

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9670 - L2 Version 3  
Chandra X-Ray Center

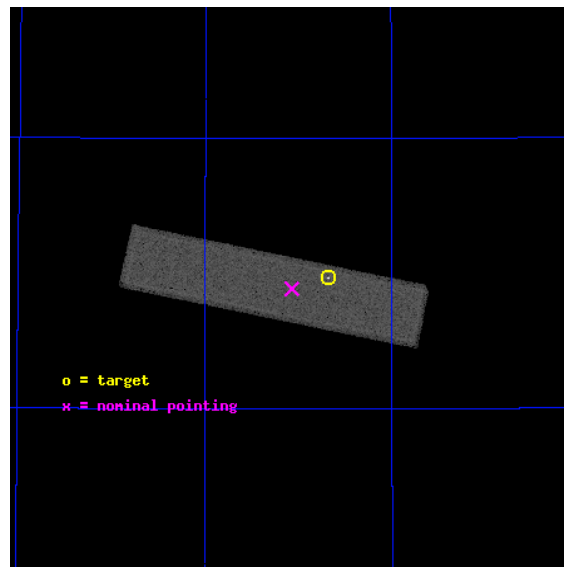
L2 Processing Date : Aug 12 2012

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# 1 Front

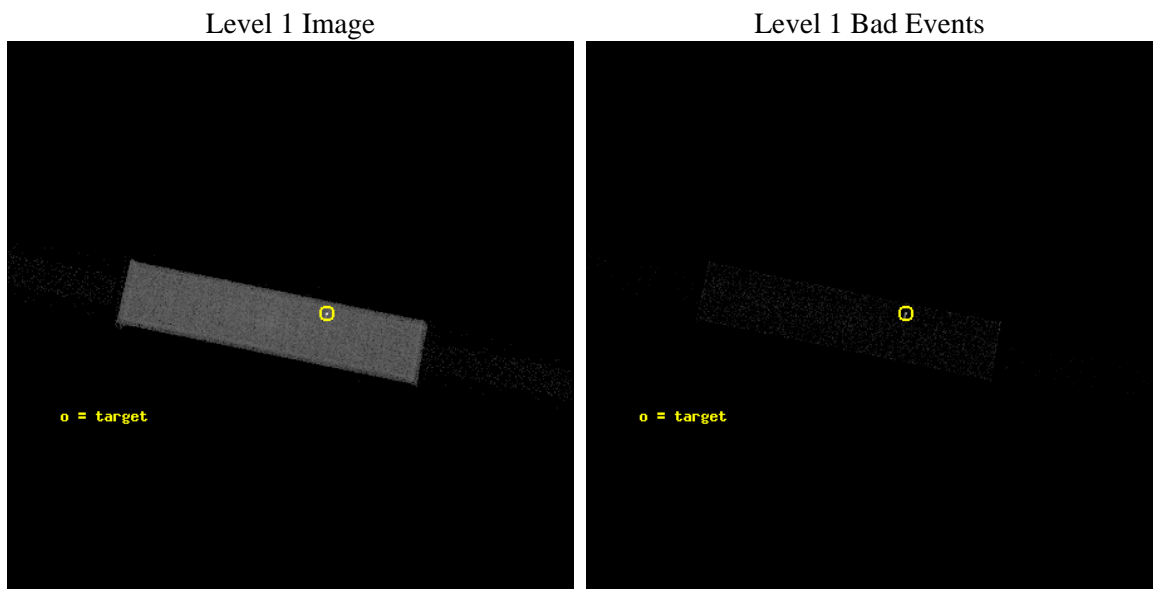
seq_num	290793	Sequence number
obs_id	9670	Observation id
title	AO9 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.26735139888	Nominal RA [deg]
dec_nom	45.722320174782	Nominal Dec [deg]
roll_nom	191.46734771142	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1329.4250653386	[s]
livetime	1317.5676508827	Ontime multiplied by DTCOR
l2events	84922	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	1180.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1329.4250653386	[s]
caldsver	4.5.1.1	&#160	l1events	130552	Number of level 1 events
date	2012-08-12T17:55:18	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

Level 1 Events

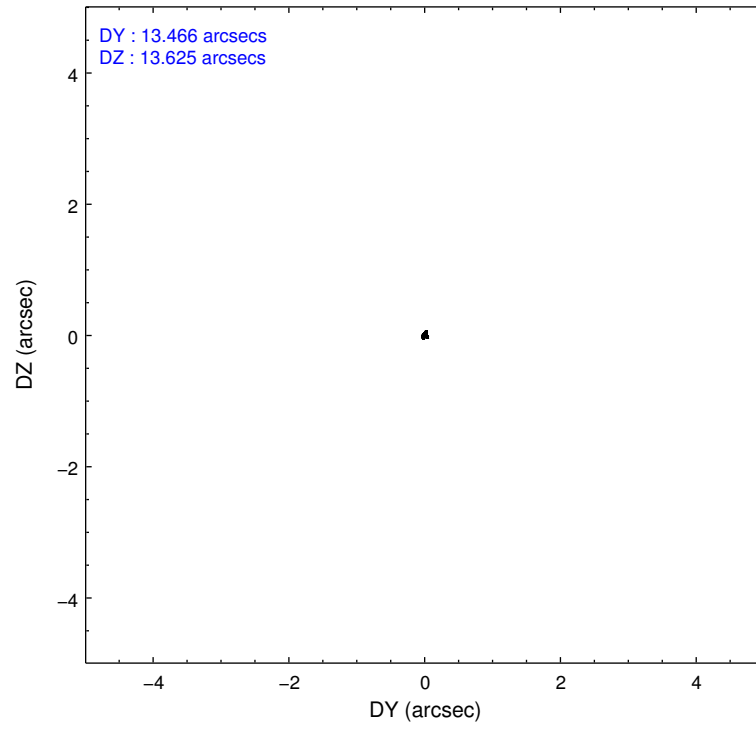
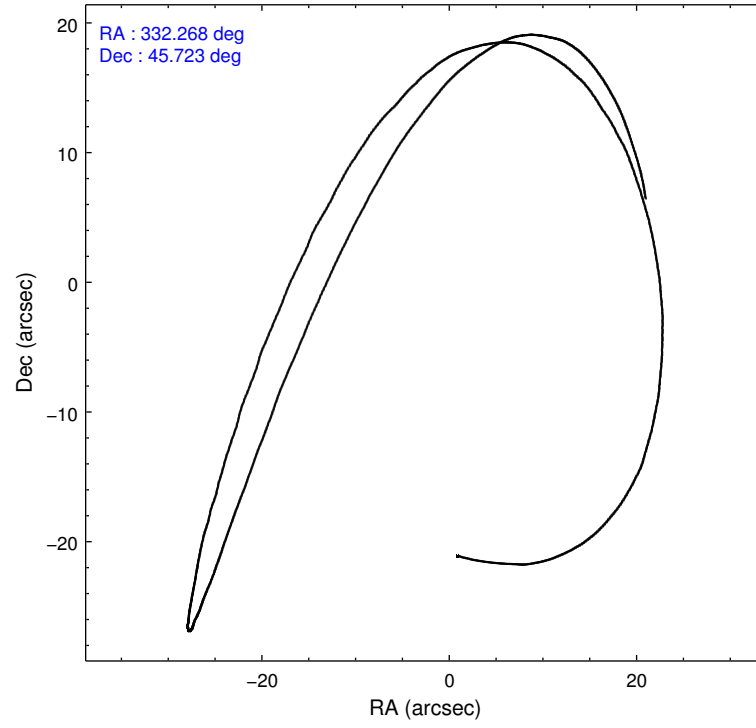
	segment 1	segment 2	segment 3
level 1 events	1009	128544	999
rejected events	1009	26598	999
rejected %	100%	20%	100%

