

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9679 - L2 Version 3  
Chandra X-Ray Center

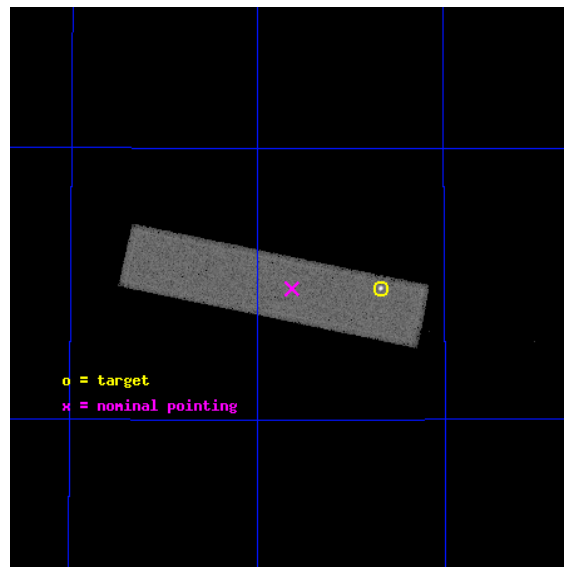
L2 Processing Date : Aug 12 2012

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# 1 Front

seq_num	290802	Sequence number
obs_id	9679	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	332.40793005358	Nominal RA [deg]
dec_nom	45.741583567037	Nominal Dec [deg]
roll_nom	191.49640411327	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1337.8813157082	[s]
livetime	1326.015383384	Ontime multiplied by DTCOR
l2events	84665	Number of level 2 events

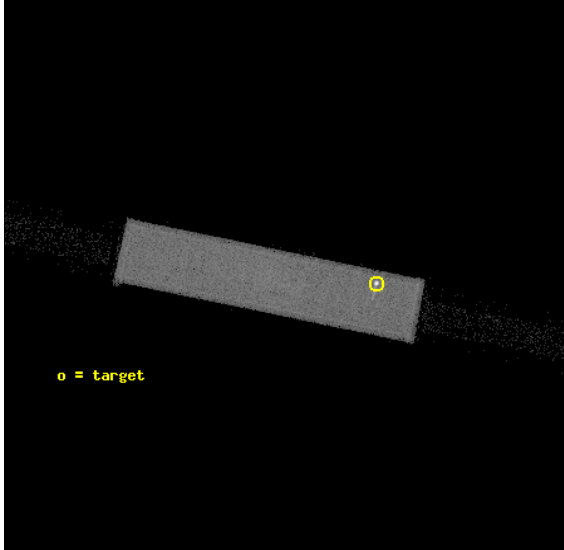


## 2 OBI

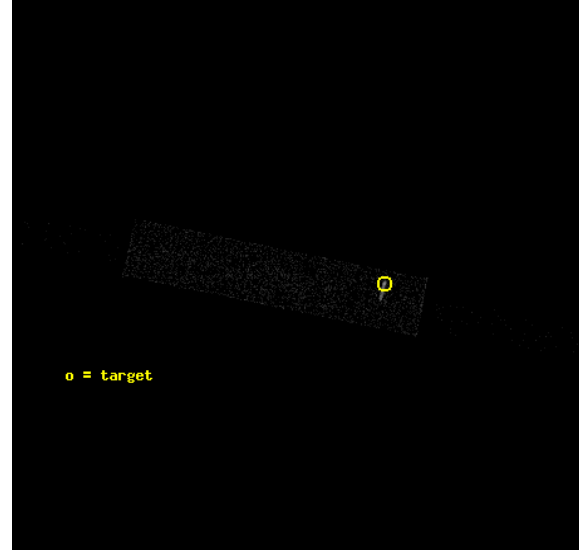
### 2.1 OBI

#### 2.1.1 Images

Level 1 Image



Level 1 Bad Events



## 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	1337.8813157082	[s]
caldbver	4.5.1.1	&#160	l1events	129839	Number of level 1 events
date	2012-08-12T18:13:47	Date and time of file creation			
revision	3	Processing version of data			

## 2.1.3 Events

Level 1 Events

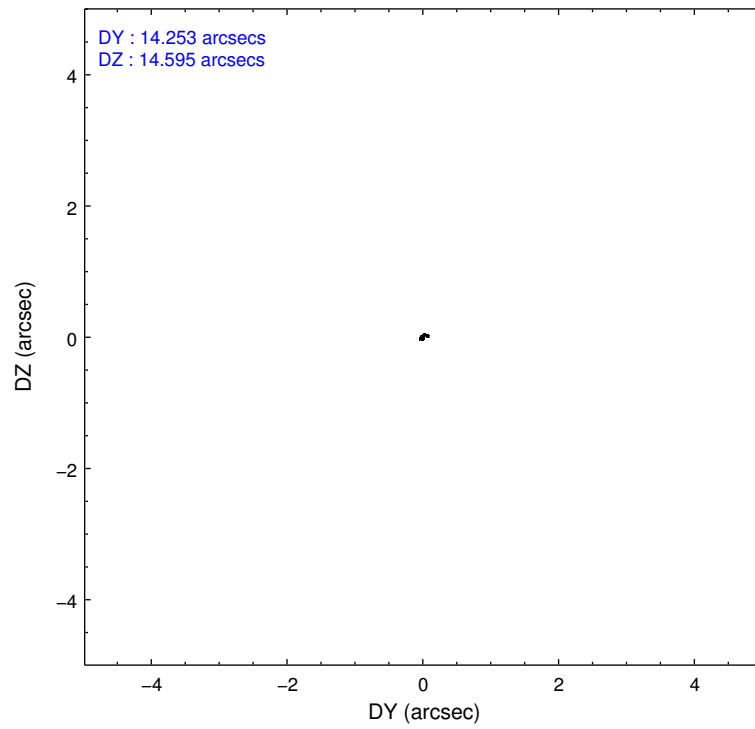
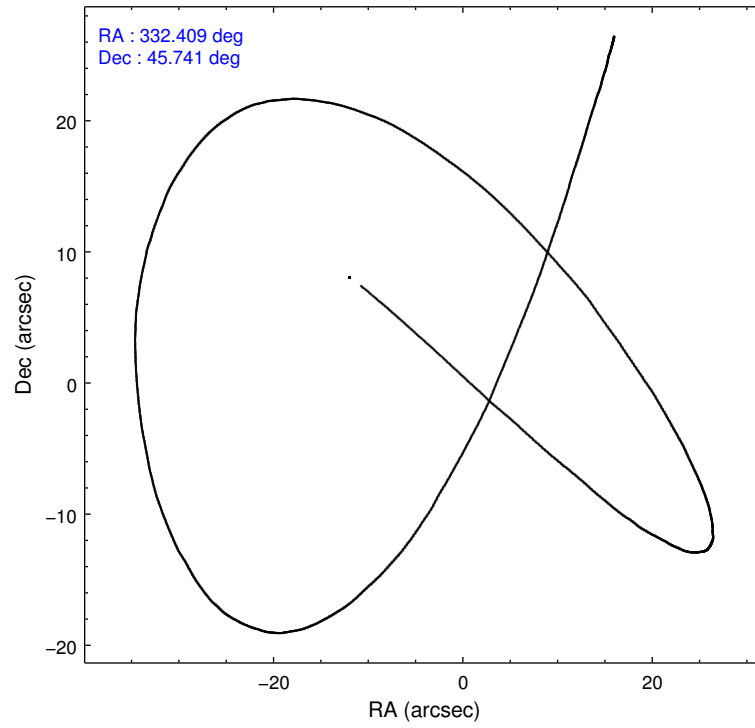
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1052	127705	1082
rejected events	1052	26170	1079
rejected %	100%	20%	99%

