

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9652 - L2 Version 3  
Chandra X-Ray Center

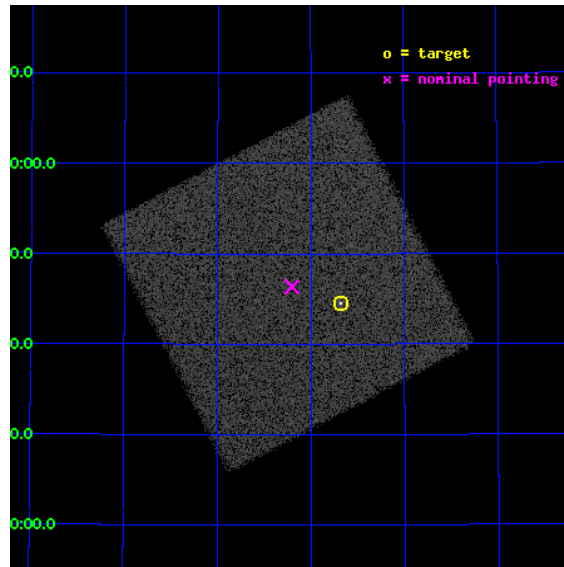
L2 Processing Date : Aug 12 2012

## 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

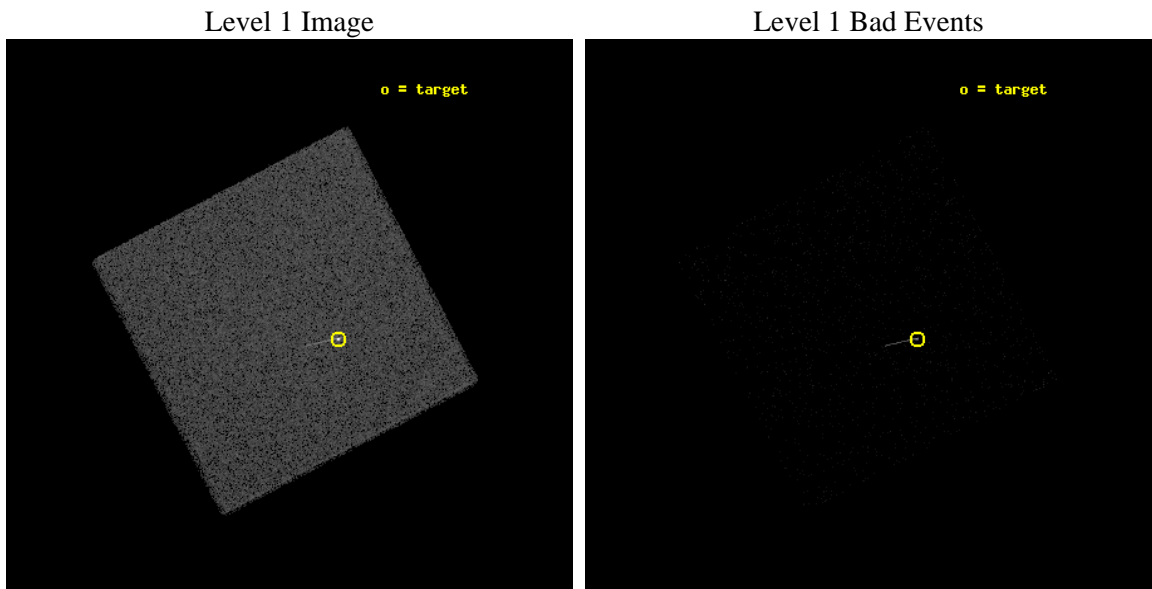
seq_num	290775	Sequence number
obs_id	9652	Observation id
title	AO9 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.30085914537	Nominal RA [deg]
dec_nom	45.772640662936	Nominal Dec [deg]
roll_nom	197.54903588615	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1368.6313171387	[s]
livetime	1353.7064950099	Ontime multiplied by DTCOR
l2events	93628	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	1368.6313171387	[s]
caldbver	4.5.1.1	&#160	l1events	165039	Number of level 1 events
date	2012-08-12T19:45:49	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

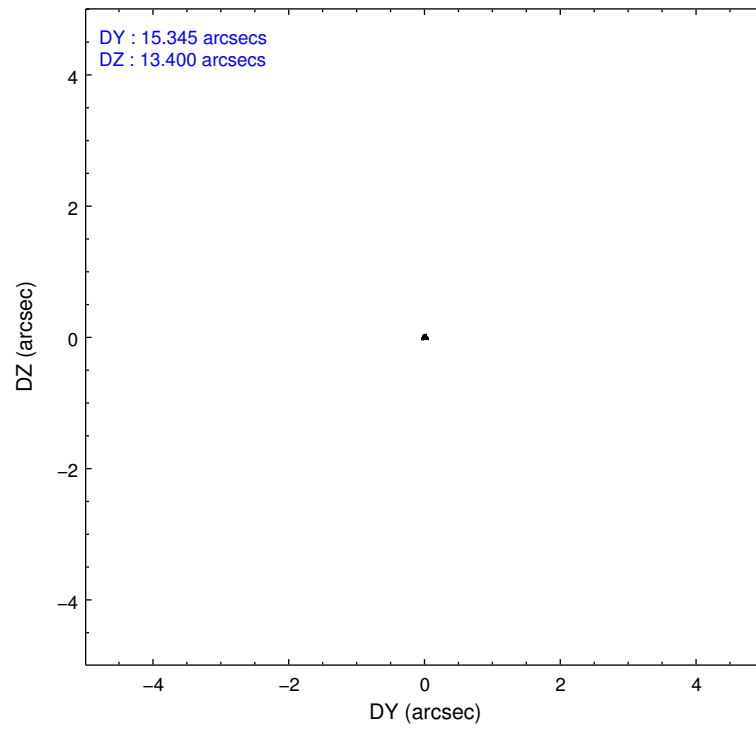
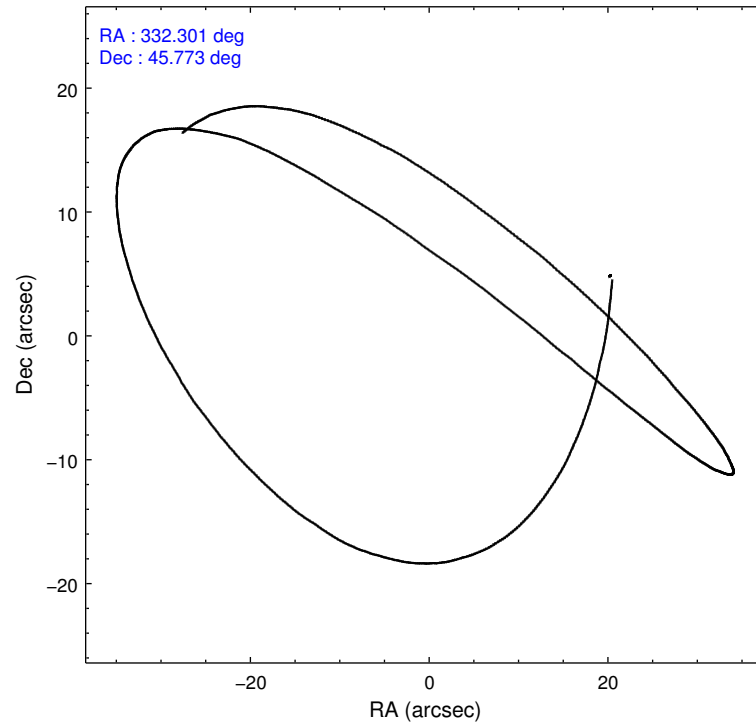
#### Level 1 Events