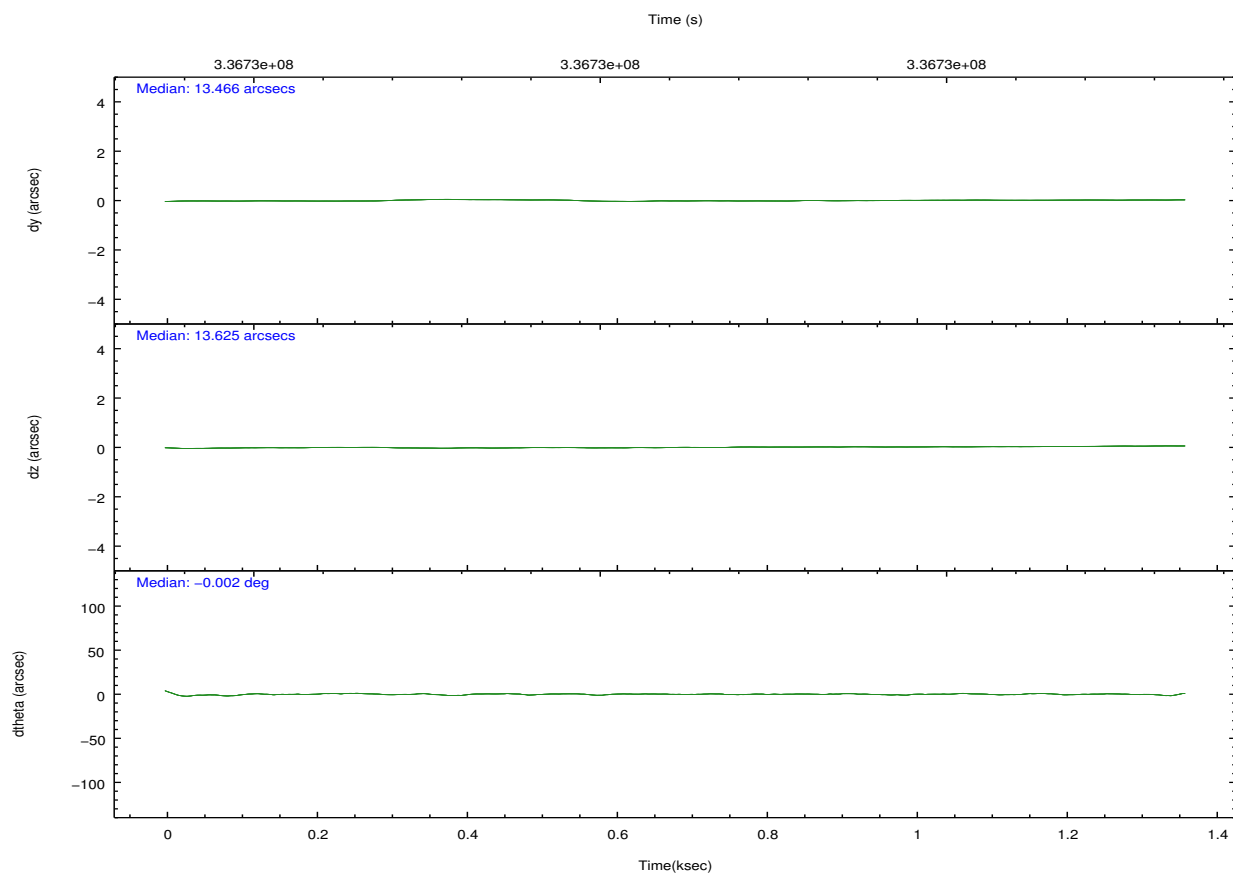
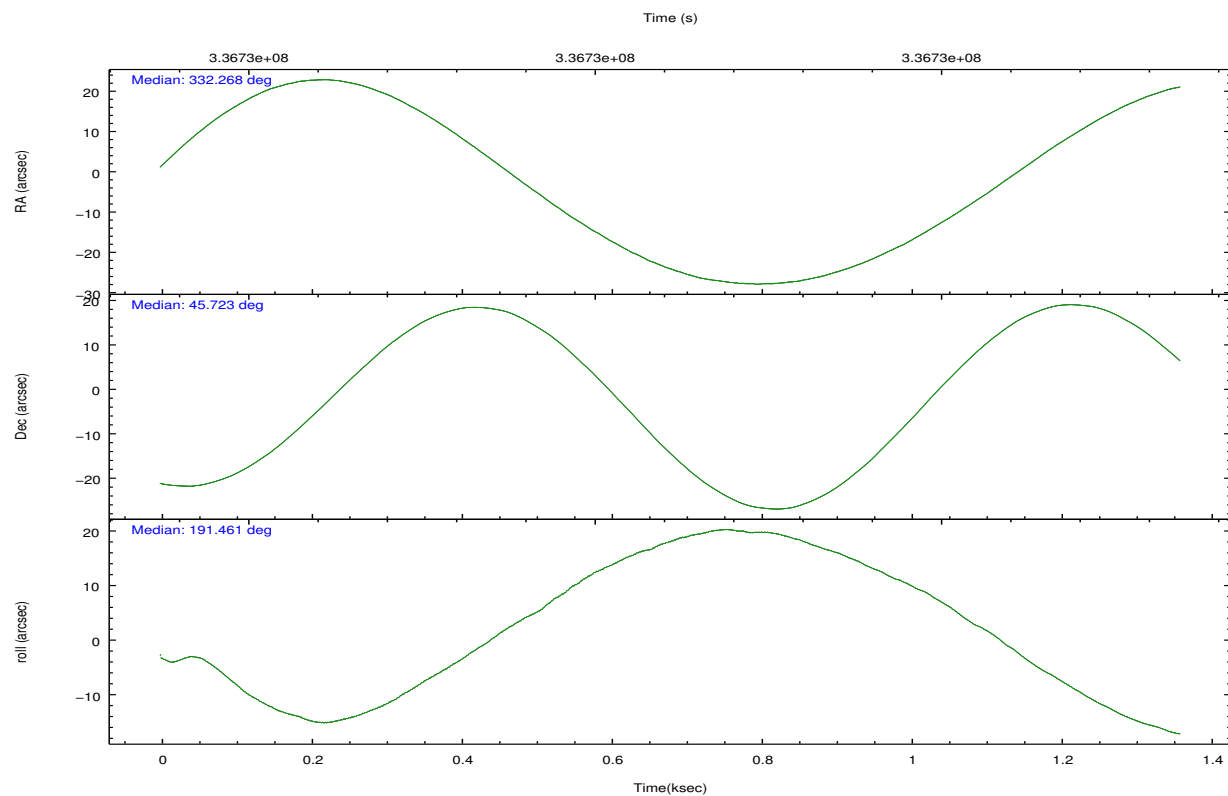
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.295796	332.2673513988791
[deg] Pointing Dec	45.742018	45.72232017478176
[deg] Pointing Roll	191.379611	191.4673477114164
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	336728113.184000	336727736.57099
Observation start date	2008-09-02T07:34:08	2008-09-02T07:28:56
[s] Observation end time (MET)	336729293.184000	336729426.79607
Observation end date	2008-09-02T07:53:48	2008-09-02T07:57:06

