

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 5092 - L2 Version 3  
Chandra X-Ray Center

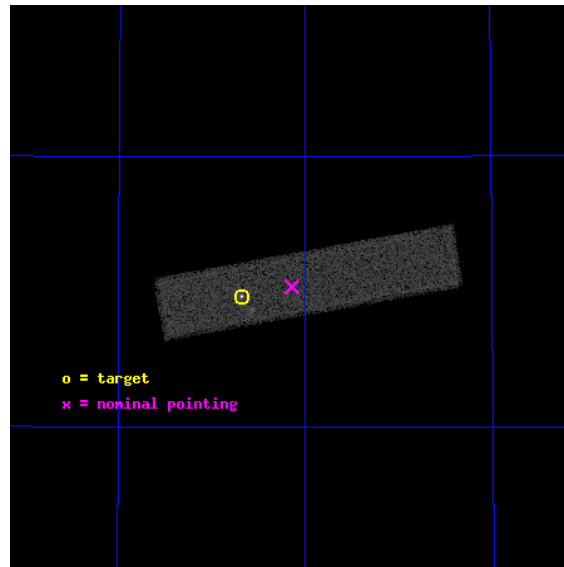
L2 Processing Date : Nov 11 2012

## 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

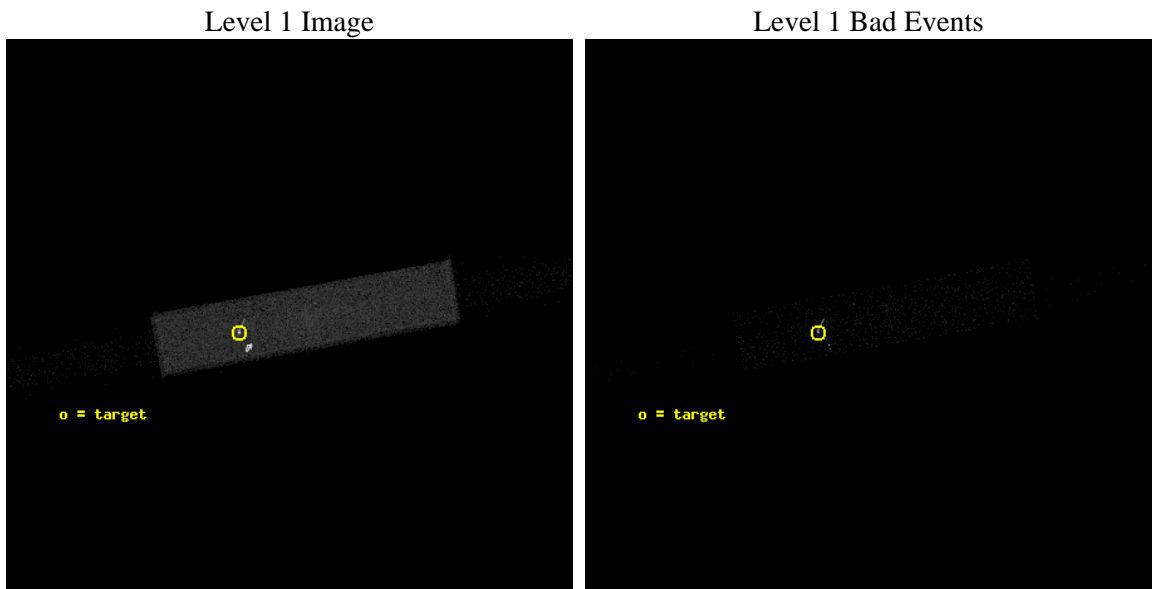
seq_num	290365	Sequence number
obs_id	5092	Observation id
title	AO5A Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.03566770753	Nominal RA [deg]
dec_nom	45.759952905407	Nominal Dec [deg]
roll_nom	349.7557375193	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1088.8062976301	[s]
livetime	1074.4170340745	Ontime multiplied by DTCOR
l2events	42469	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	1088.8062976301	[s]
caldsver	4.5.2	&#160	l1events	112370	Number of level 1 events
date	2012-11-11T14:44:25	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

Level 1 Events

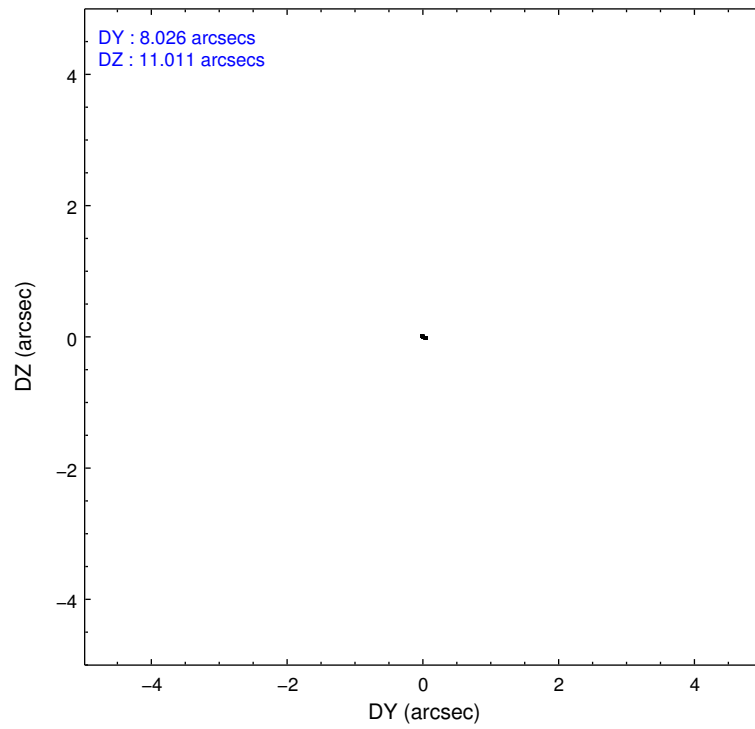
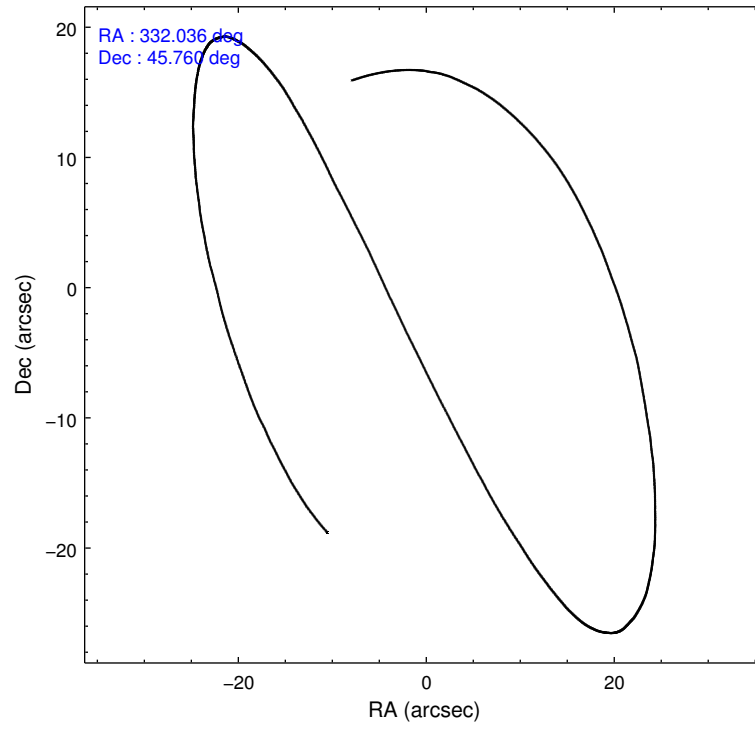
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1158	110040	1172
rejected events	1158	21684	1172
rejected %	100%	19%	100%

