

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9678 - L2 Version 3  
Chandra X-Ray Center

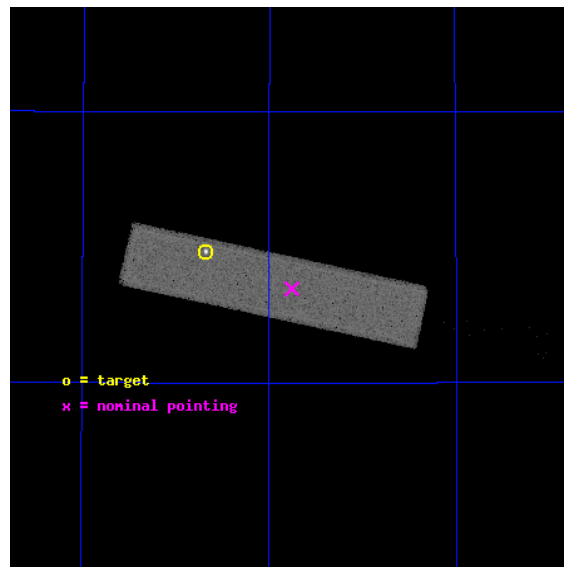
L2 Processing Date : Aug 12 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Parameters . . . . .	4
2.1.3	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

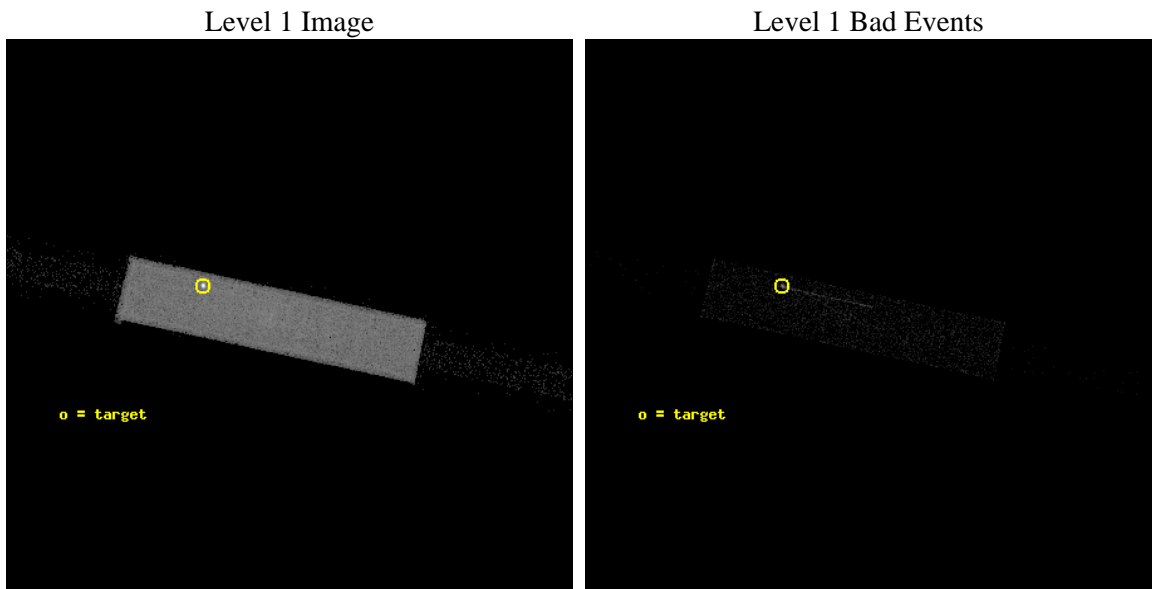
seq_num	290801	Sequence number
obs_id	9678	Observation id
title	AO9 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	331.93921533289	Nominal RA [deg]
dec_nom	45.673752896567	Nominal Dec [deg]
roll_nom	192.05047038699	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1337.6250655651	[s]
livetime	1325.8270698064	Ontime multiplied by DTCOR
l2events	83781	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	1337.6250655651	[s]
caldsver	4.5.1.1	&#160	l1events	128484	Number of level 1 events
date	2012-08-12T18:13:03	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

Level 1 Events

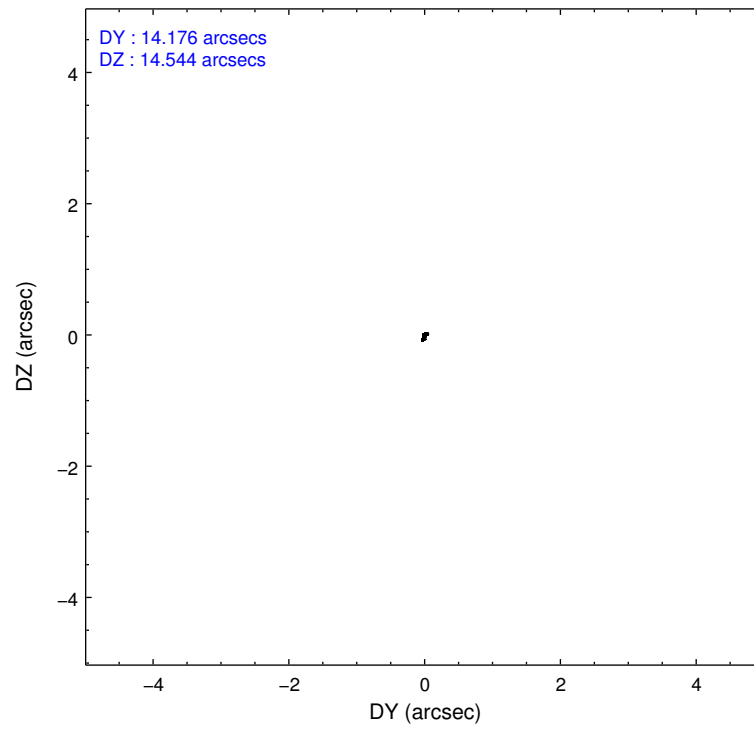
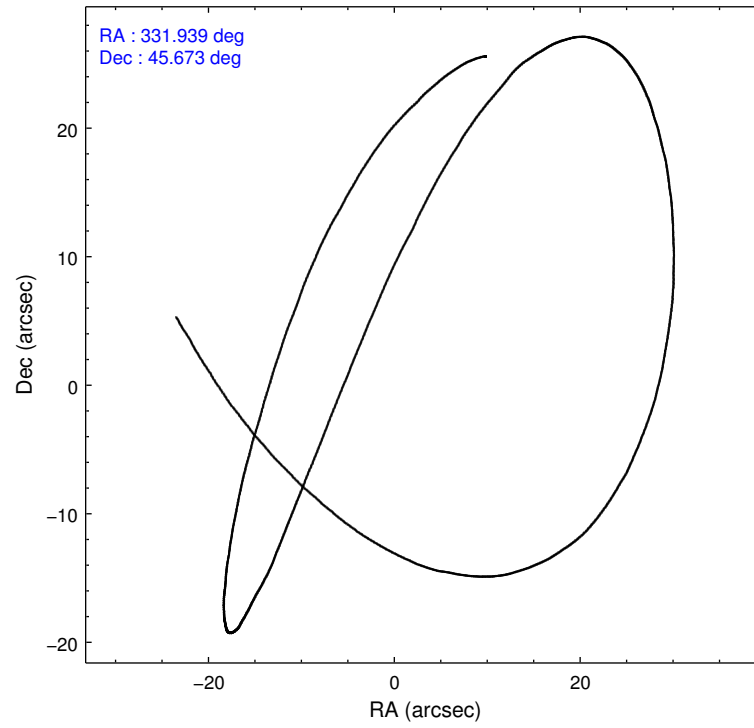
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1021	126496	967
rejected events	1021	25820	930
rejected %	100%	20%	96%