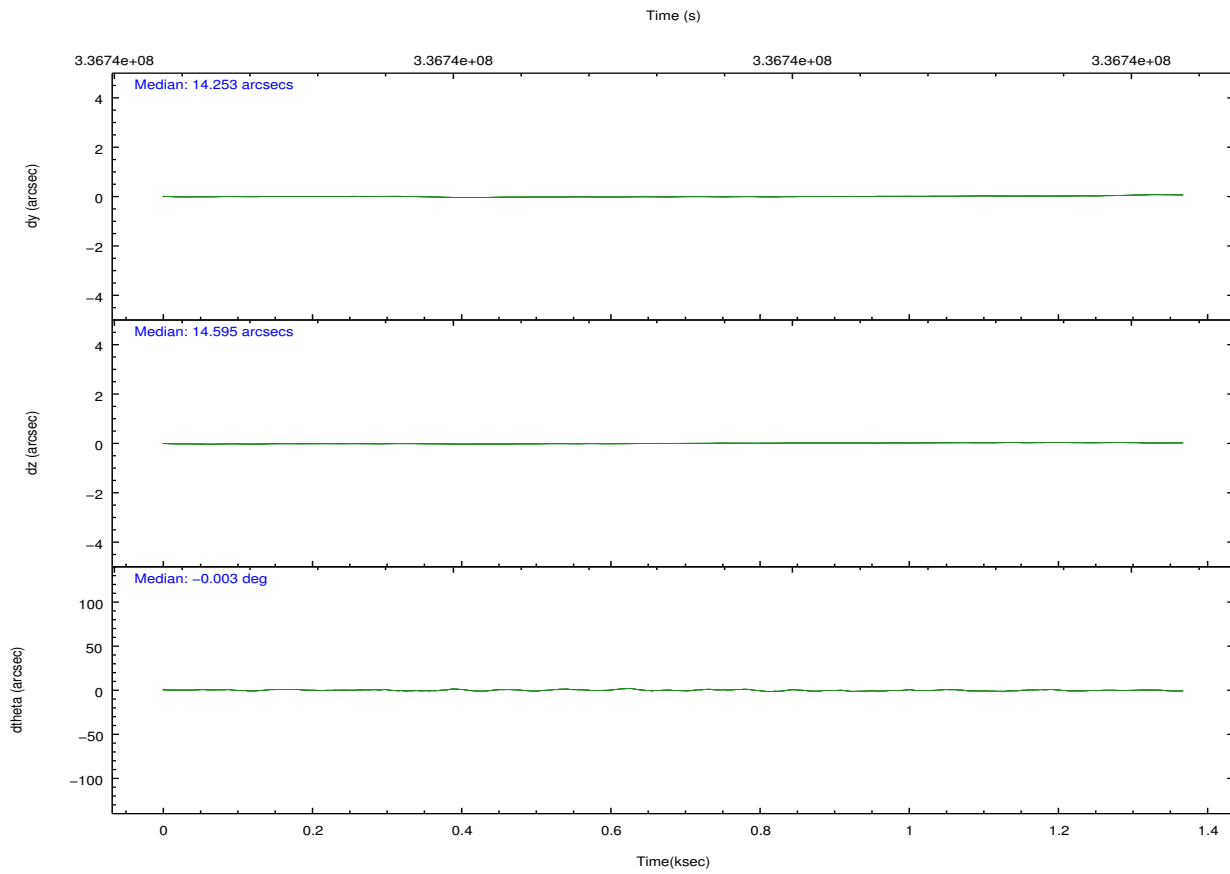
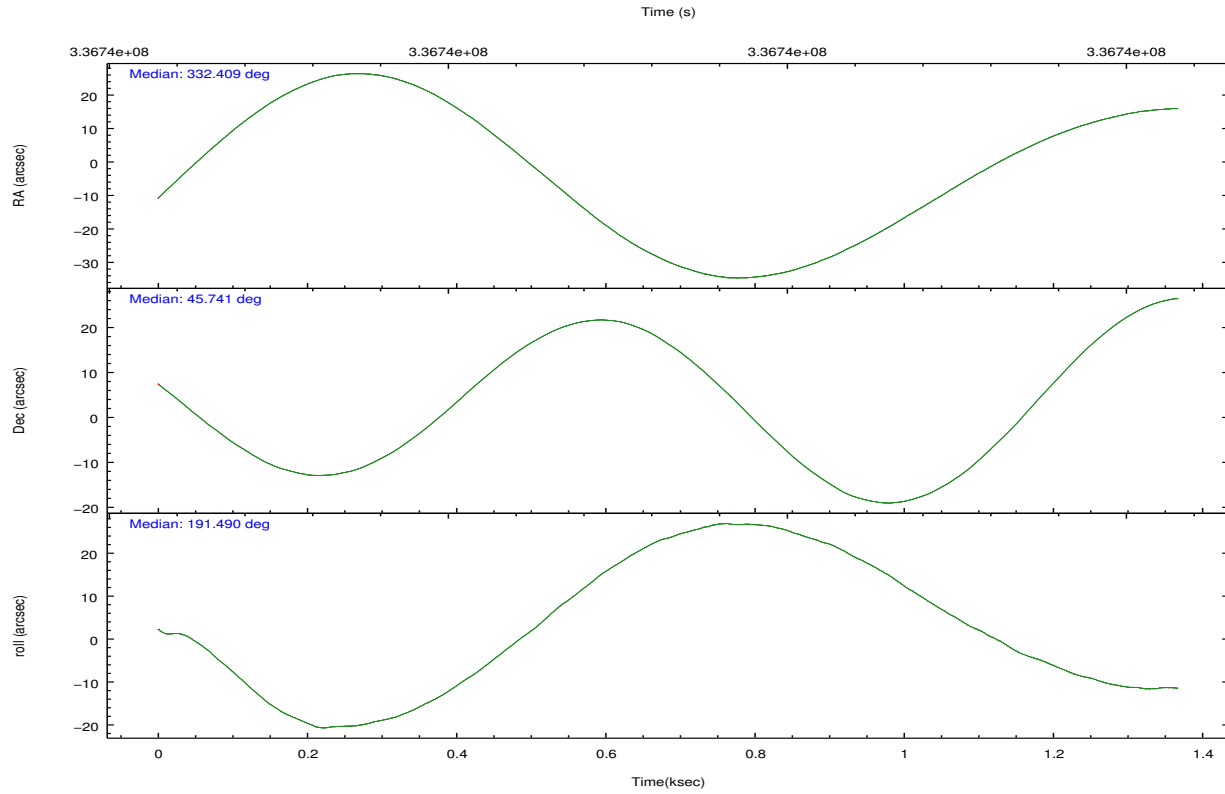
## 2.2 Compared Parameters

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	332.436266	332.4079300535764
[deg] Pointing Dec	45.762085	45.7415835670373
[deg] Pointing Roll	191.408744	191.4964041132734
[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)	336743323.184000	336742946.54673
Observation start date	2008-09-02T11:47:38	2008-09-02T11:42:26
[s] Observation end time (MET)	336744503.184000	336744636.77182
Observation end date	2008-09-02T12:07:18	2008-09-02T12:10:36