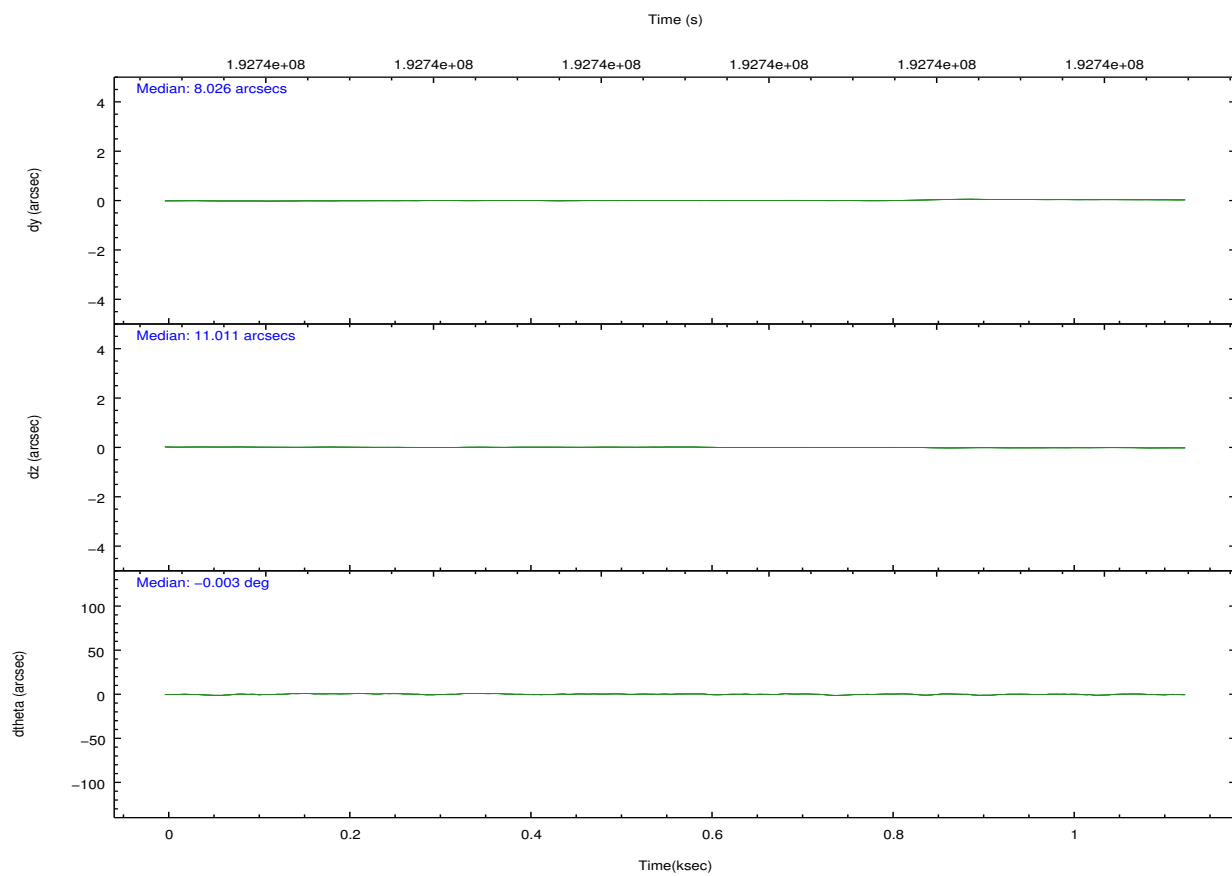
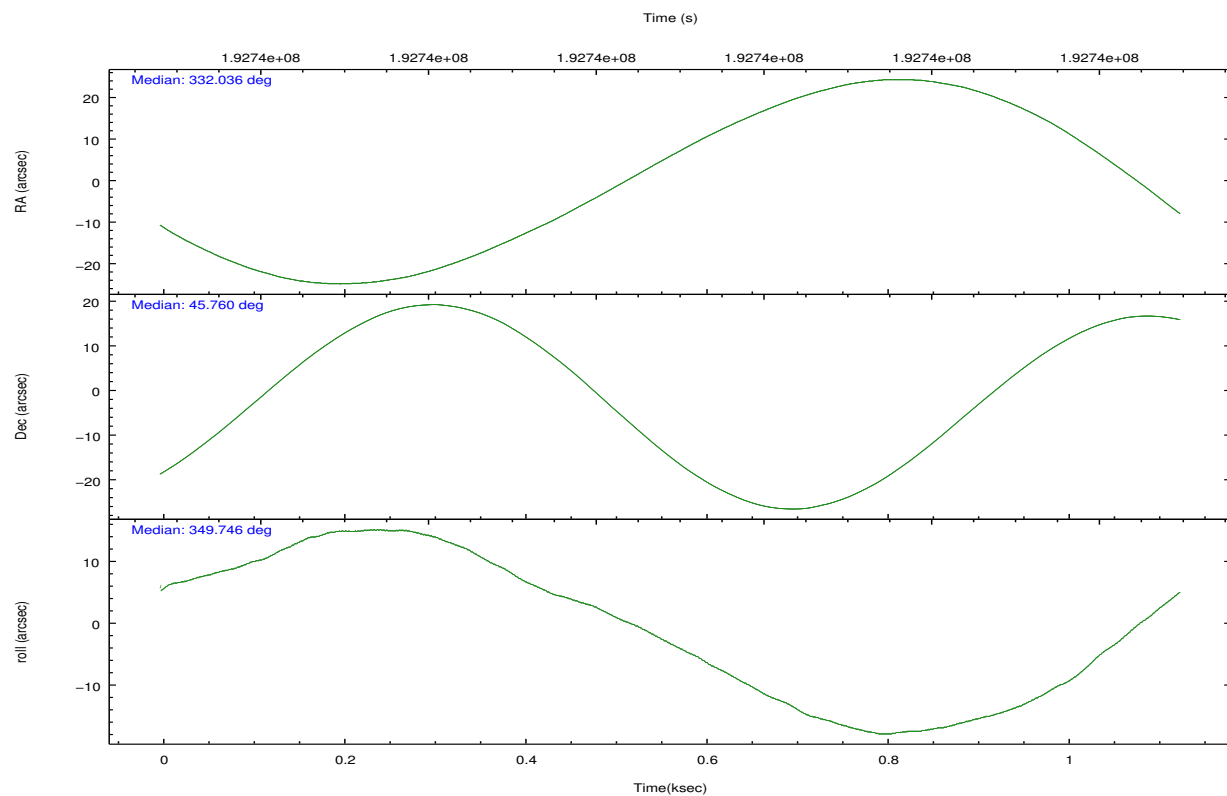
## 2.2 Compared Parameters

