

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 5116 - L2 Version 3  
Chandra X-Ray Center

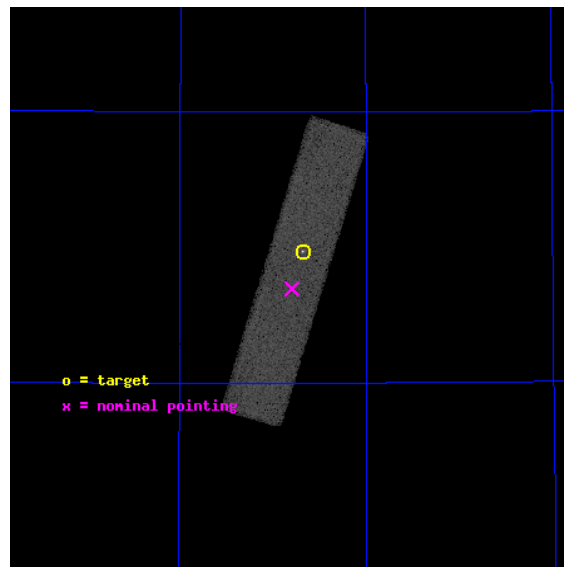
L2 Processing Date : Dec 11 2012

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# 1 Front

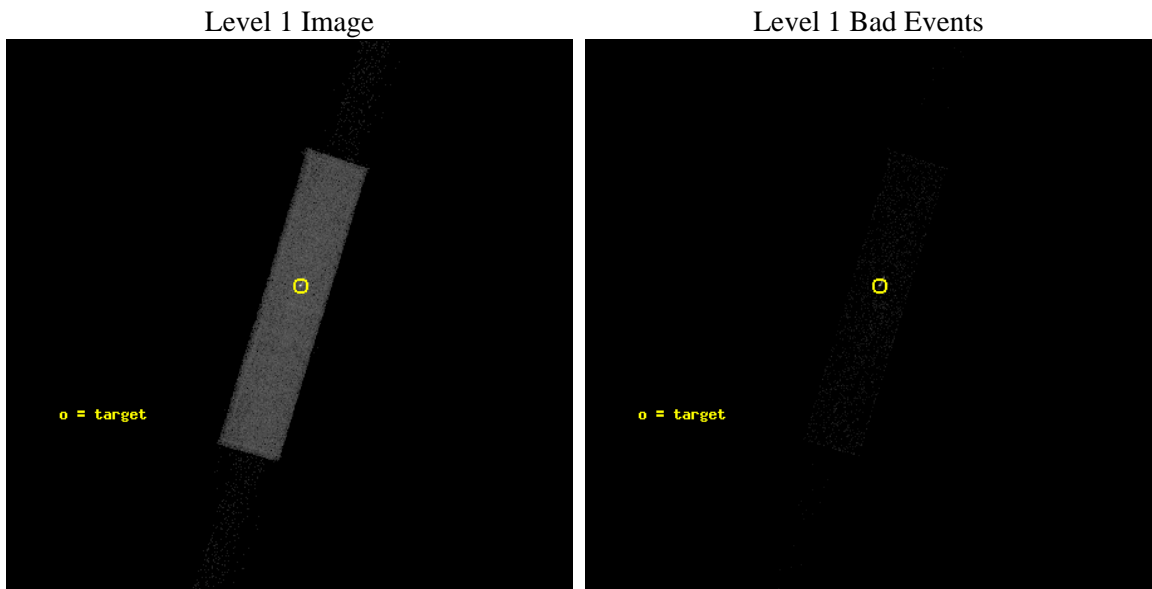
seq_num	290389	Sequence number
obs_id	5116	Observation id
title	AO5B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.19900332098	Nominal RA [deg]
dec_nom	45.673877604939	Nominal Dec [deg]
roll_nom	287.04374368176	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1052.931297332	[s]
livetime	1041.1089414311	Ontime multiplied by DTCOR
l2events	62184	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	900.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	1052.931297332	[s]
caldsver	4.5.4	&#160	l1events	108367	Number of level 1 events
date	2012-12-12T00:11:37	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

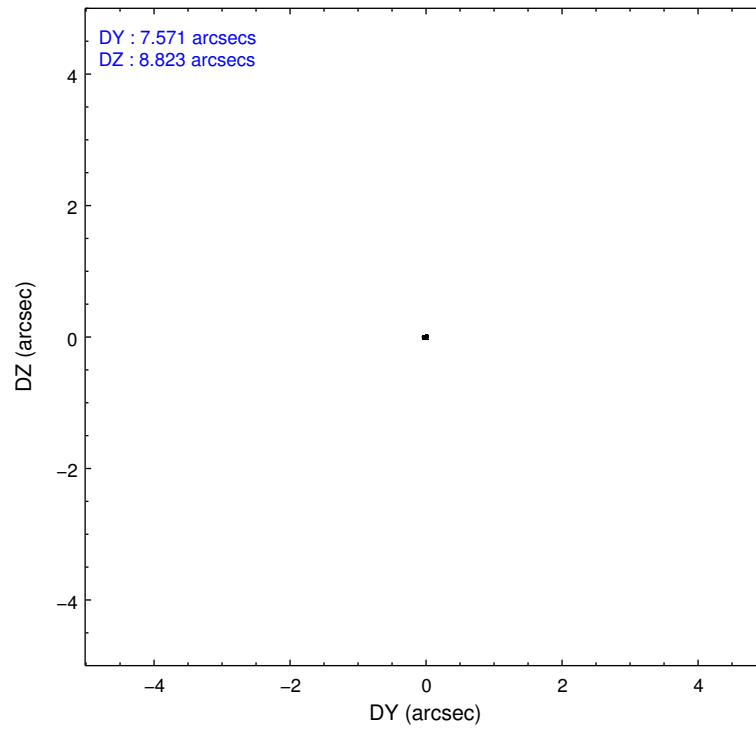
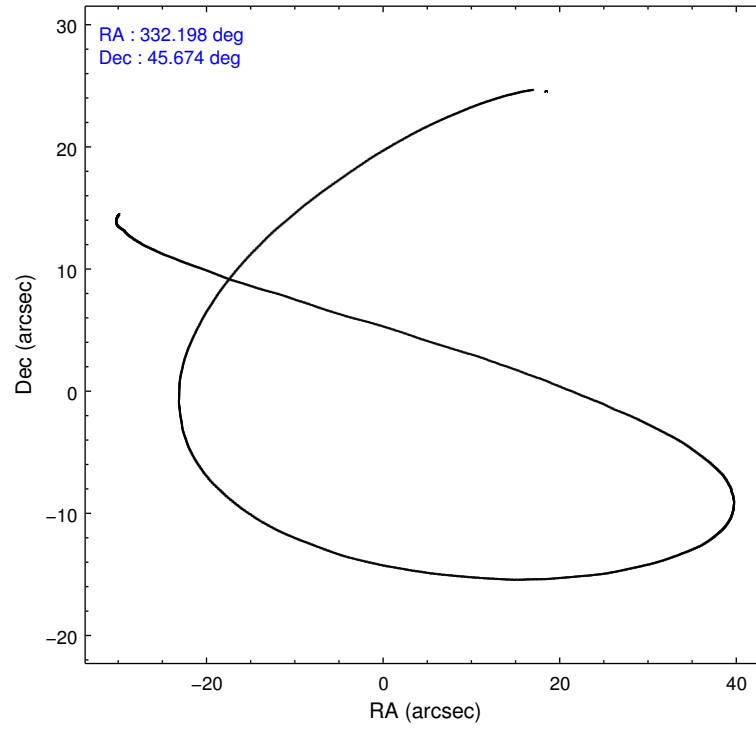
Level 1 Events

