

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 5083 - L2 Version 3  
Chandra X-Ray Center

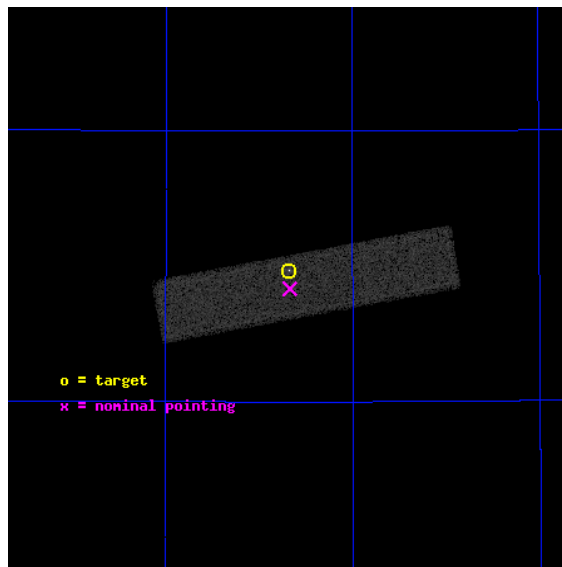
L2 Processing Date : Nov 11 2012

## 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

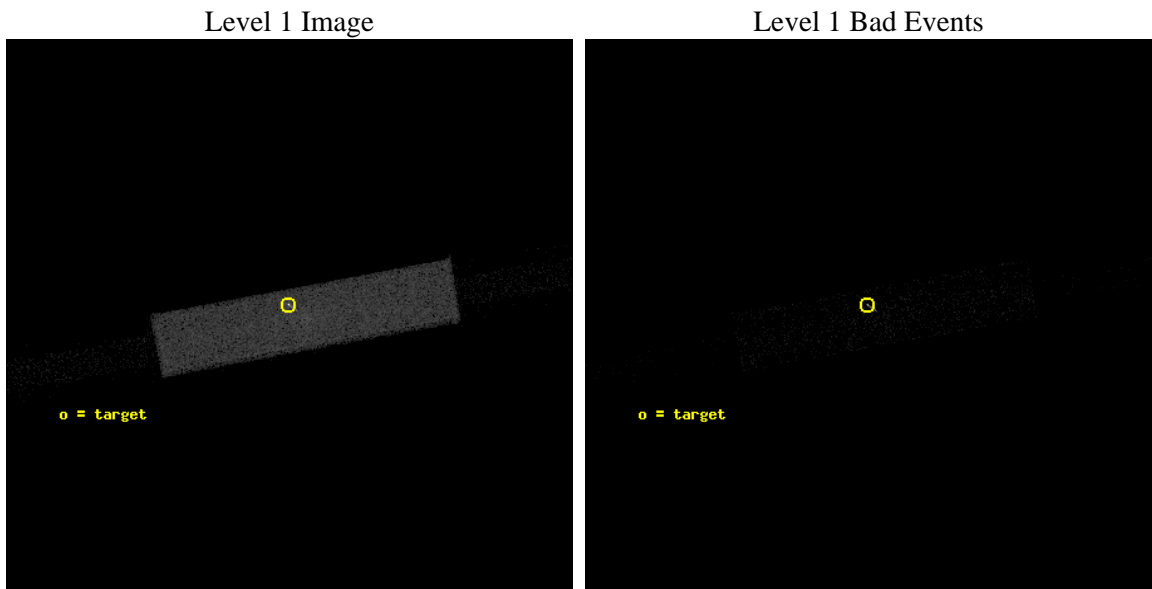
seq_num	290356	Sequence number
obs_id	5083	Observation id
title	AO5A Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.16783931049	Nominal RA [deg]
dec_nom	45.708828614491	Nominal Dec [deg]
roll_nom	349.44769805933	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1087.7812975645	[s]
livetime	1082.1815828217	Ontime multiplied by DTCOR
l2events	39126	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	1087.7812975645	[s]
caldsver	4.5.2	&#160	l1events	65188	Number of level 1 events
date	2012-11-11T14:42:12	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

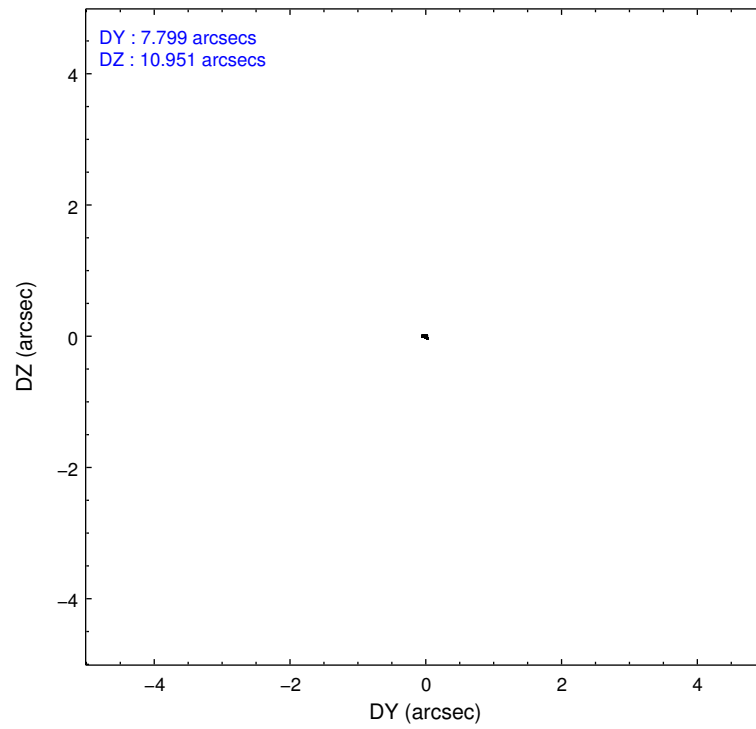
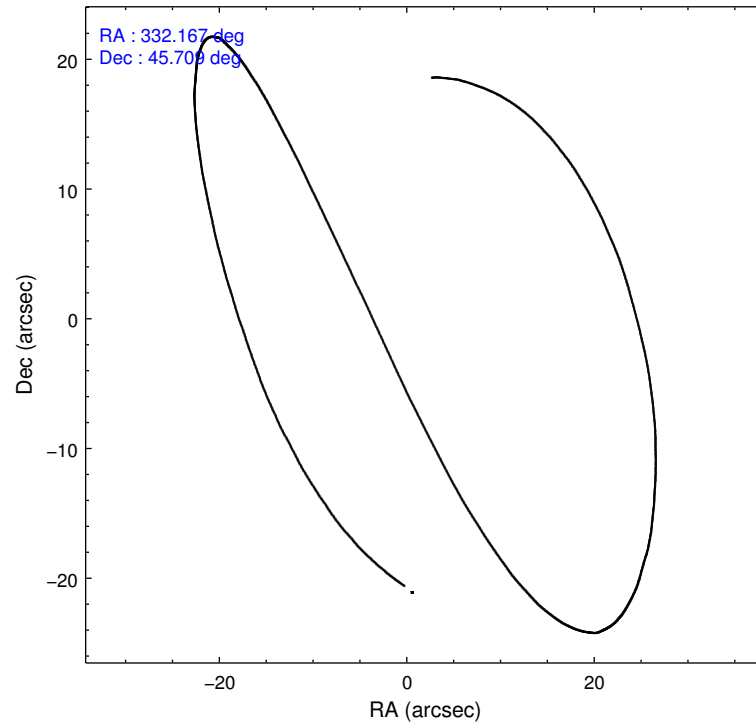
Level 1 Events

