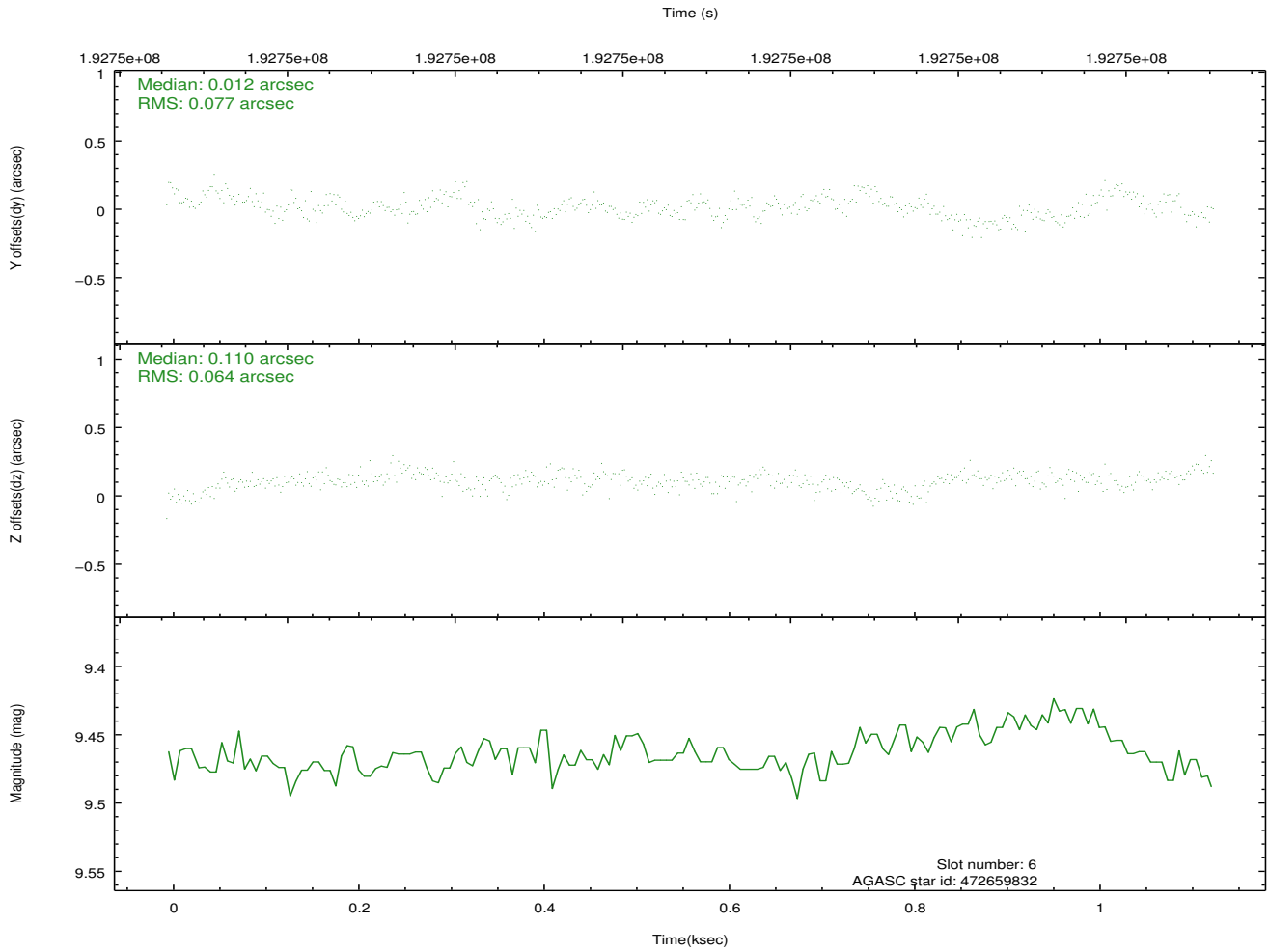
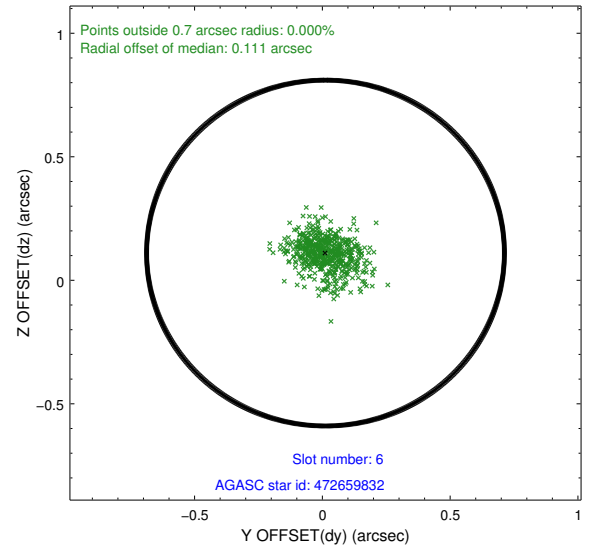
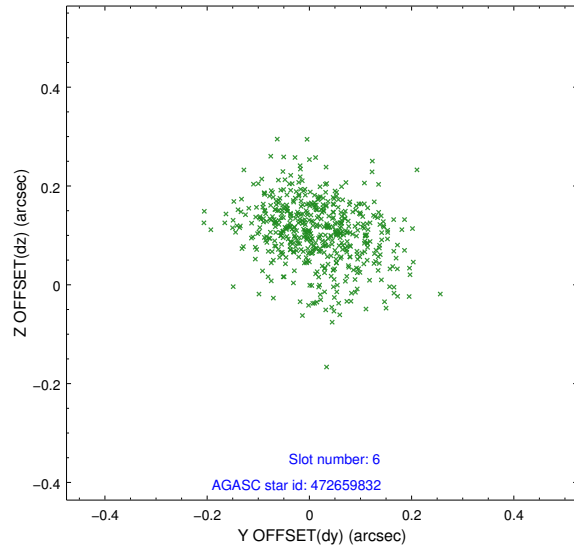