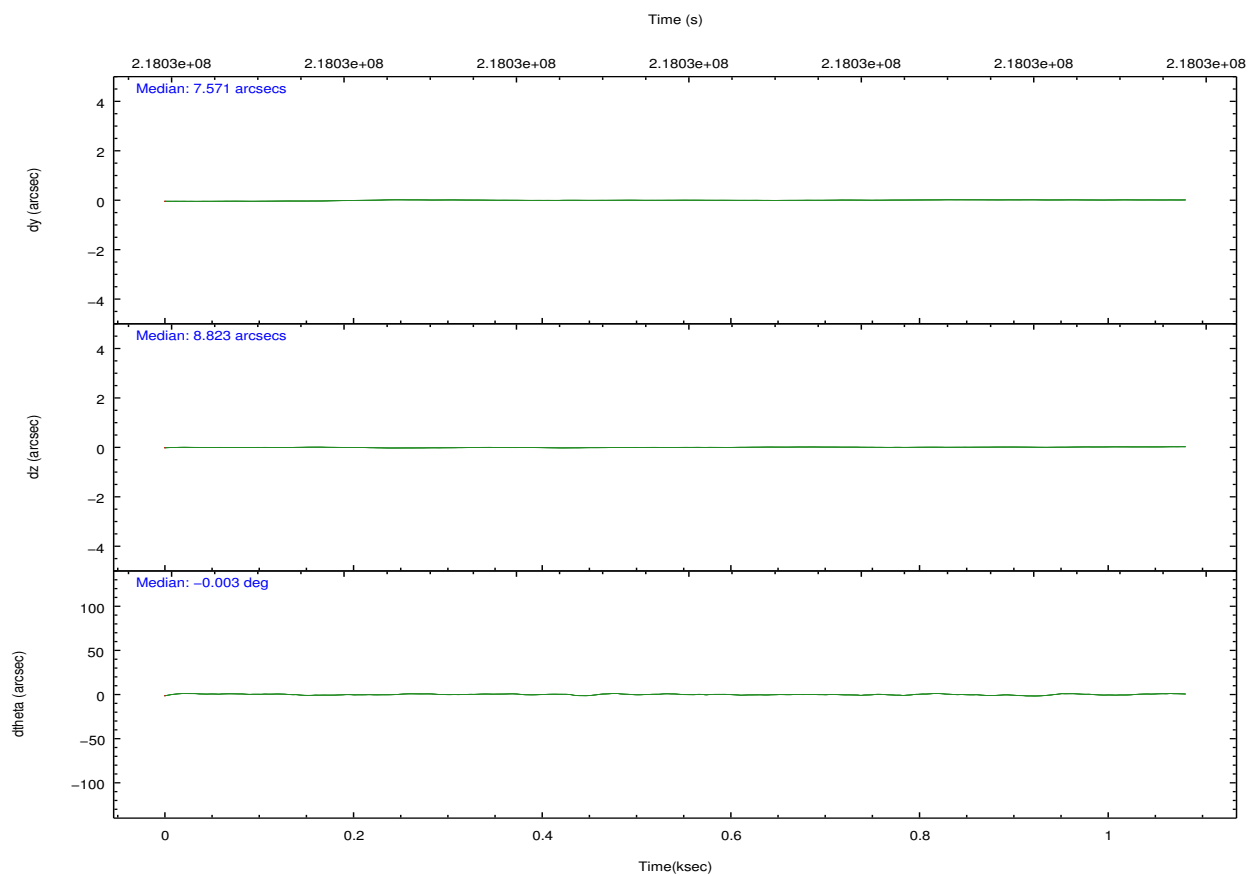
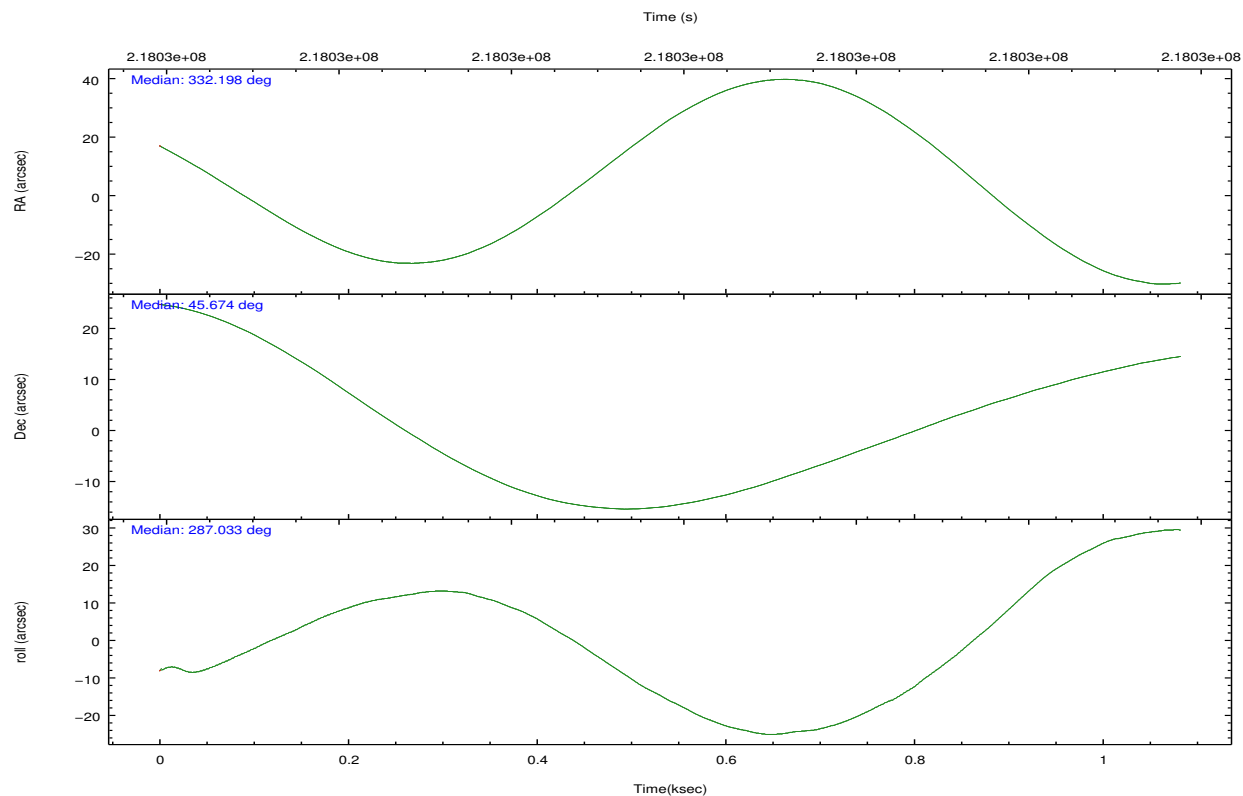
	segment 1	segment 2	segment 3
level 1 events	788	106865	714
rejected events	788	33654	714
rejected %	100%	31%	100%