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

## 2.3 Aspect





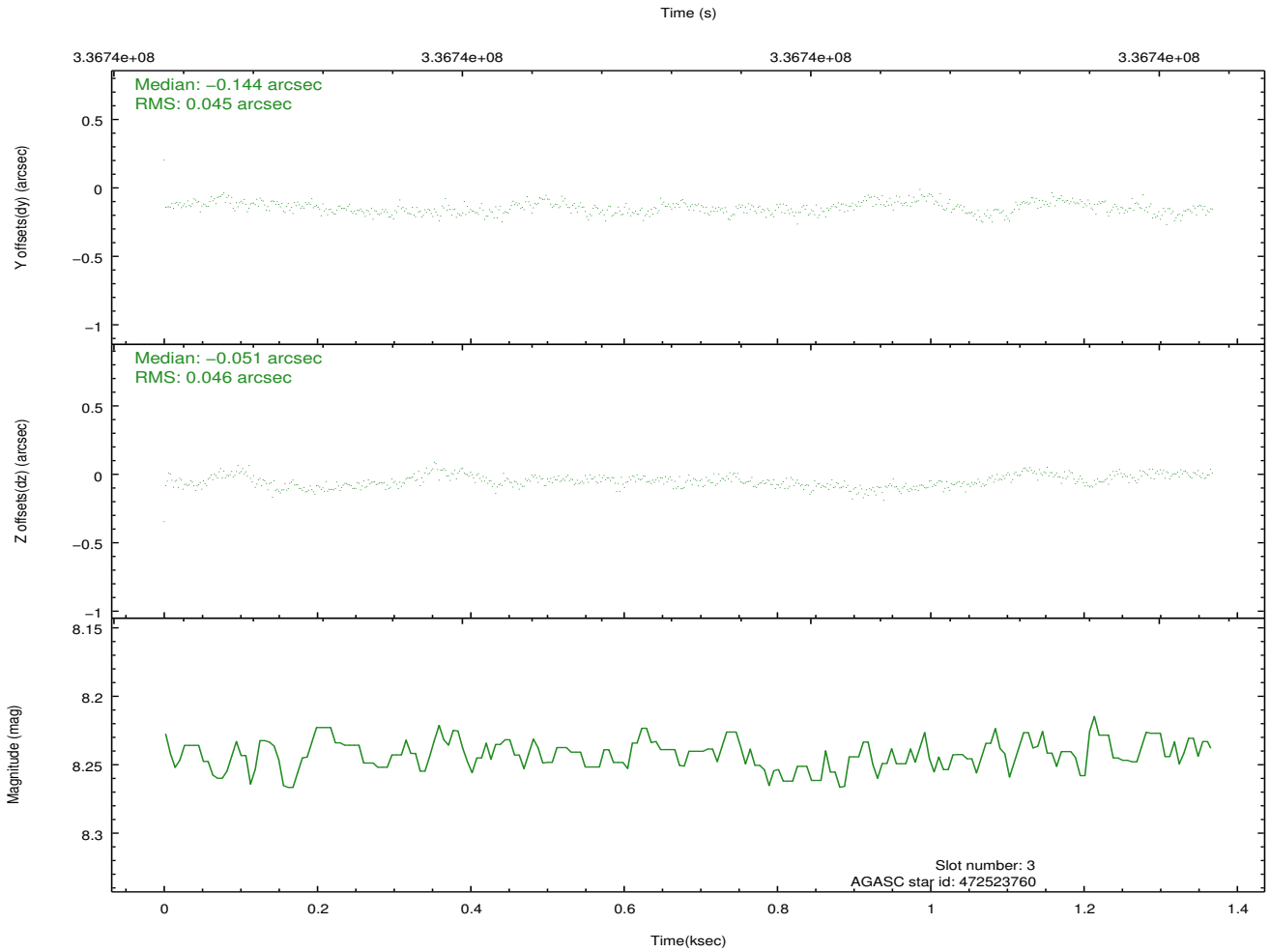
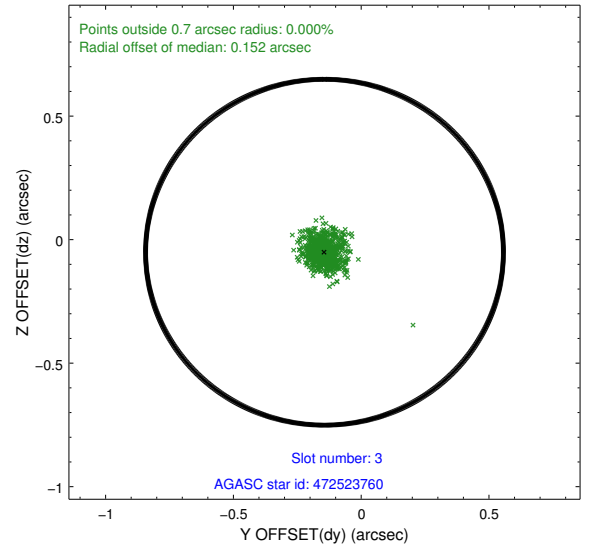
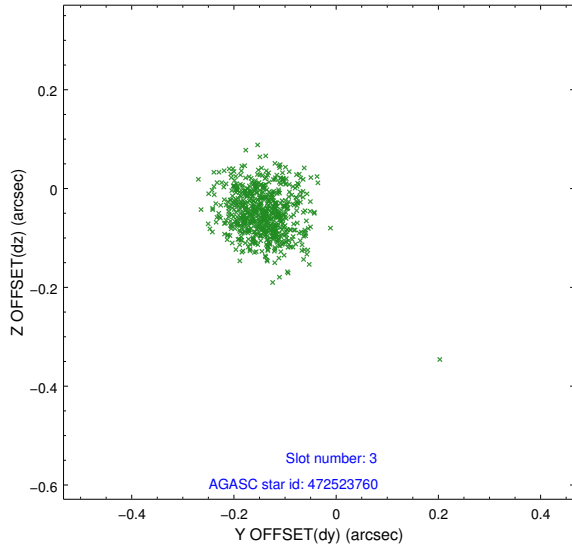
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.02	334	0.082	-0.212	0.008	0.015	0.000000	0.000000	-1168.63	-463.48
1	FID	HRC-S-2	7.00	334	0.202	-0.111	0.004	0.009	0.000000	0.000000	1227.65	-457.42
2	FID	HRC-S-3	7.02	334	0.106	0.020	0.007	0.013	0.000000	0.000000	-1167.65	564.91
3	GUIDE	472523760	8.24	668	-0.144	-0.051	0.068	0.107	331.645363	45.403260	2215.71	859.44
4	GUIDE	472535576	7.89	668	-0.061	-0.015	0.085	0.148	331.438373	46.291802	2059.24	-2376.09
5	GUIDE	472655152	9.43	664	0.167	0.078	0.138	0.229	332.504239	45.862991	-232.87	-327.79
6	GUIDE	472665256	9.01	668	0.107	0.051	0.084	0.142	332.808125	46.195041	-1214.50	-1349.21
7	GUIDE	472654568	9.42	667	-0.056	-0.065	0.112	0.188	332.194449	45.063576	1100.57	2338.47

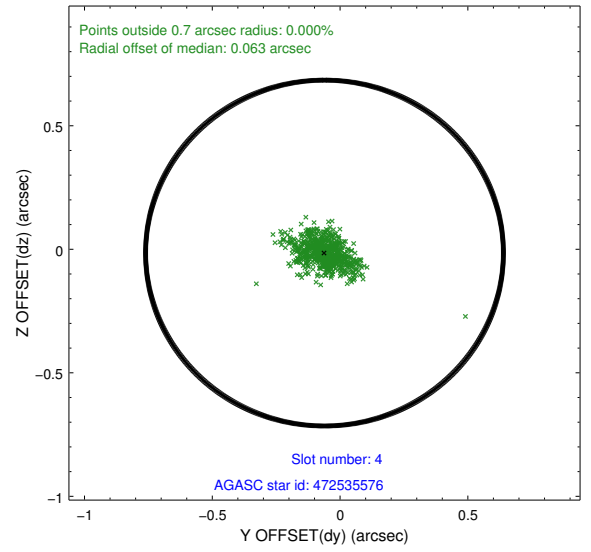
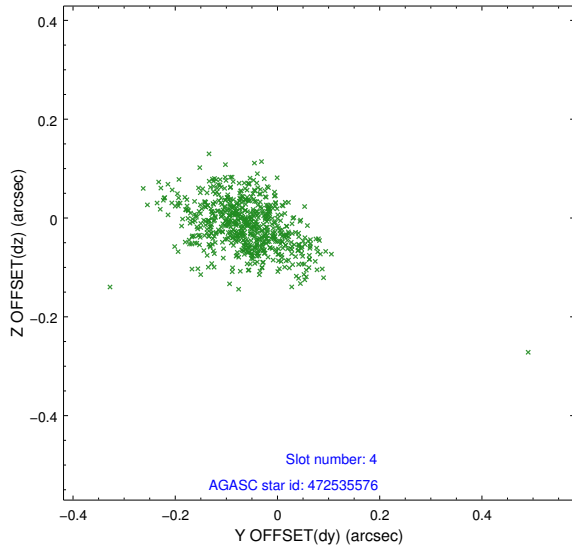
∞