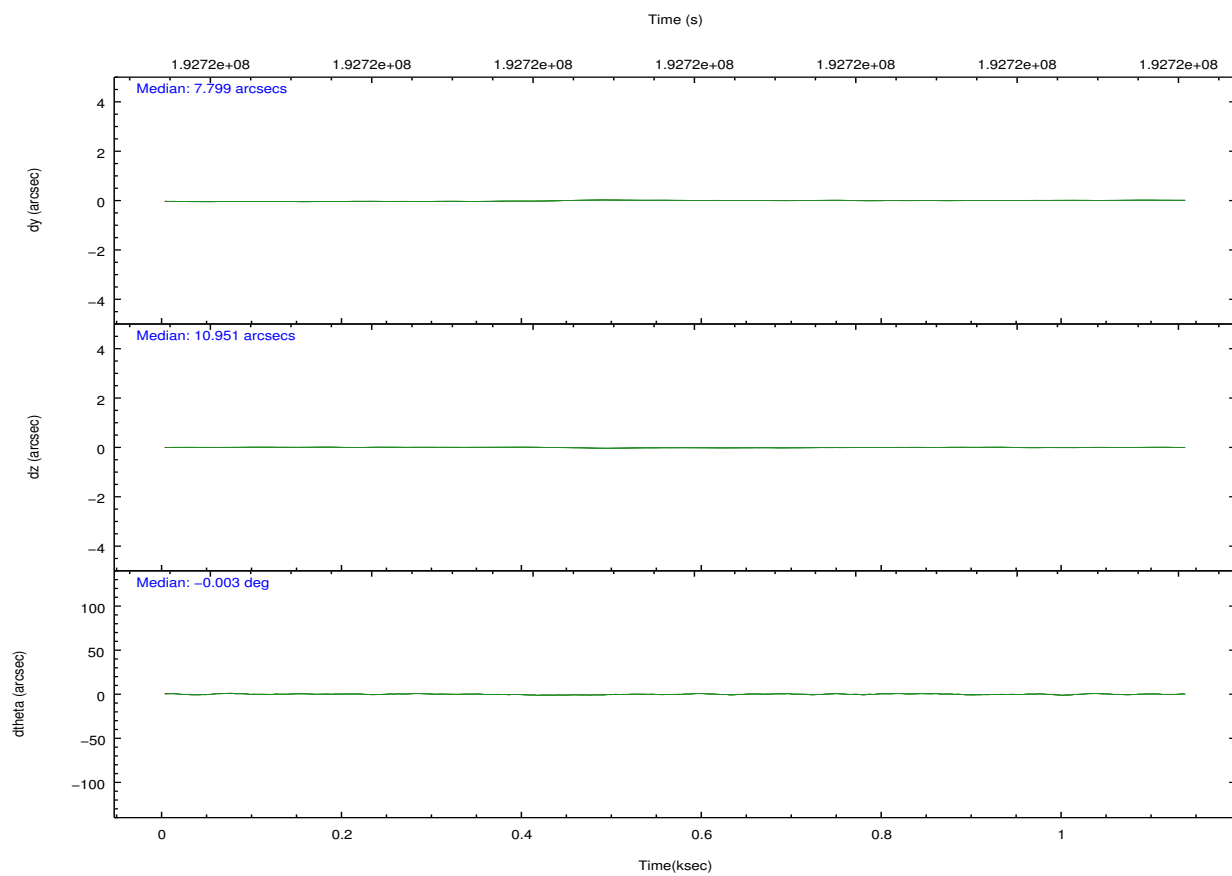
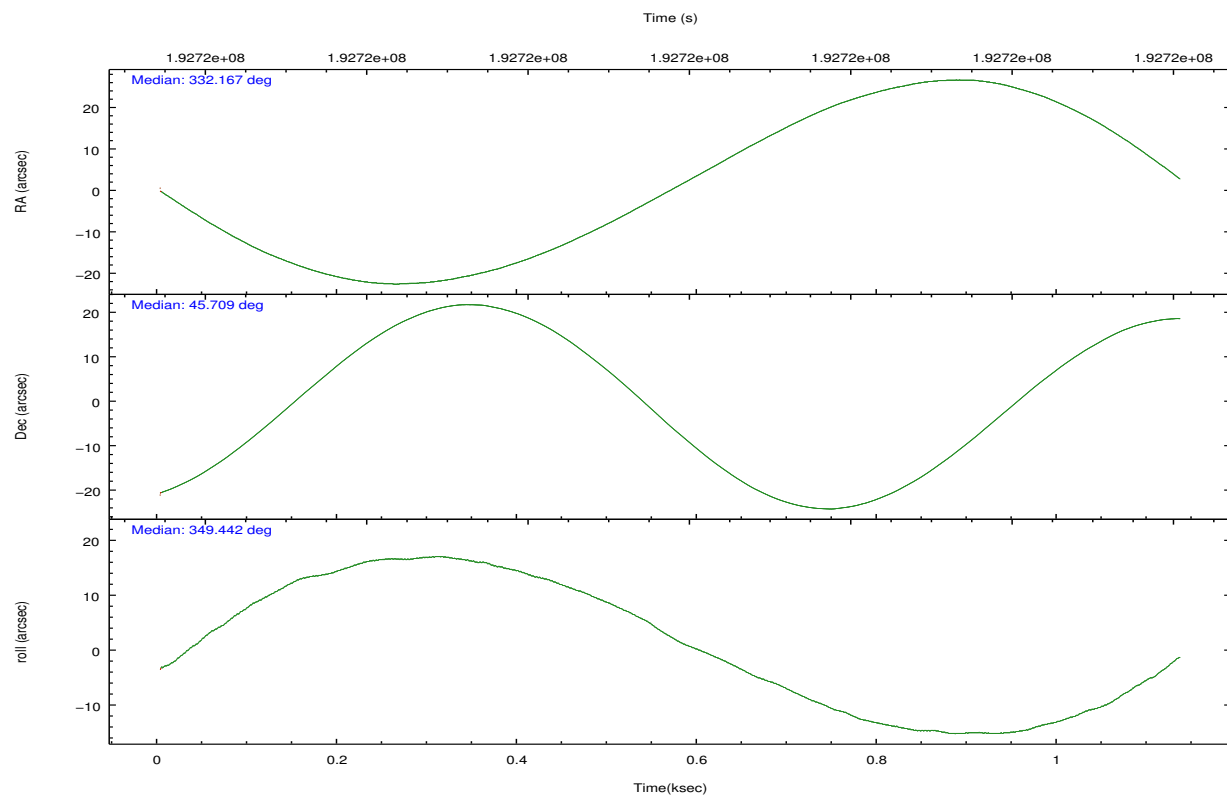
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1004	63105	1079
rejected events	1004	14736	1079
rejected %	100%	23%	100%