## 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	332.168370	332.199003320984			
[deg] Pointing Dec	45.692461	45.67387760493873			
[deg] Pointing Roll	286.998346	287.0437436817632			
[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)	218028423.184000	218028046.95662			
Observation start date	2004-11-28T11:25:59	2004-11-28T11:20:46			
[s] Observation end time (MET)	218029323.184000	218029456.84418			
Observation end date	2004-11-28T11:40:59	2004-11-28T11:44:16			

## 2.3 Aspect





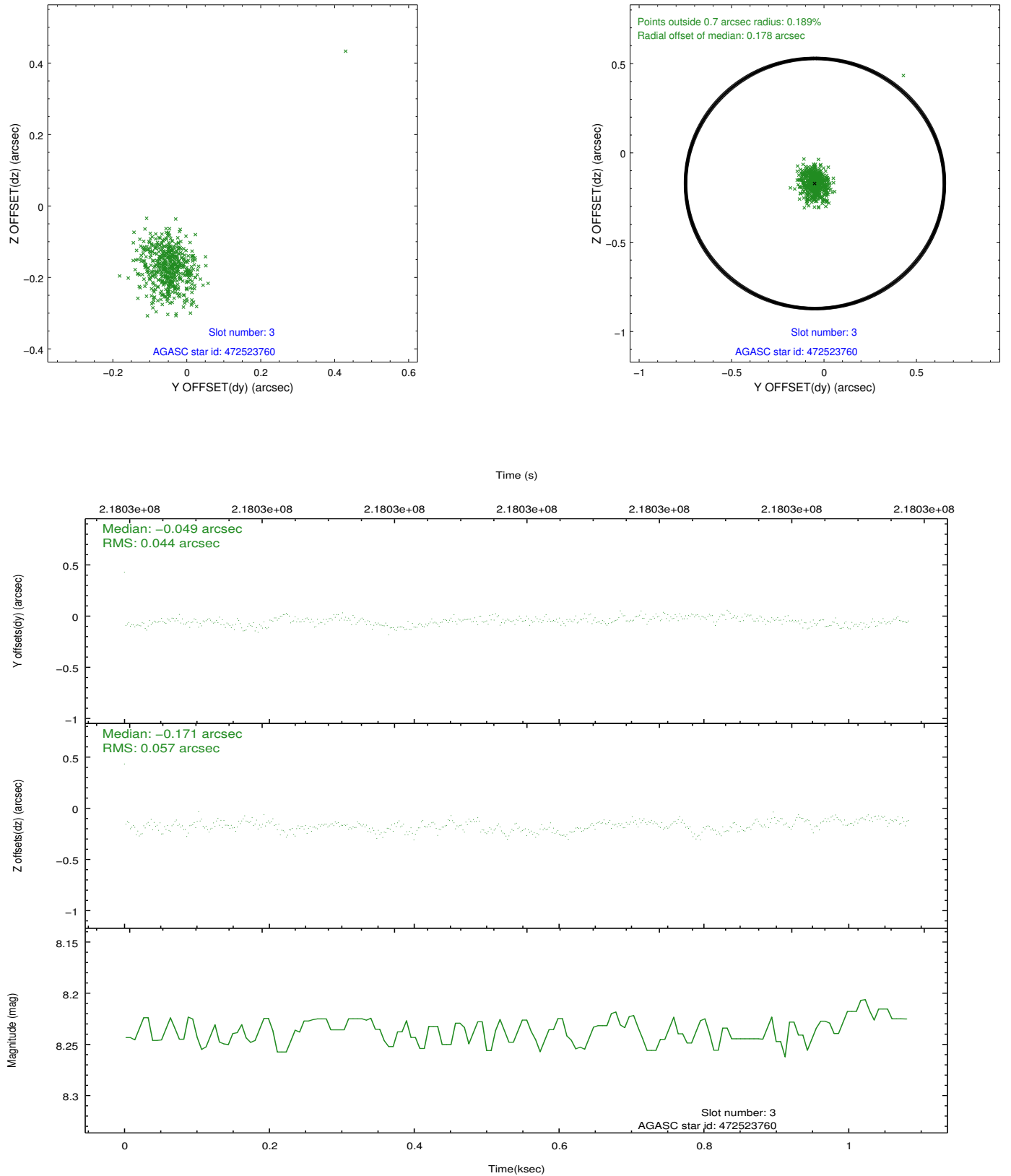
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.04	265	0.135	-0.154	0.006	0.011	0.000000	0.000000	-1161.73	-457.47
1	FID	HRC-S-2	7.03	265	0.161	-0.116	0.005	0.010	0.000000	0.000000	1233.59	-451.80
2	FID	HRC-S-3	7.05	265	0.093	-0.032	0.006	0.010	0.000000	0.000000	-1159.84	570.48
3	GUIDE	472523760	8.24	529	-0.049	-0.171	0.068	0.110	331.645363	45.403260	605.61	-1565.47
4	GUIDE	472525528	6.64	529	-0.010	0.023	0.081	0.135	331.551102	45.248694	1066.48	-1962.21
5	GUIDE	472654568	9.44	529	0.110	0.035	0.115	0.183	332.194449	45.063576	2186.99	-599.77
6	GUIDE	472655152	9.43	528	0.016	0.086	0.102	0.179	332.504239	45.862991	-338.31	986.09
7	GUIDE	472659832	9.47	528	-0.066	0.045	0.107	0.161	332.780399	46.098139	-956.43	1893.40