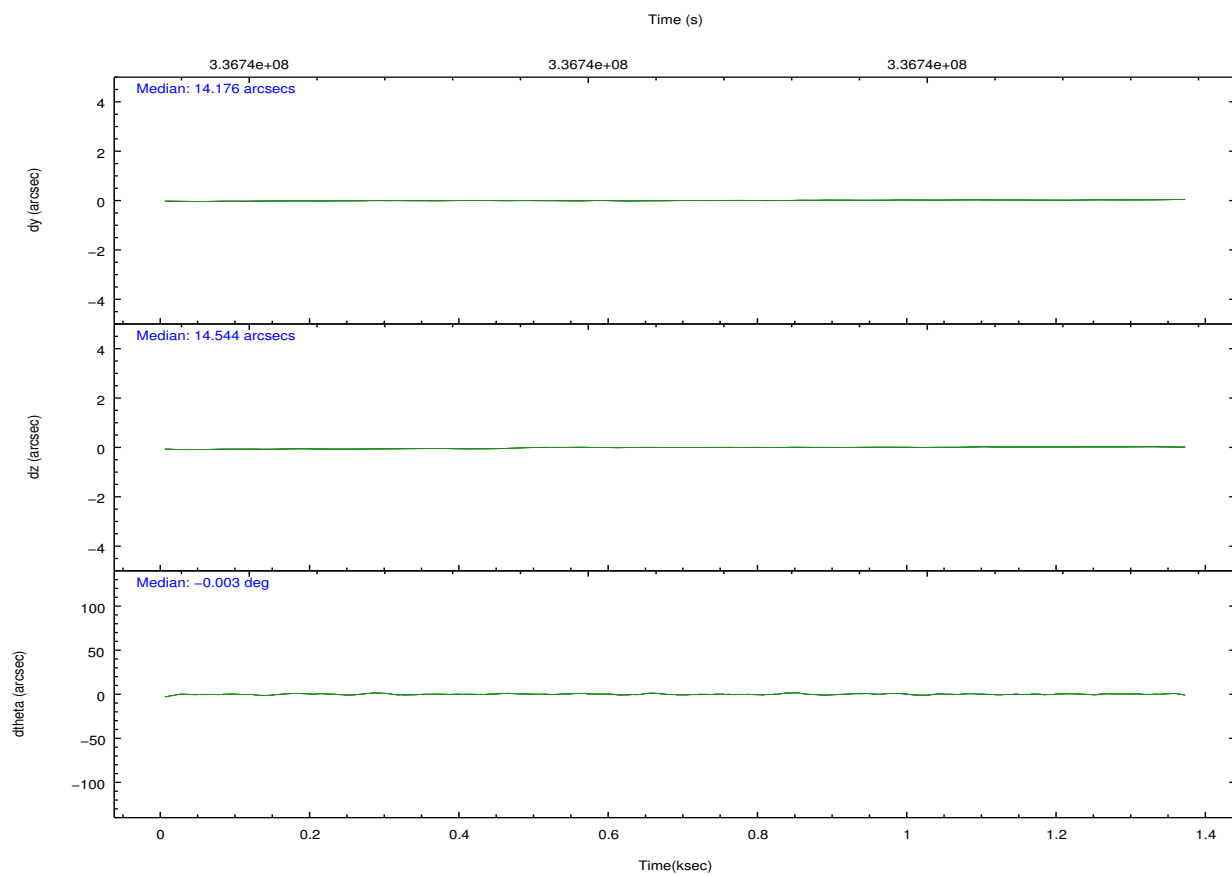
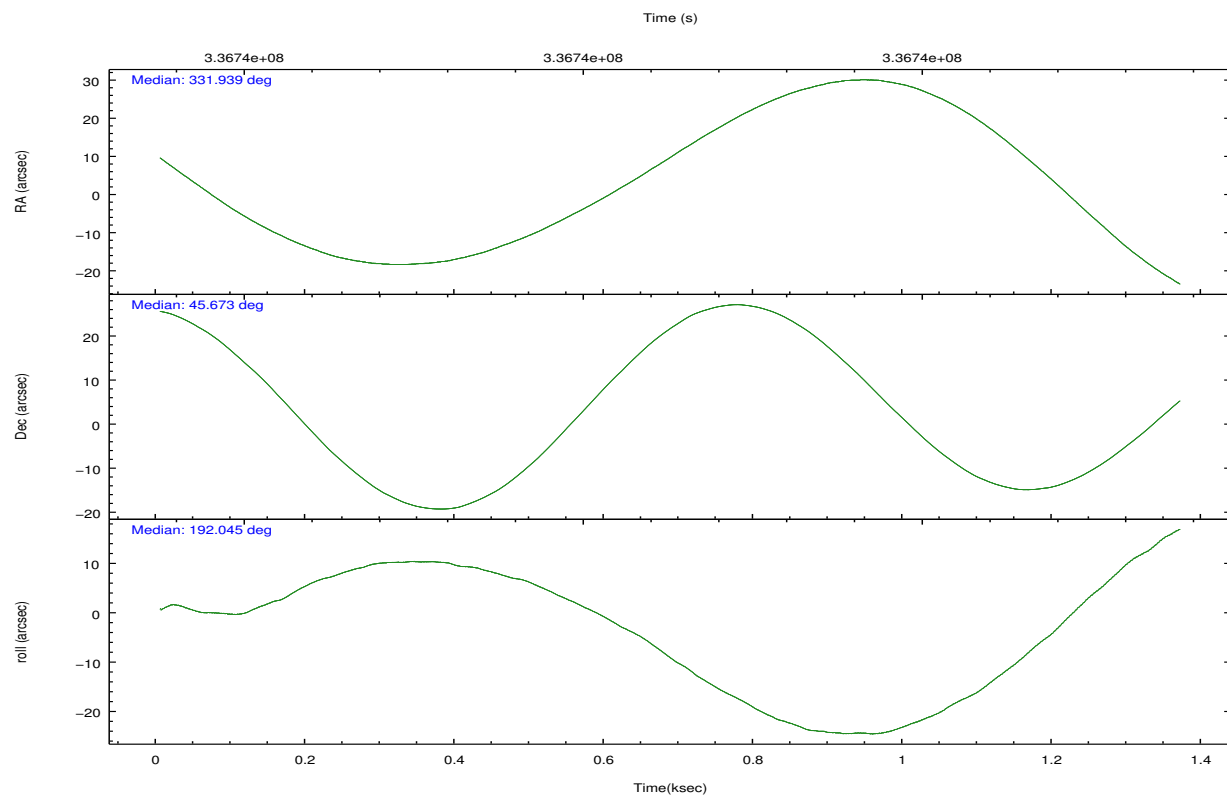
## 2.2 Compared Parameters