## 2.4 Star Slots

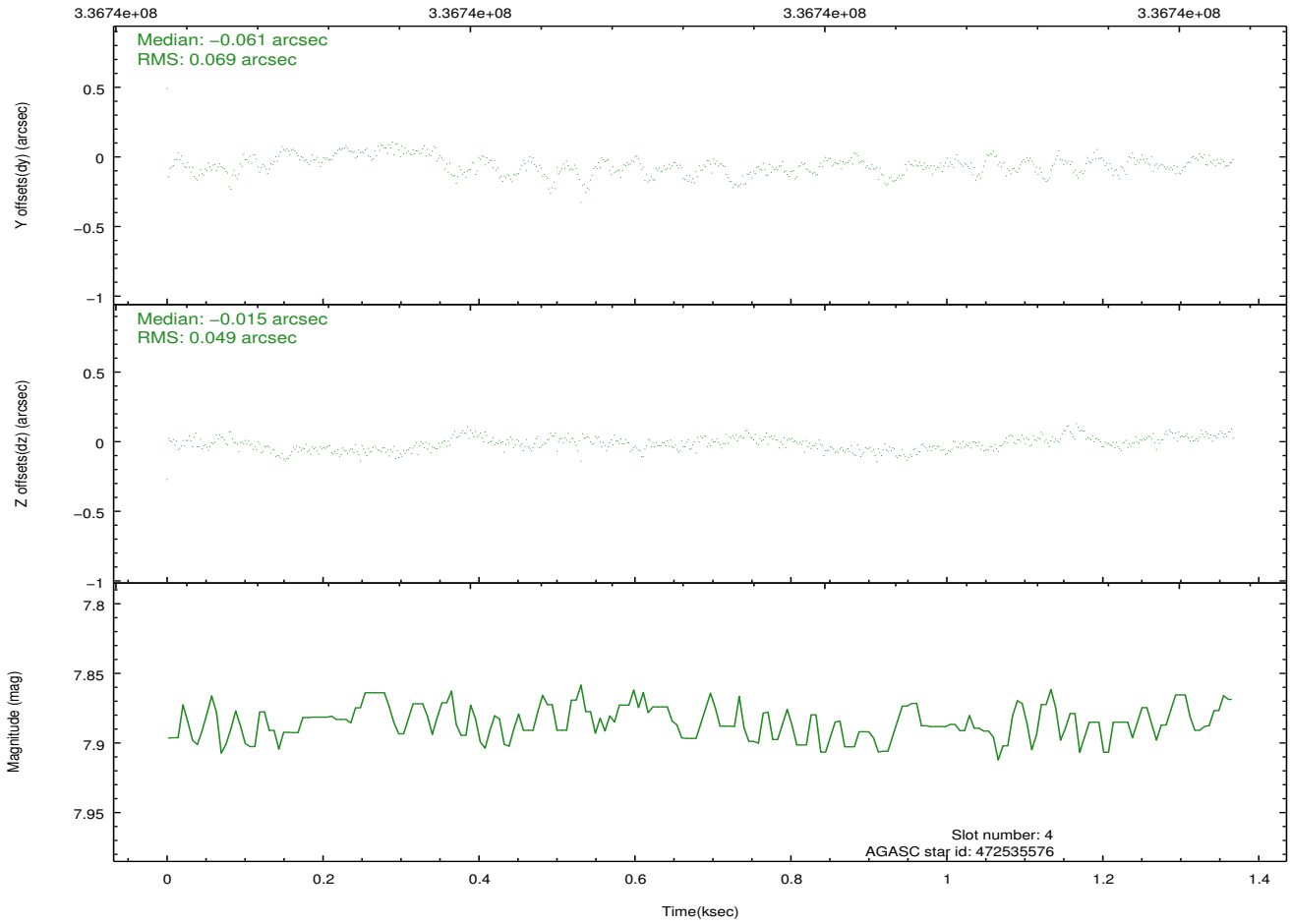
### 2.4.1 Slot 3



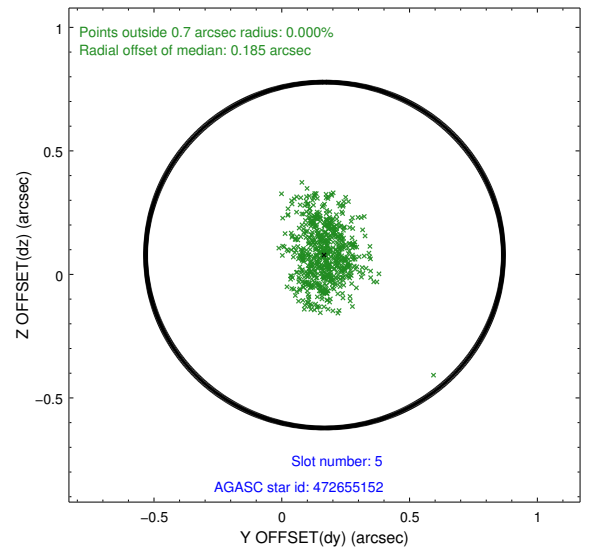
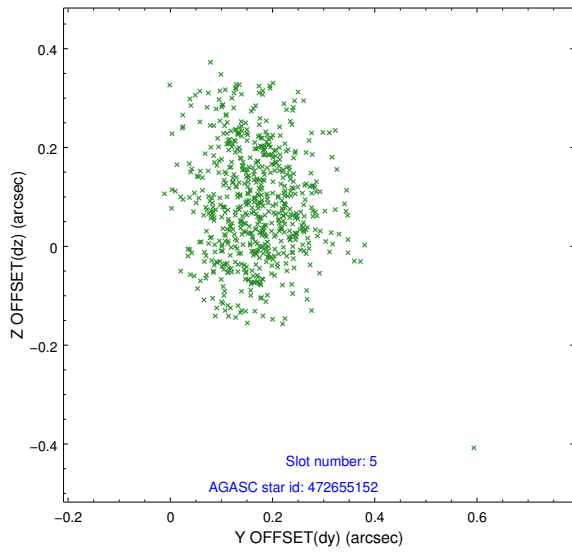
## 2.4.2 Slot 4