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect





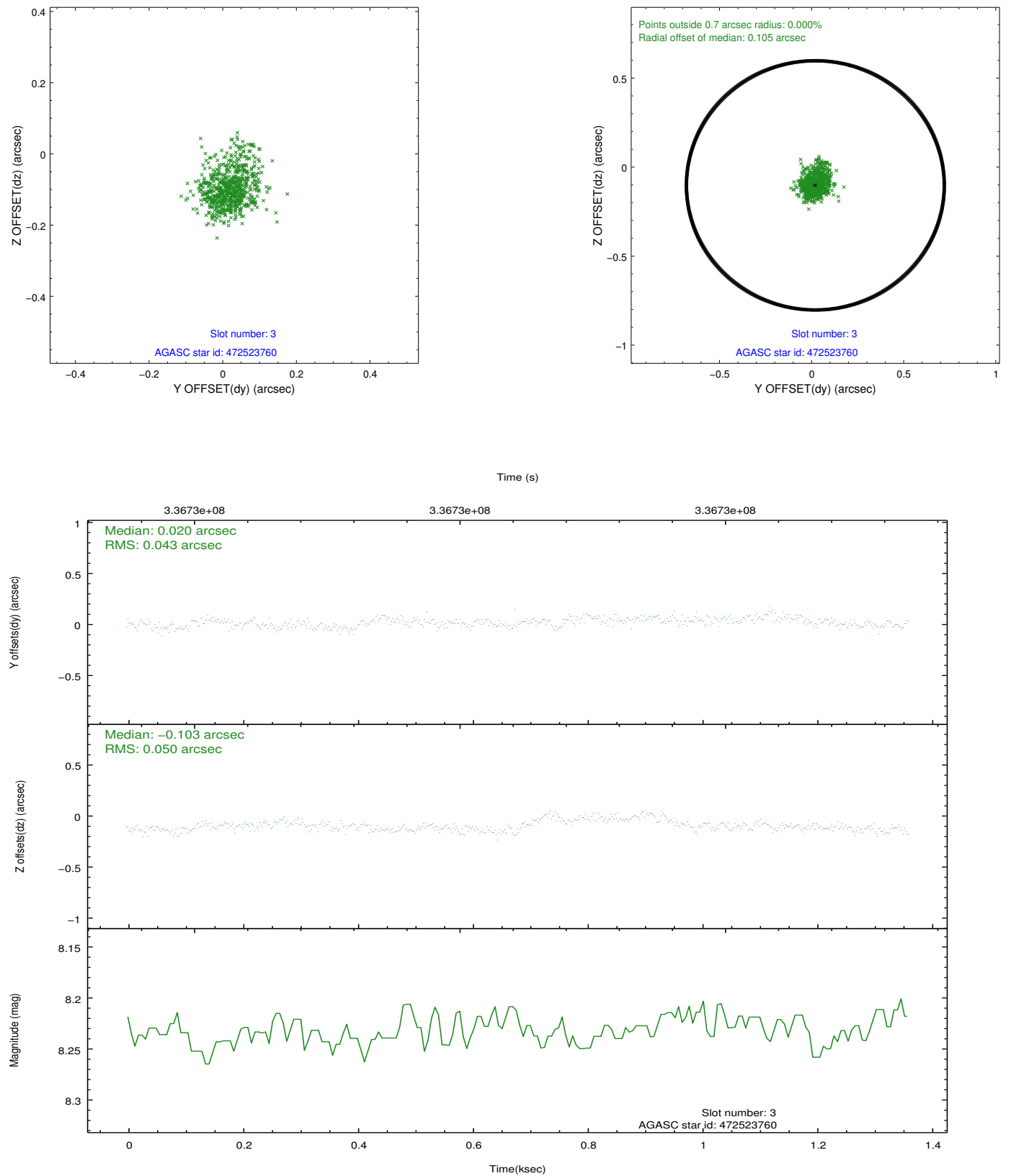
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-2	7.00	332	0.152	-0.096	0.009	0.016	0.000000	0.000000	1231.90	-455.04
1	FID	HRC-S-3	7.02	332	0.029	-0.091	0.005	0.012	0.000000	0.000000	-1166.87	565.81
2	FID	HRC-S-4	6.95	332	0.225	-0.108	0.010	0.016	0.000000	0.000000	1227.06	571.37
3	GUIDE	472523760	8.23	665	0.020	-0.103	0.070	0.120	331.645363	45.403260	1853.98	865.64
4	GUIDE	472525528	6.62	665	-0.326	-0.097	0.085	0.131	331.551102	45.248694	2204.29	1362.39
5	GUIDE	472535576	7.87	665	-0.099	0.042	0.080	0.131	331.438373	46.291802	1704.60	-2369.32
6	GUIDE	472655152	9.44	662	0.230	0.064	0.116	0.194	332.504239	45.862991	-592.54	-327.03
7	GUIDE	472665256	9.00	664	0.190	0.097	0.092	0.153	332.808125	46.195041	-1571.91	-1350.65

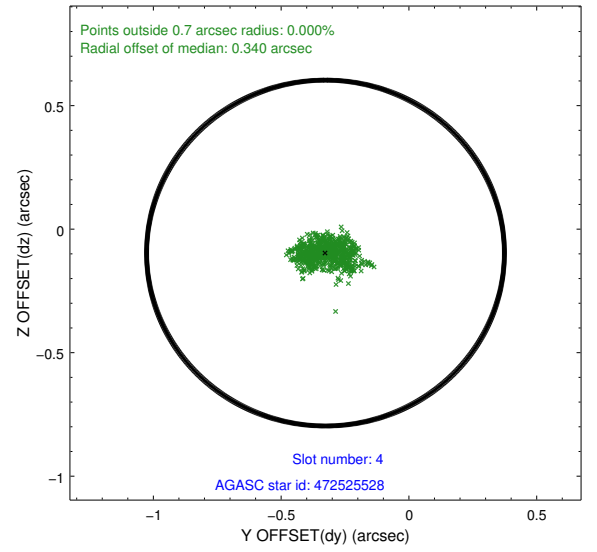
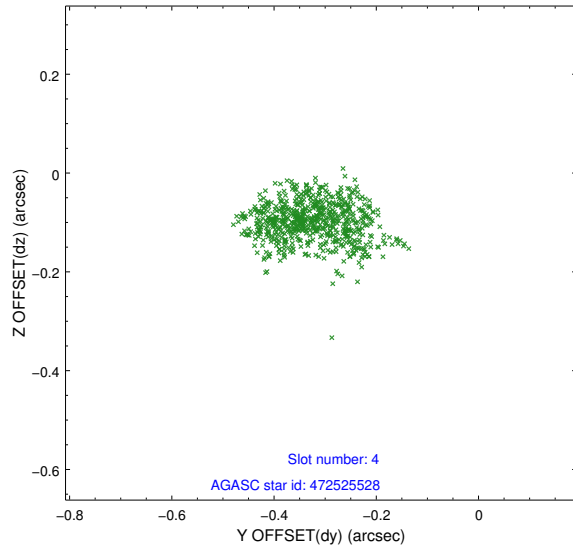