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	331.968711	331.9392153328873
[deg] Pointing Dec	45.694671	45.67375289656667
[deg] Pointing Roll	191.962030	192.050470386991
[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)	336741633.184000	336741256.32165
Observation start date	2008-09-02T11:19:28	2008-09-02T11:14:16
[s] Observation end time (MET)	336742813.184000	336742946.54673
Observation end date	2008-09-02T11:39:08	2008-09-02T11:42:26

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

## 2.3 Aspect





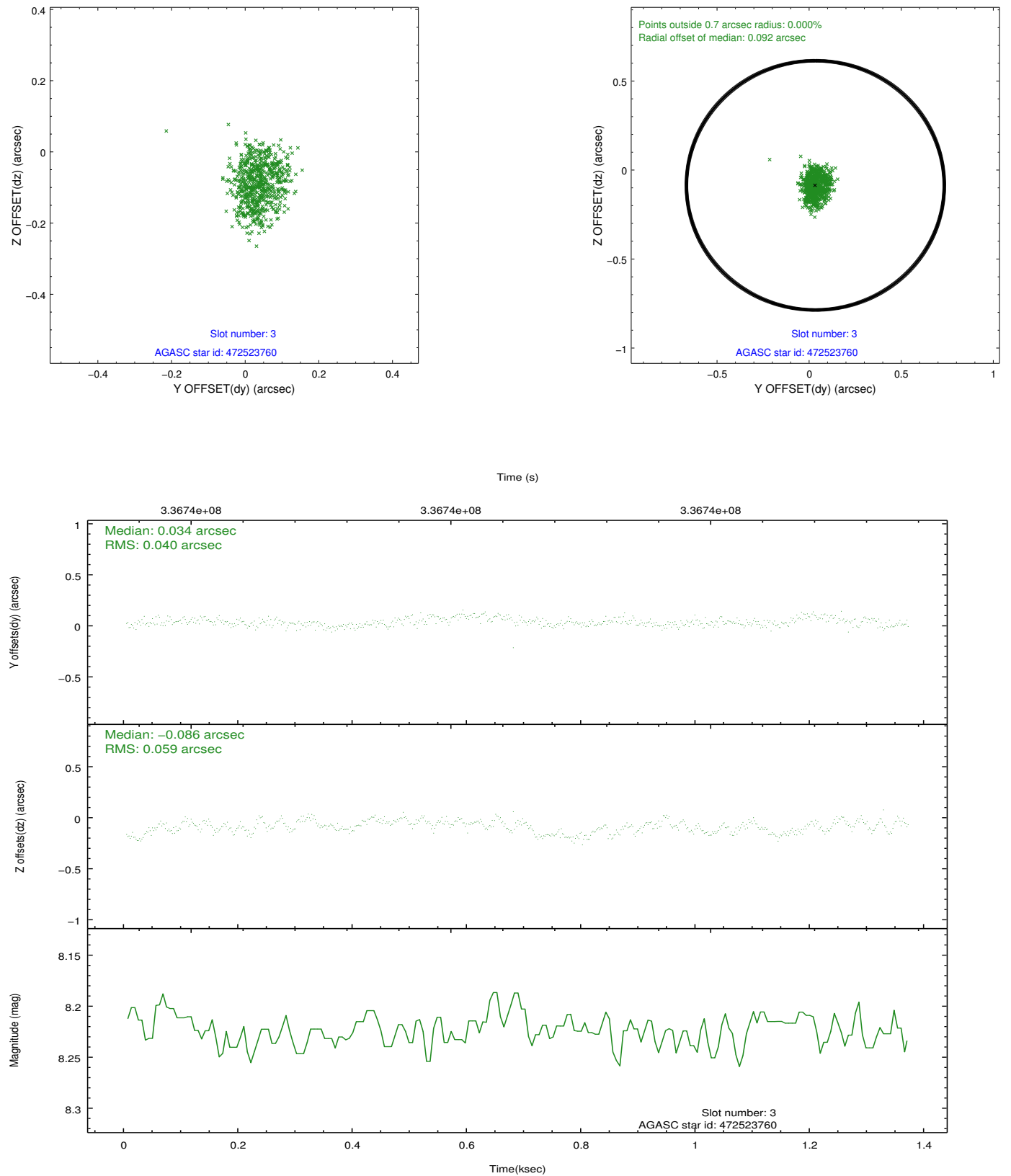
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.03	334	0.085	-0.212	0.007	0.011	0.000000	0.000000	-1168.55	-463.41
1	FID	HRC-S-2	6.99	334	0.202	-0.111	0.005	0.010	0.000000	0.000000	1227.73	-457.34
2	FID	HRC-S-3	7.02	334	0.104	0.021	0.007	0.011	0.000000	0.000000	-1167.57	564.98
3	GUIDE	472523760	8.22	668	0.034	-0.086	0.078	0.119	331.645363	45.403260	1015.52	853.44
4	GUIDE	472527720	6.98	668	-0.213	-0.134	0.085	0.140	331.460205	45.112509	1697.39	1777.97
5	GUIDE	472535576	7.86	667	-0.069	0.106	0.073	0.113	331.438373	46.291802	845.78	-2379.75
6	GUIDE	472655152	9.42	667	0.121	0.017	0.118	0.185	332.504239	45.862991	-1439.70	-324.48
7	GUIDE	472663080	9.42	667	0.109	0.102	0.104	0.176	332.652741	46.473840	-2245.03	-2402.36

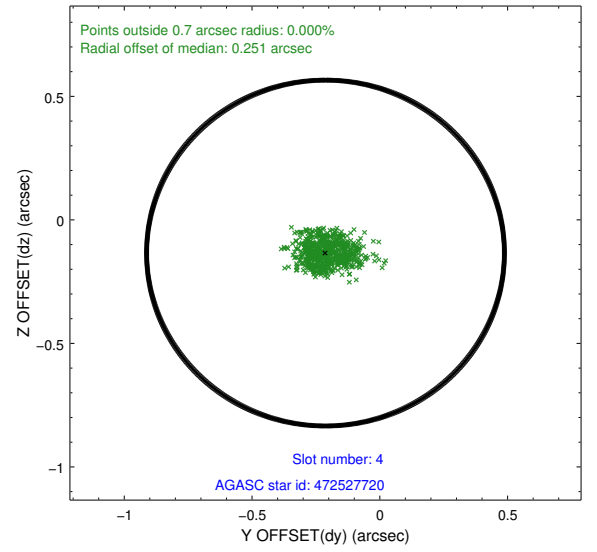
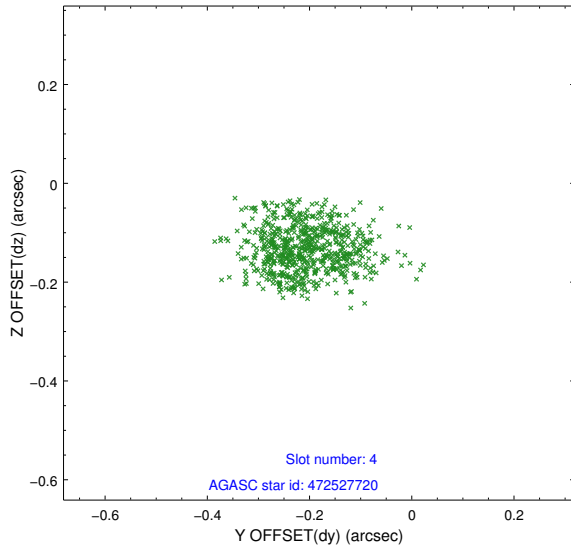