## 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	332.129863	332.1678393104866			
[deg] Pointing Dec	45.697704	45.70882861449066			
[deg] Pointing Roll	349.407570	349.4476980593311			
[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)	192722801.184000	192722425.07213			
Observation start date	2004-02-09T14:05:37	2004-02-09T14:00:25			
[s] Observation end time (MET)	192723747.184000	192723880.57219			
Observation end date	2004-02-09T14:21:23	2004-02-09T14:24:40			

## 2.3 Aspect





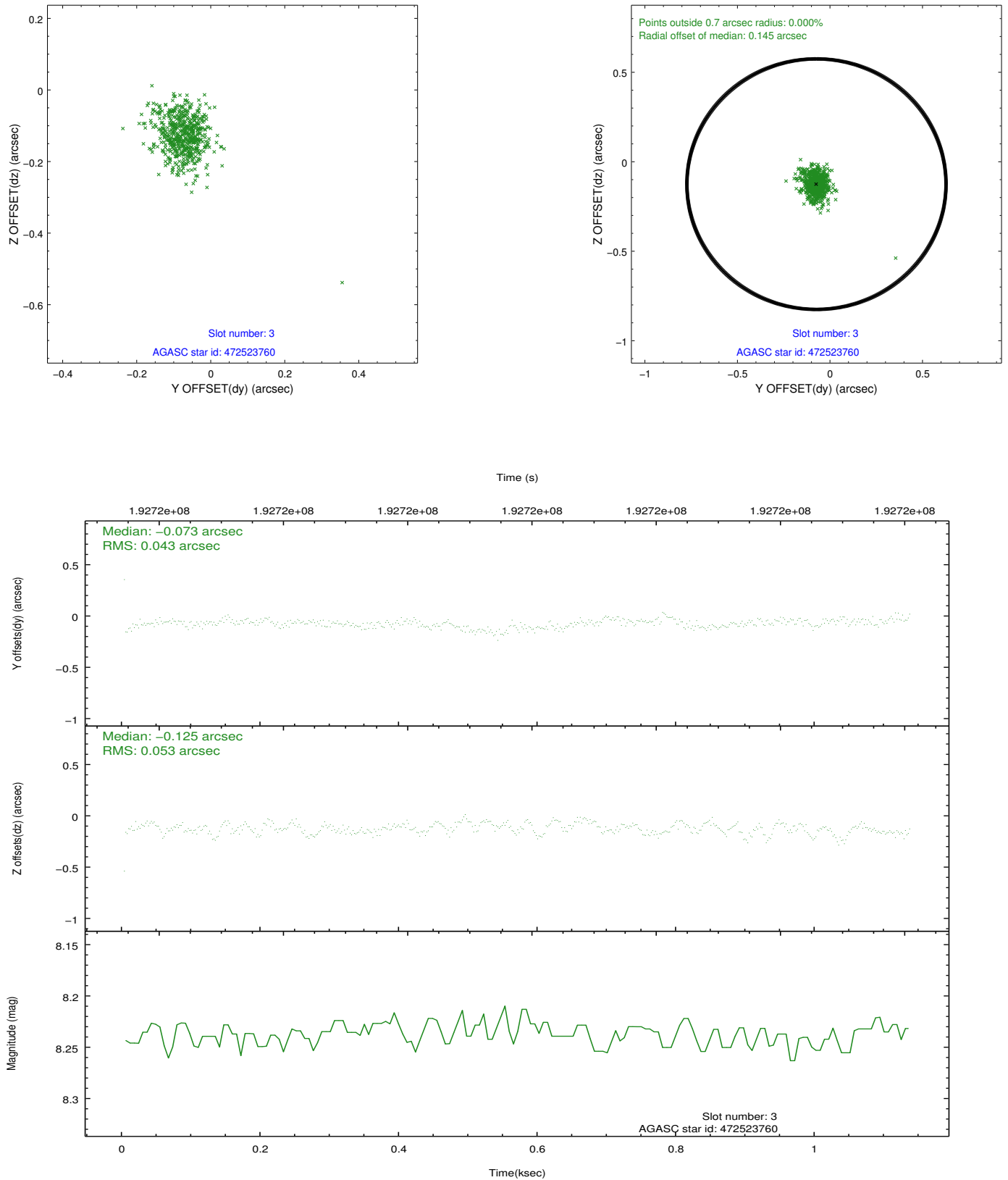
### Slot Statistics

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	277	0.147	-0.170	0.006	0.010	0.000000	0.000000	-1161.94	-459.66
1	FID	HRC-S-2	7.03	277	0.135	-0.111	0.004	0.008	0.000000	0.000000	1233.53	-453.92
2	FID	HRC-S-3	7.05	277	0.106	-0.022	0.006	0.011	0.000000	0.000000	-1160.24	568.38
3	GUIDE	472523760	8.24	554	-0.073	-0.125	0.068	0.111	331.645363	45.403260	-1009.37	-1264.48
4	GUIDE	472527720	6.98	554	-0.072	-0.074	0.060	0.105	331.460205	45.112509	-1287.89	-2379.89
5	GUIDE	472533912	9.17	554	0.012	0.008	0.117	0.176	331.791136	46.368695	-1273.83	2216.30
6	GUIDE	472655152	9.42	553	0.135	0.058	0.102	0.186	332.504239	45.862991	810.80	762.87
7	GUIDE	472659832	9.47	553	0.013	0.118	0.111	0.184	332.780399	46.098139	1331.61	1722.90