## 2.4 Star Slots

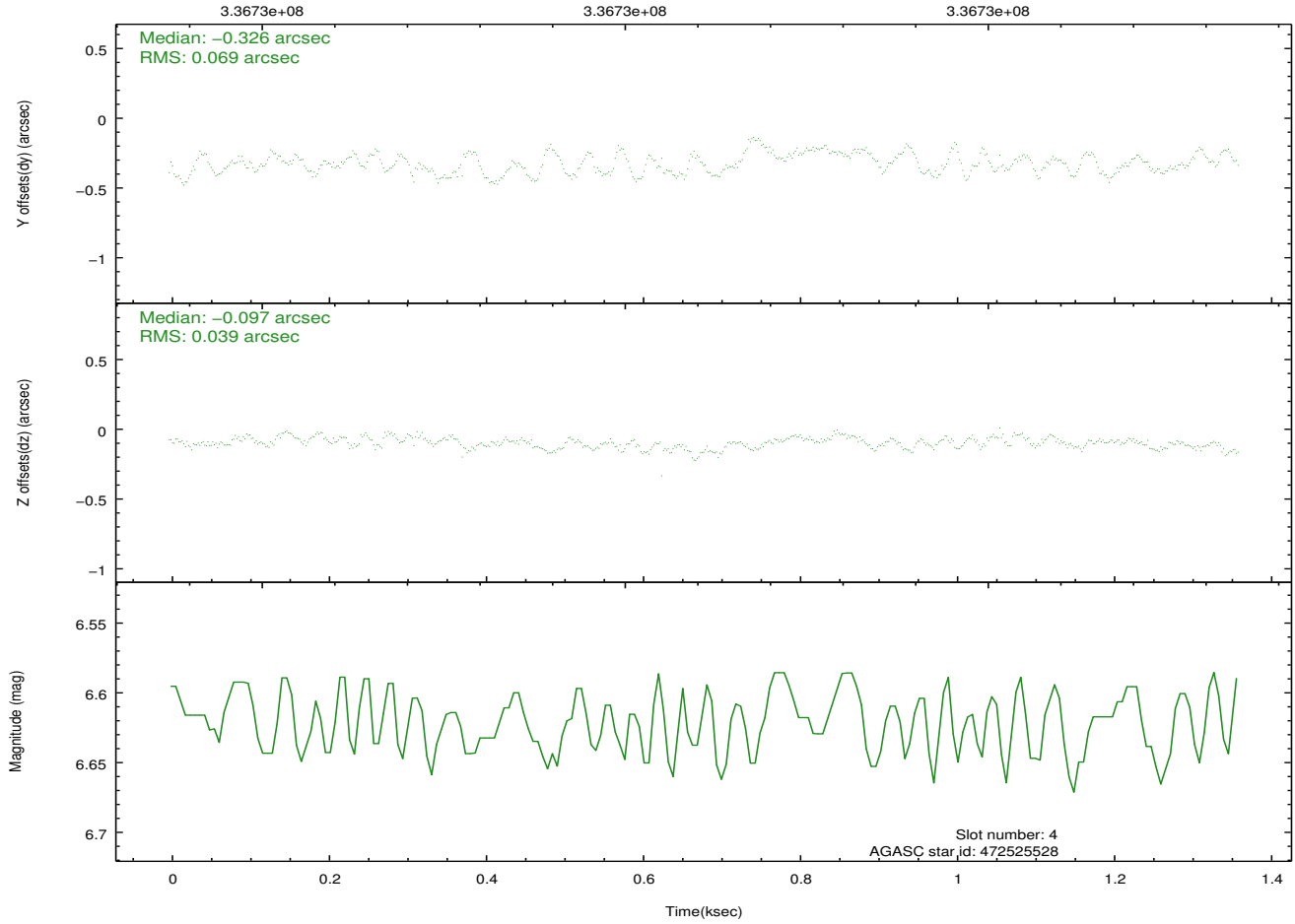
### 2.4.1 Slot 3



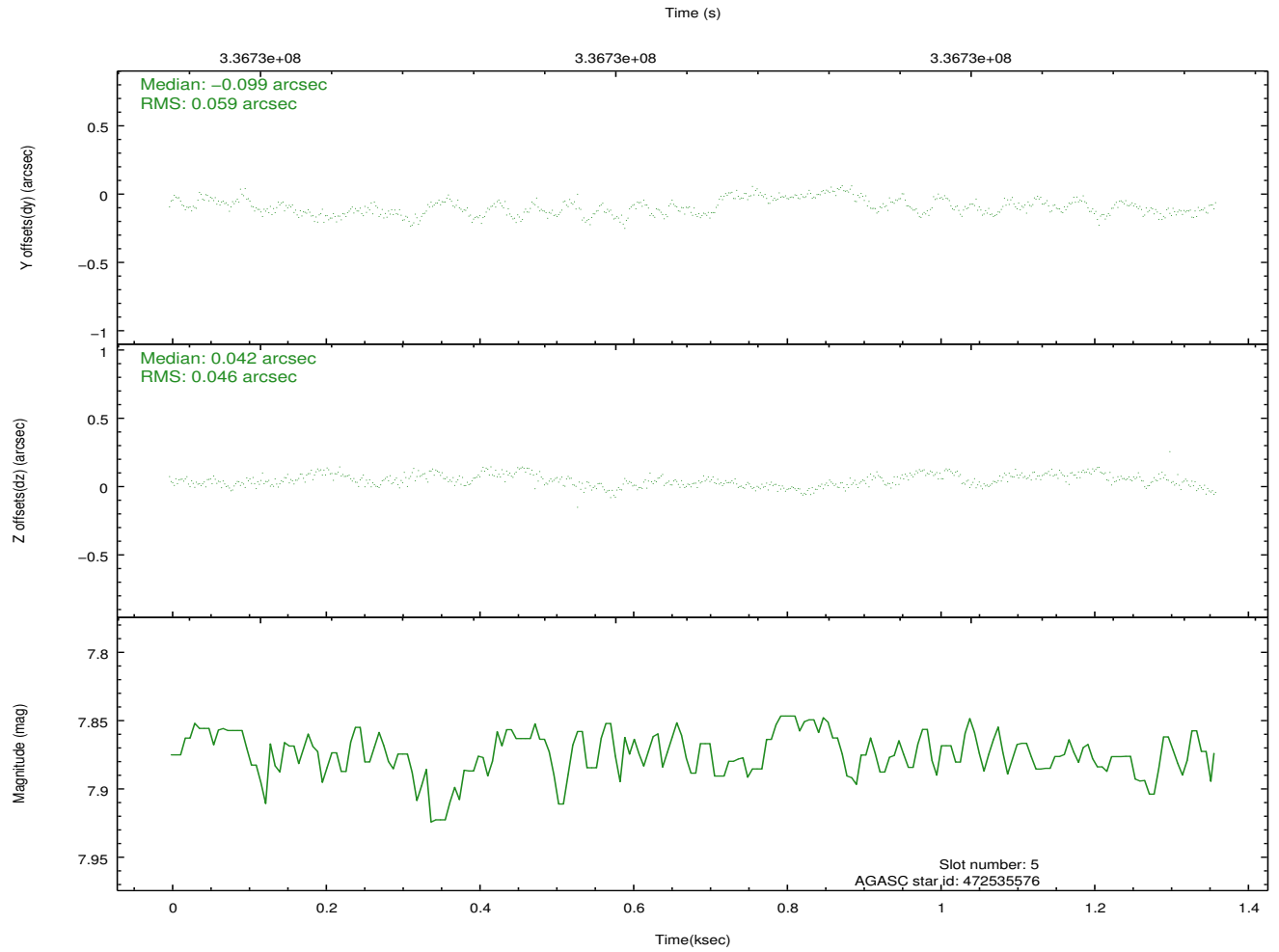
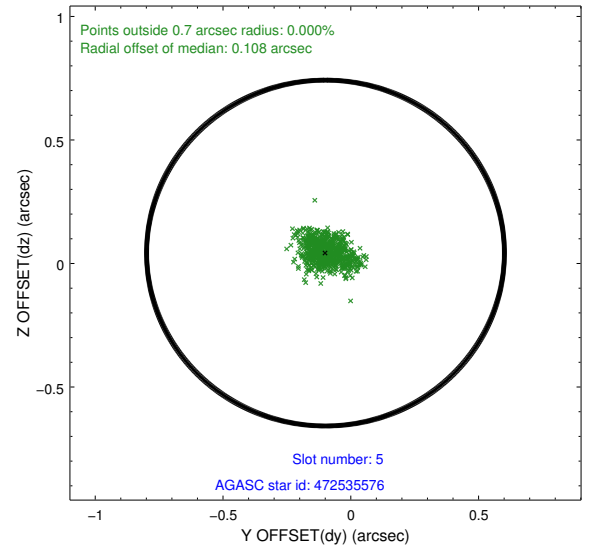