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	331.997745	332.0356677075264
[deg] Pointing Dec	45.748334	45.75995290540683
[deg] Pointing Roll	349.715625	349.7557375192982
[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)	192735905.184000	192735528.6727
Observation start date	2004-02-09T17:44:01	2004-02-09T17:38:48
[s] Observation end time (MET)	192736851.184000	192736985.19776
Observation end date	2004-02-09T17:59:47	2004-02-09T18:03:05

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

## 2.3 Aspect



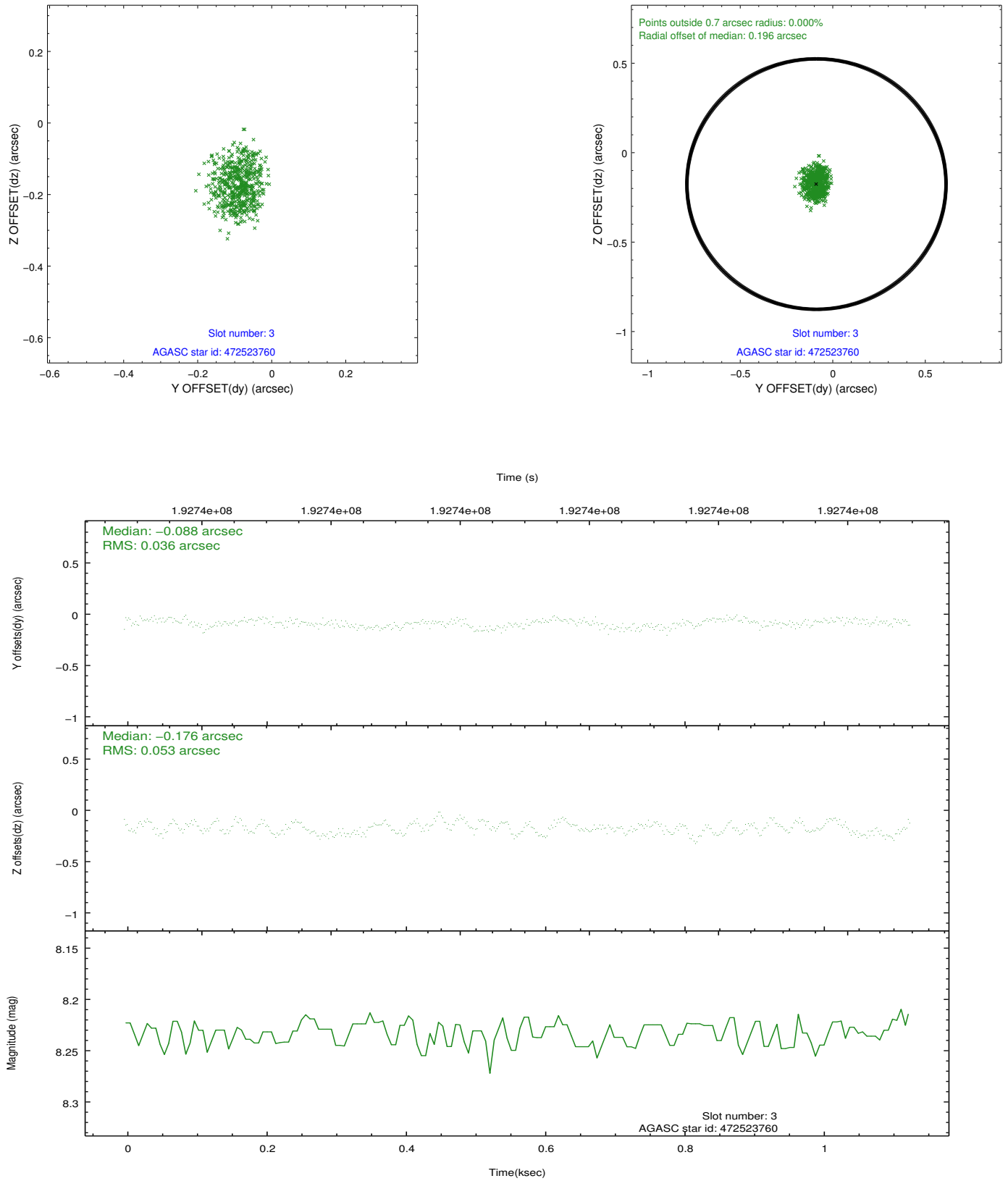


### Slot Statistics

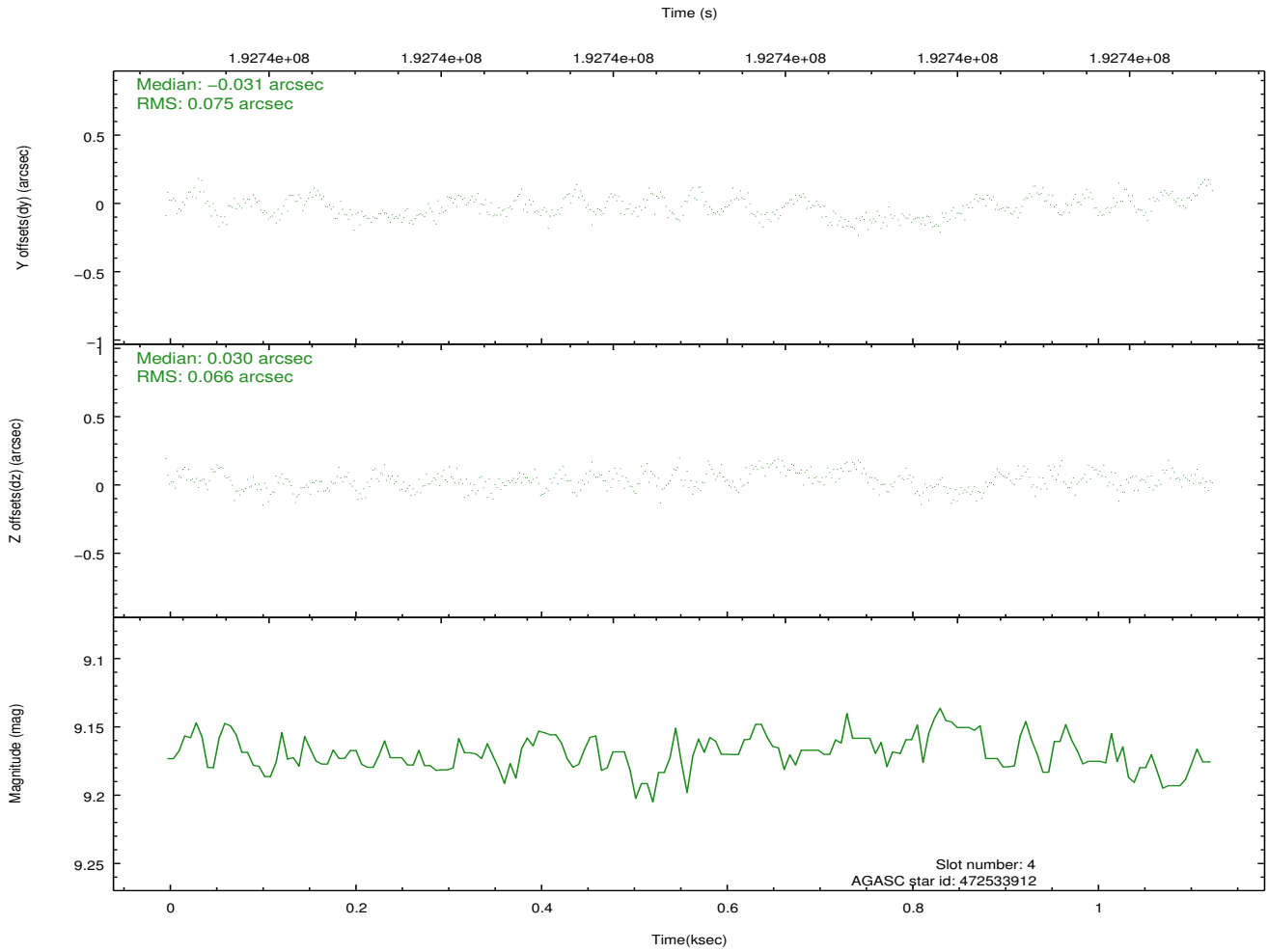
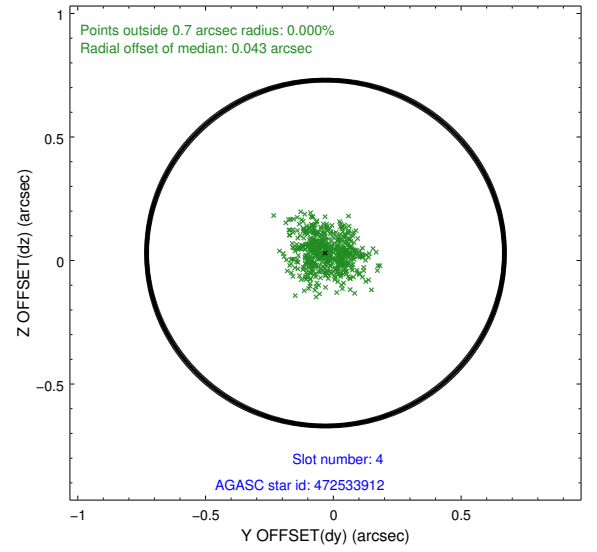
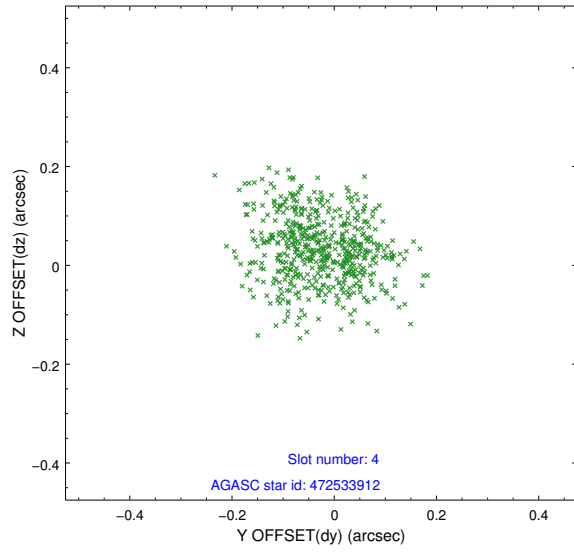
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.03	275	0.151	-0.167	0.007	0.012	0.000000	0.000000	-1162.19	-459.72
1	FID	HRC-S-2	7.03	275	0.130	-0.109	0.005	0.009	0.000000	0.000000	1233.24	-454.00
2	FID	HRC-S-3	7.04	275	0.110	-0.025	0.008	0.014	0.000000	0.000000	-1160.45	568.30
3	GUIDE	472523760	8.23	551	-0.088	-0.176	0.070	0.106	331.645363	45.403260	-654.32	-1381.86
4	GUIDE	472533912	9.17	550	-0.031	0.030	0.108	0.169	331.791136	46.368695	-904.88	2101.65
5	GUIDE	472654568	9.43	551	-0.031	0.005	0.116	0.189	332.194449	45.063576	931.43	-2333.80
6	GUIDE	472655152	9.43	551	0.105	0.031	0.093	0.151	332.504239	45.862991	1177.19	630.62
7	GUIDE	472659832	9.46	550	0.050	0.090	0.096	0.162	332.780399	46.098139	1698.27	1596.76