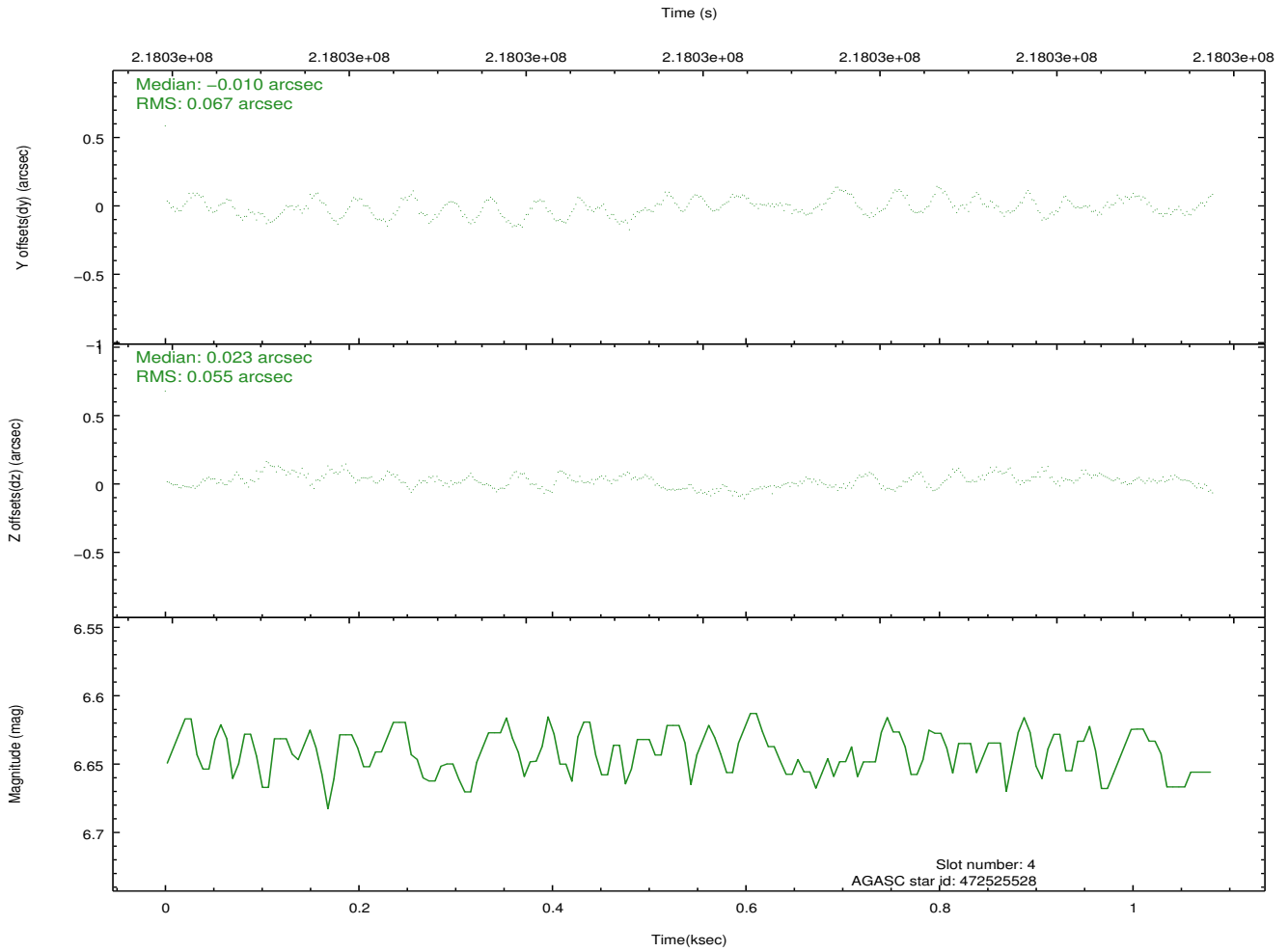
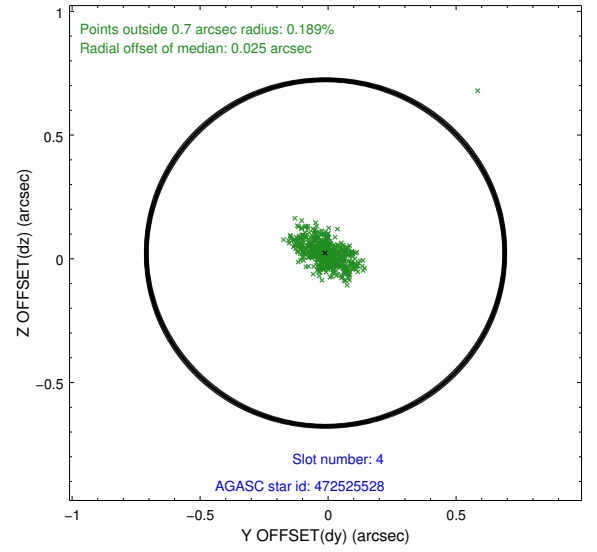
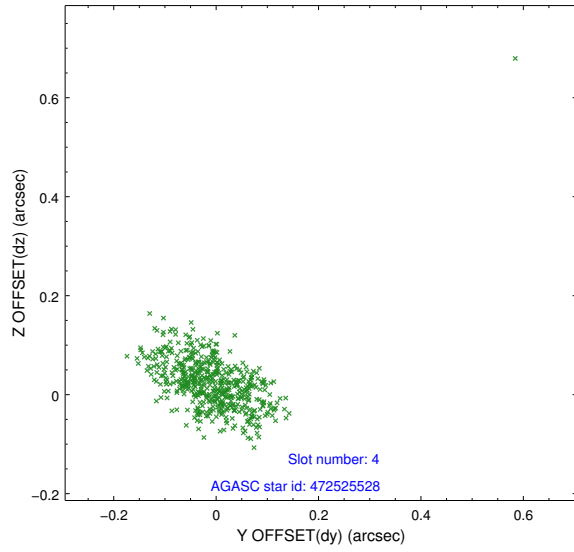