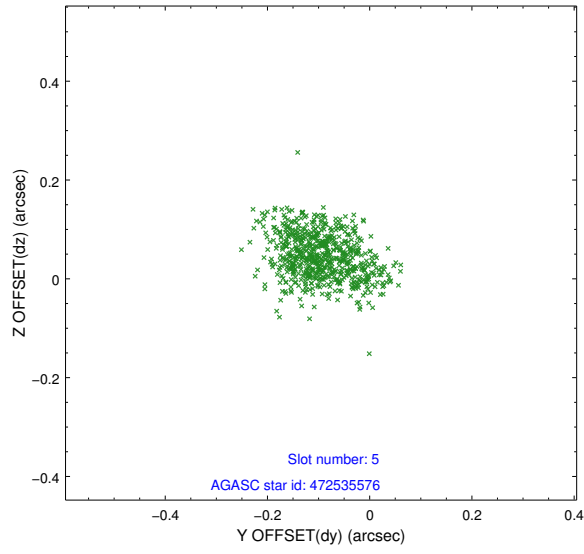
## 2.4.2 Slot 4



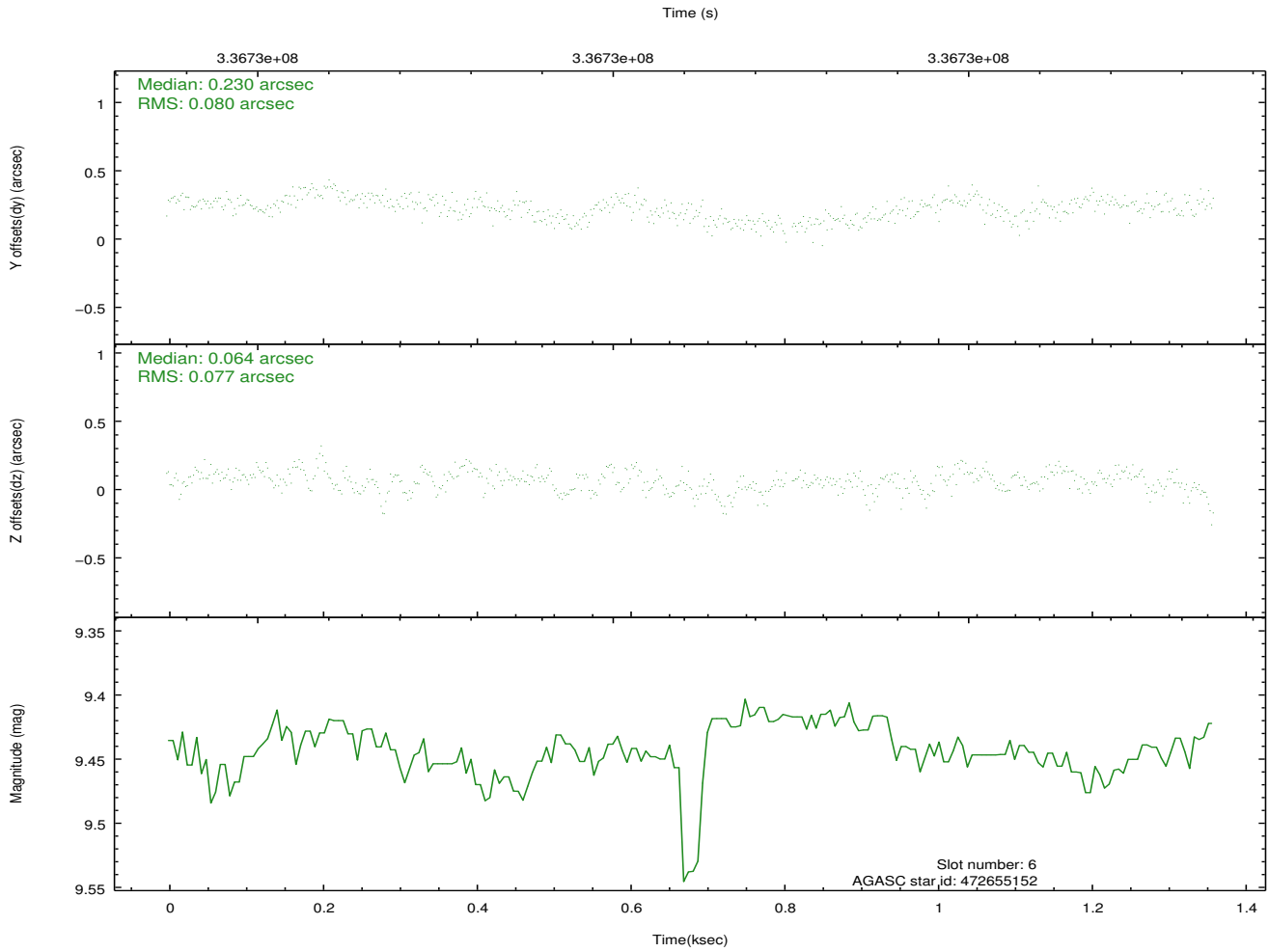
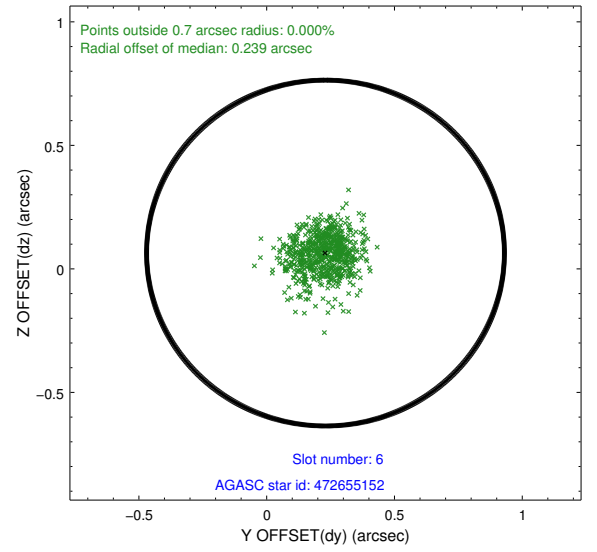
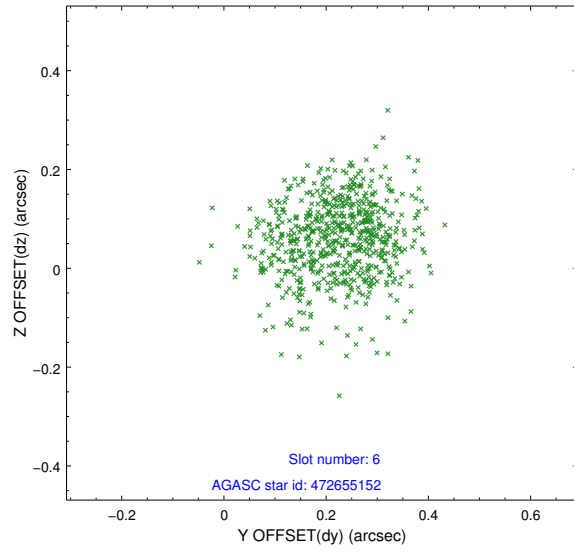
Time (s)