## 2.4.2 Slot 4



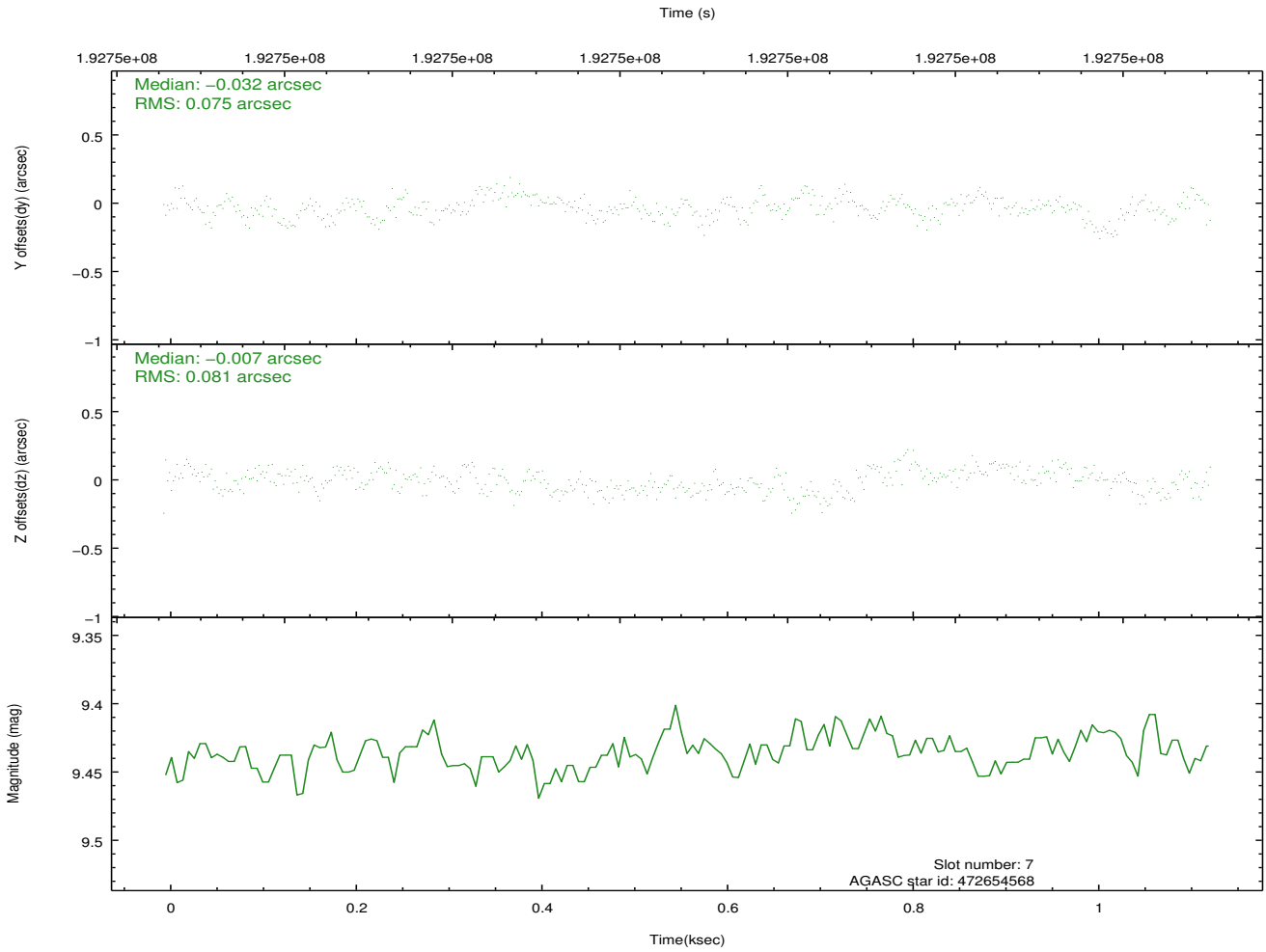
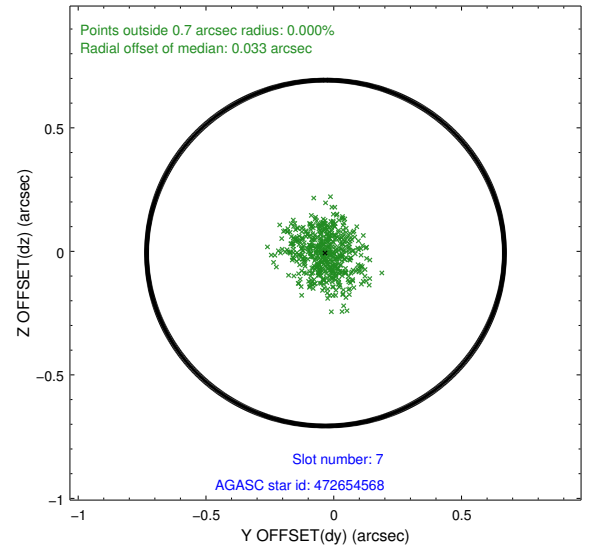