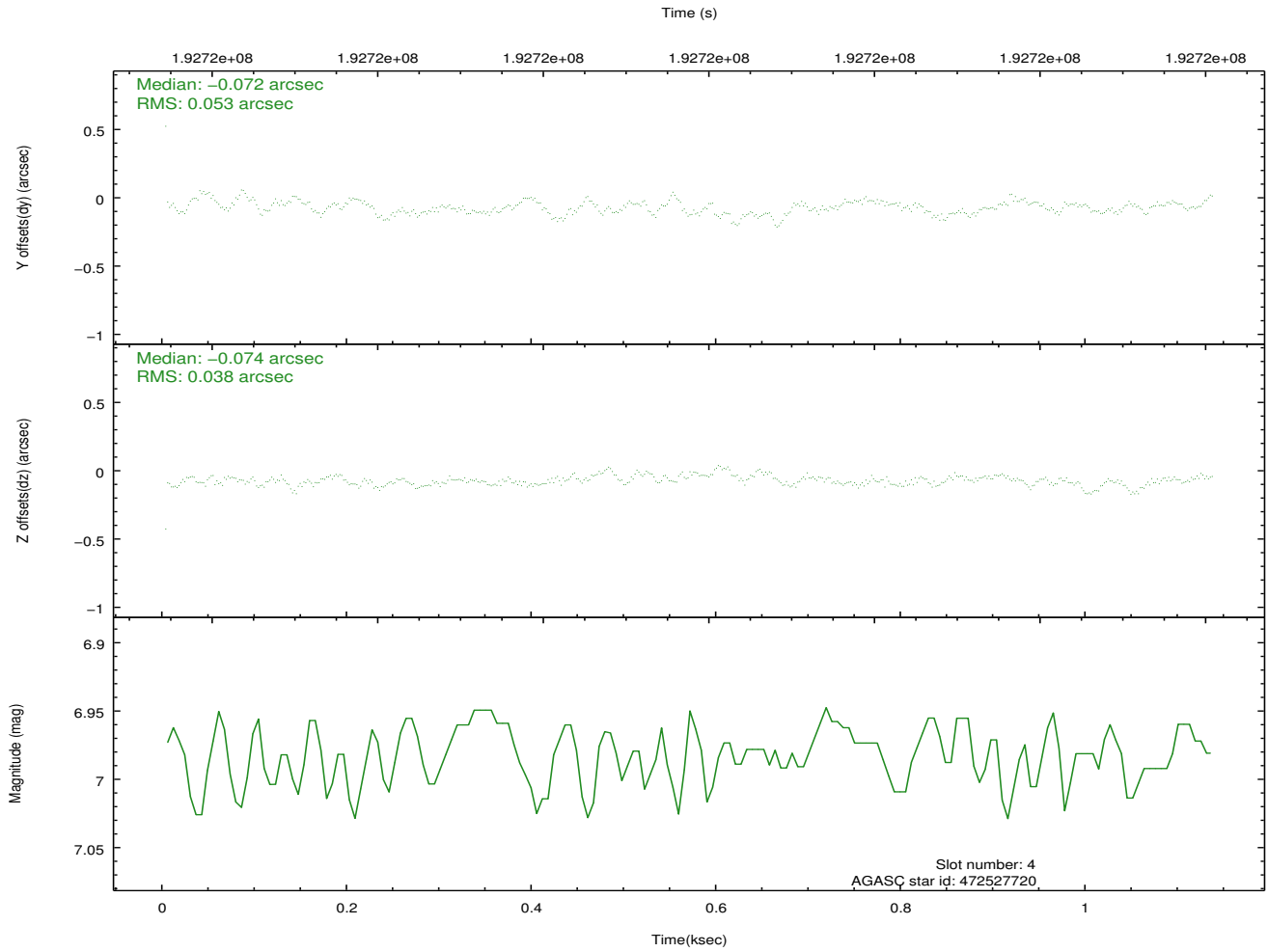
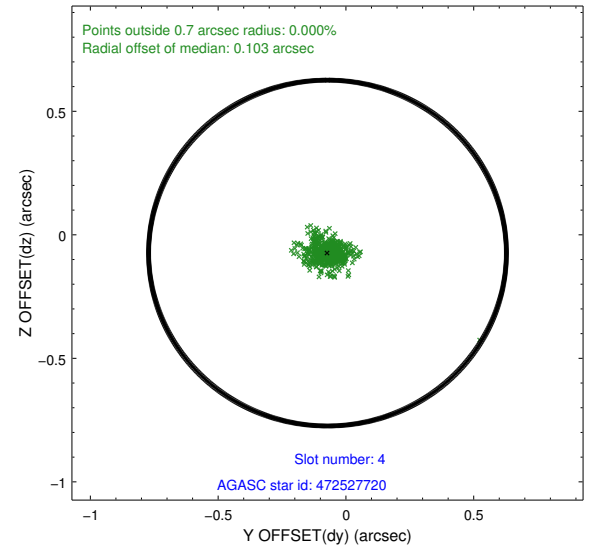
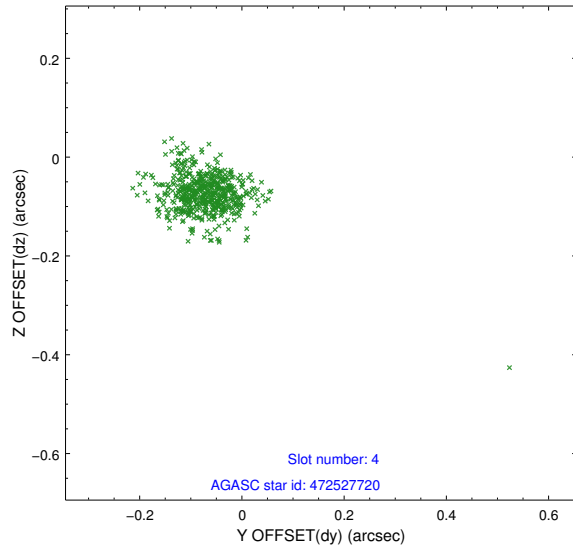


## 2.4 Star Slots

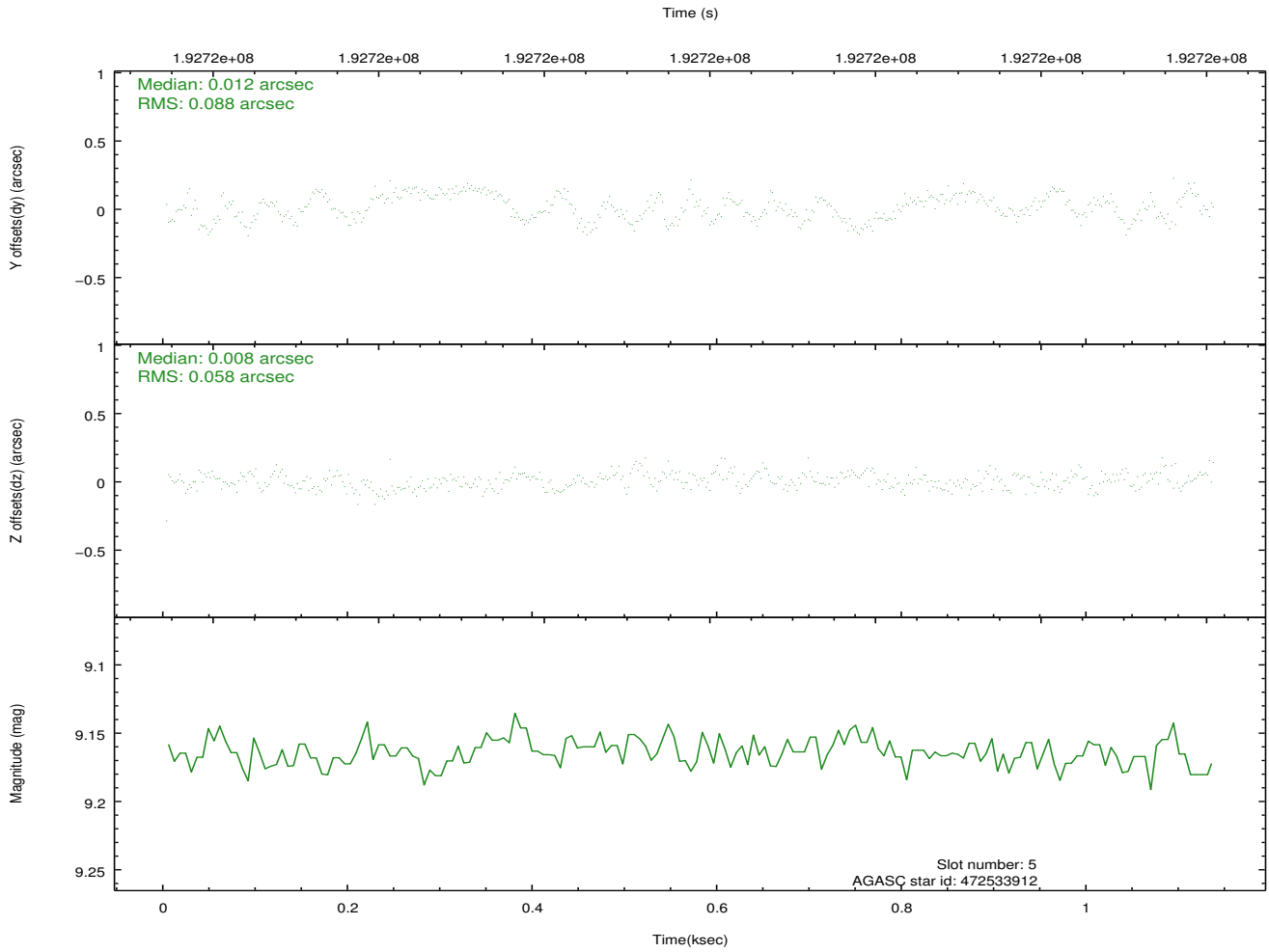
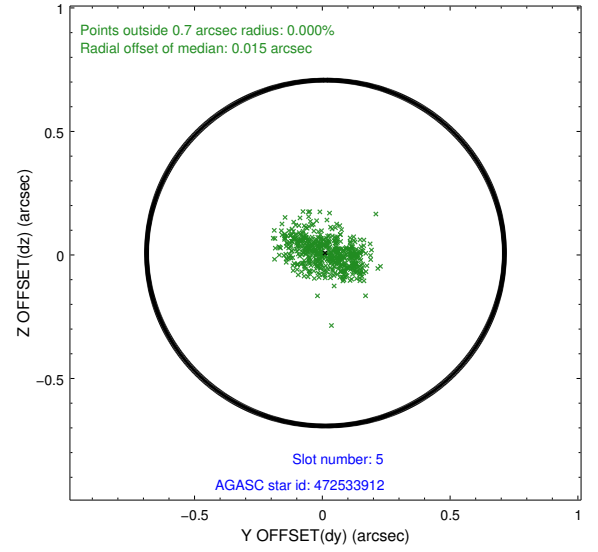
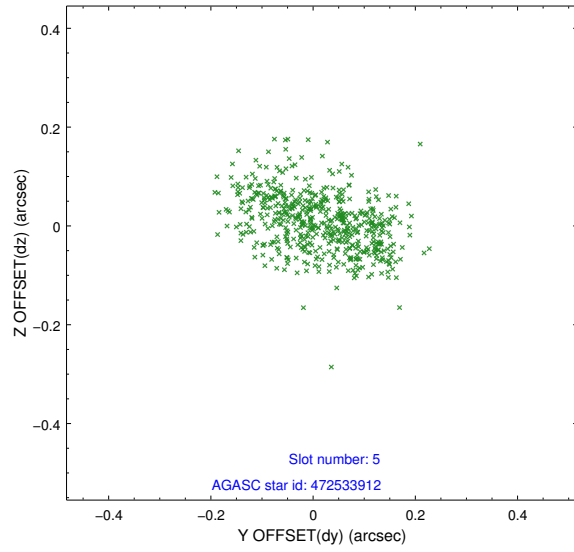
### 2.4.1 Slot 3