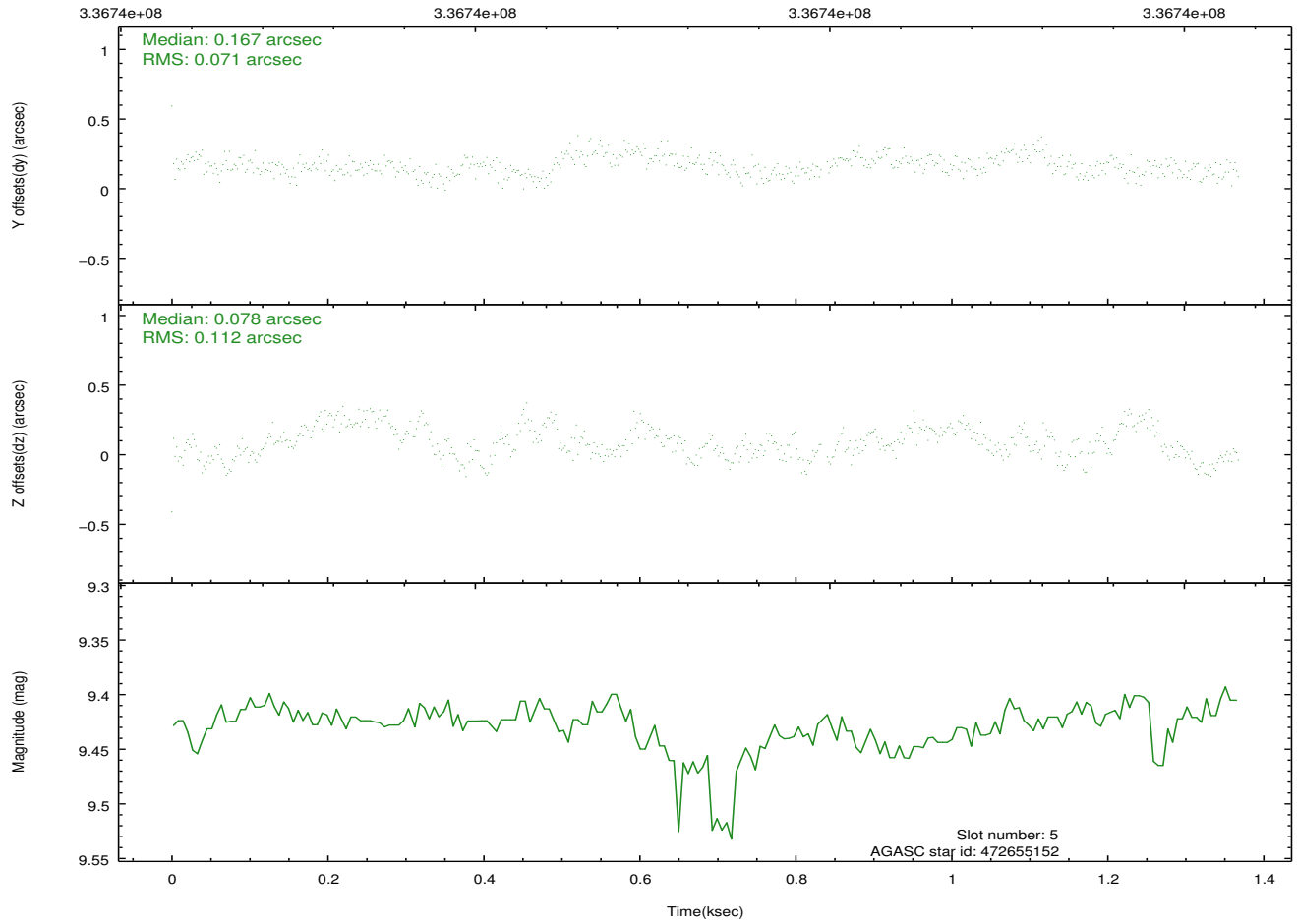
Time (s)



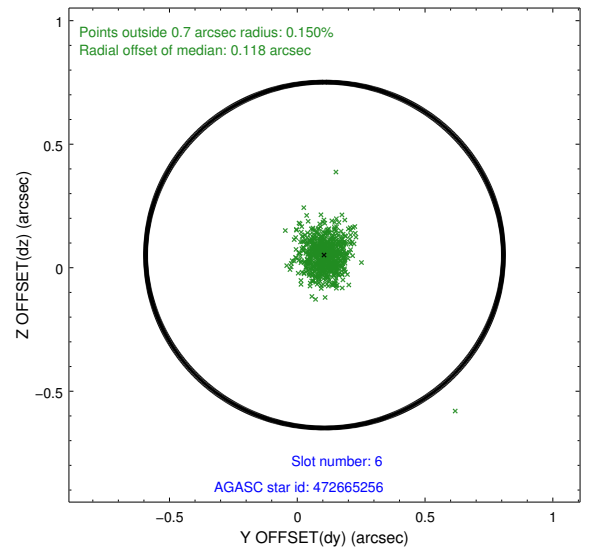
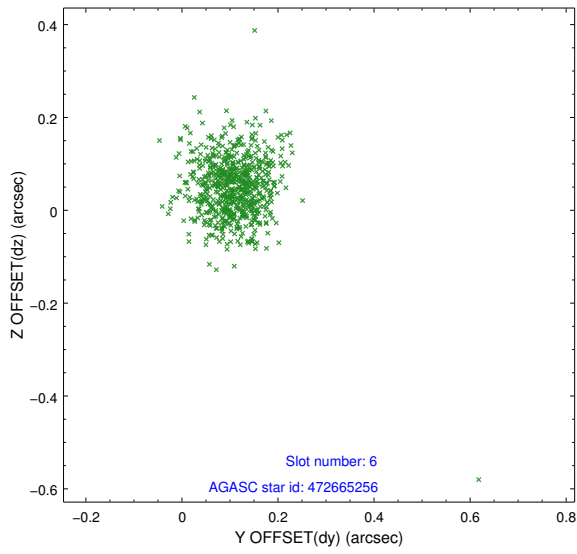
### 2.4.3 Slot 5



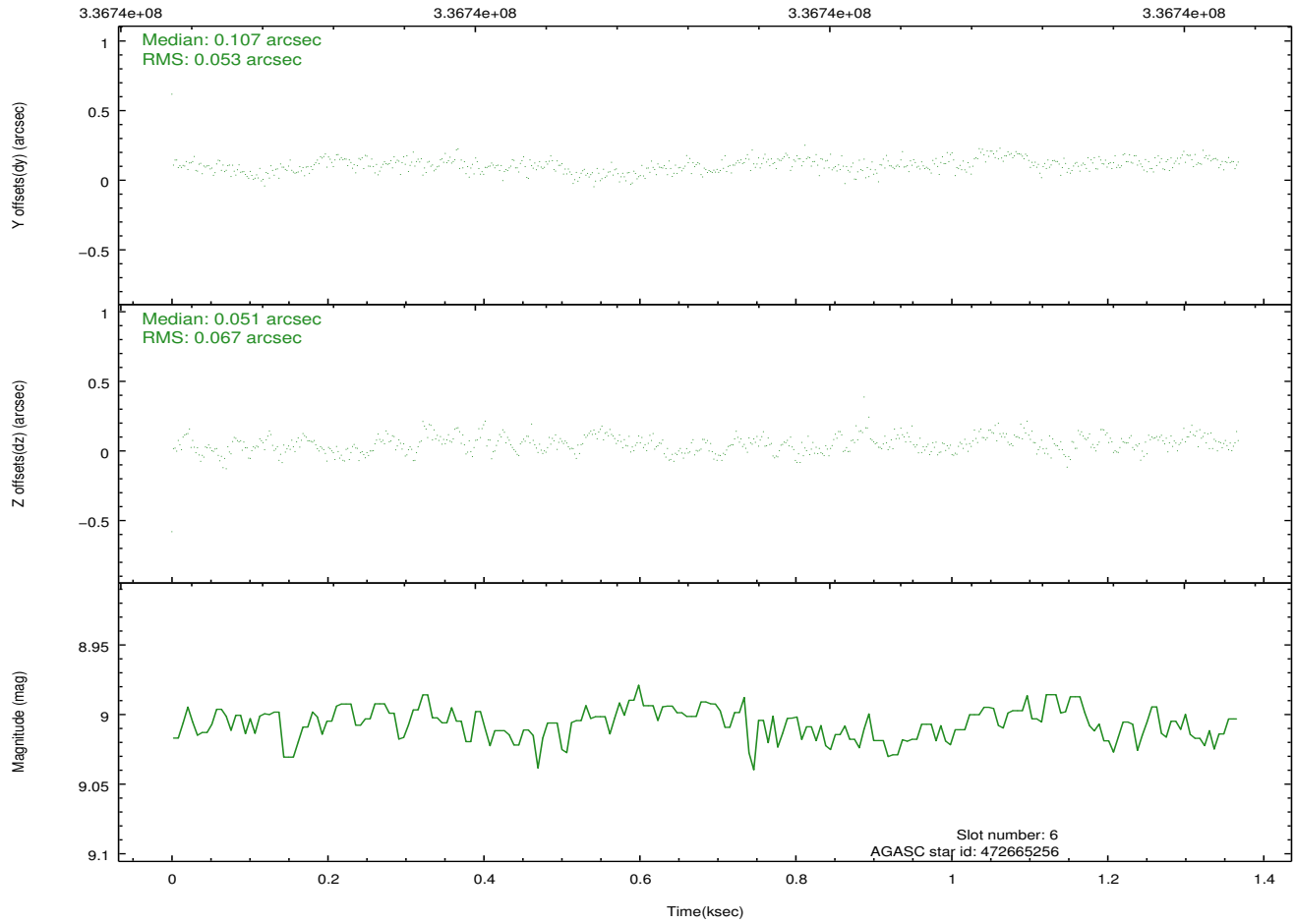
Time (s)