## 2.4 Star Slots

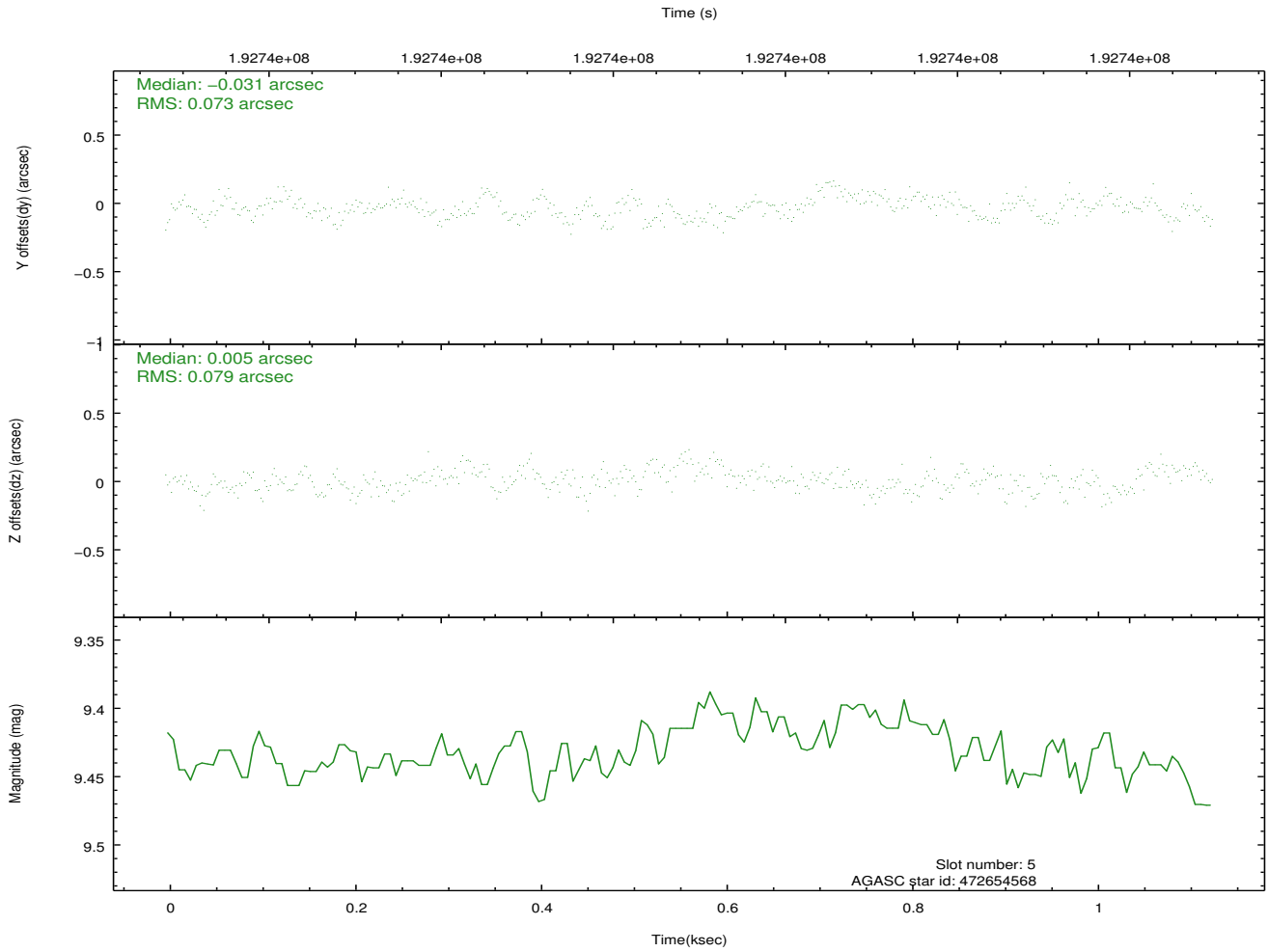
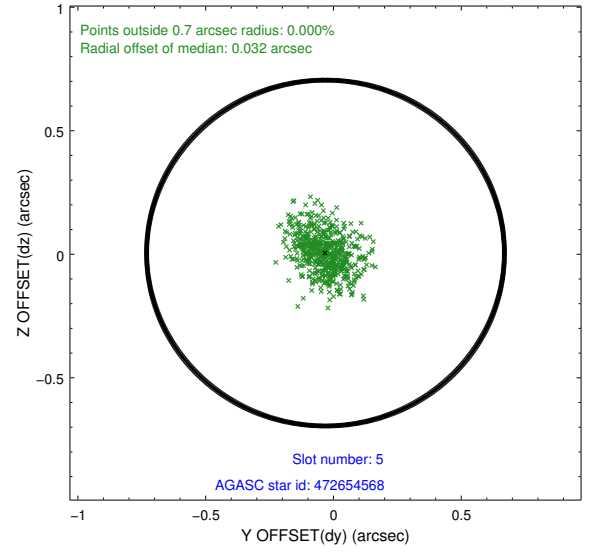
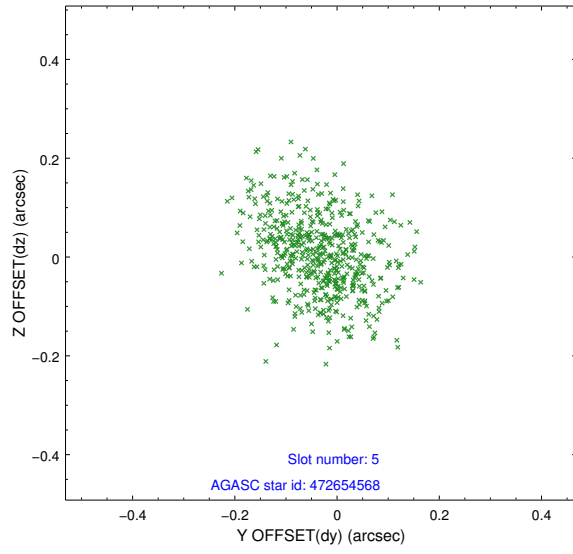
### 2.4.1 Slot 3