## 2.4 Star Slots

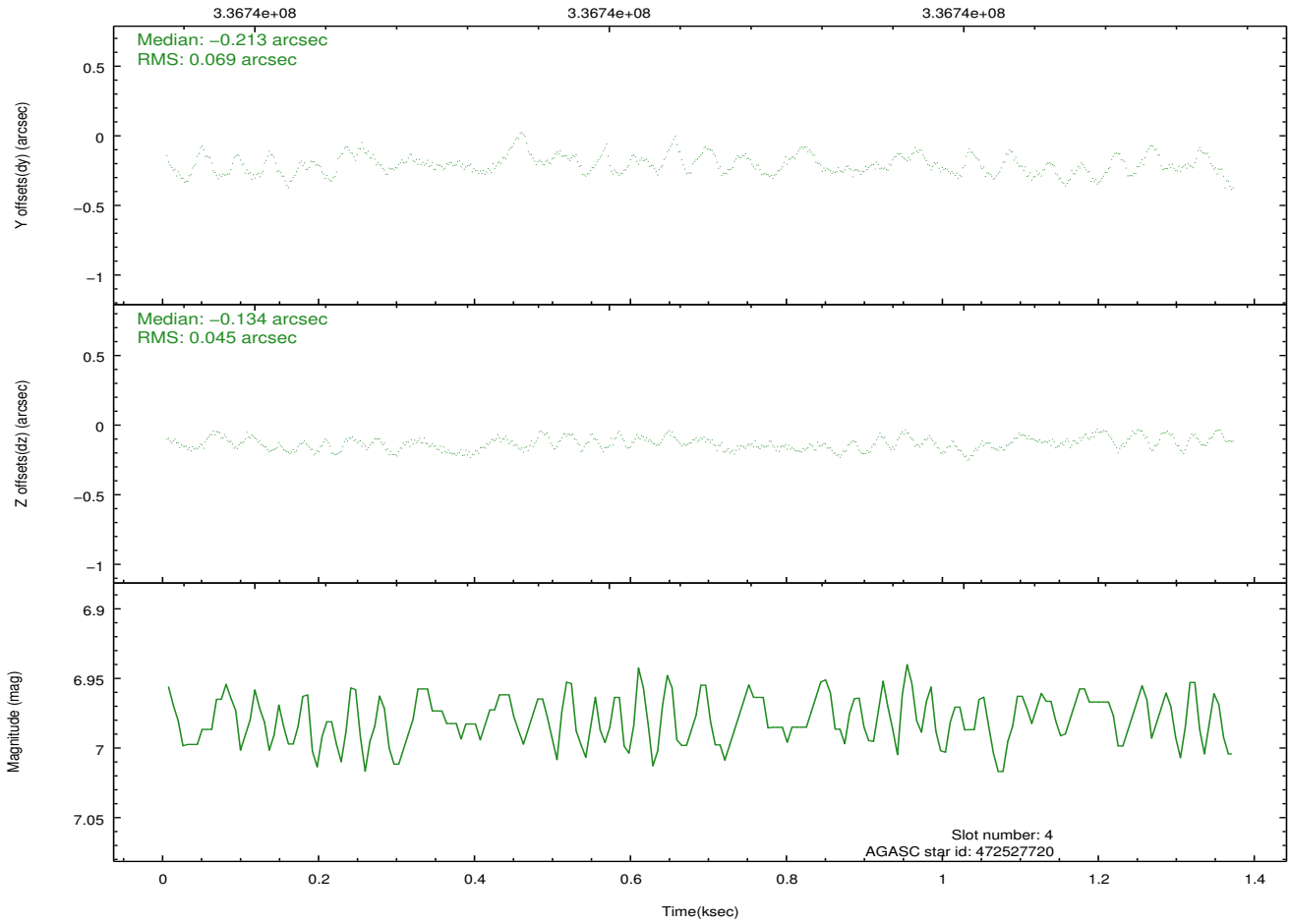
### 2.4.1 Slot 3



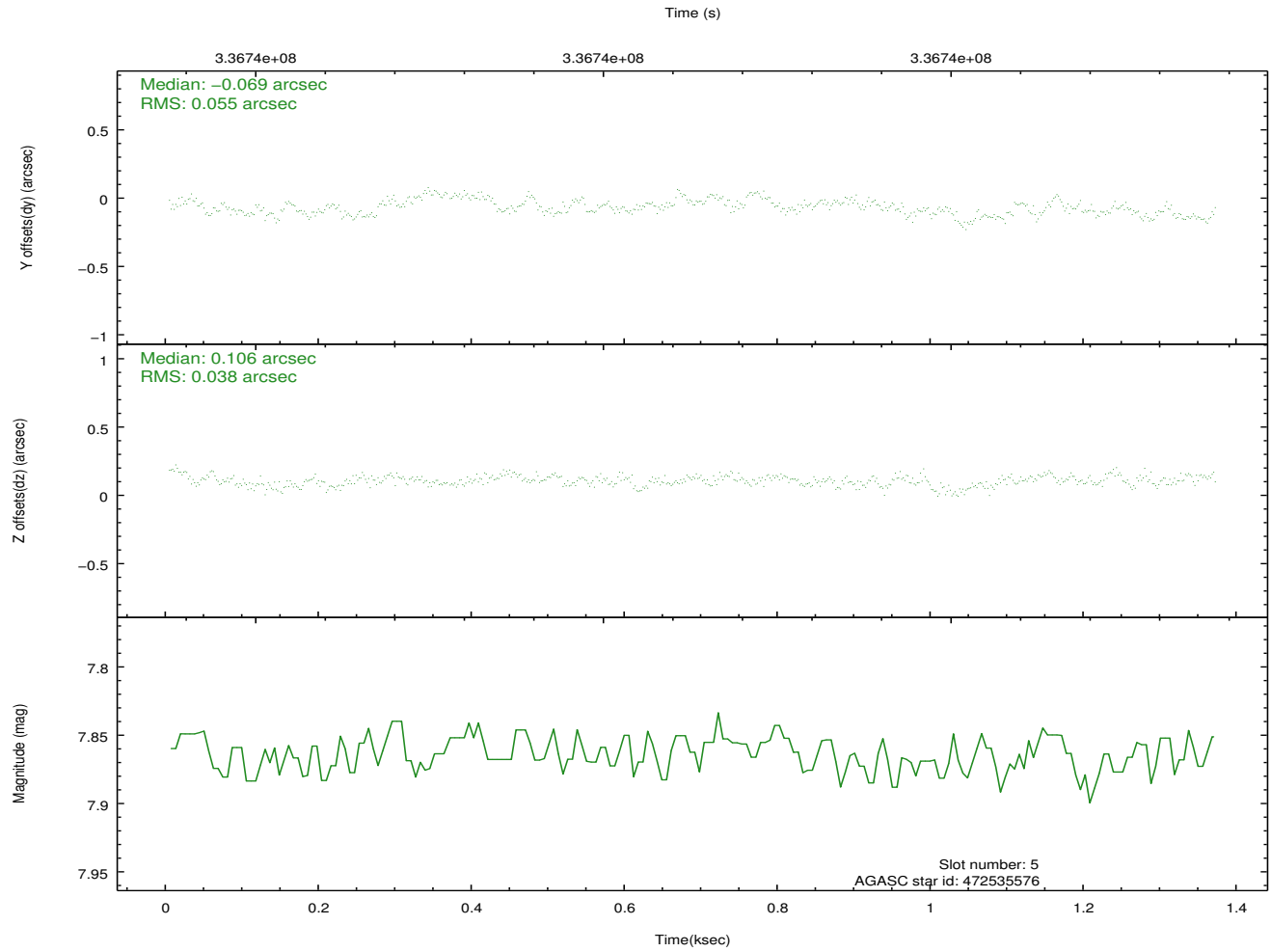
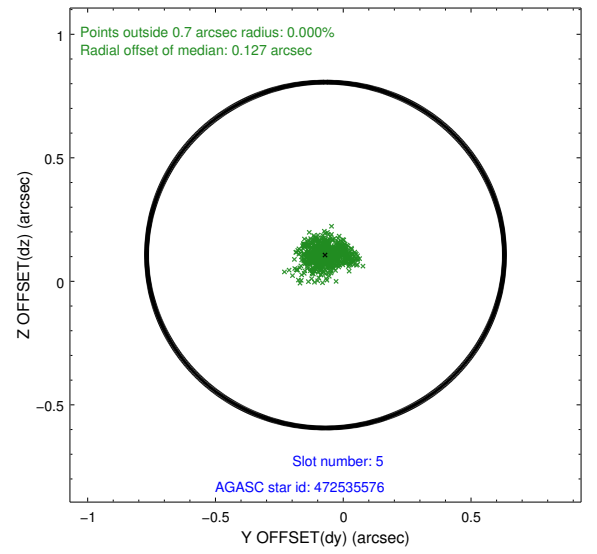
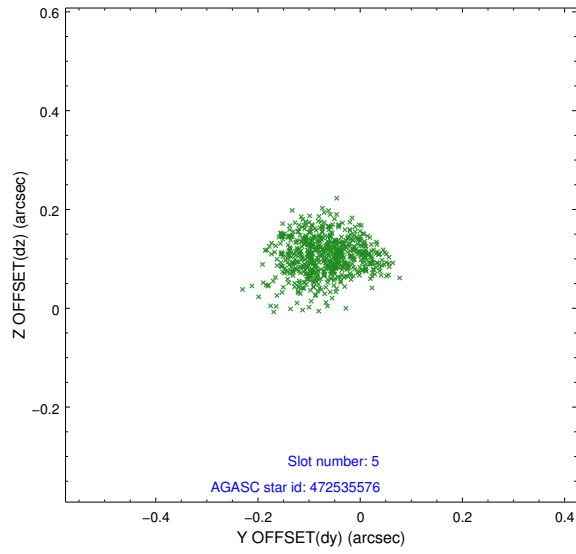
## 2.4.2 Slot 4