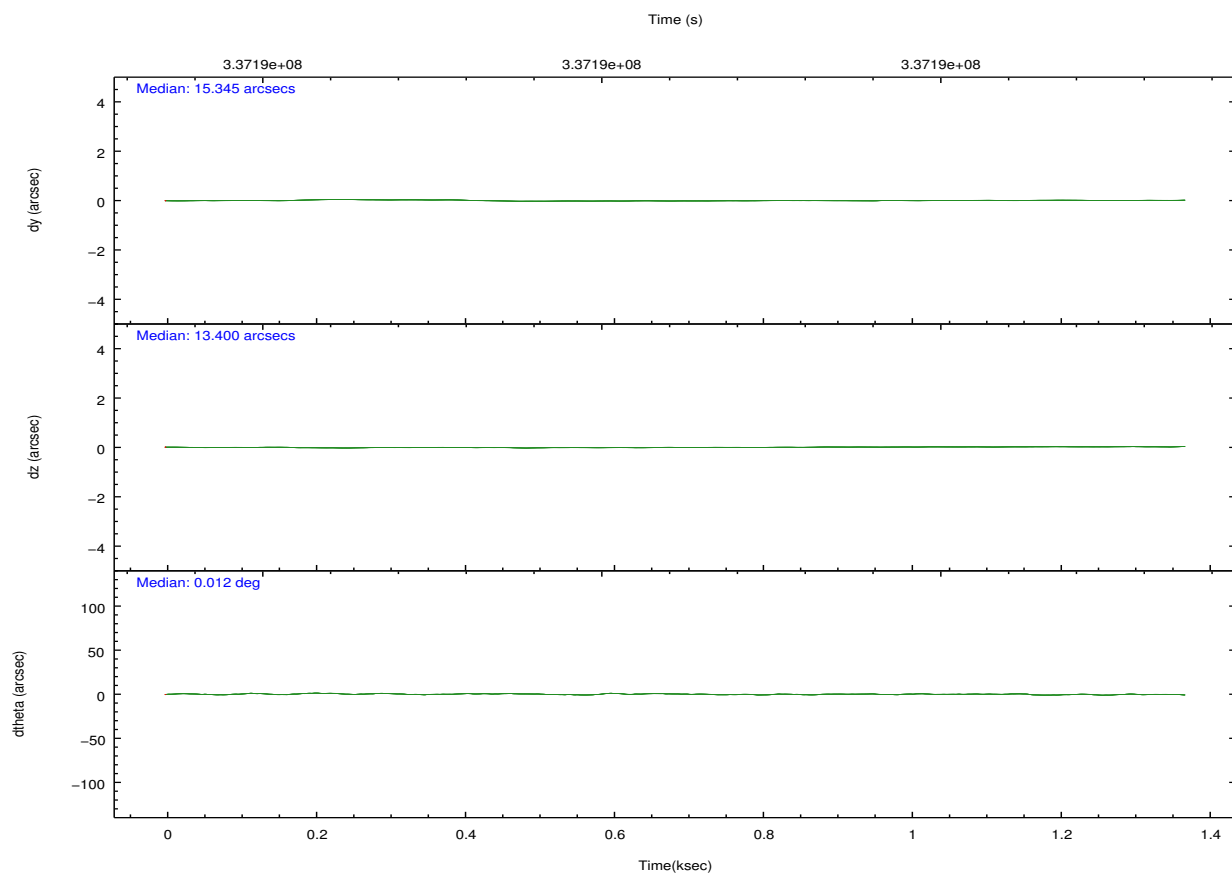
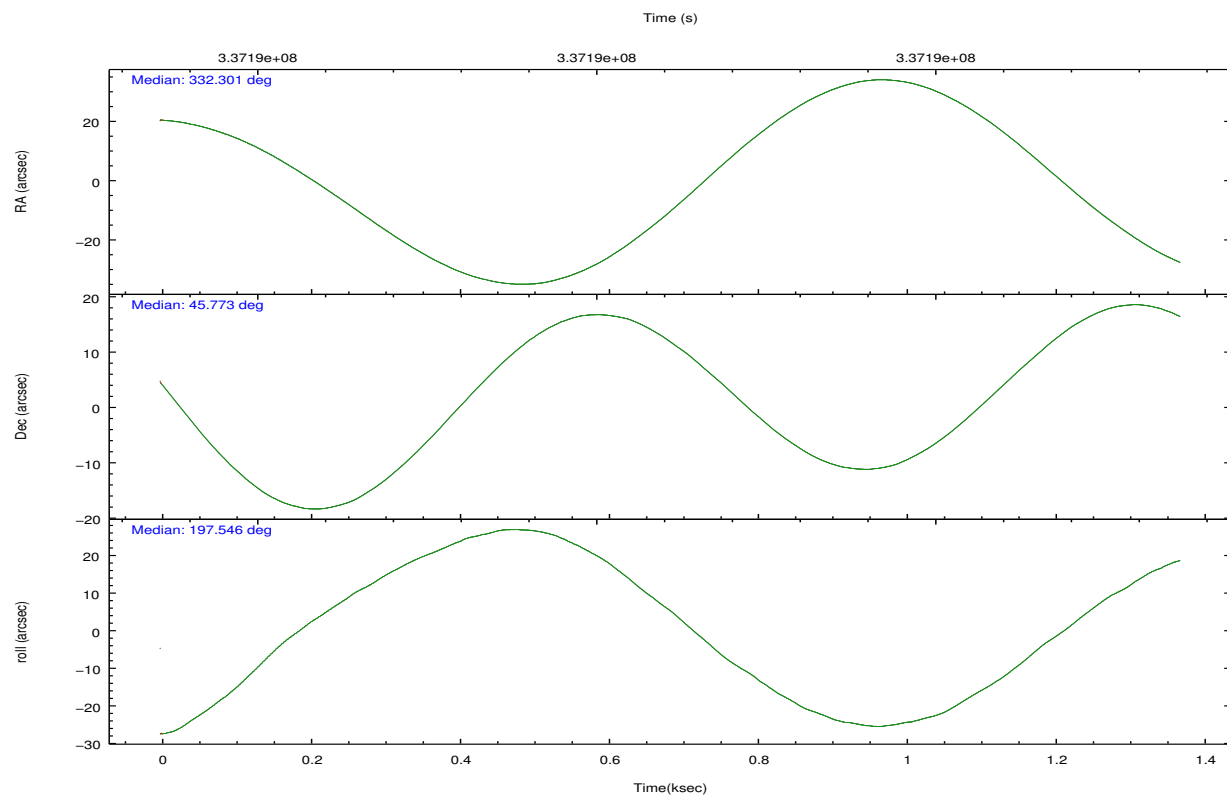
	<b>segment 0</b>
level 1 events	165039
rejected events	30861
rejected %	18%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.326160	332.3008591453686			
[deg] Pointing Dec	45.793484	45.77264066293584			
[deg] Pointing Roll	197.626393	197.5490358861465			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	337190107.184000	337189730.74368			
Observation start date	2008-09-07T15:54:02	2008-09-07T15:48:50			
[s] Observation end time (MET)	337191287.184000	337191420.96876			
Observation end date	2008-09-07T16:13:42	2008-09-07T16:17:00			