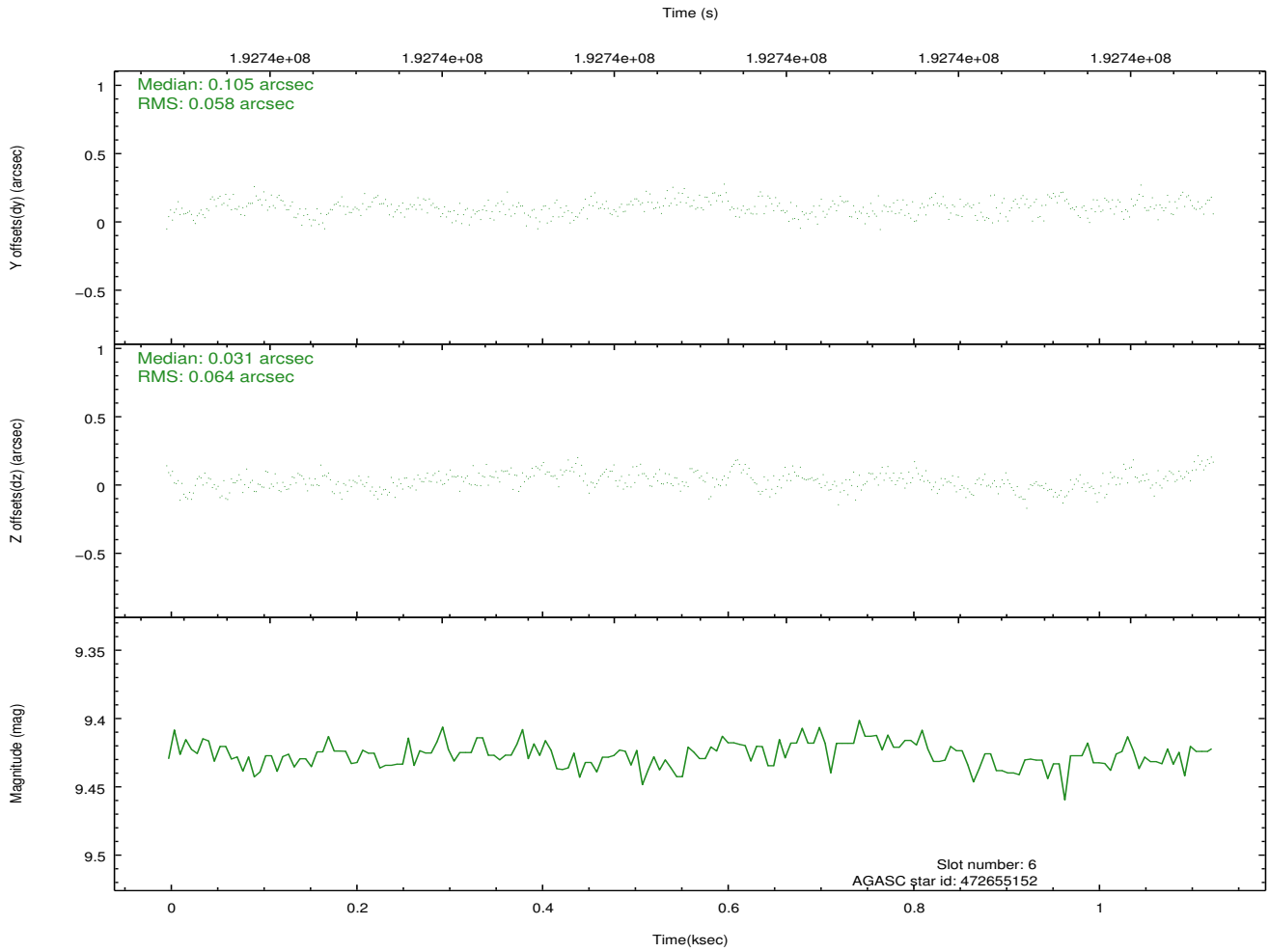
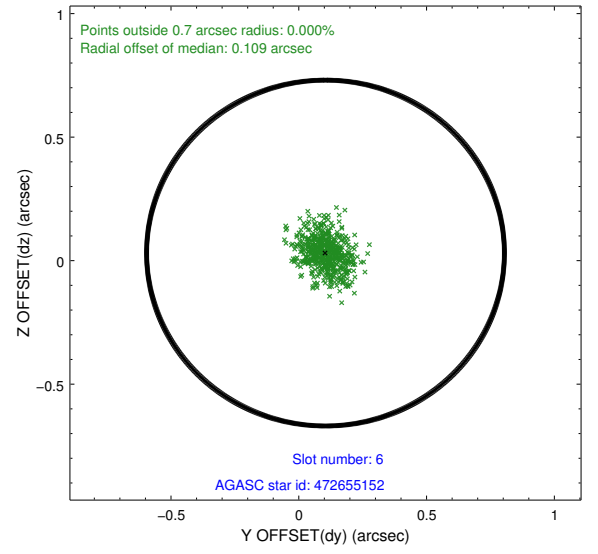
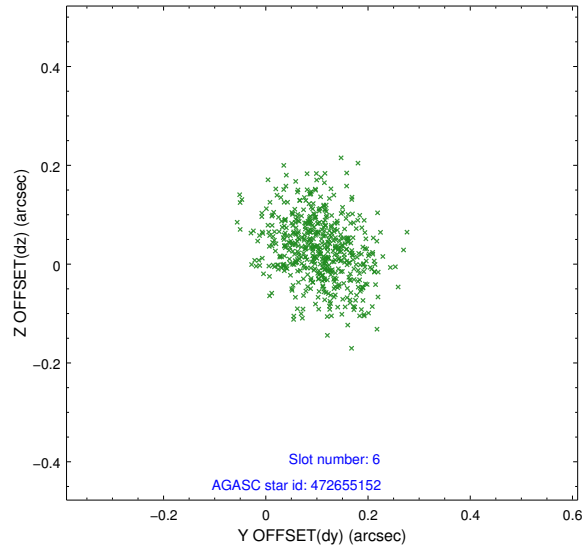
## 2.4.2 Slot 4