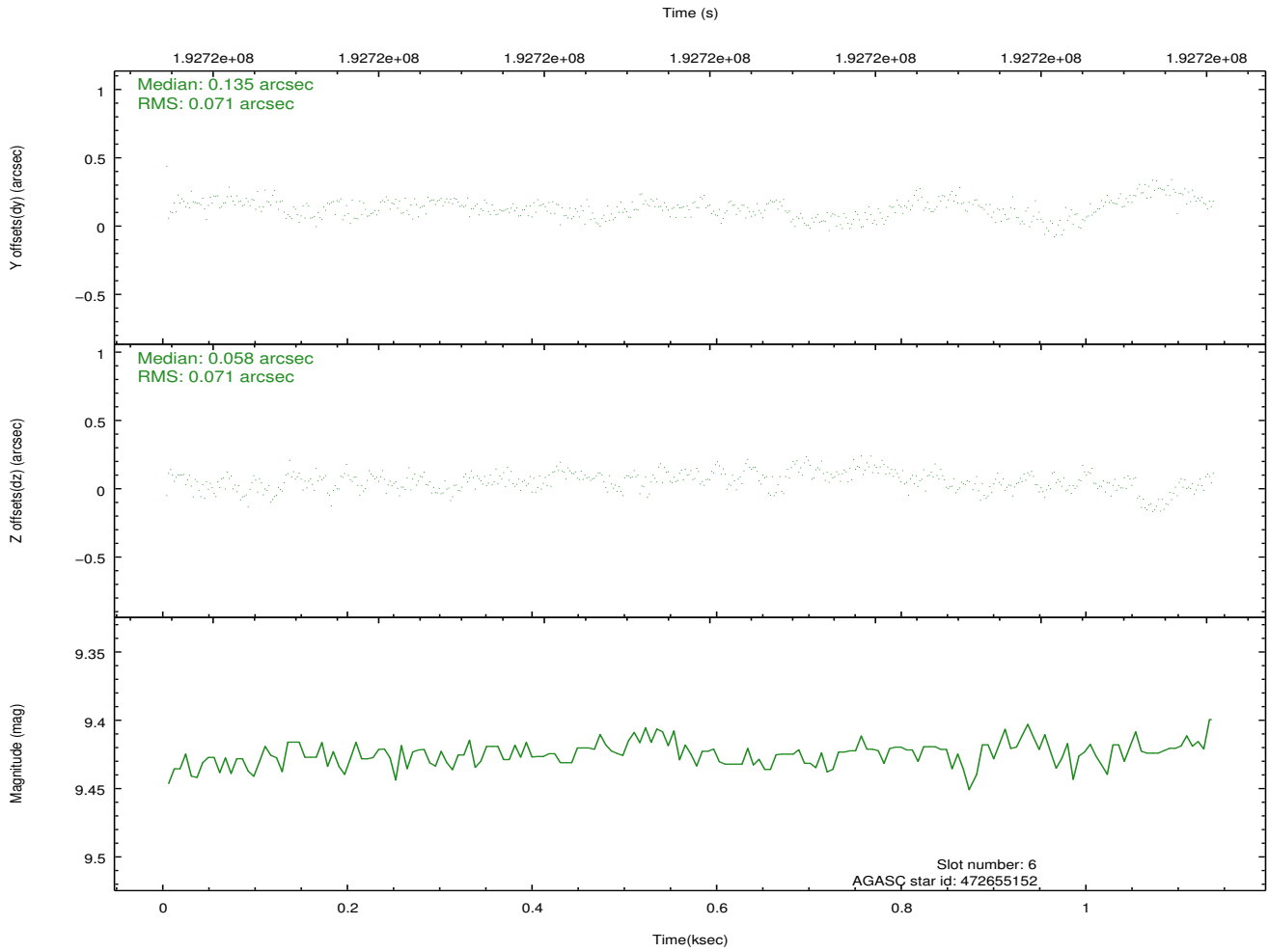
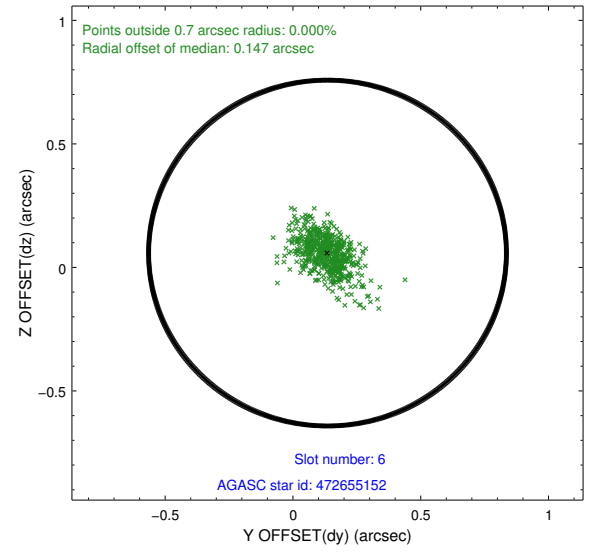
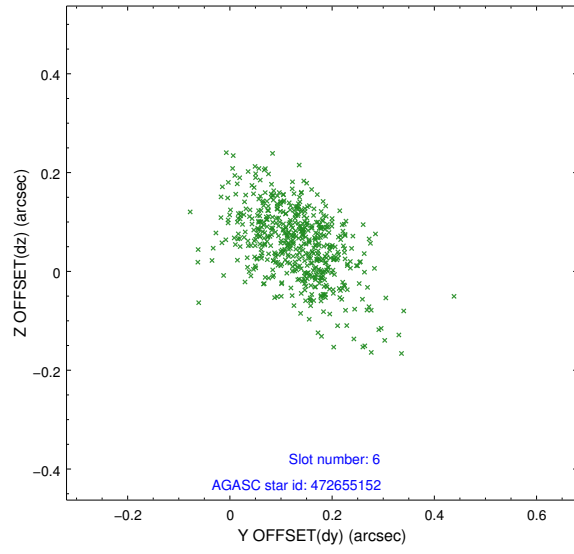
## 2.4.2 Slot 4