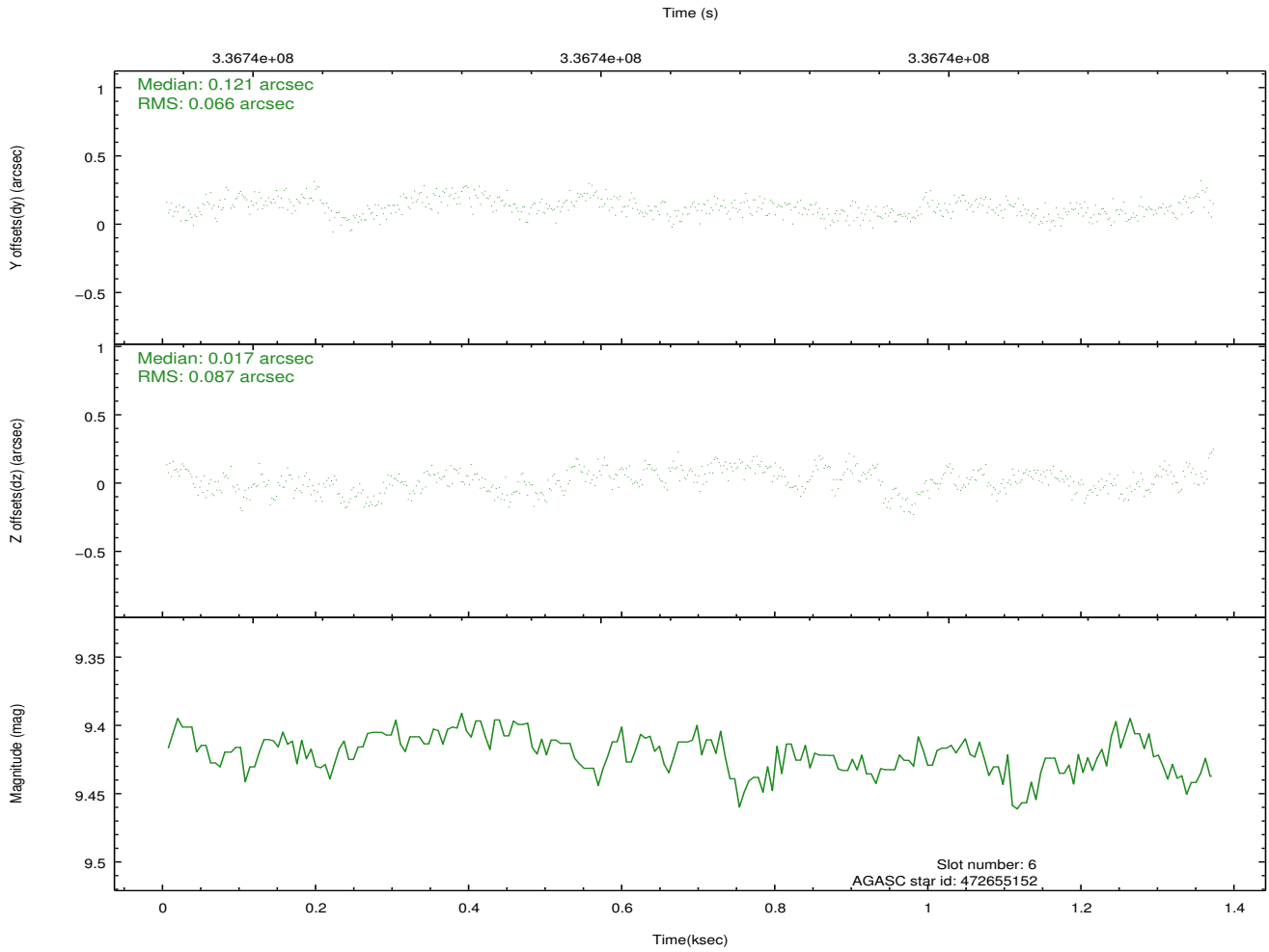
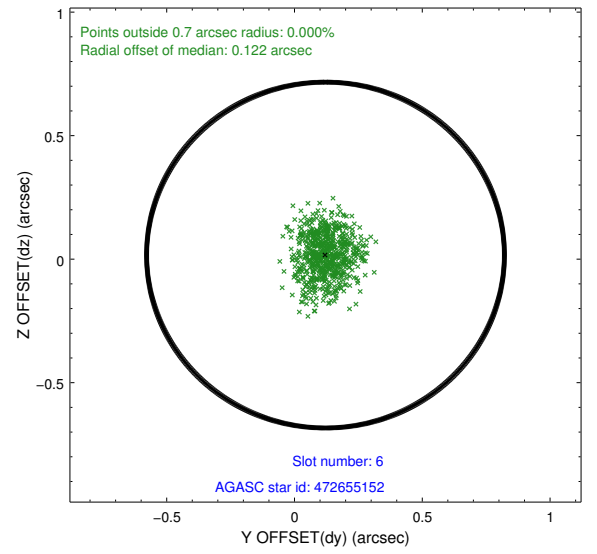
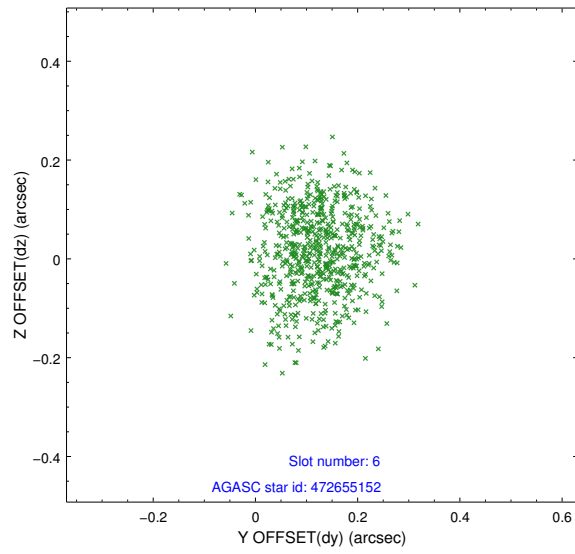
Time (s)