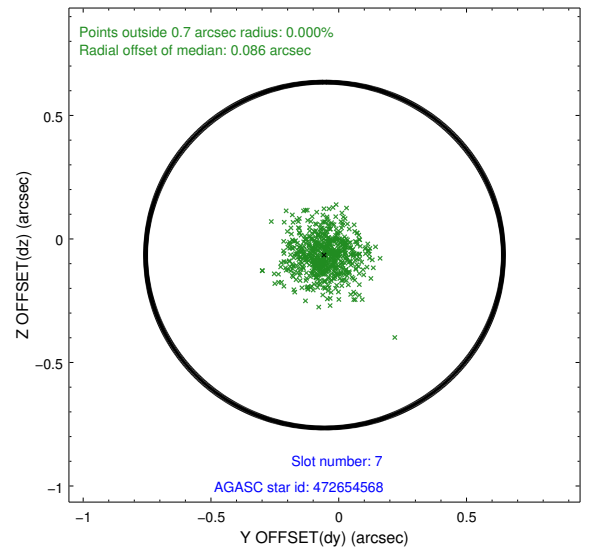
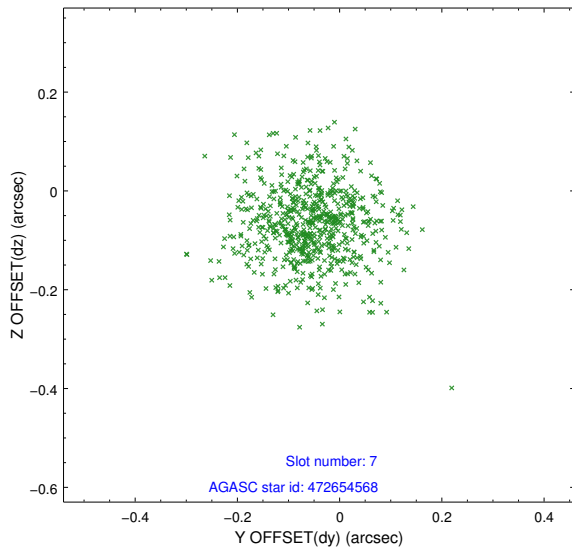
## 2.4.4 Slot 6



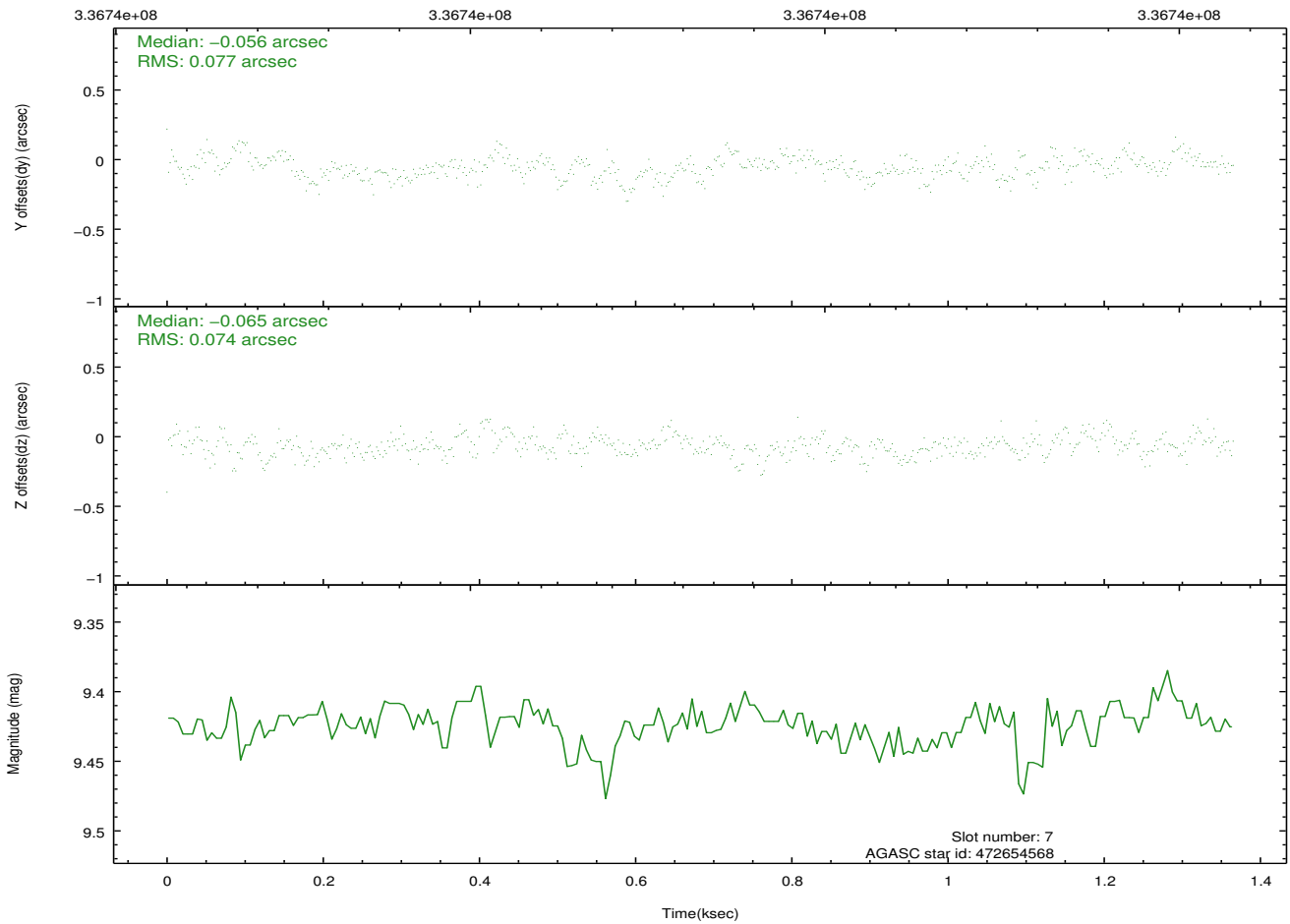
Time (s)