## 2.4 Star Slots

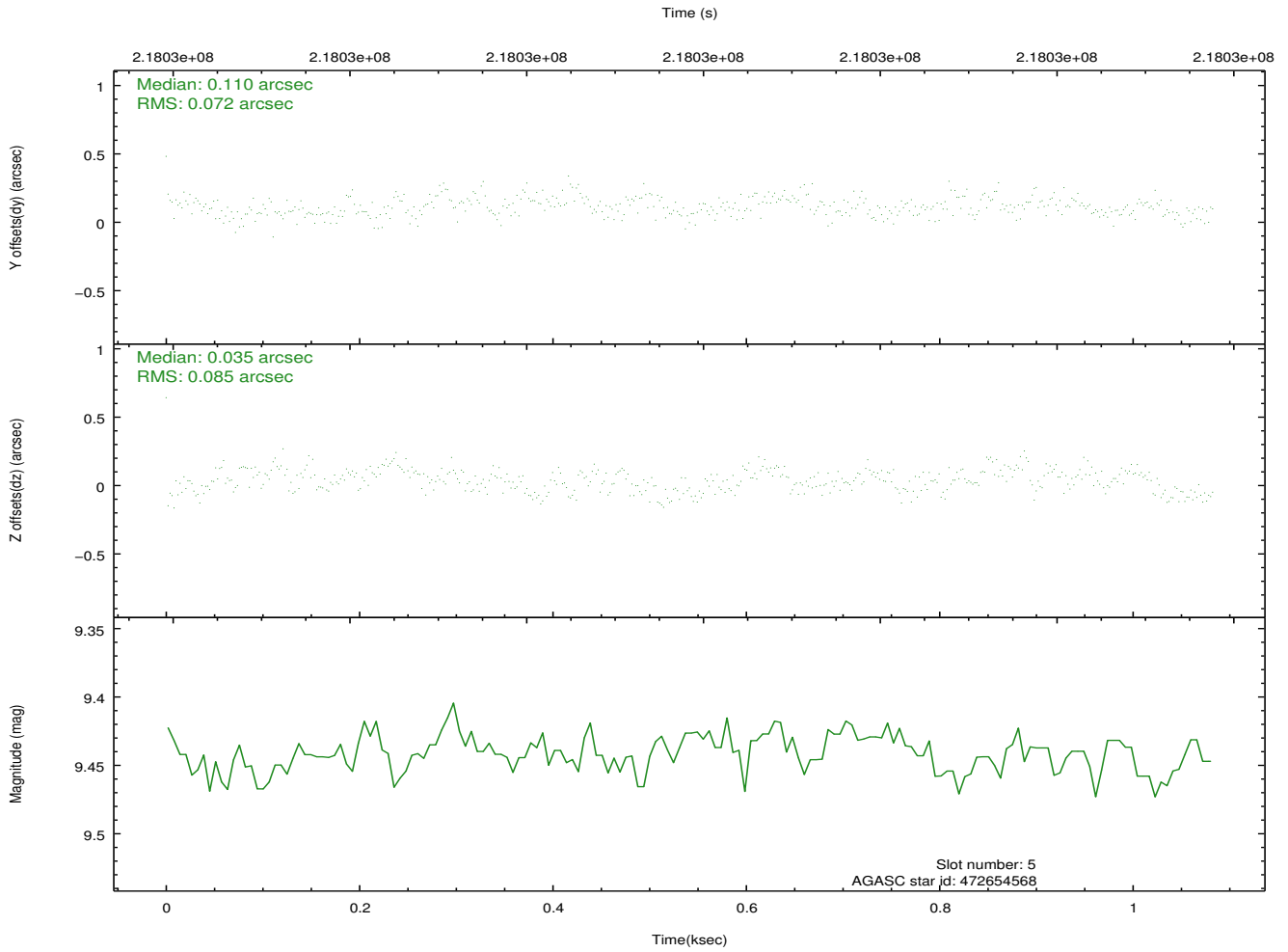
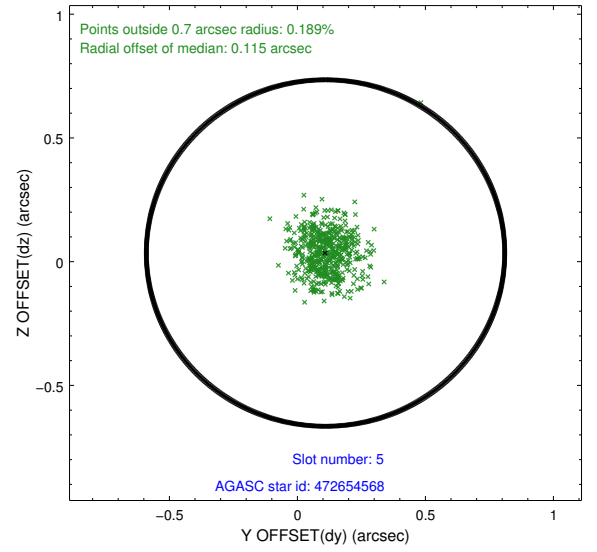
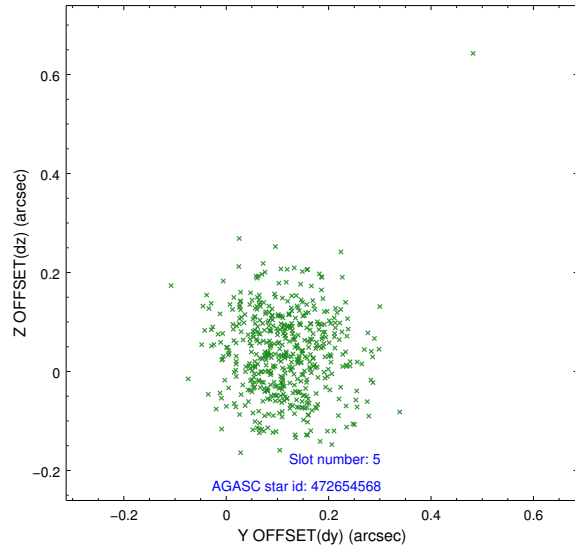
### 2.4.1 Slot 3