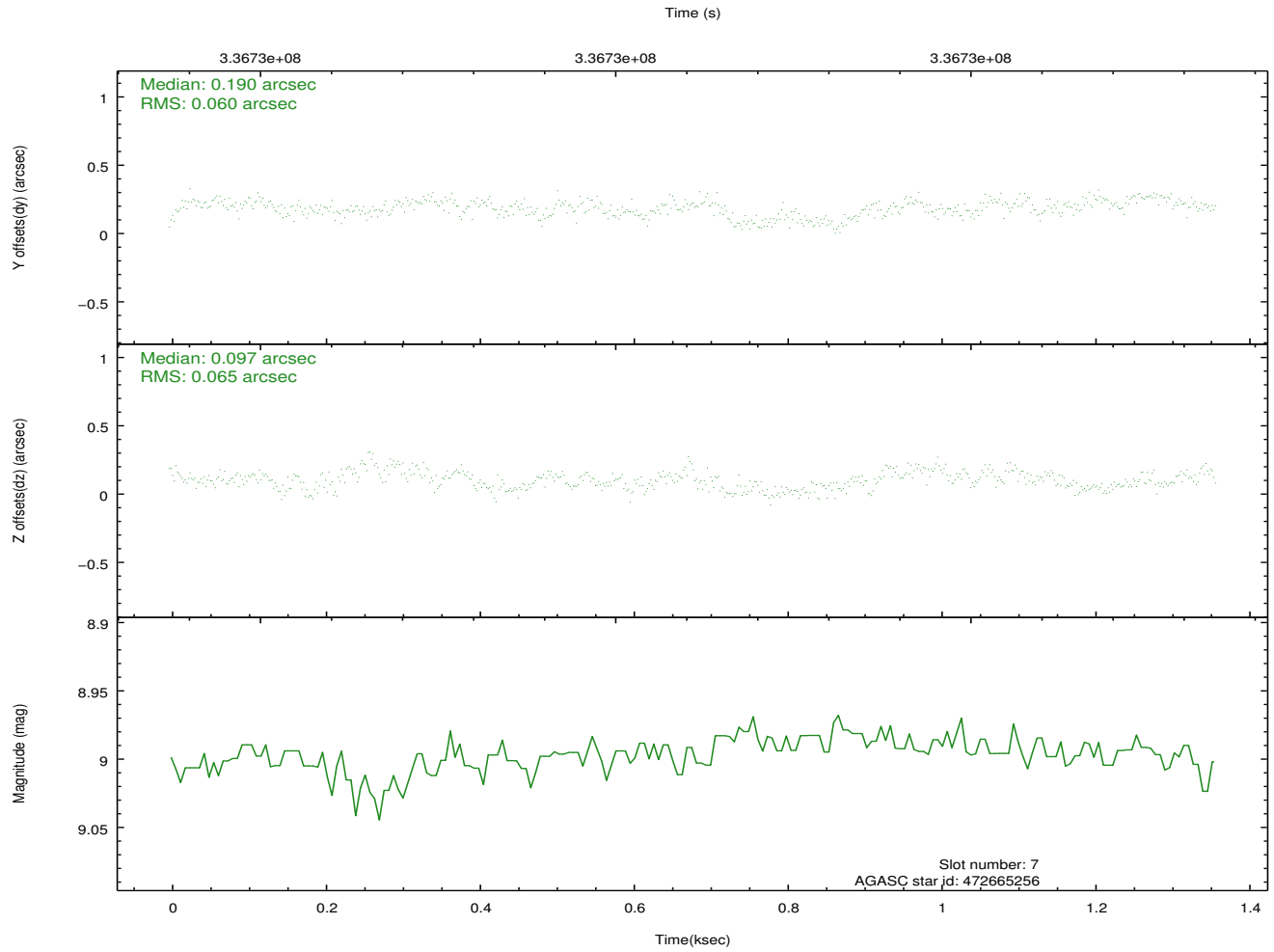
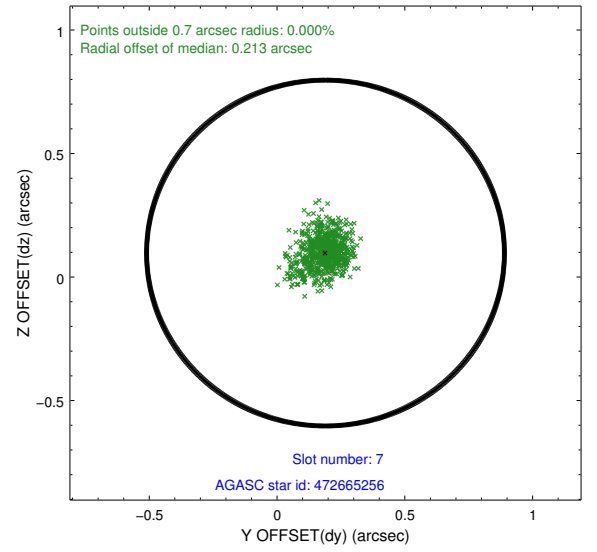
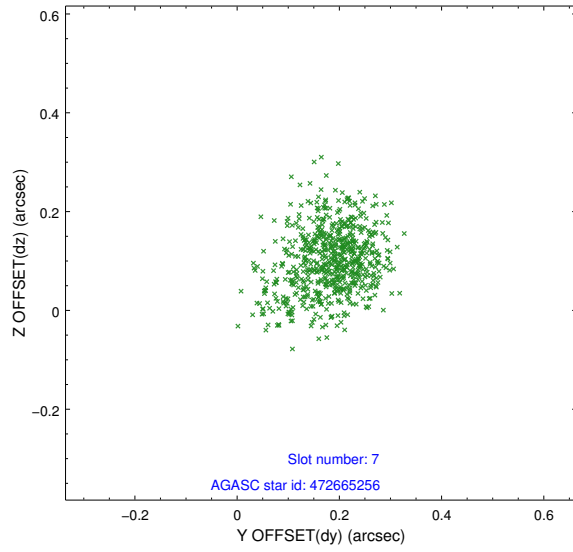
### 2.4.3 Slot 5