## 2.3 Aspect





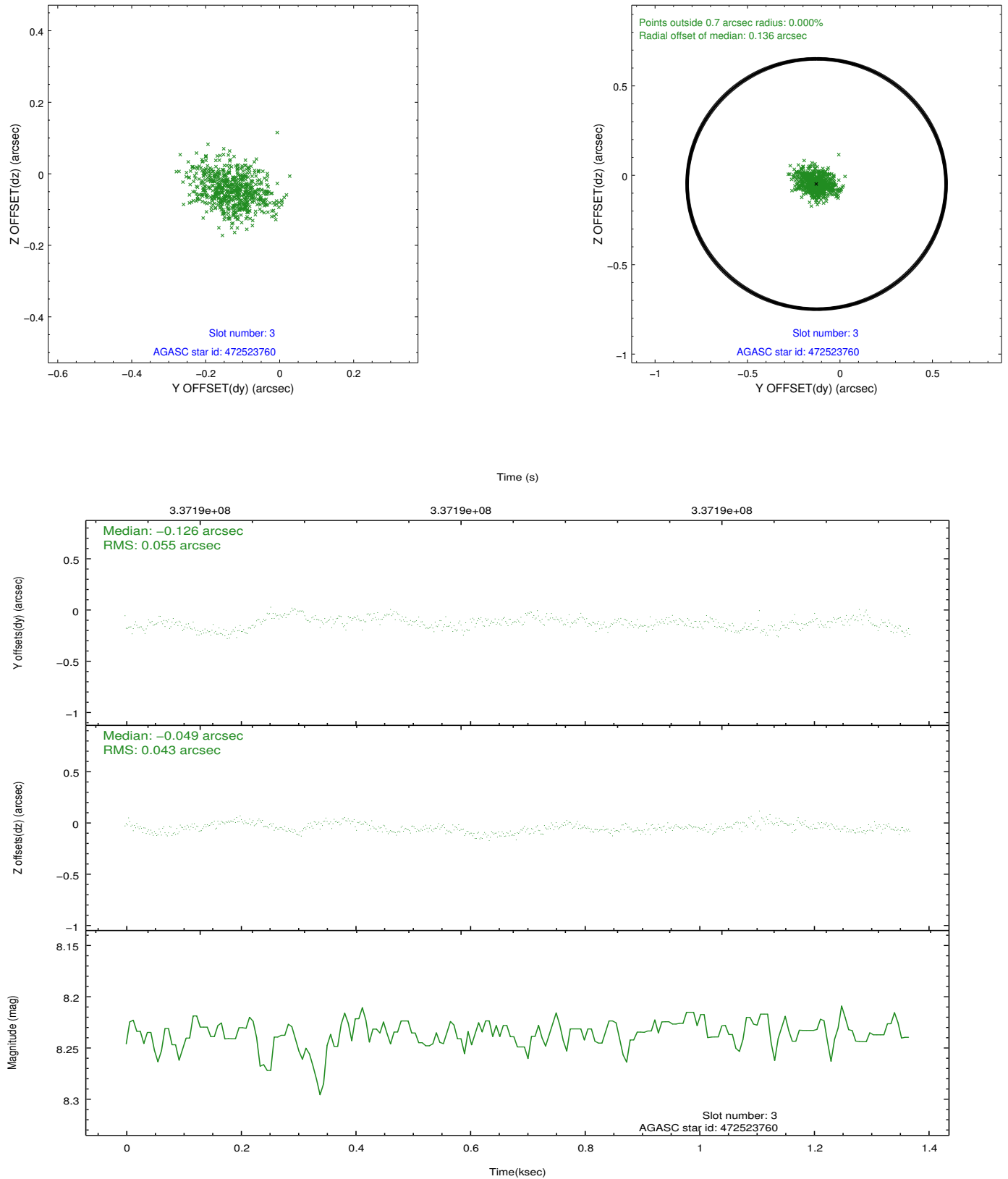
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	7.00	335	0.019	-0.036	0.006	0.010	0.000000	0.000000	-771.23	-1301.42
1	FID	HRC-I-3	7.08	335	-0.087	-0.040	0.007	0.011	0.000000	0.000000	-1201.97	999.28
2	FID	HRC-I-4	7.02	335	0.181	-0.013	0.005	0.008	0.000000	0.000000	1268.29	1003.62
3	GUIDE	472523760	8.24	669	-0.126	-0.049	0.075	0.122	331.645363	45.403260	2064.03	809.73
4	GUIDE	472535576	7.87	669	-0.084	0.082	0.064	0.108	331.438373	46.291802	1561.89	-2390.04
5	GUIDE	472655152	9.45	667	0.126	0.000	0.118	0.196	332.504239	45.862991	-498.04	-108.43
6	GUIDE	472663088	8.99	669	-0.056	0.032	0.092	0.151	332.931735	46.600119	-2308.50	-2320.95
7	GUIDE	472665256	9.02	667	0.135	-0.057	0.081	0.136	332.808125	46.195041	-1585.79	-1022.40