## 2.4.5 Slot 7

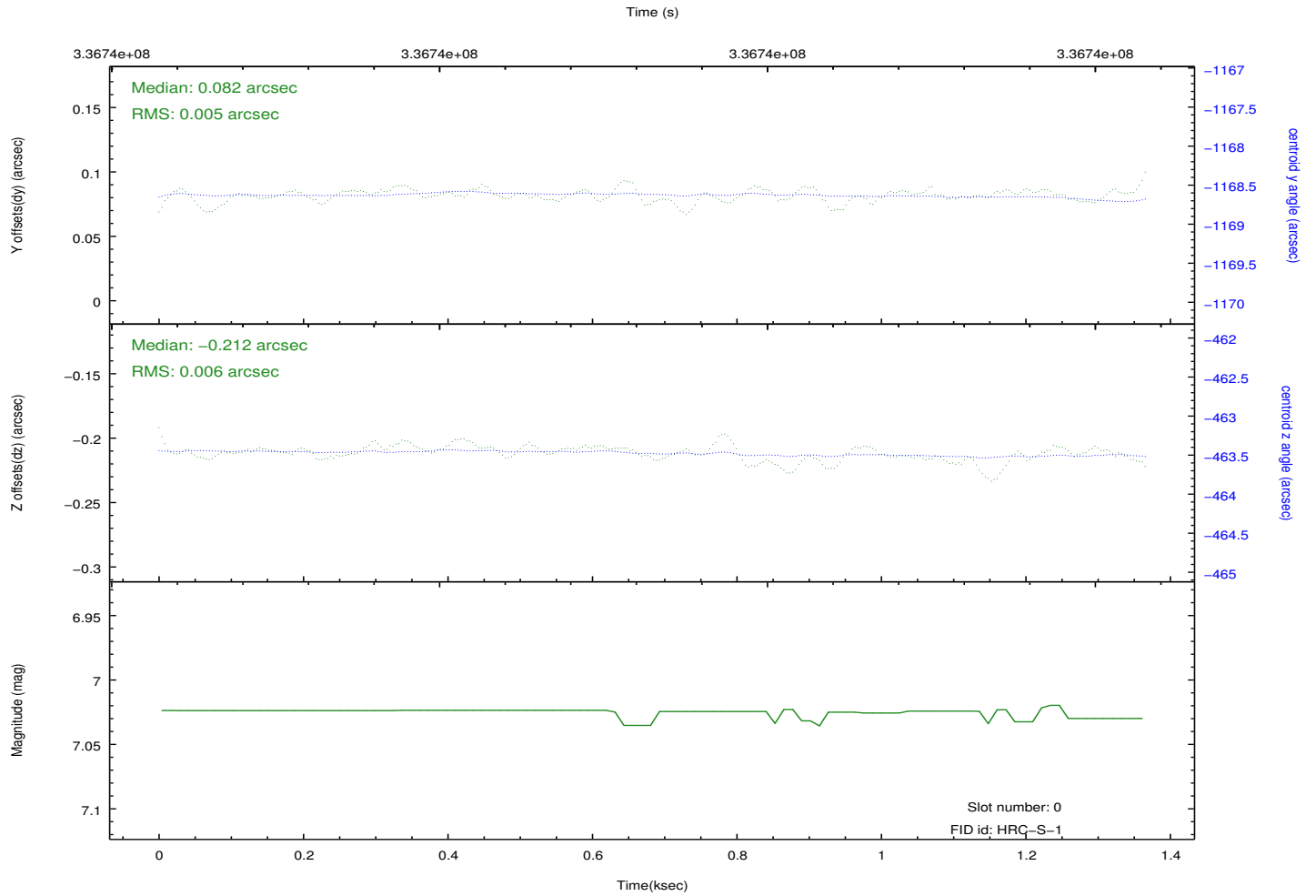
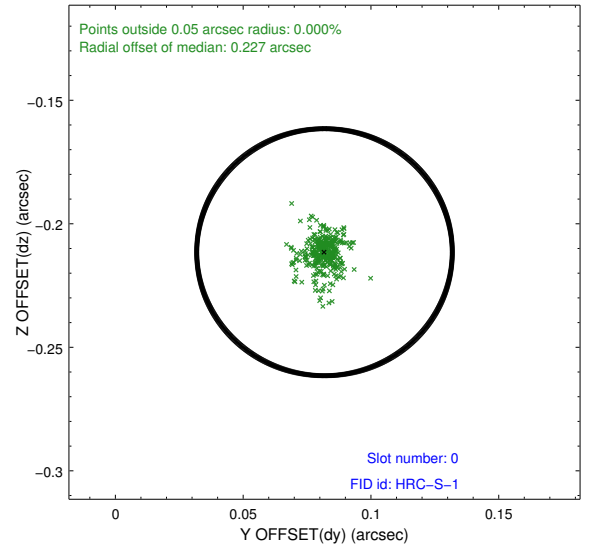
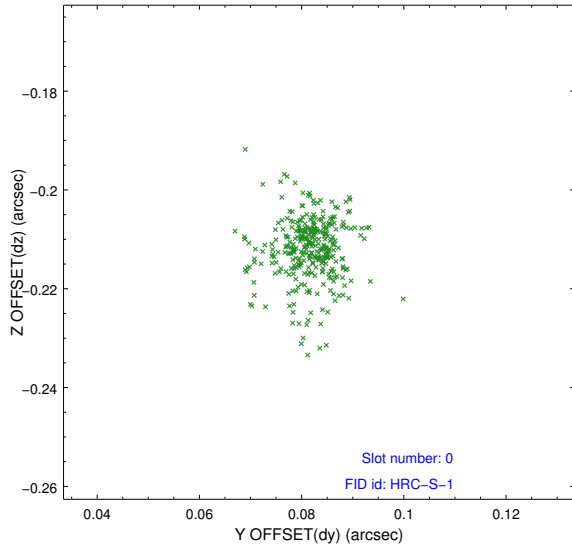


Time (s)

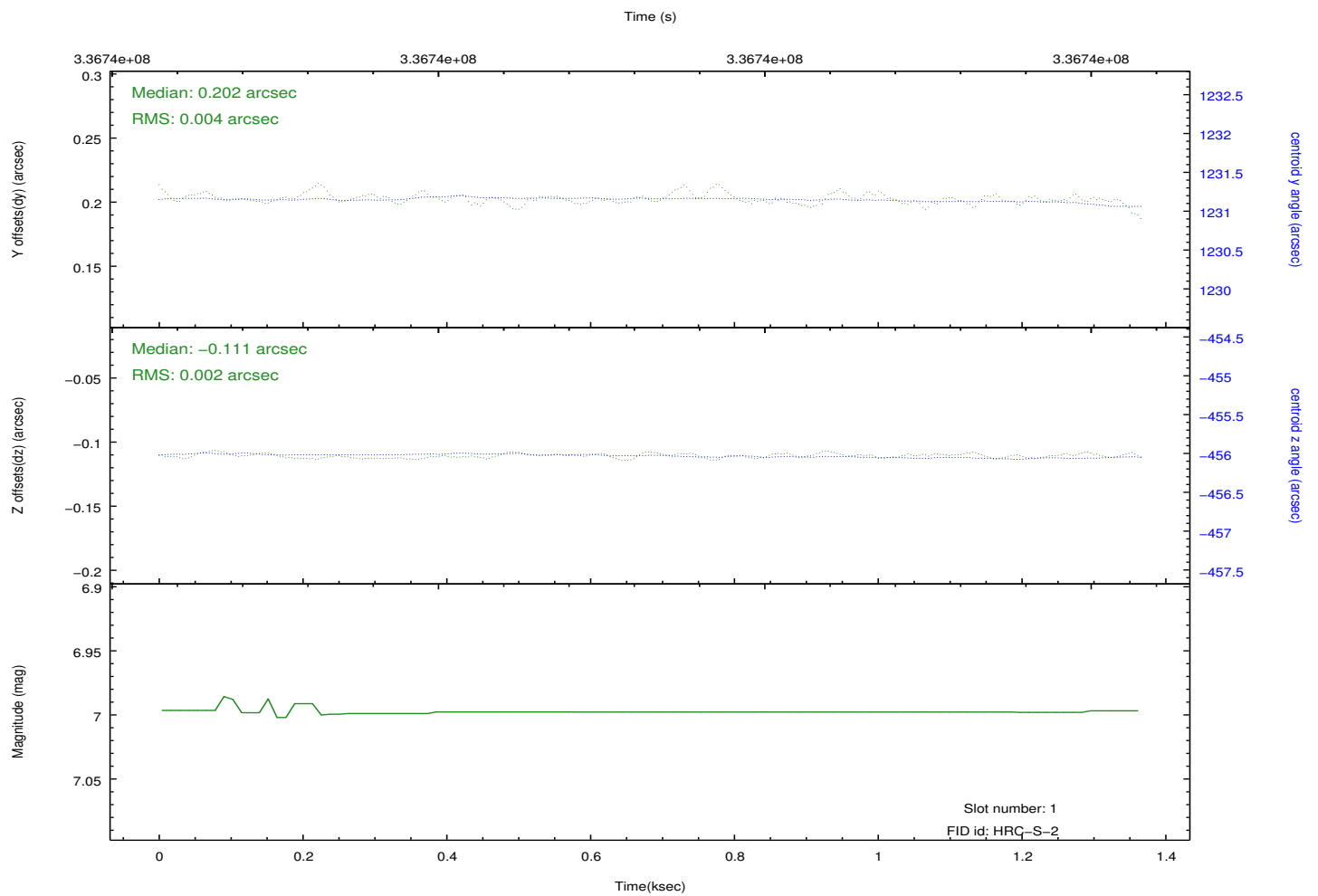
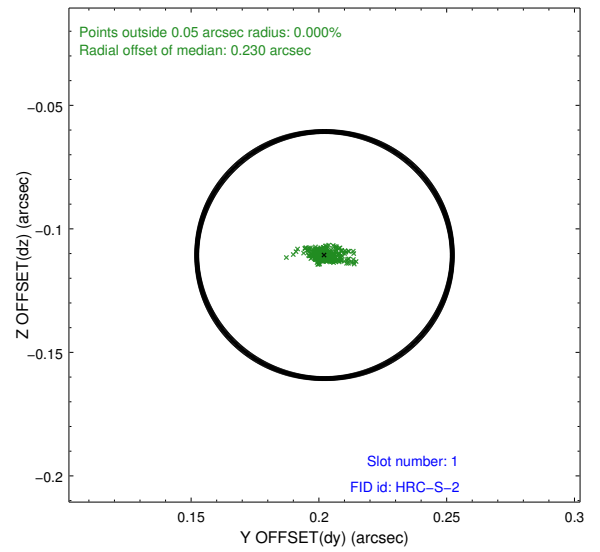
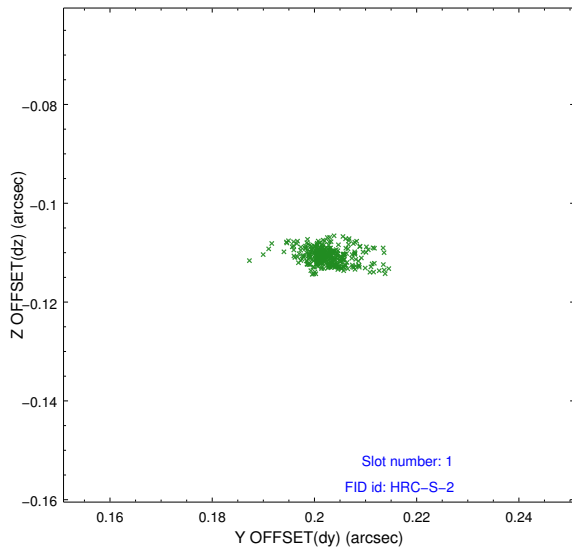