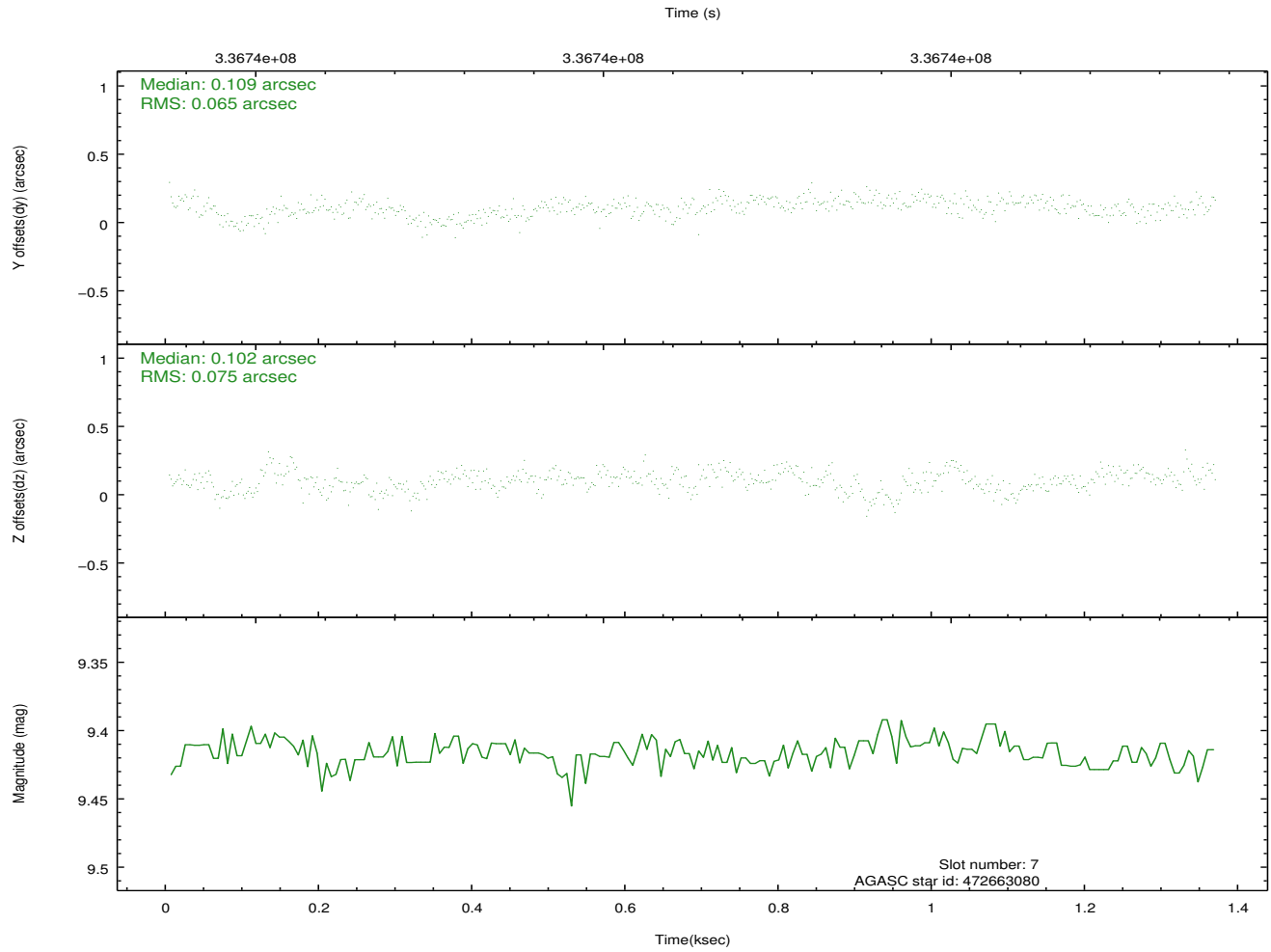
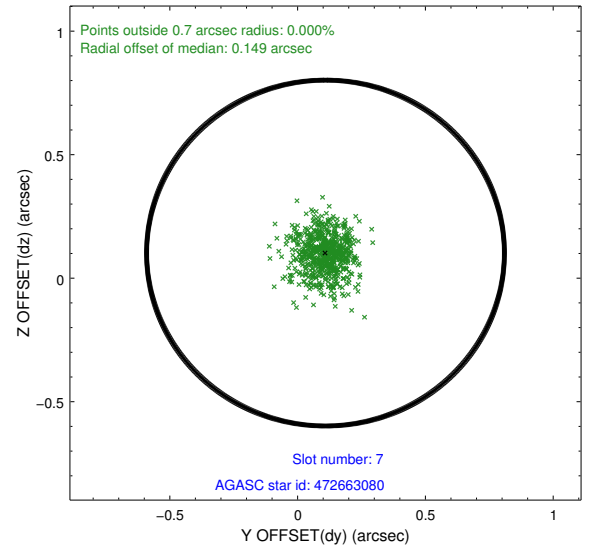
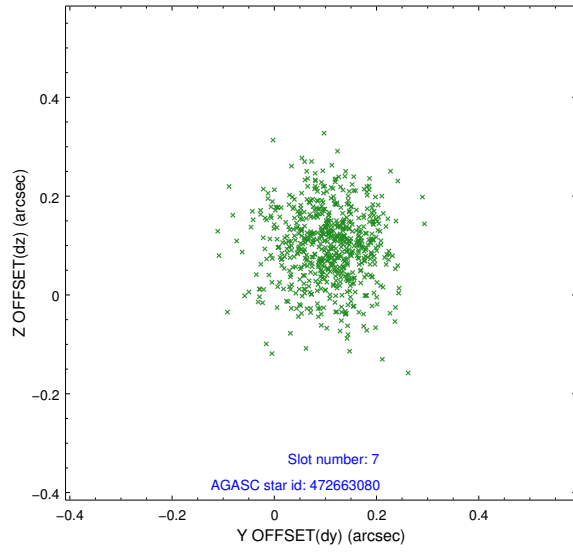
### 2.4.3 Slot 5