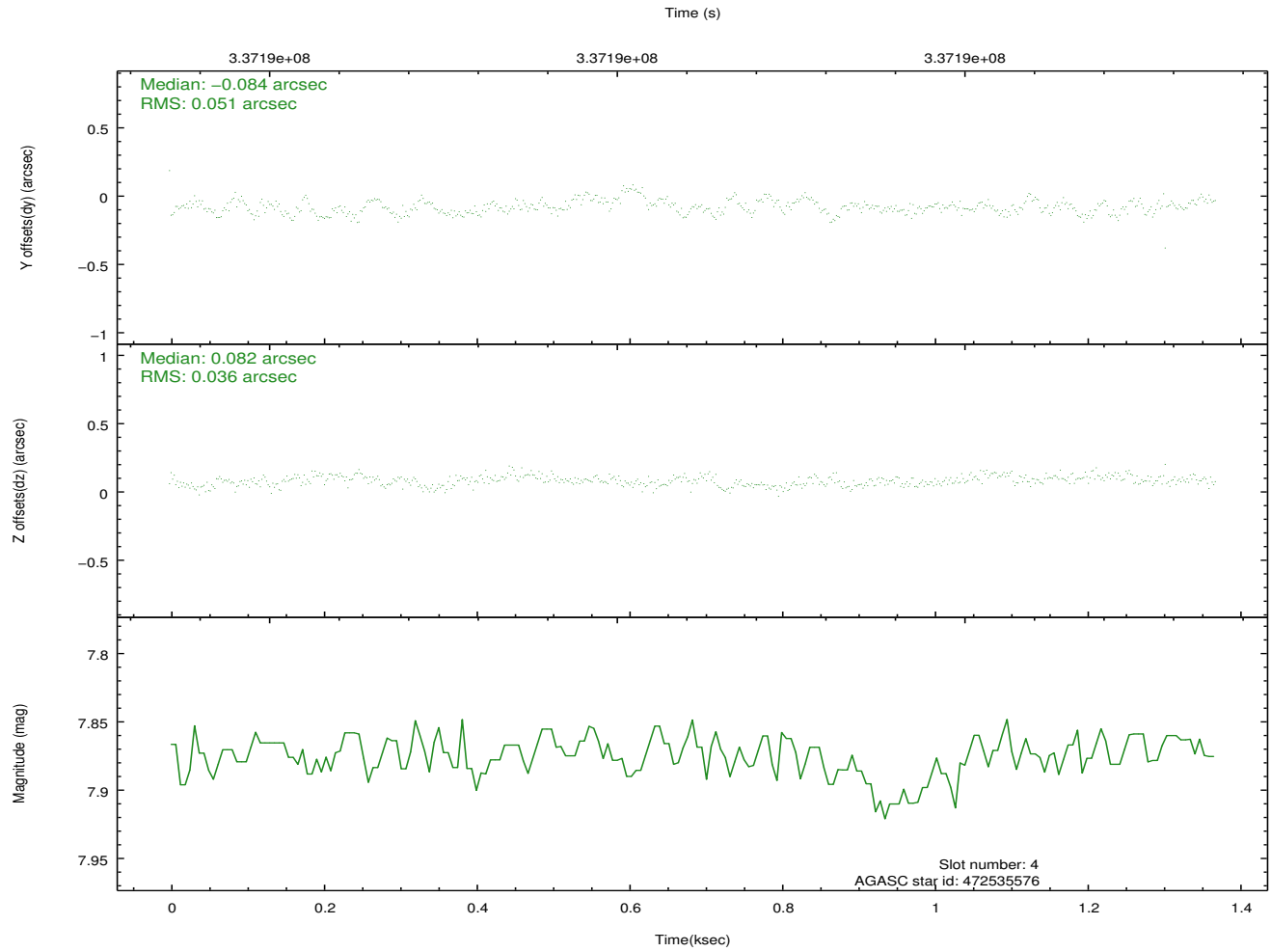
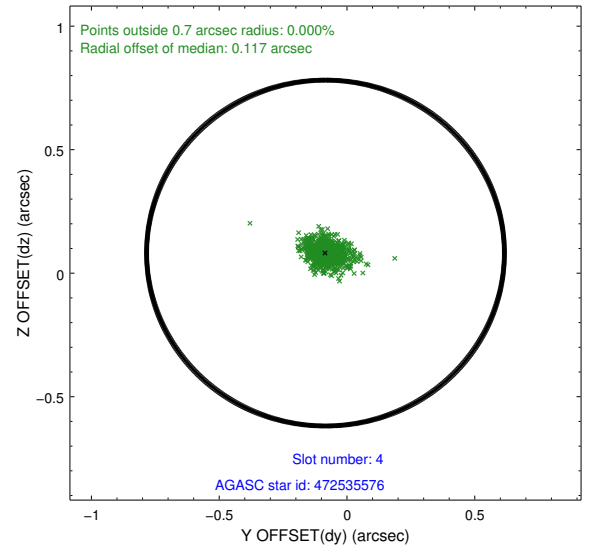
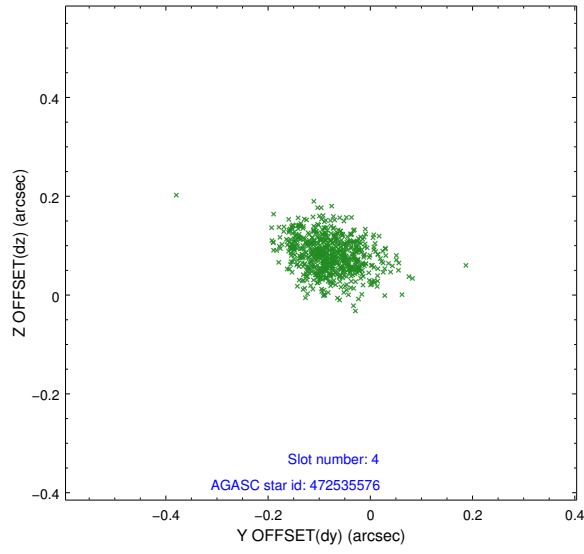