## 2.4.4 Slot 6

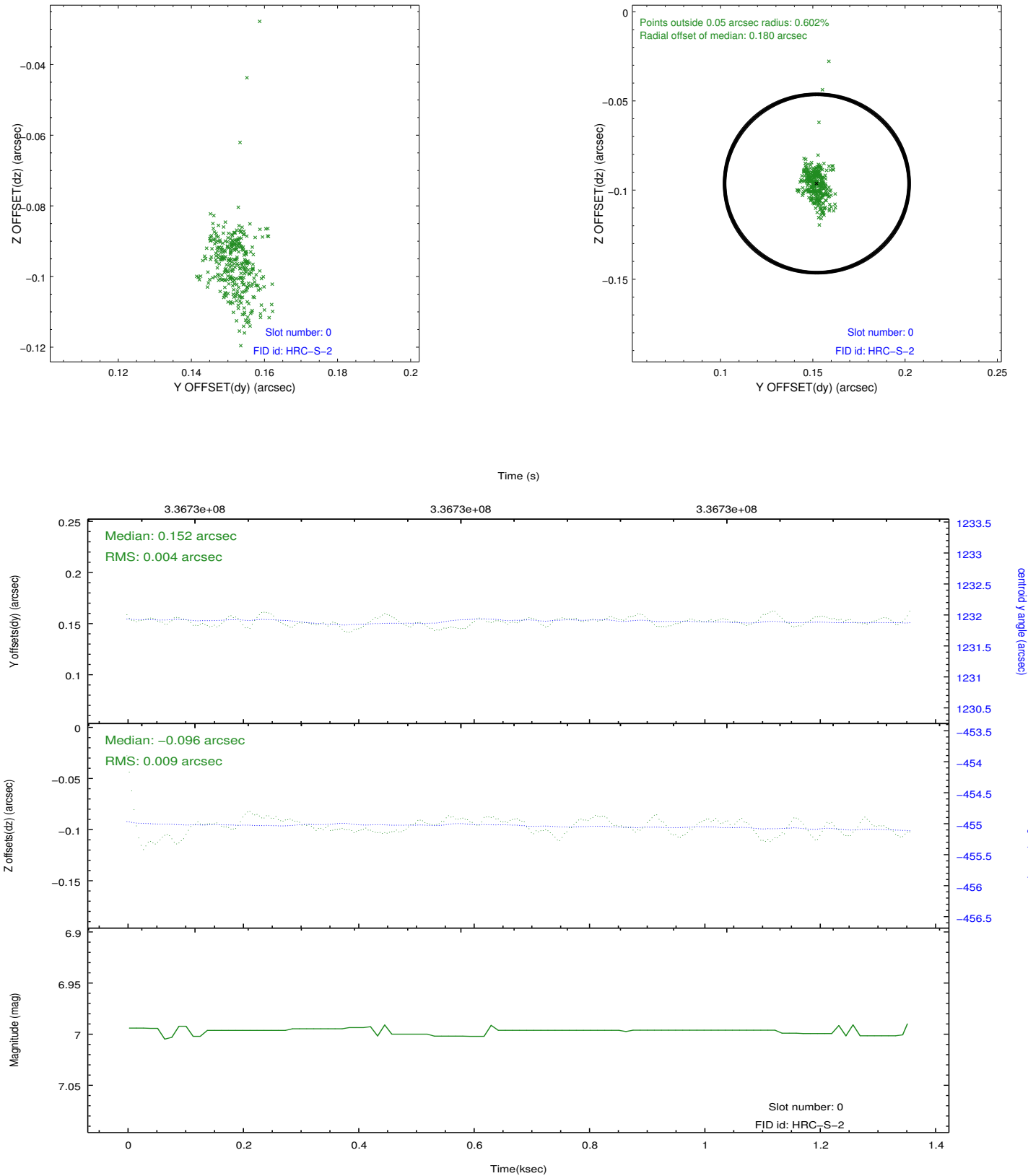


## 2.4.5 Slot 7

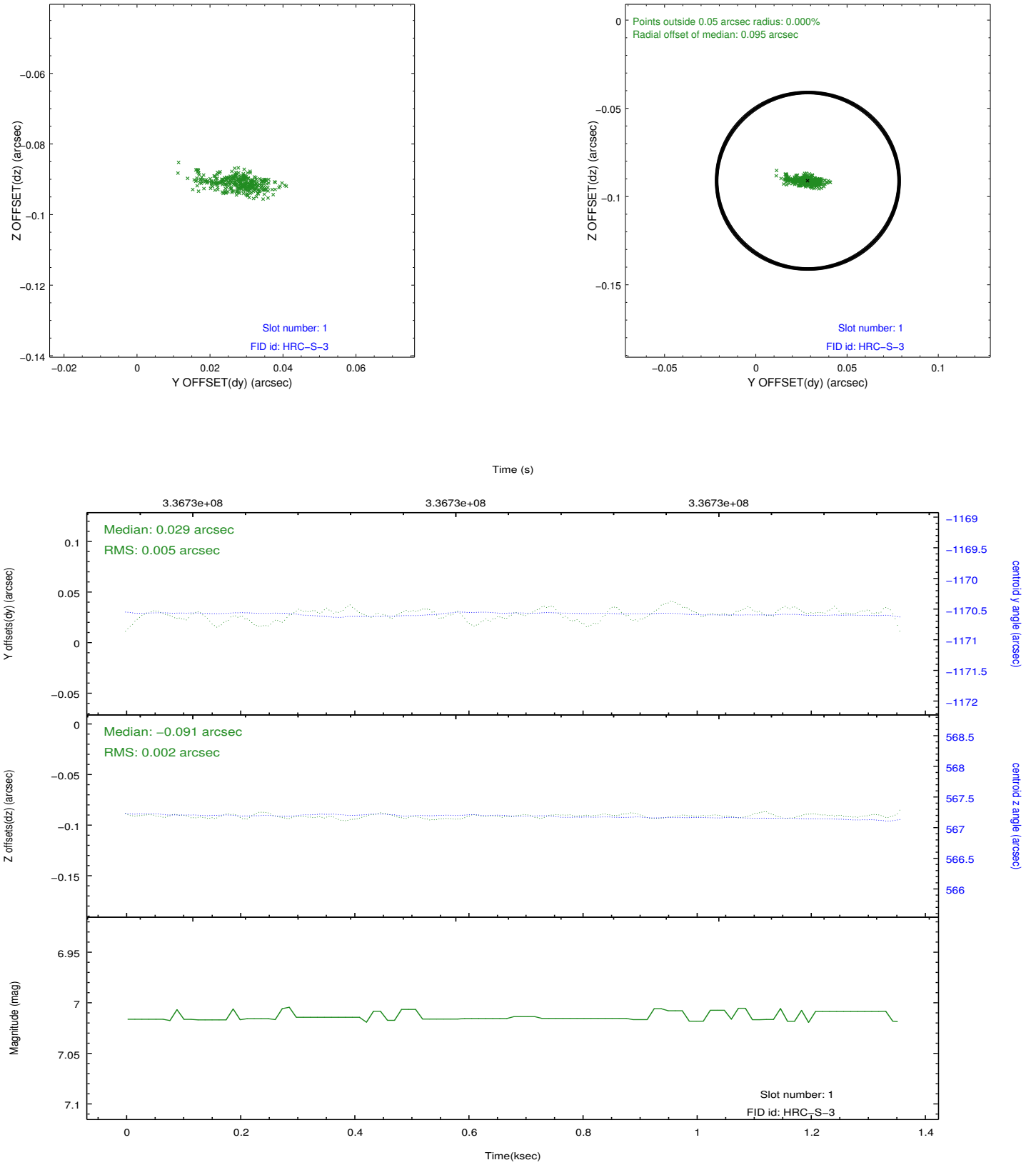


## 2.5 FID Slots

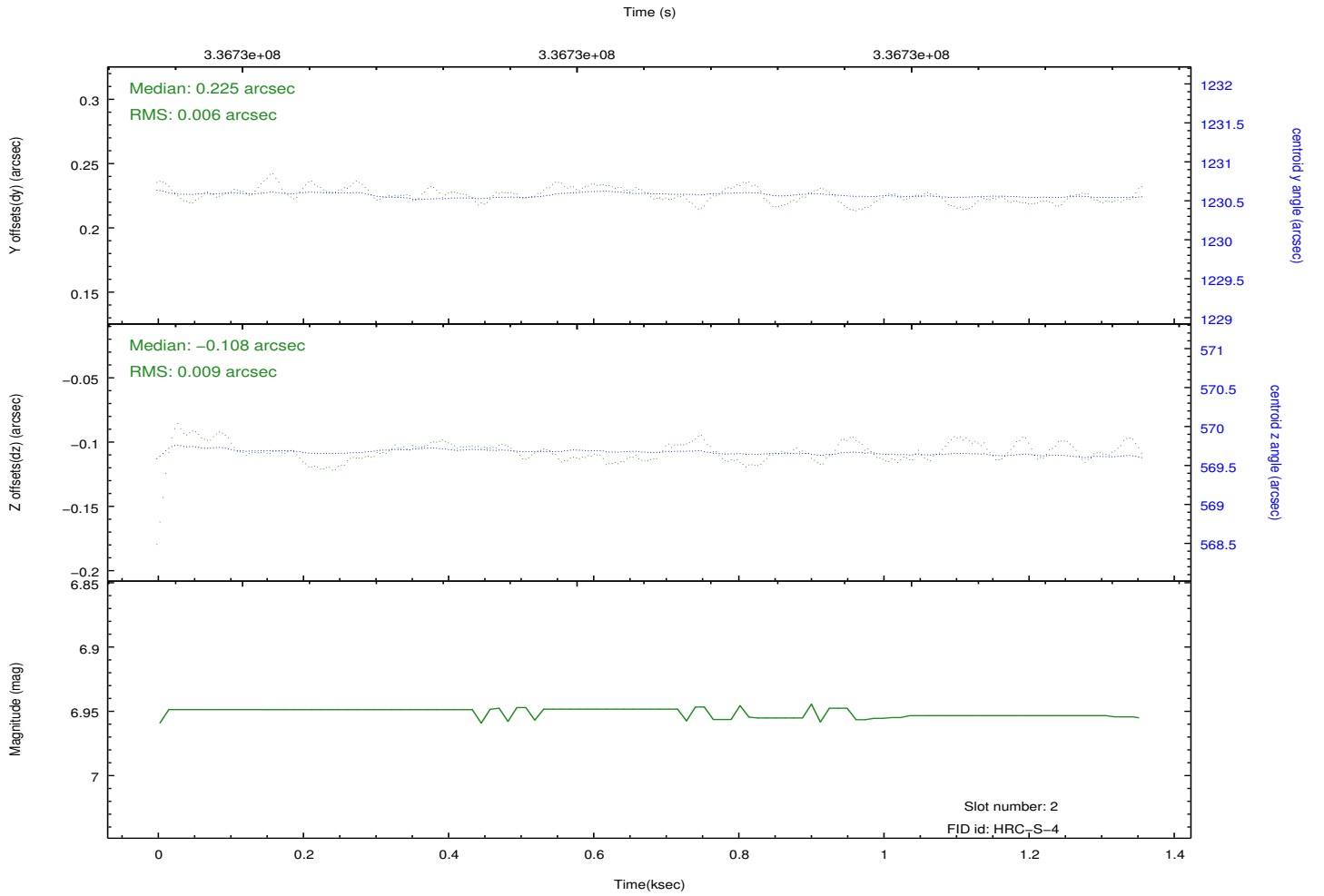