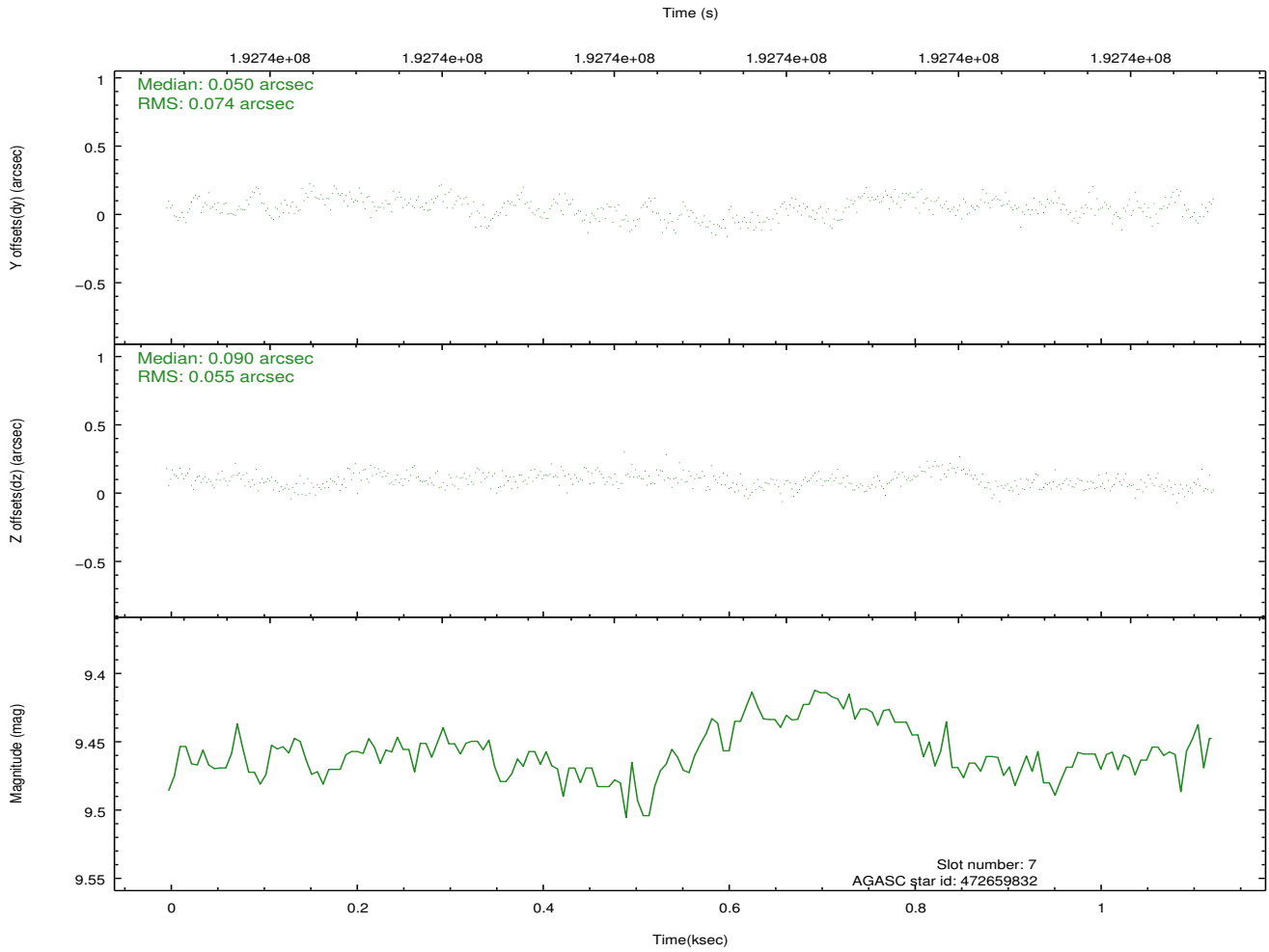
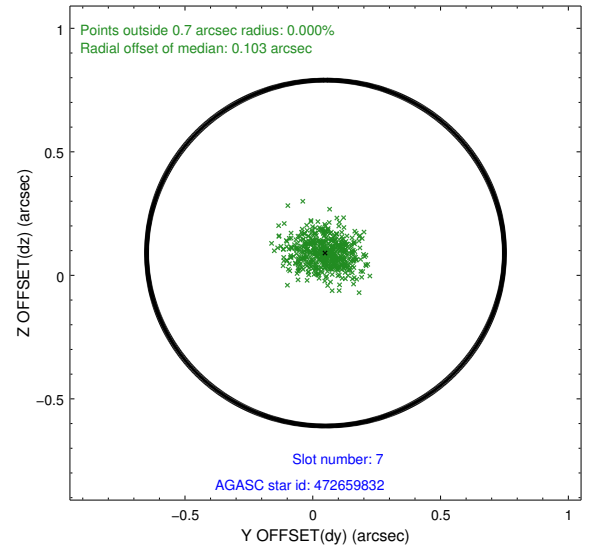
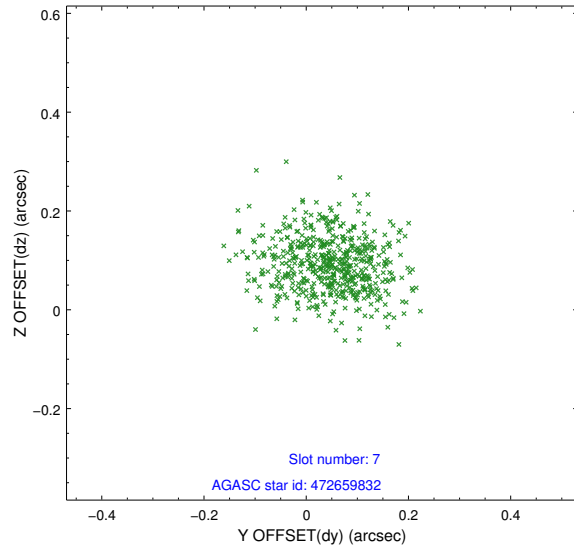
### 2.4.3 Slot 5