## 2.4 Star Slots

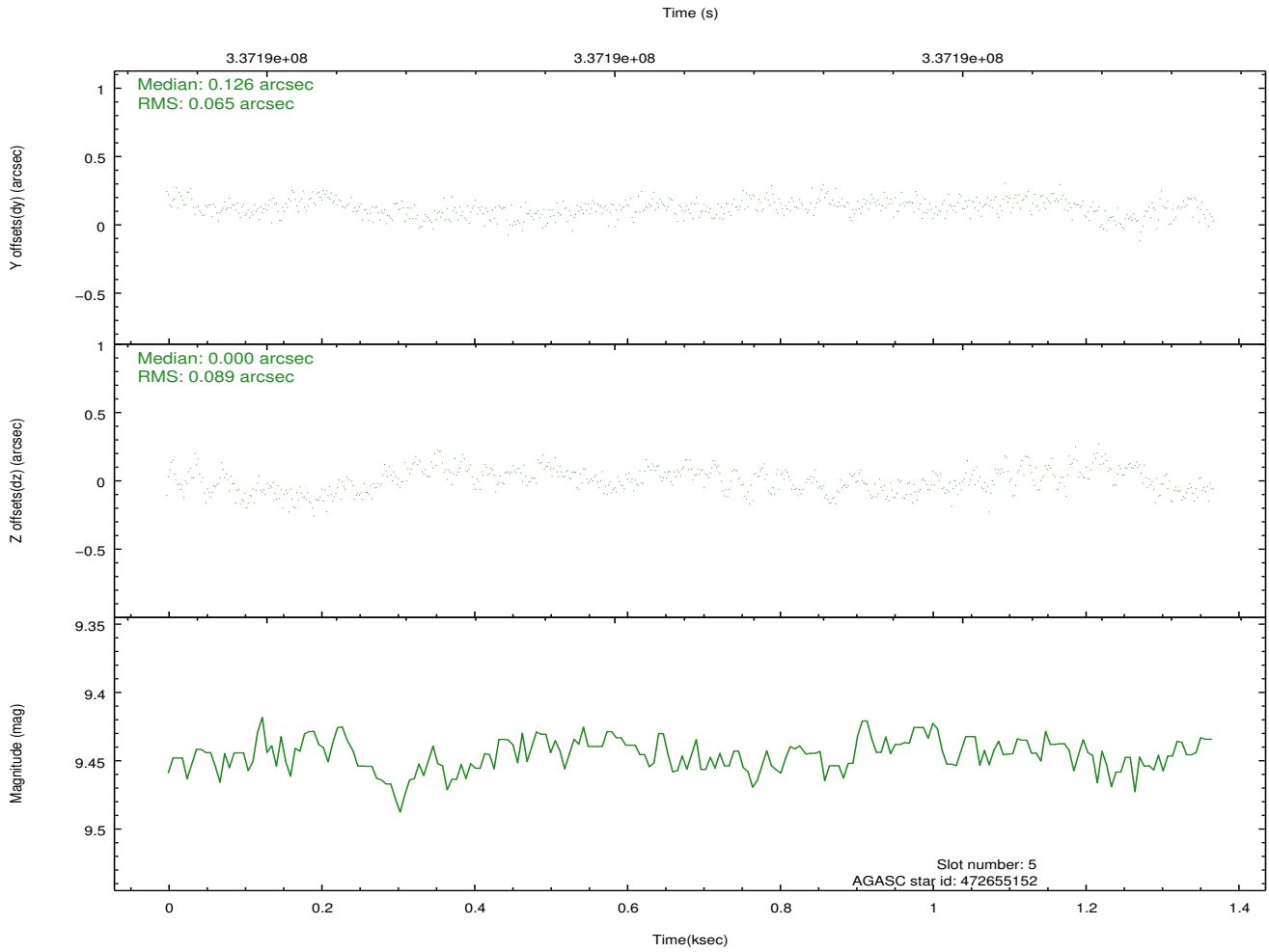
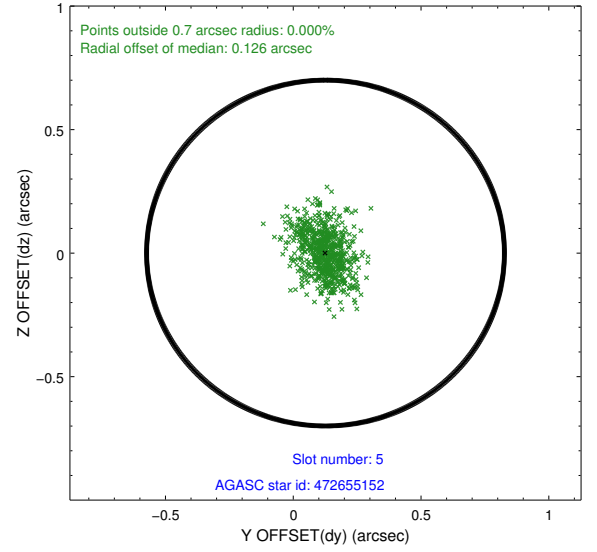
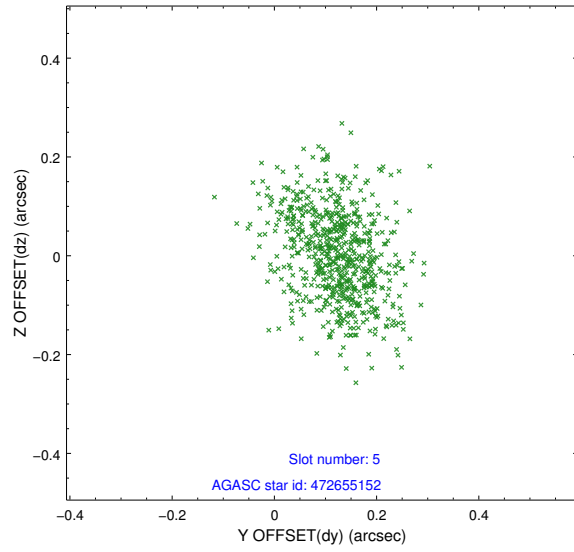
### 2.4.1 Slot 3