## 2.4.4 Slot 6

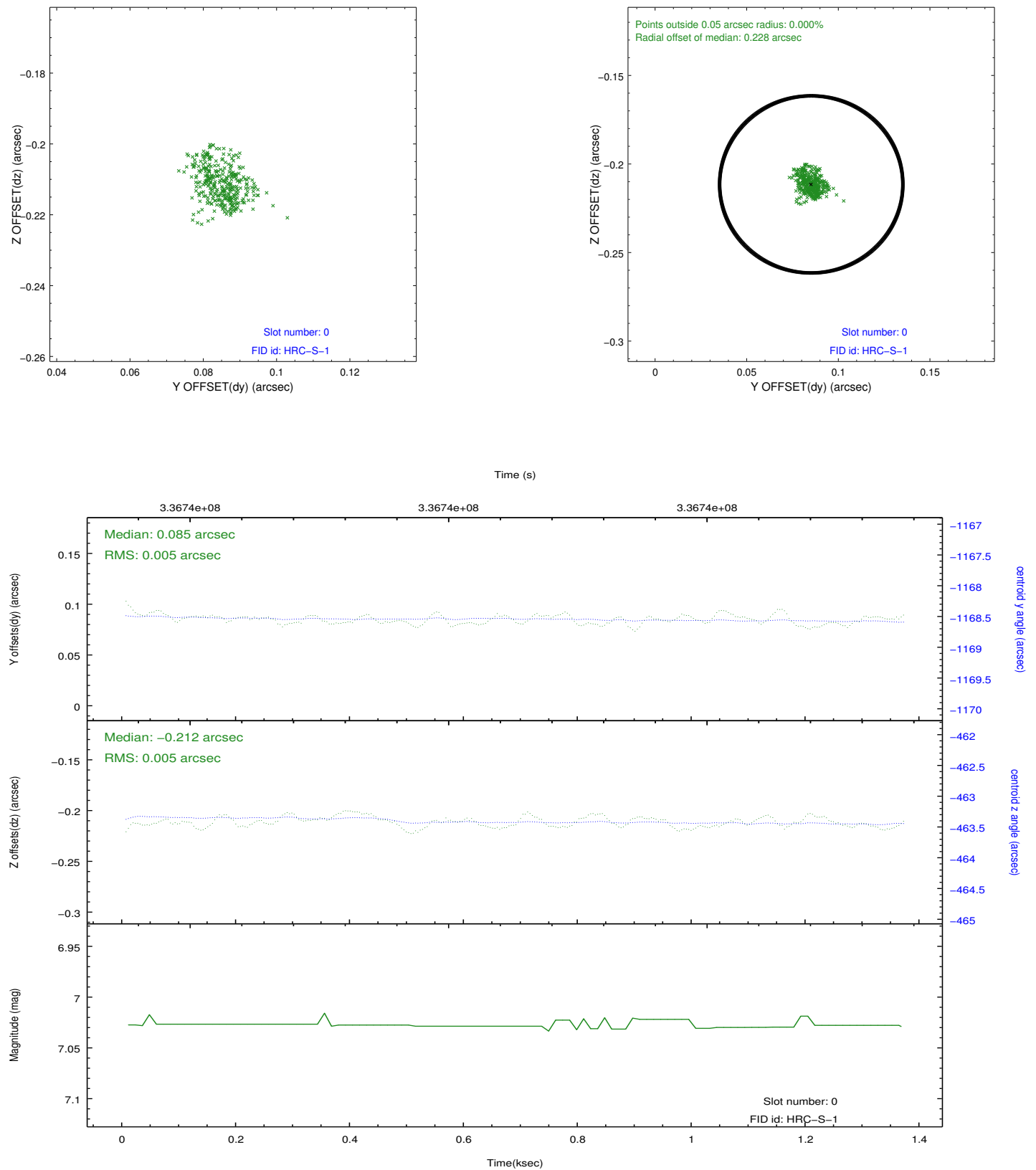


## 2.4.5 Slot 7

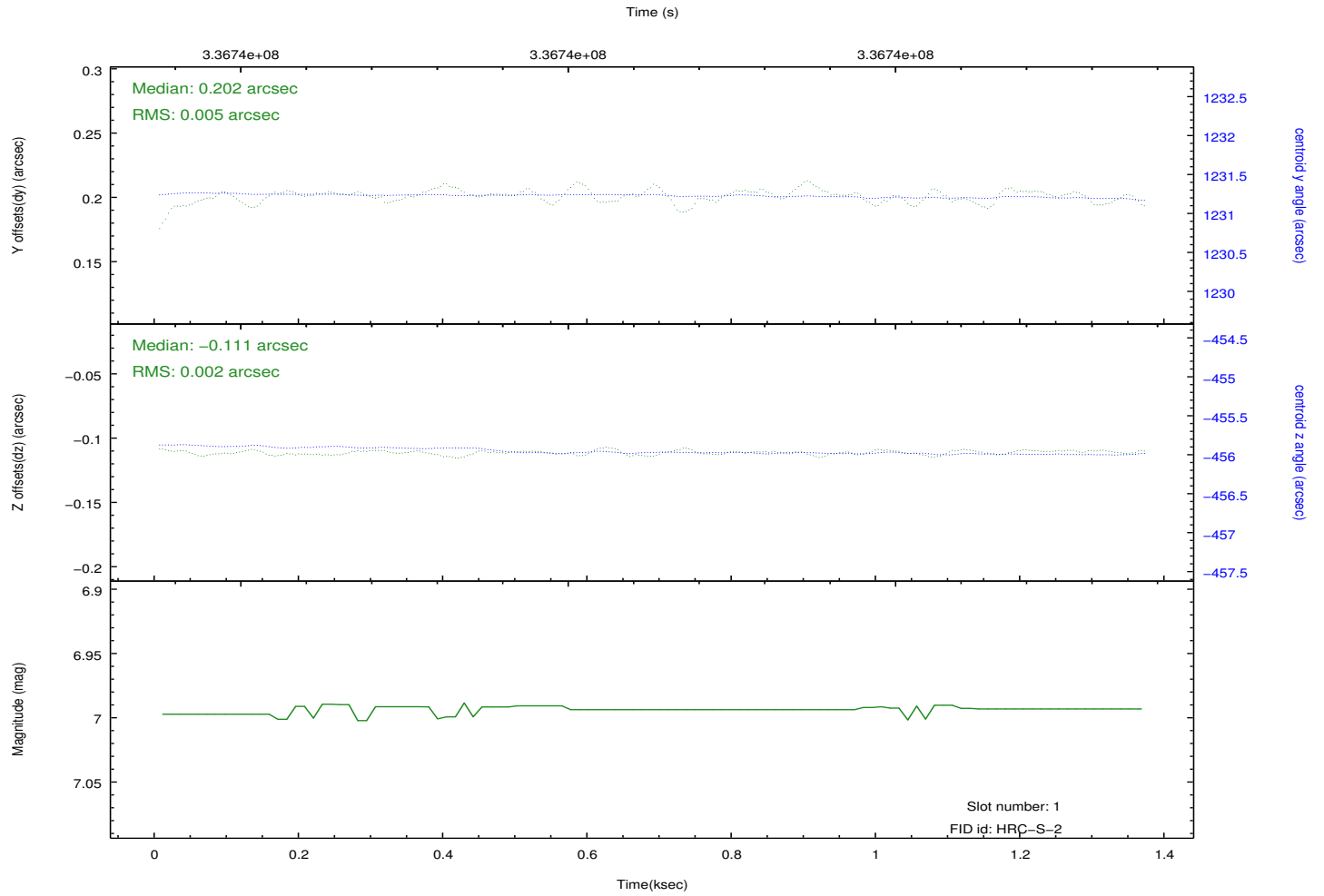
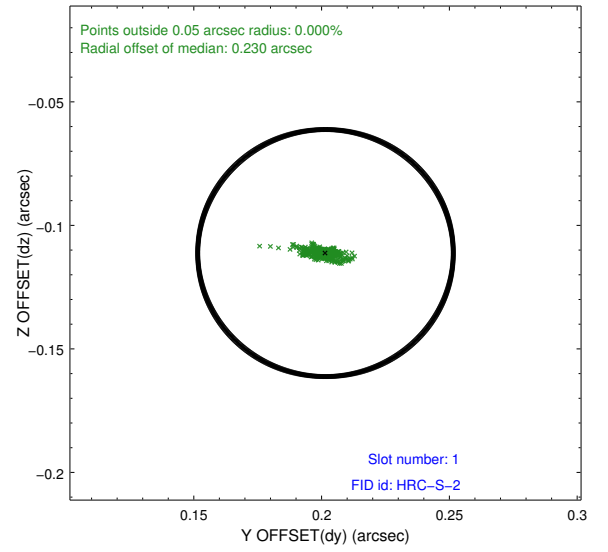
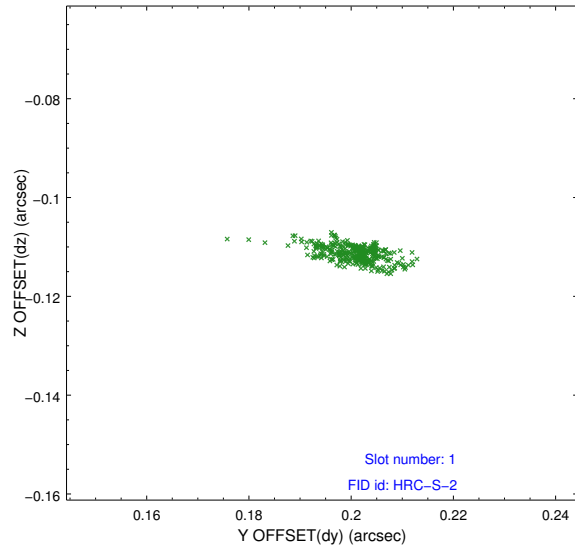