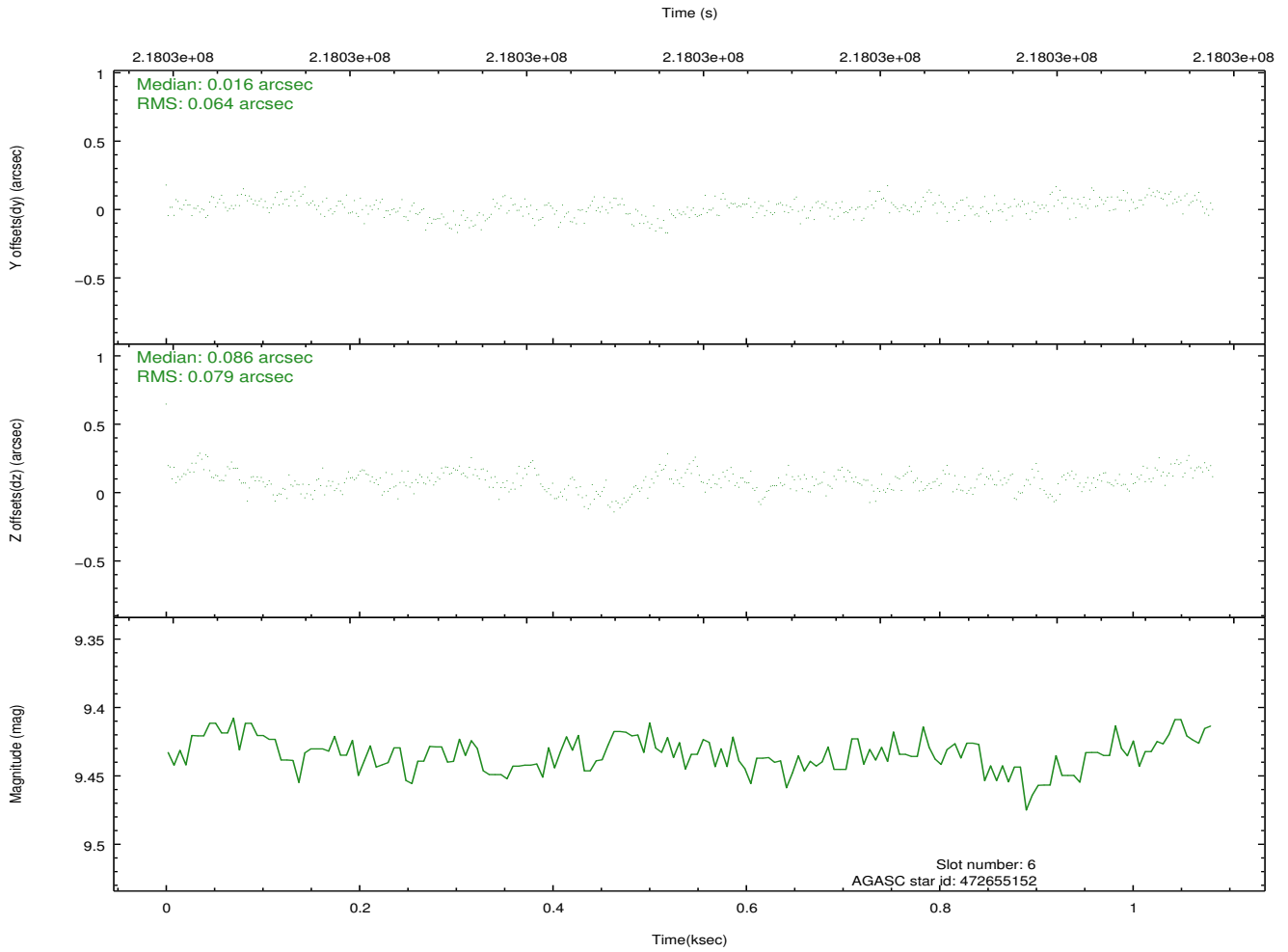
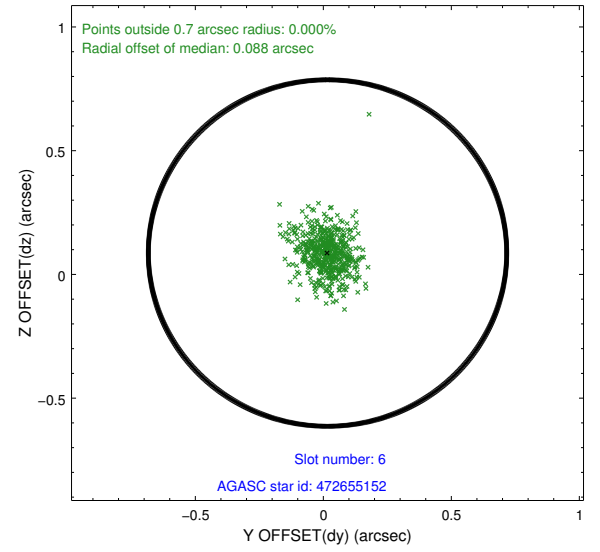
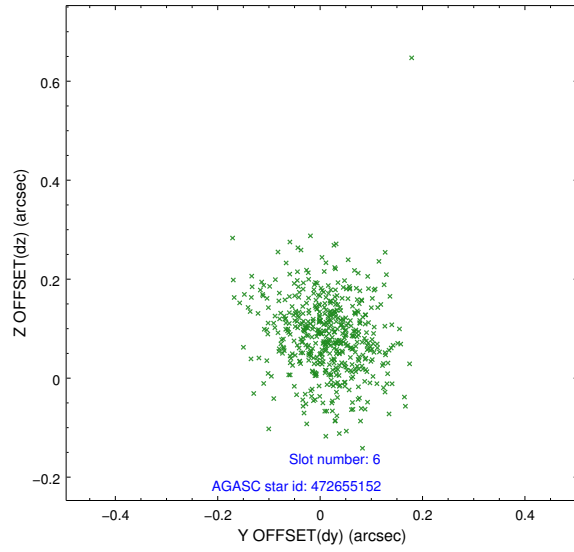