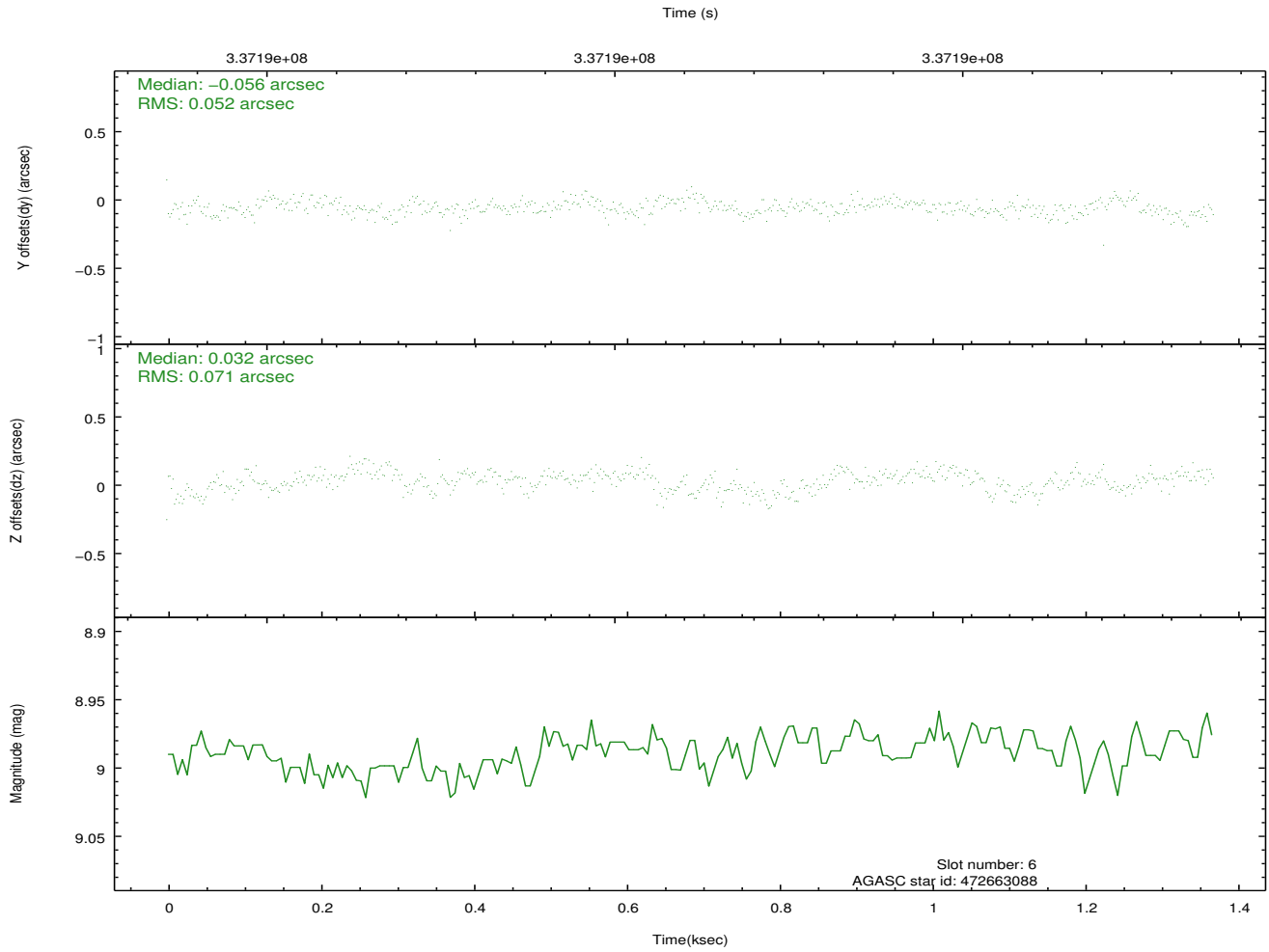
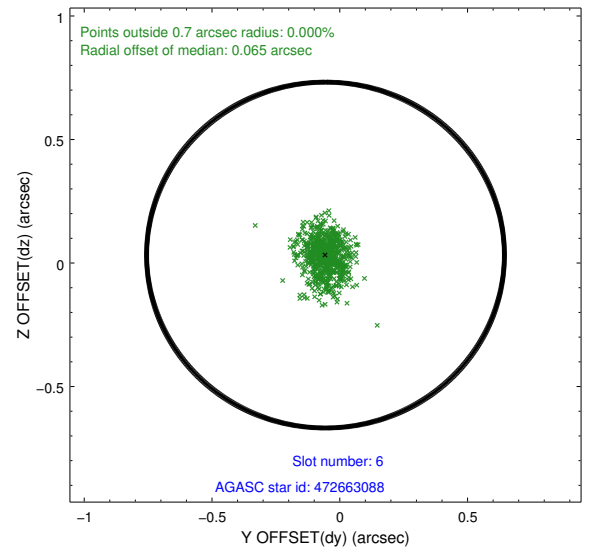
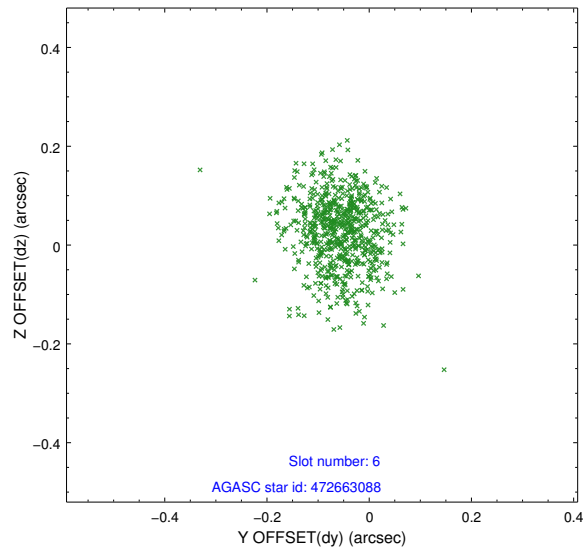