## 2.5 FID Slots

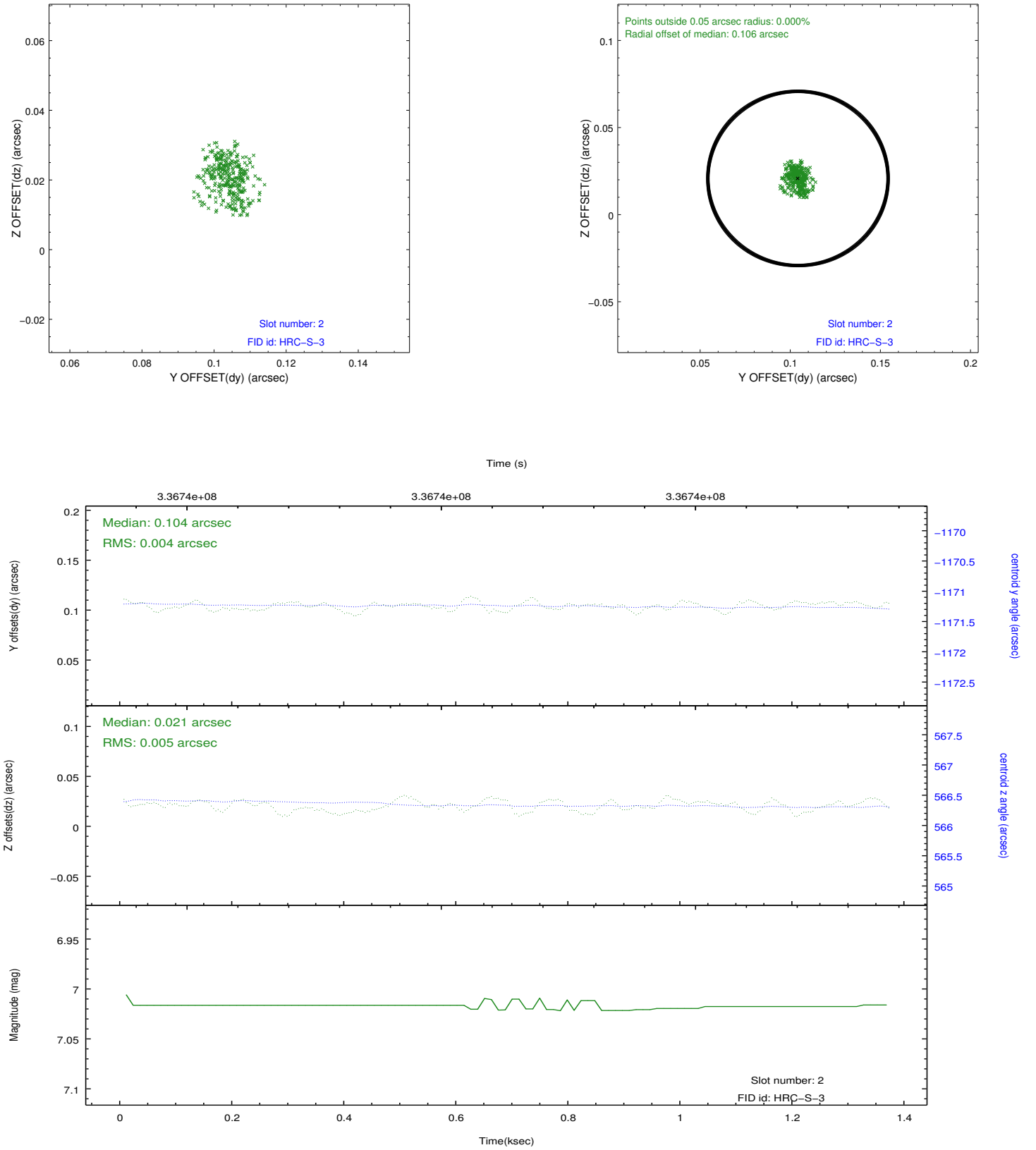
### 2.5.1 Slot 0



## 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	1.33762506

### A.2 Comments