## 2.5 FID Slots

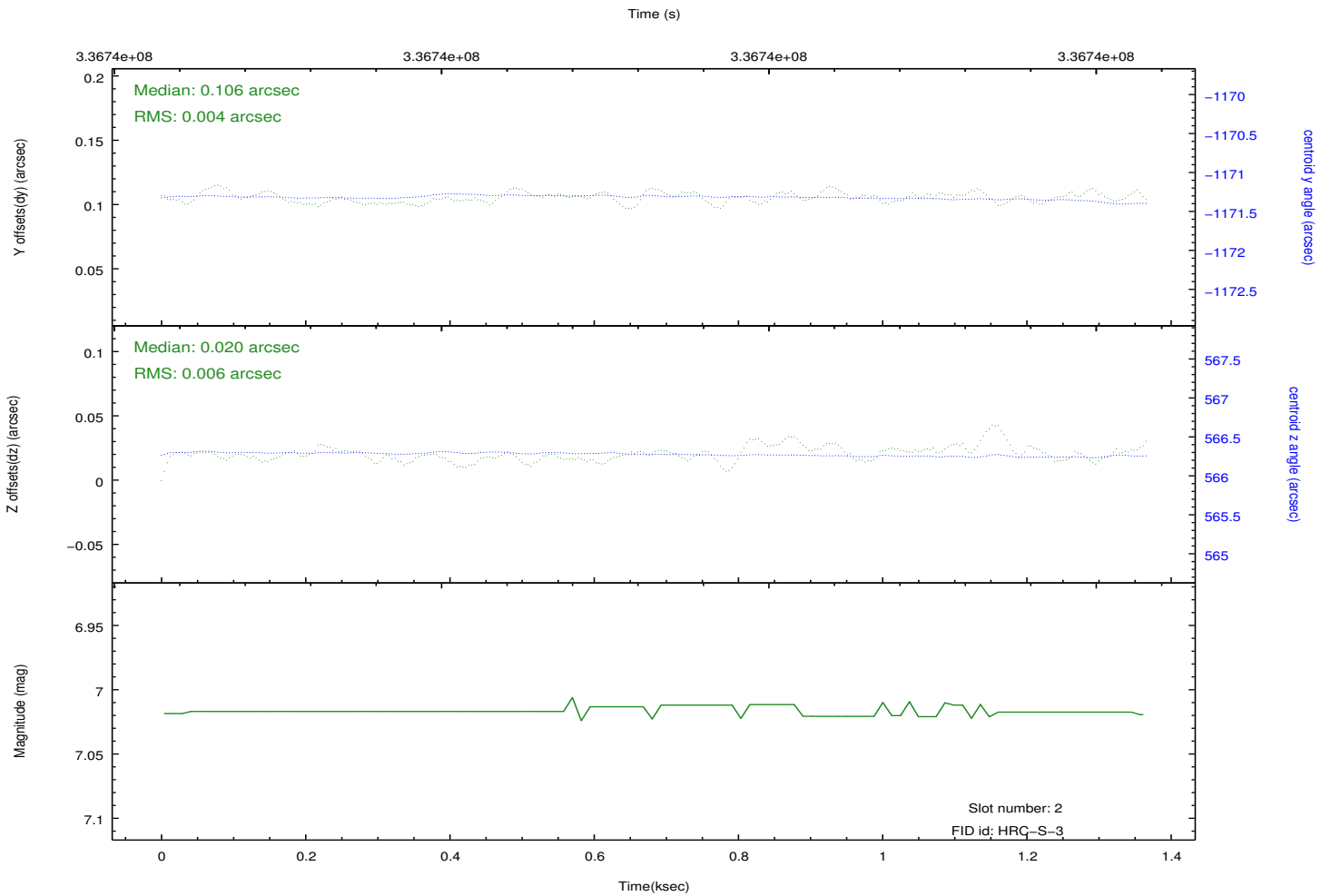
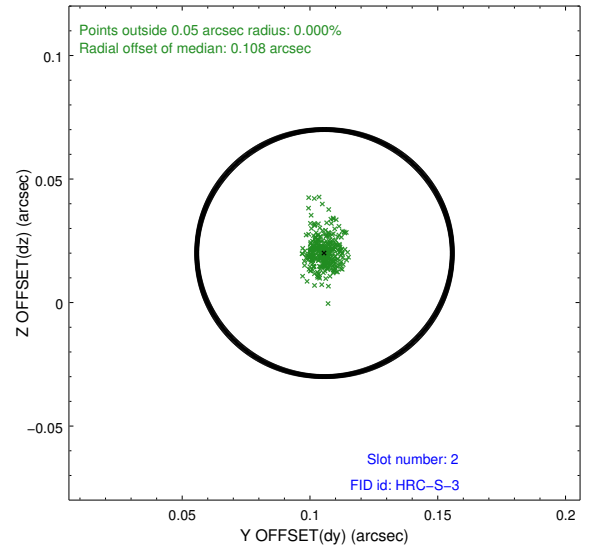
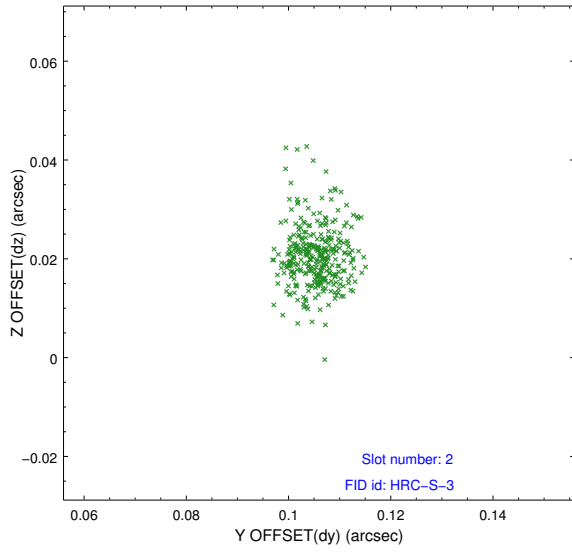
### 2.5.1 Slot 0



## 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	1.33788131

## A.2 Comments