## 2.4.2 Slot 4



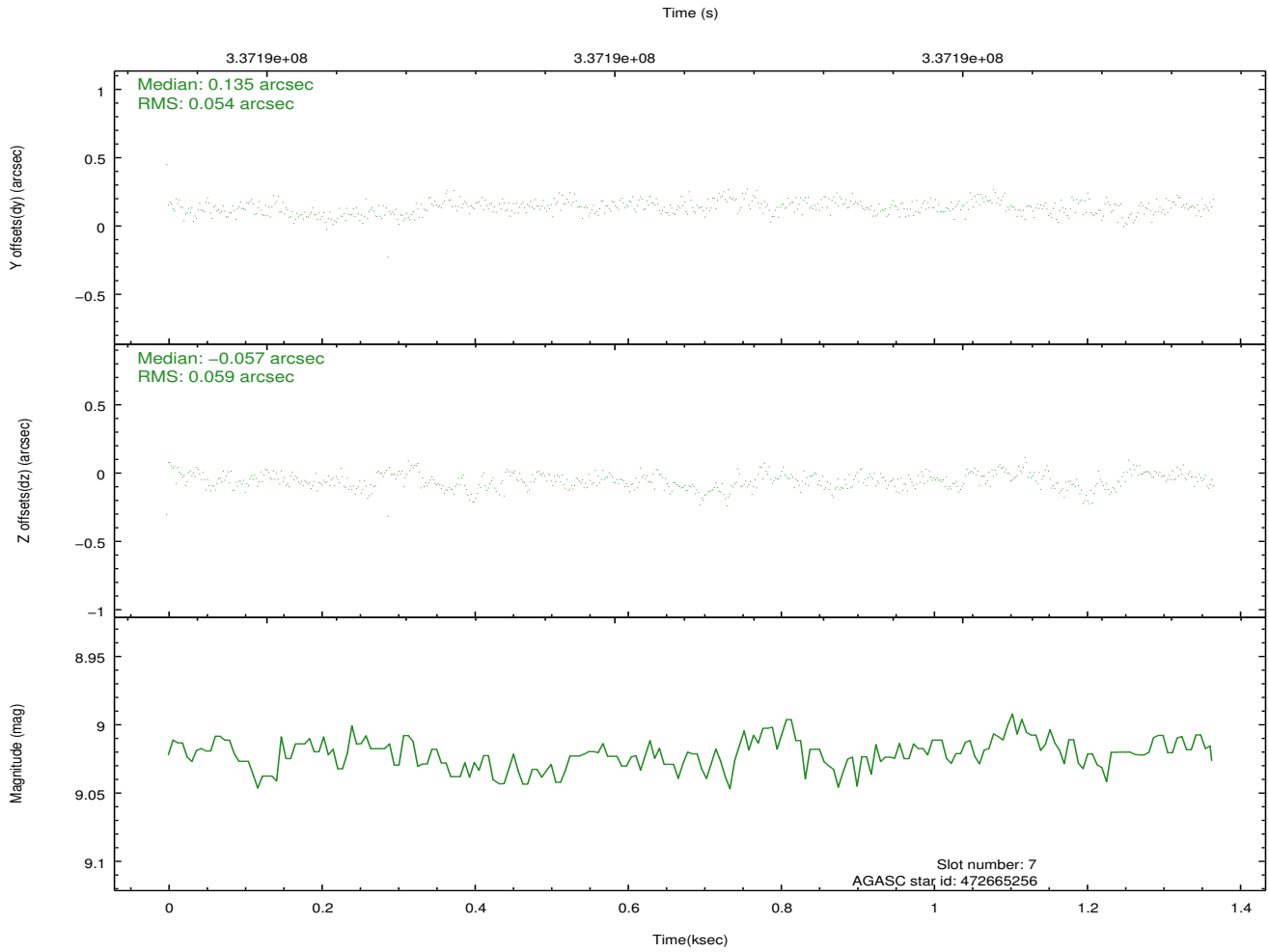
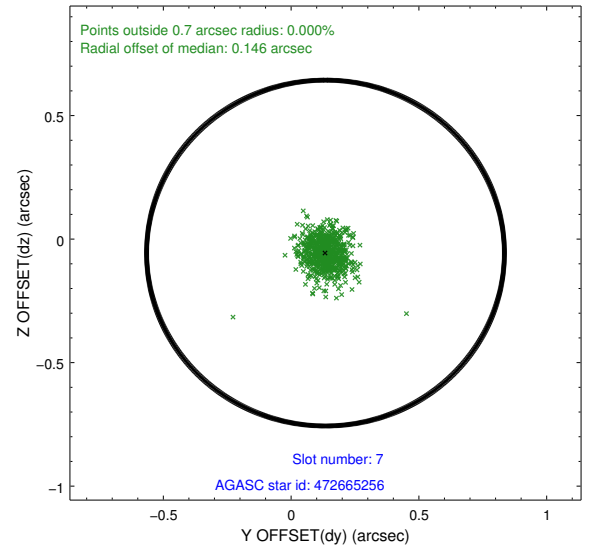
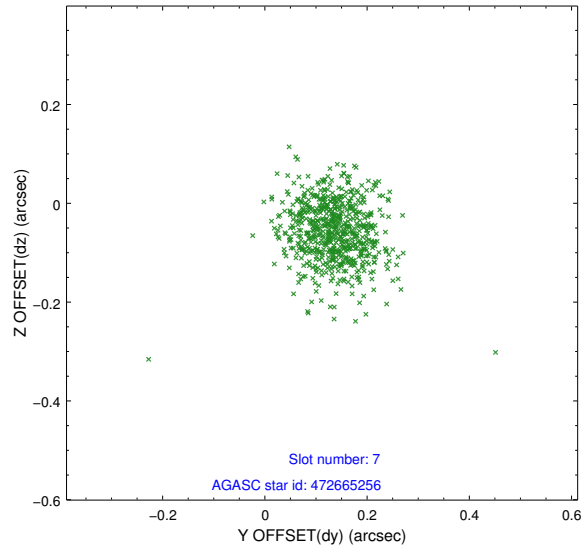
### 2.4.3 Slot 5