## 2.4.2 Slot 4



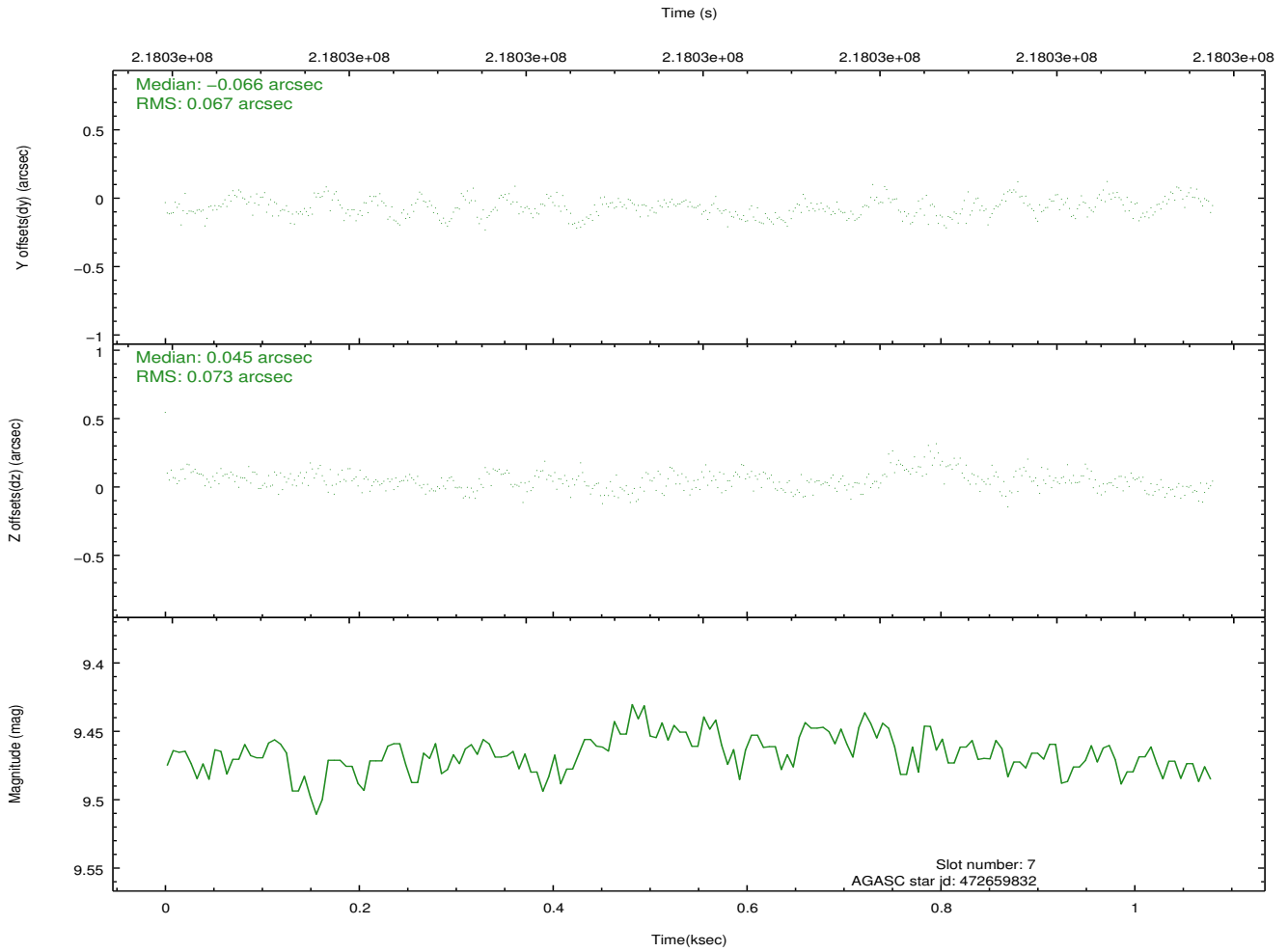
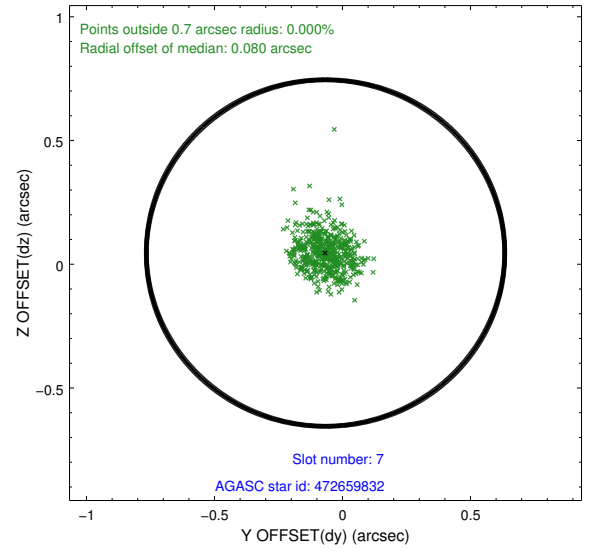
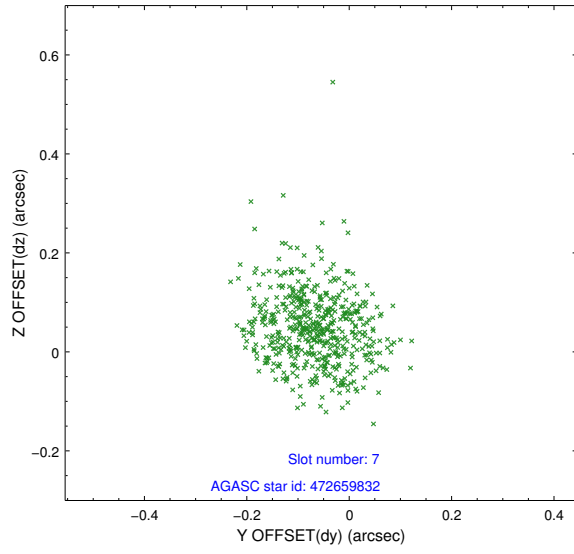
### 2.4.3 Slot 5