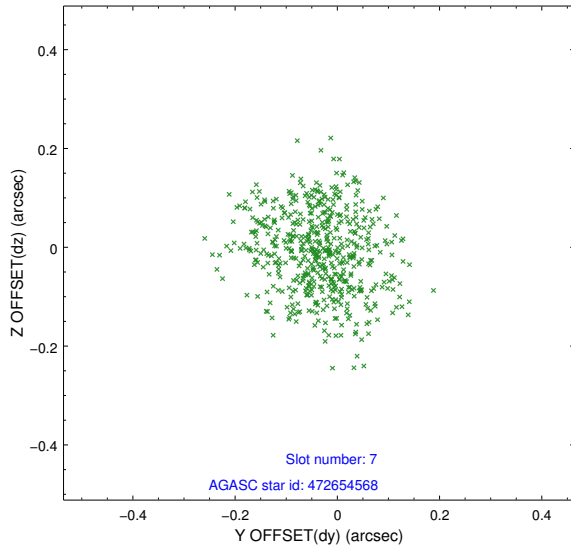
### 2.4.3 Slot 5



## 2.4.4 Slot 6

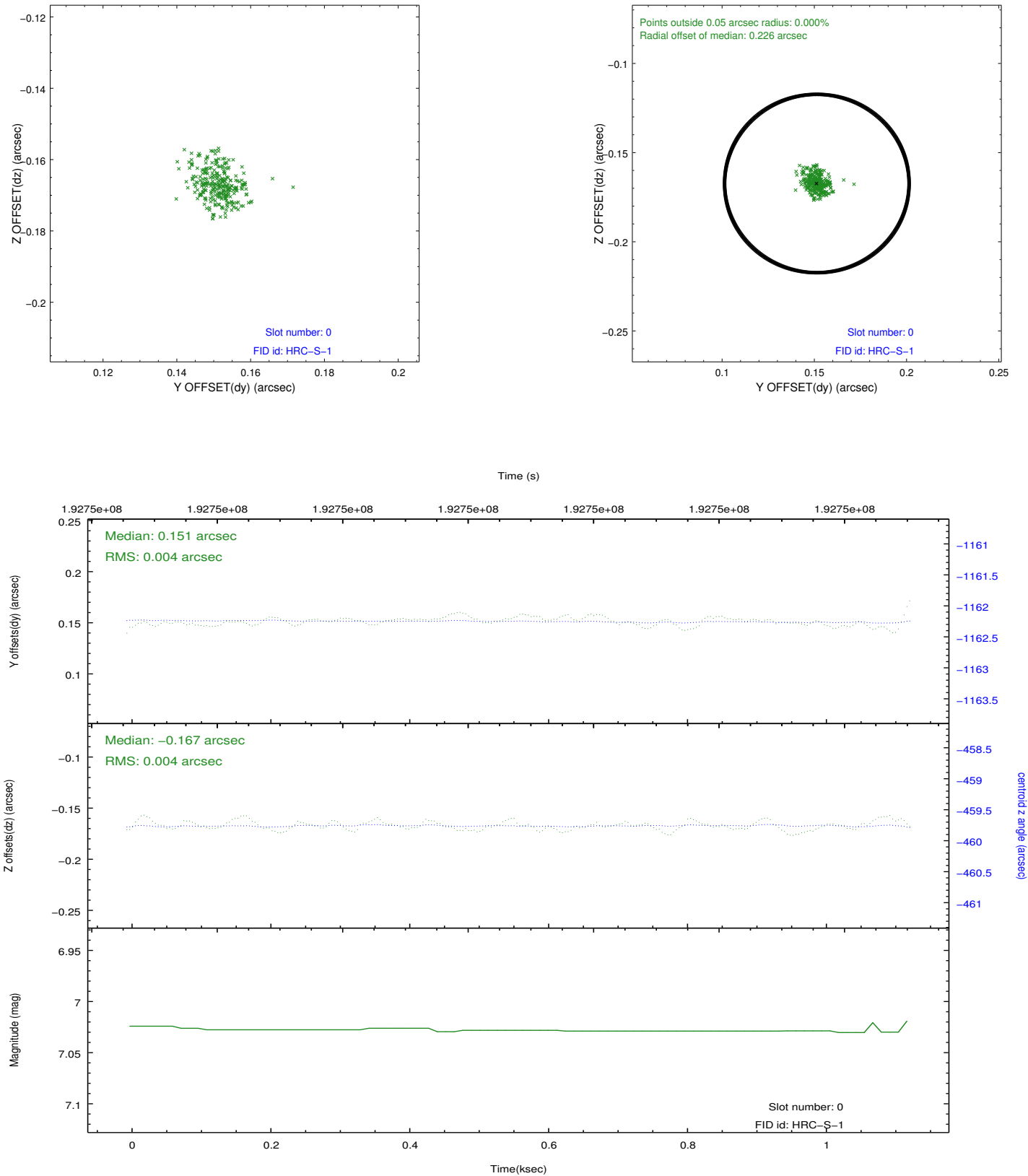


## 2.4.5 Slot 7

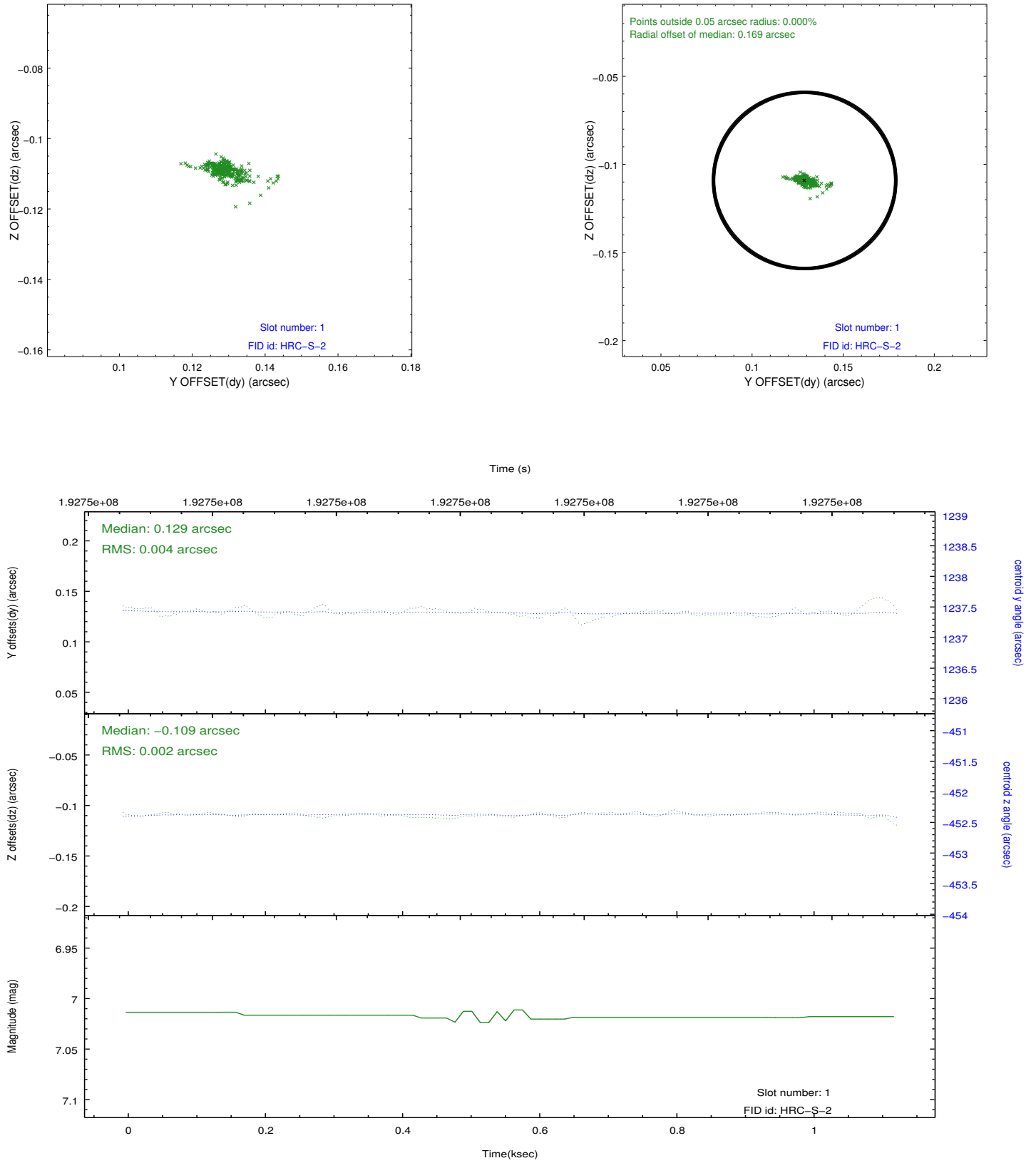