## 2.4.4 Slot 6

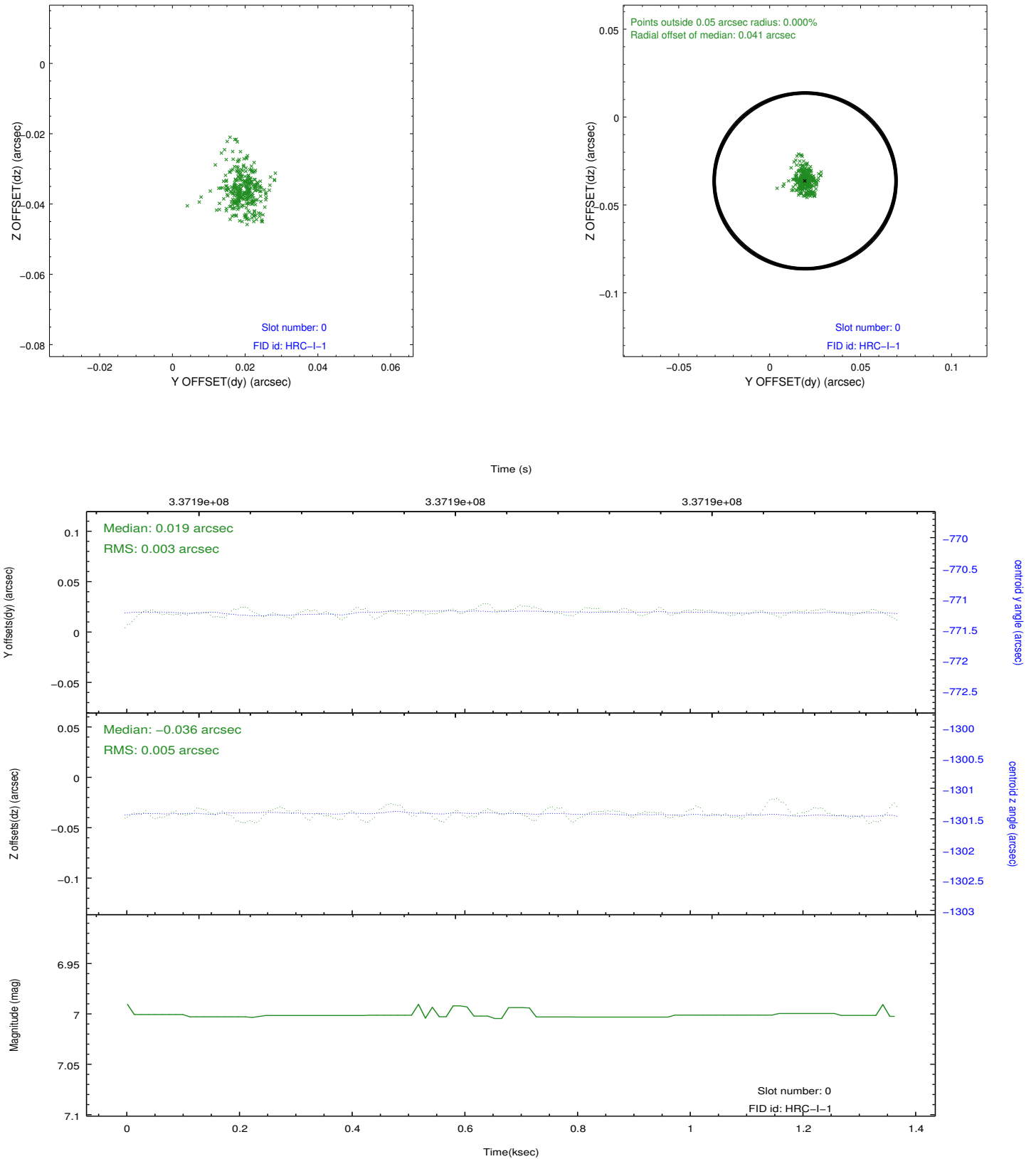


## 2.4.5 Slot 7

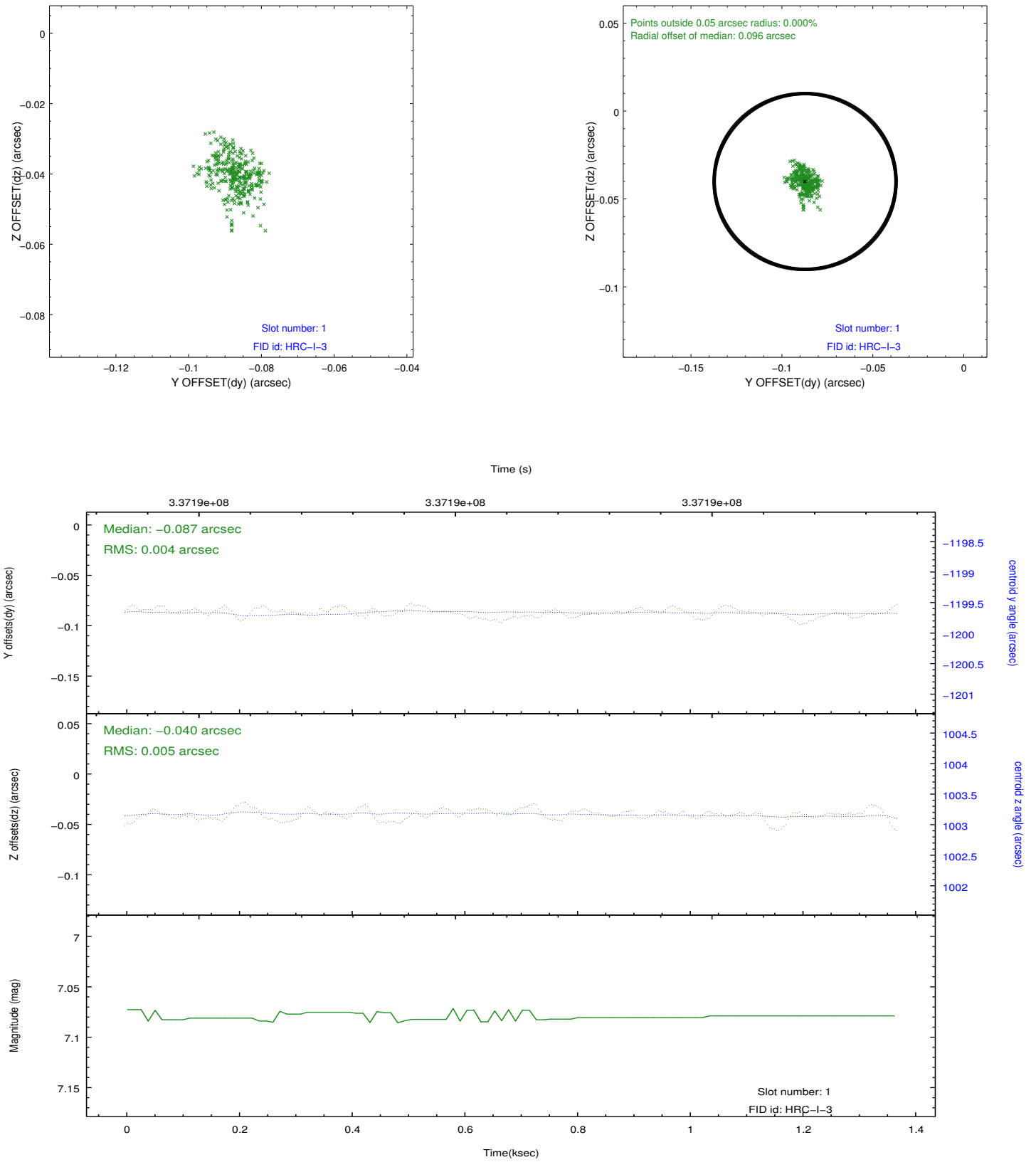


## 2.5 FID Slots

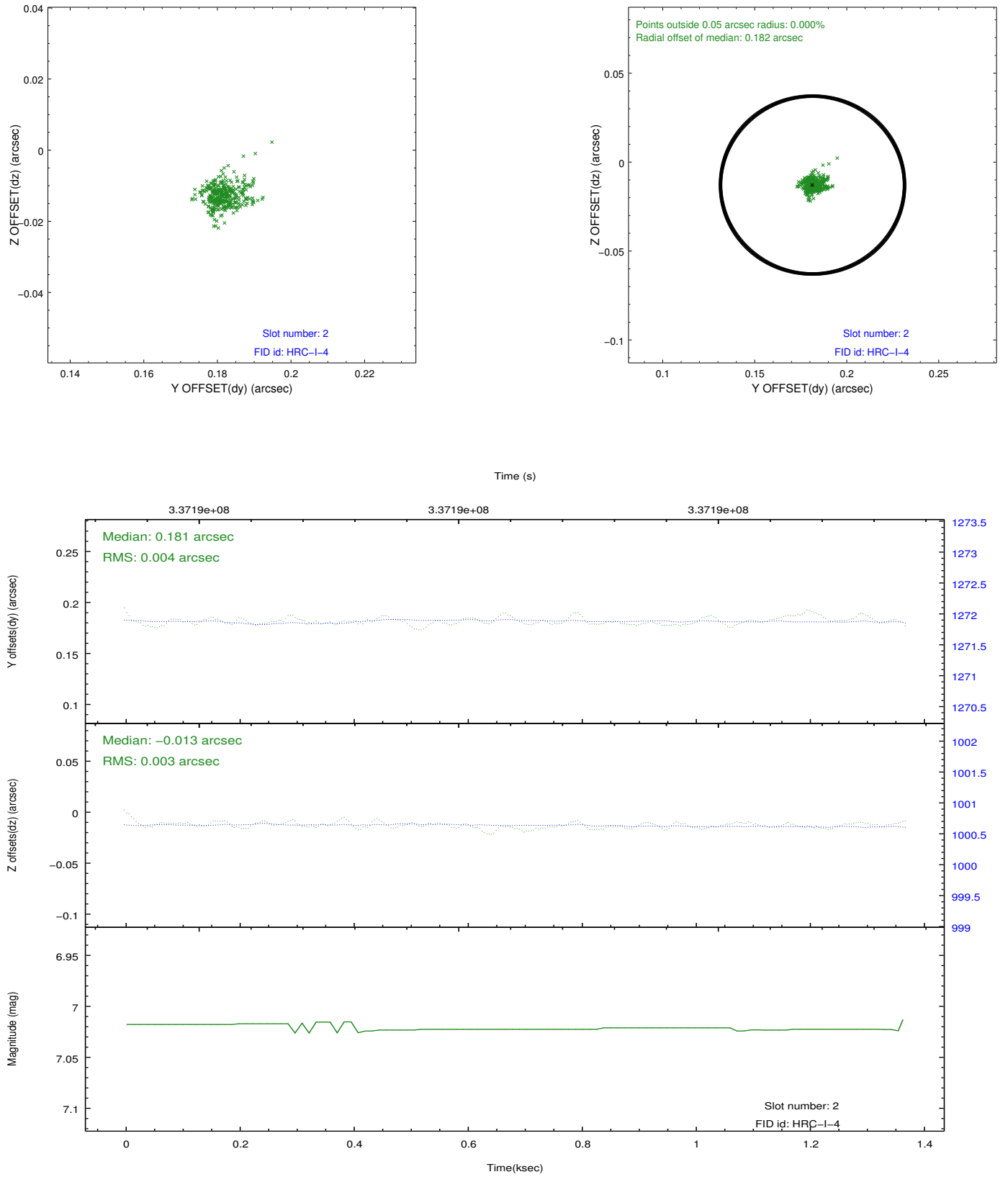
### 2.5.1 Slot 0



## 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)	2012.08.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.36863131

### A.2 Comments