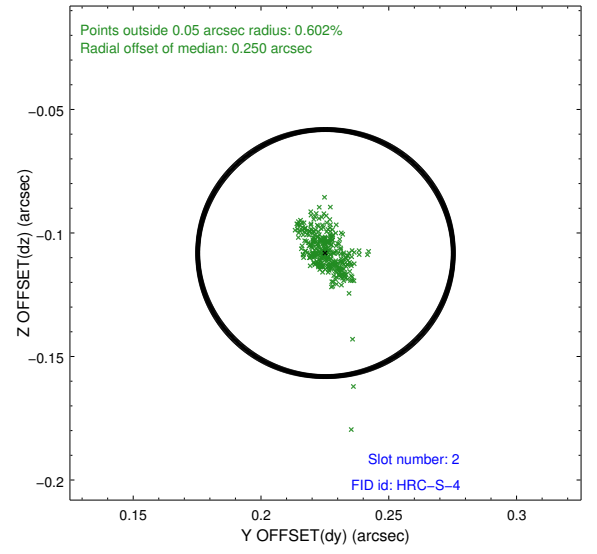
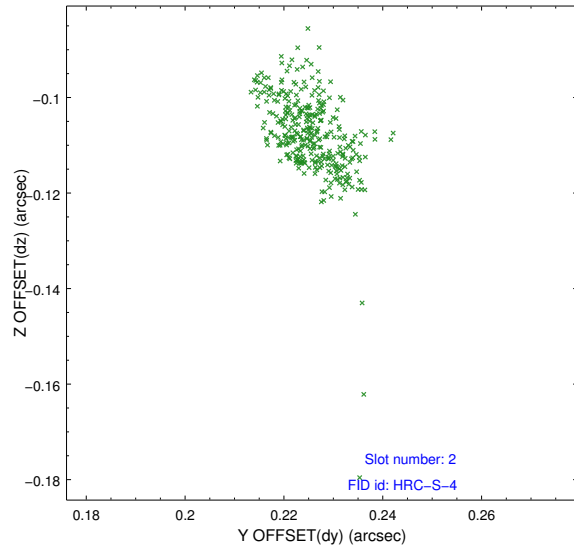
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.08.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.32942506

### A.2 Comments