## 2.5 FID Slots

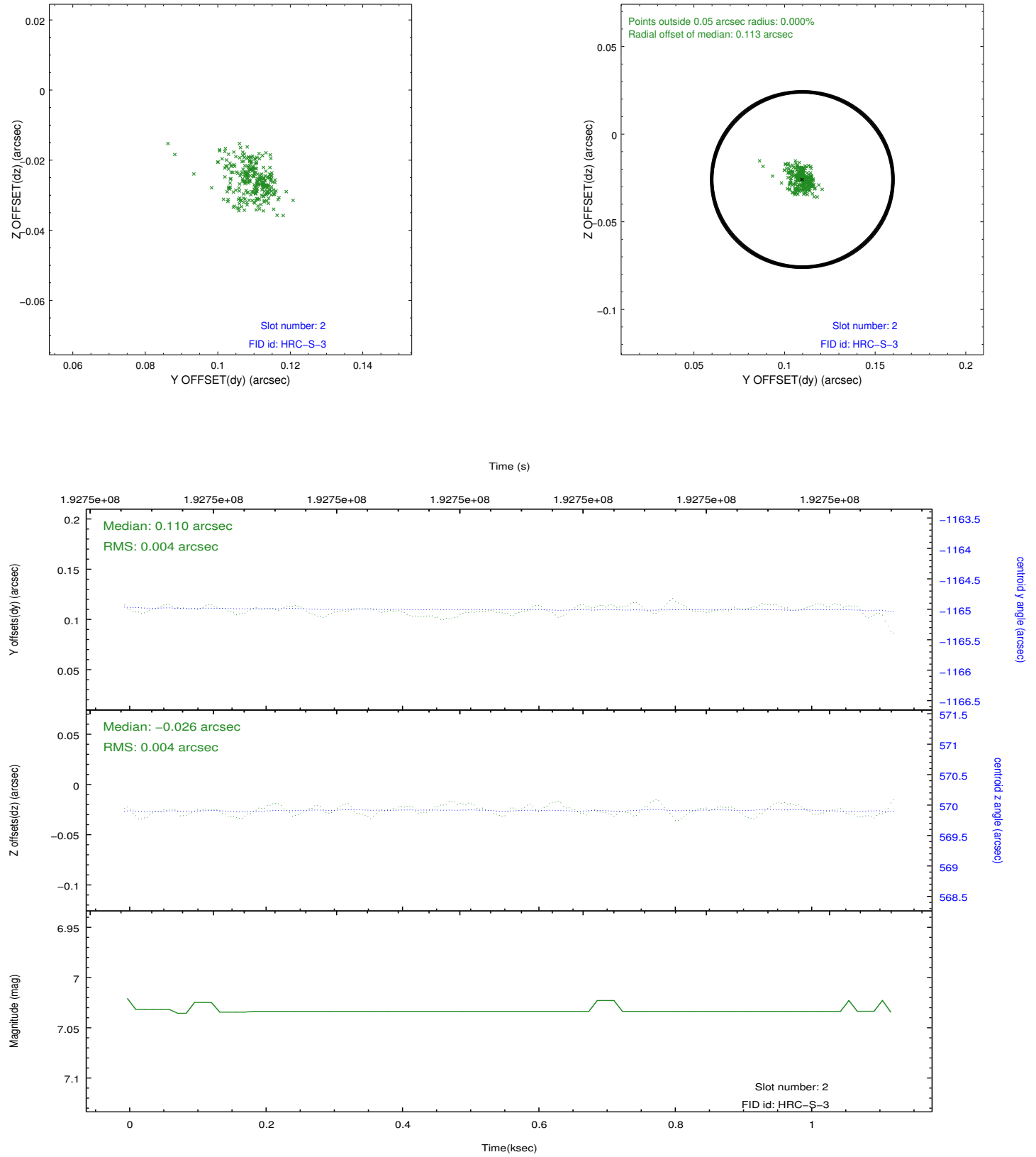
### 2.5.1 Slot 0



## 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)	2012.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.087

### A.2 Comments