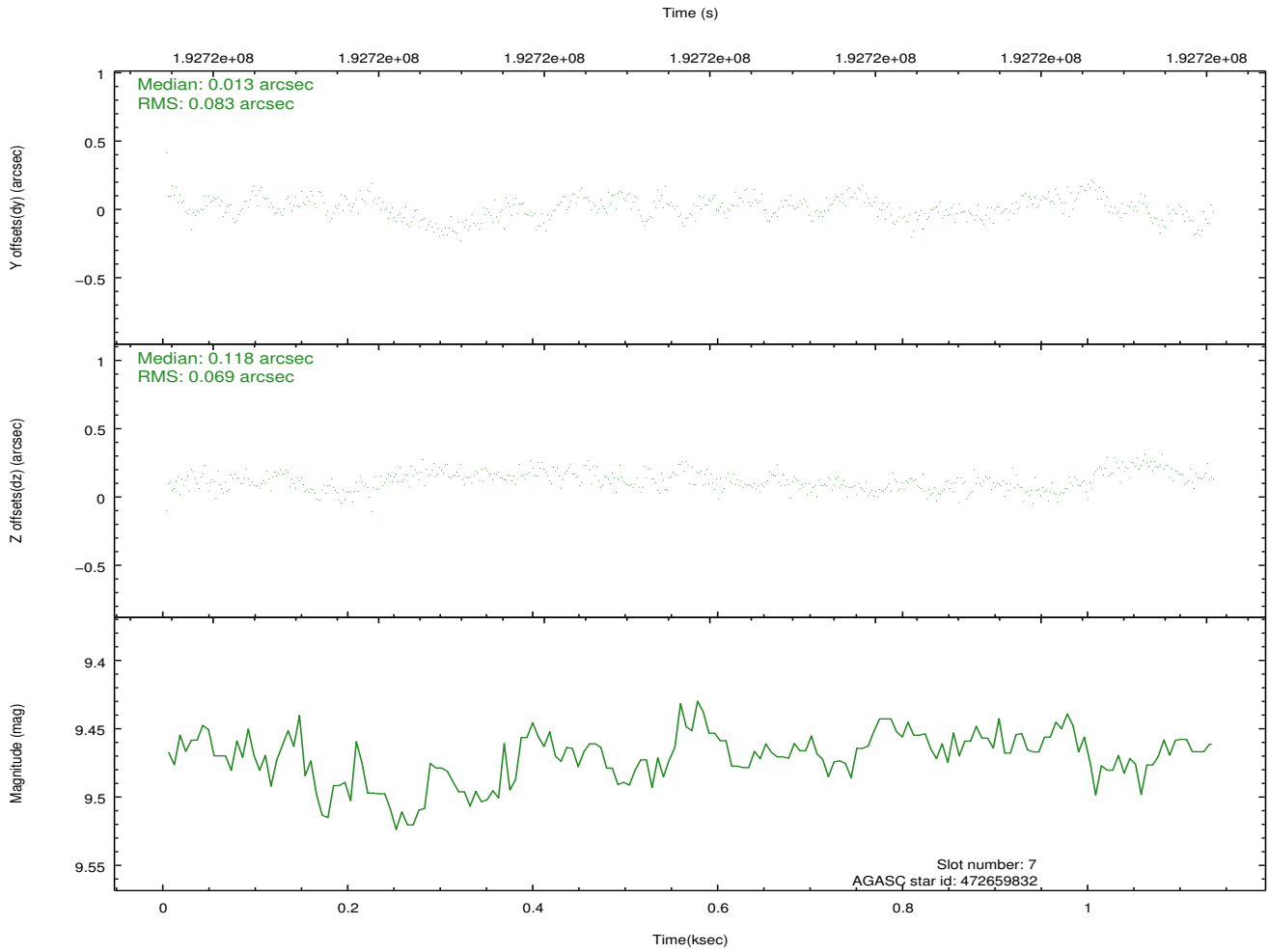
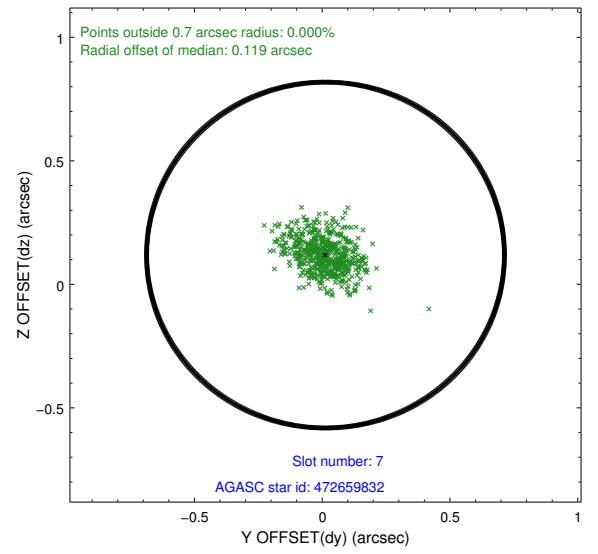
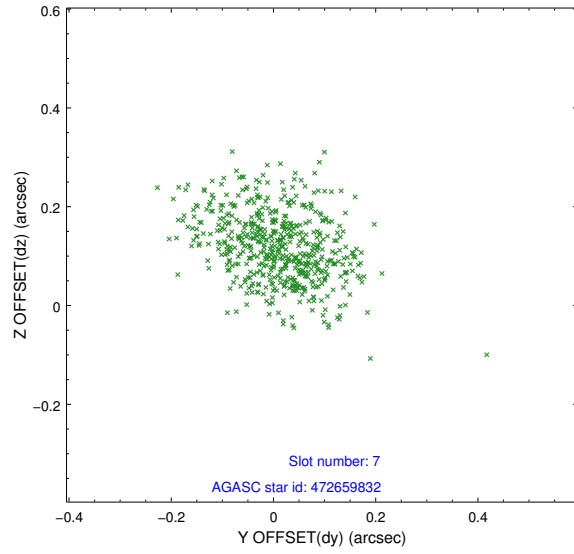
### 2.4.3 Slot 5