## 2.4.4 Slot 6

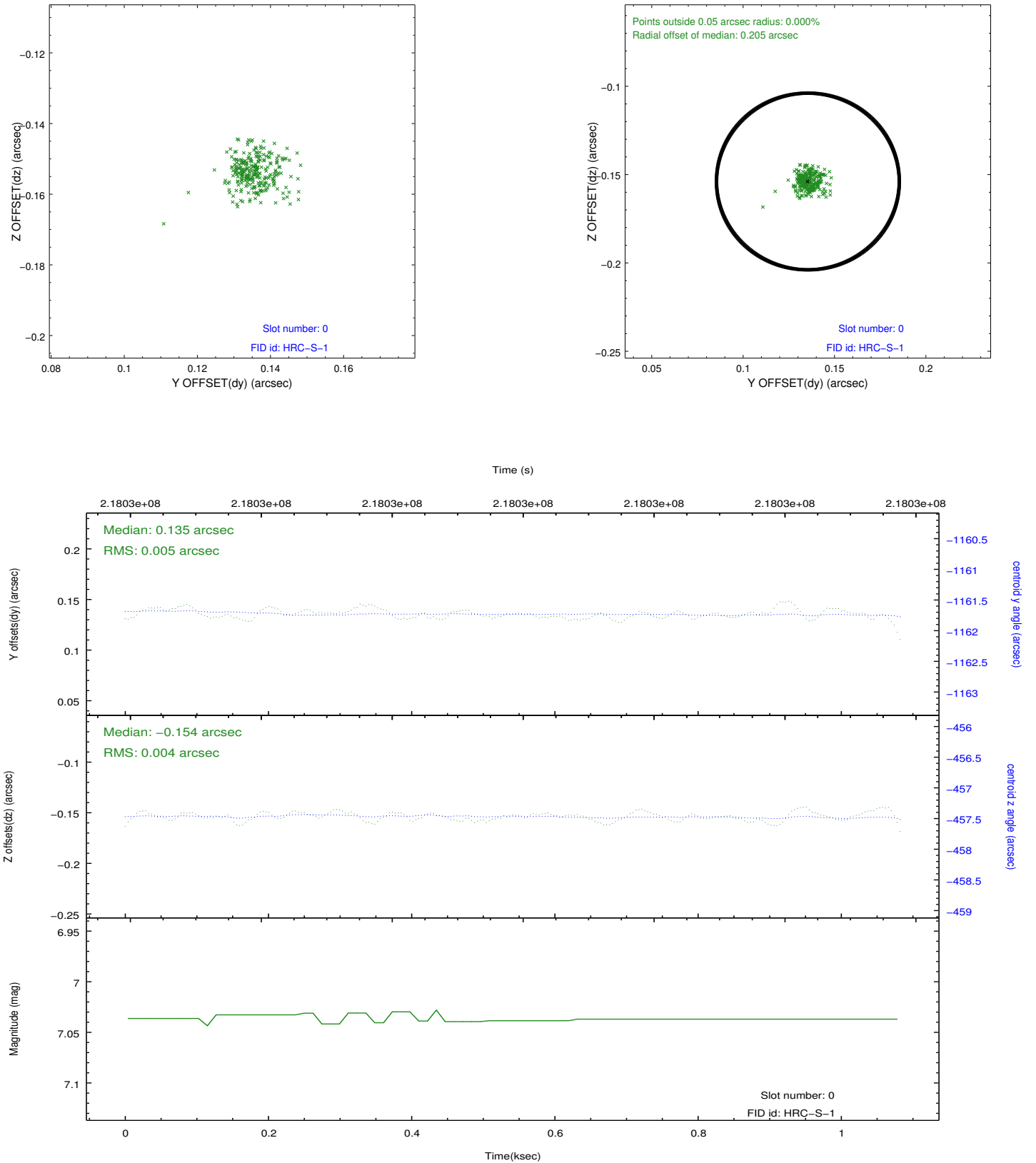


## 2.4.5 Slot 7

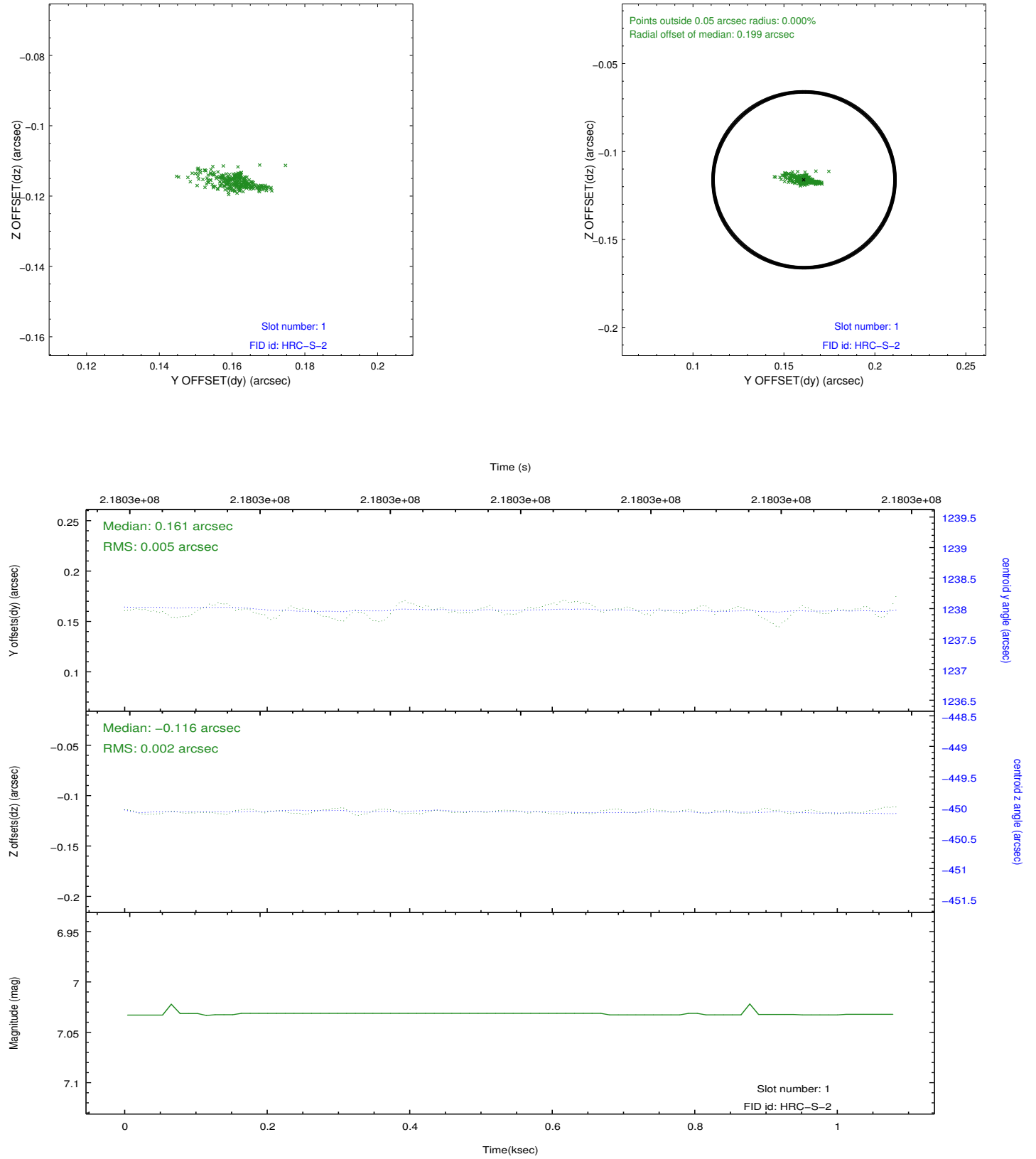


## 2.5 FID Slots

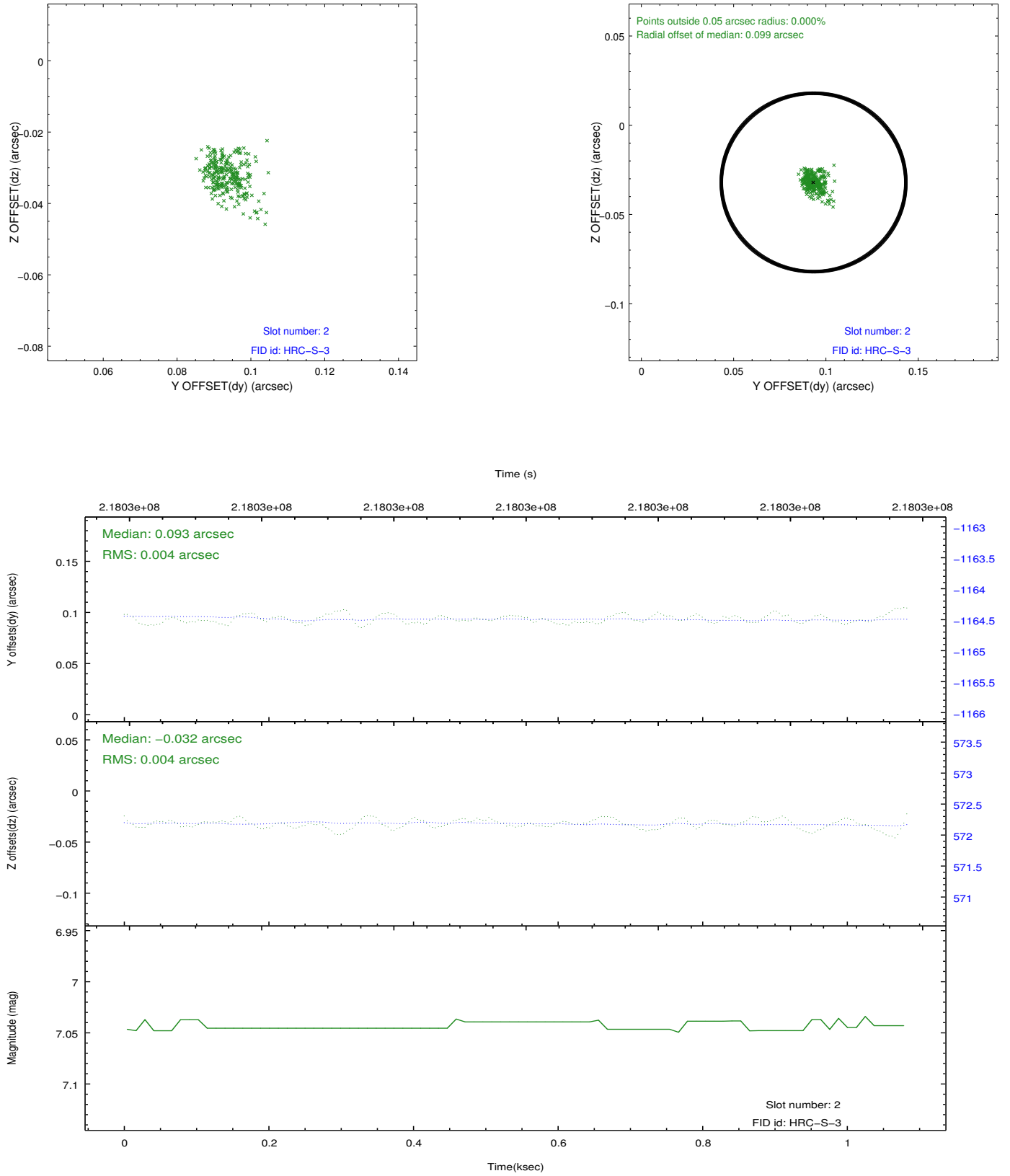
### 2.5.1 Slot 0



## 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)	2013.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.05293129

### **A.2 Comments**