## 2.4.4 Slot 6

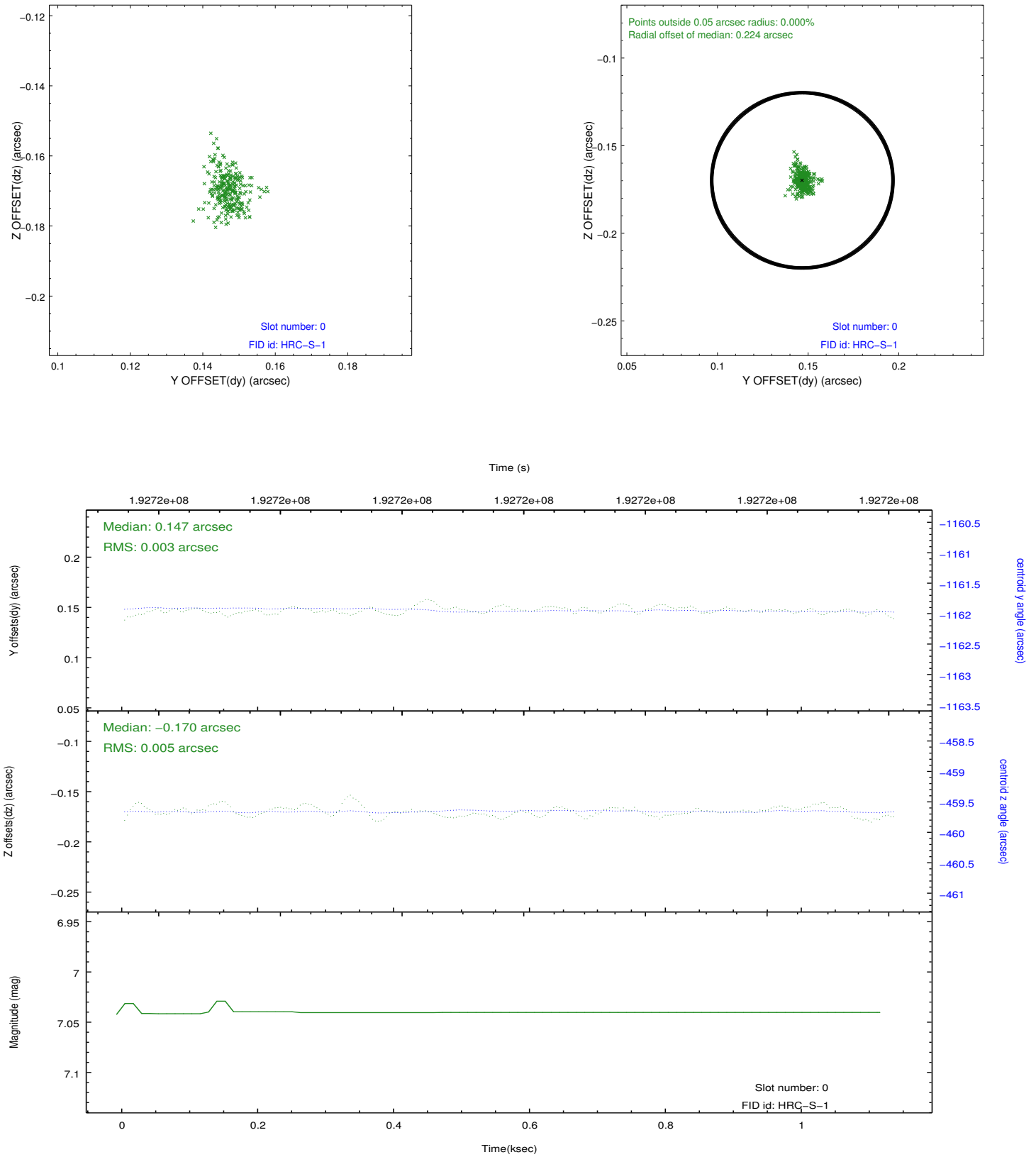


## 2.4.5 Slot 7

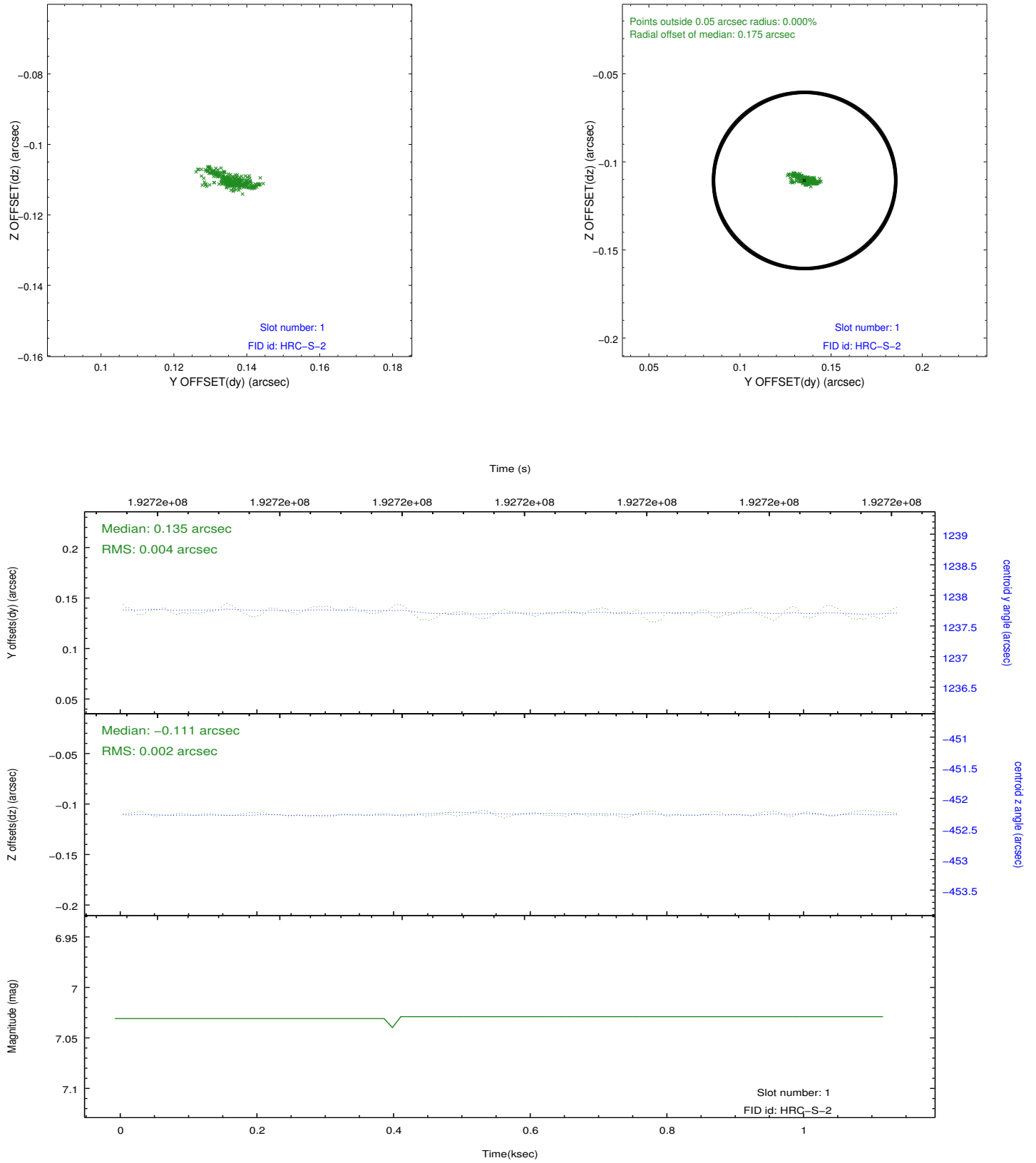


## 2.5 FID Slots

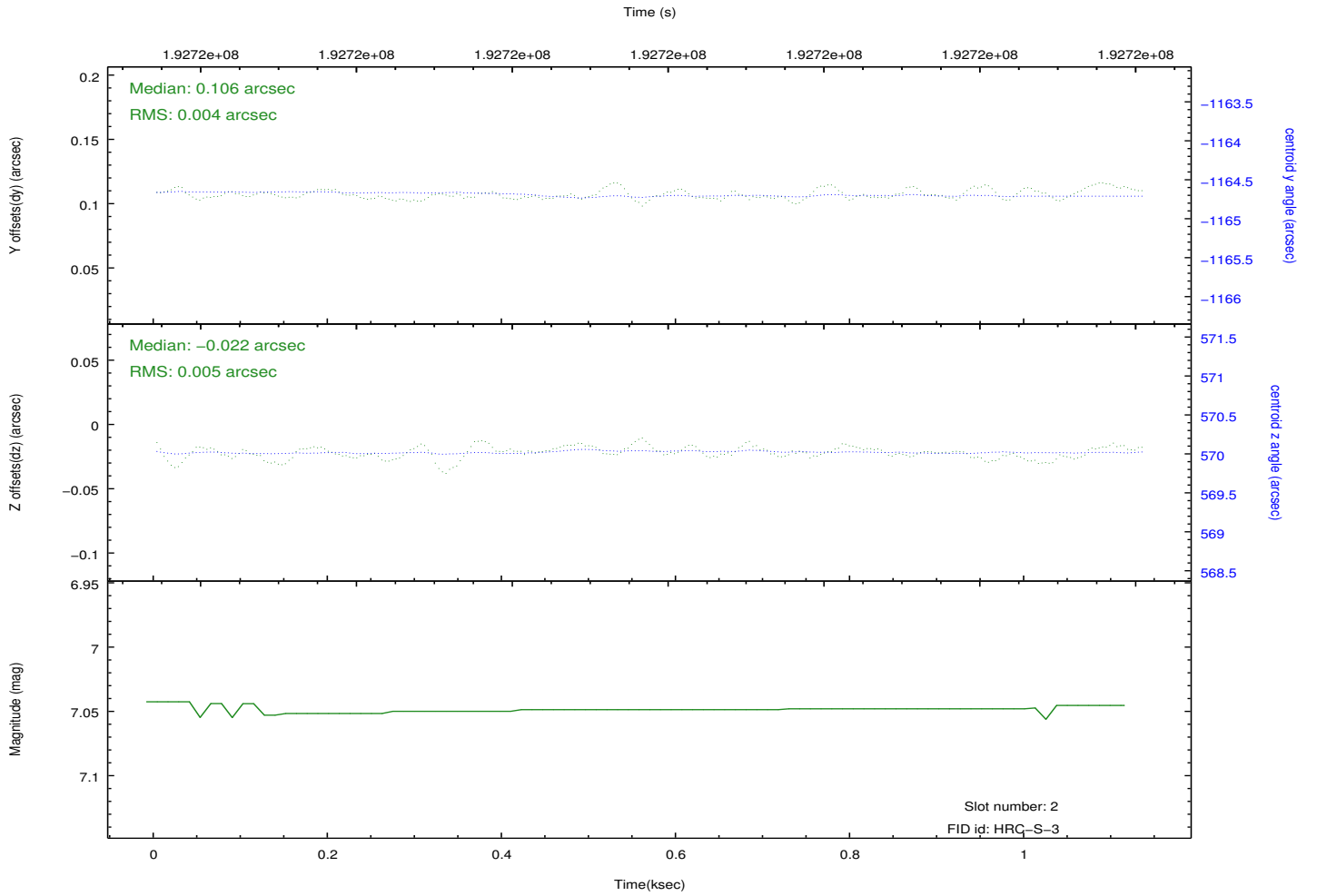
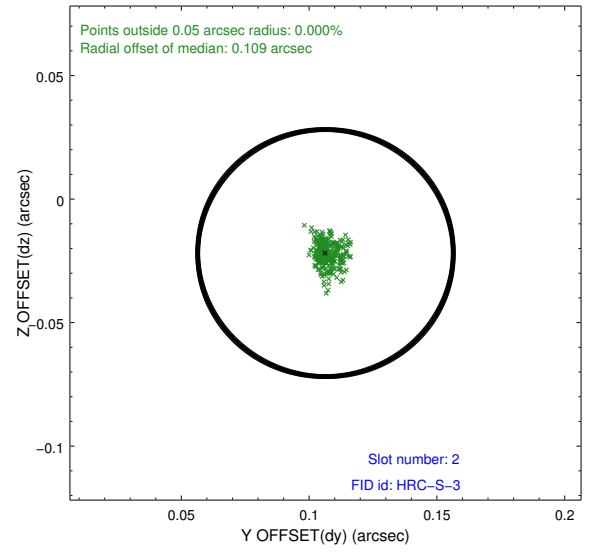
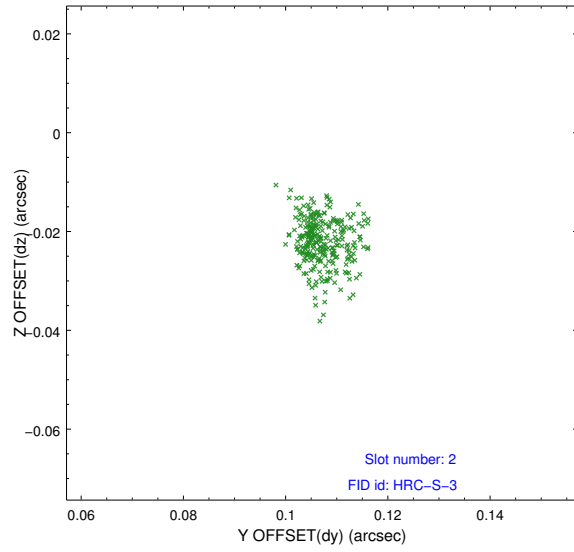
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.087

### A.2 Comments