## 2.4.4 Slot 6

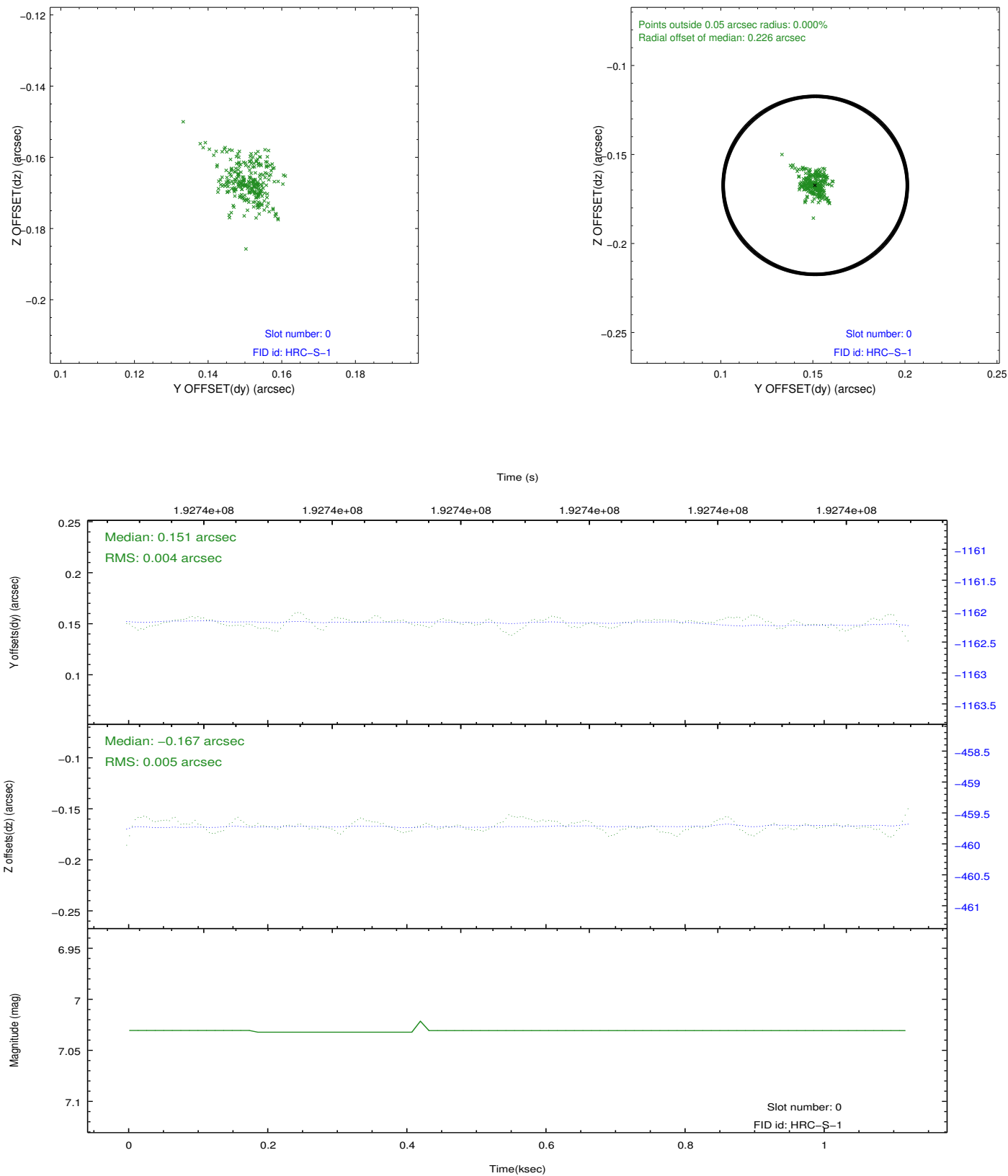


## 2.4.5 Slot 7

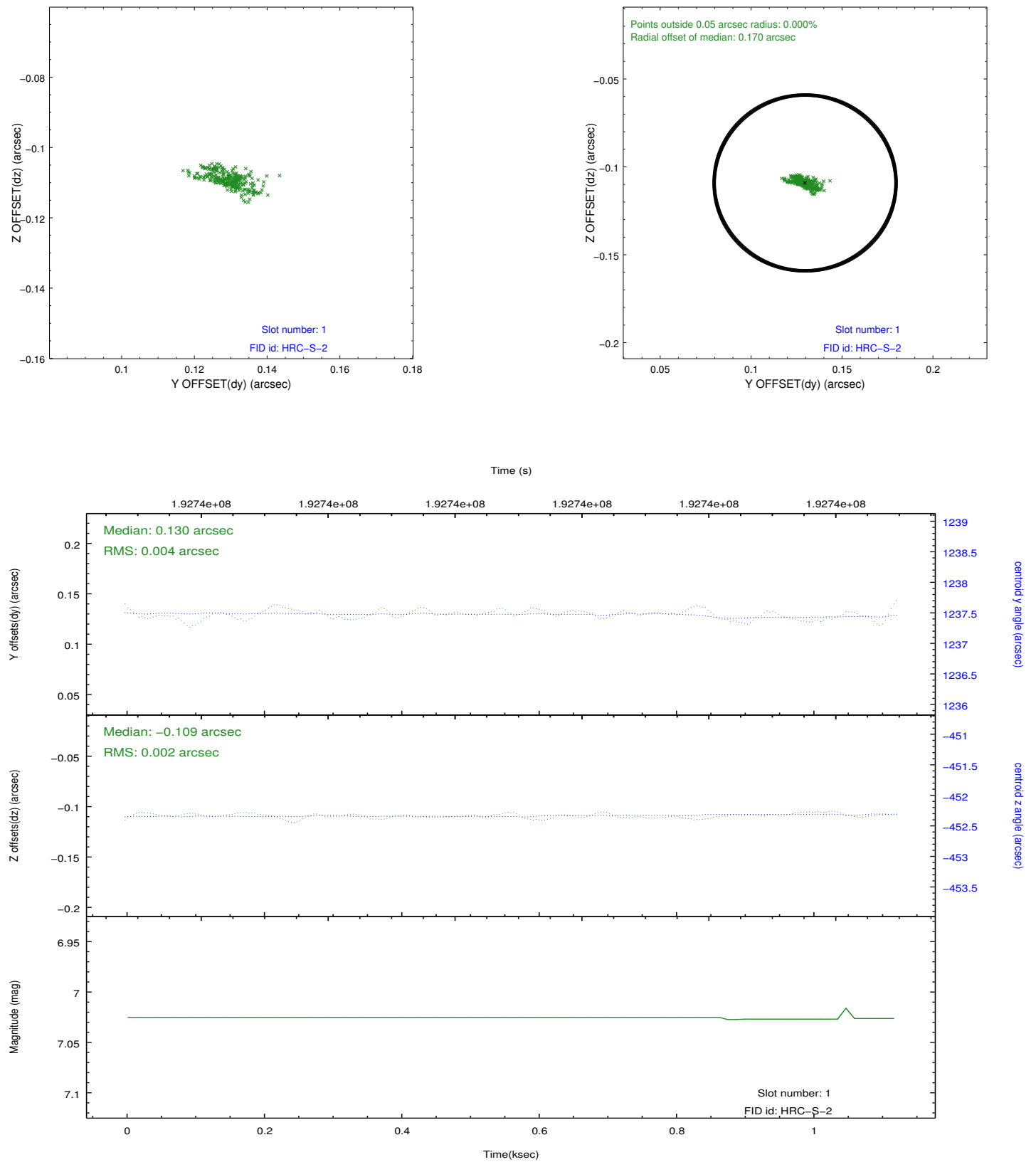


## 2.5 FID Slots

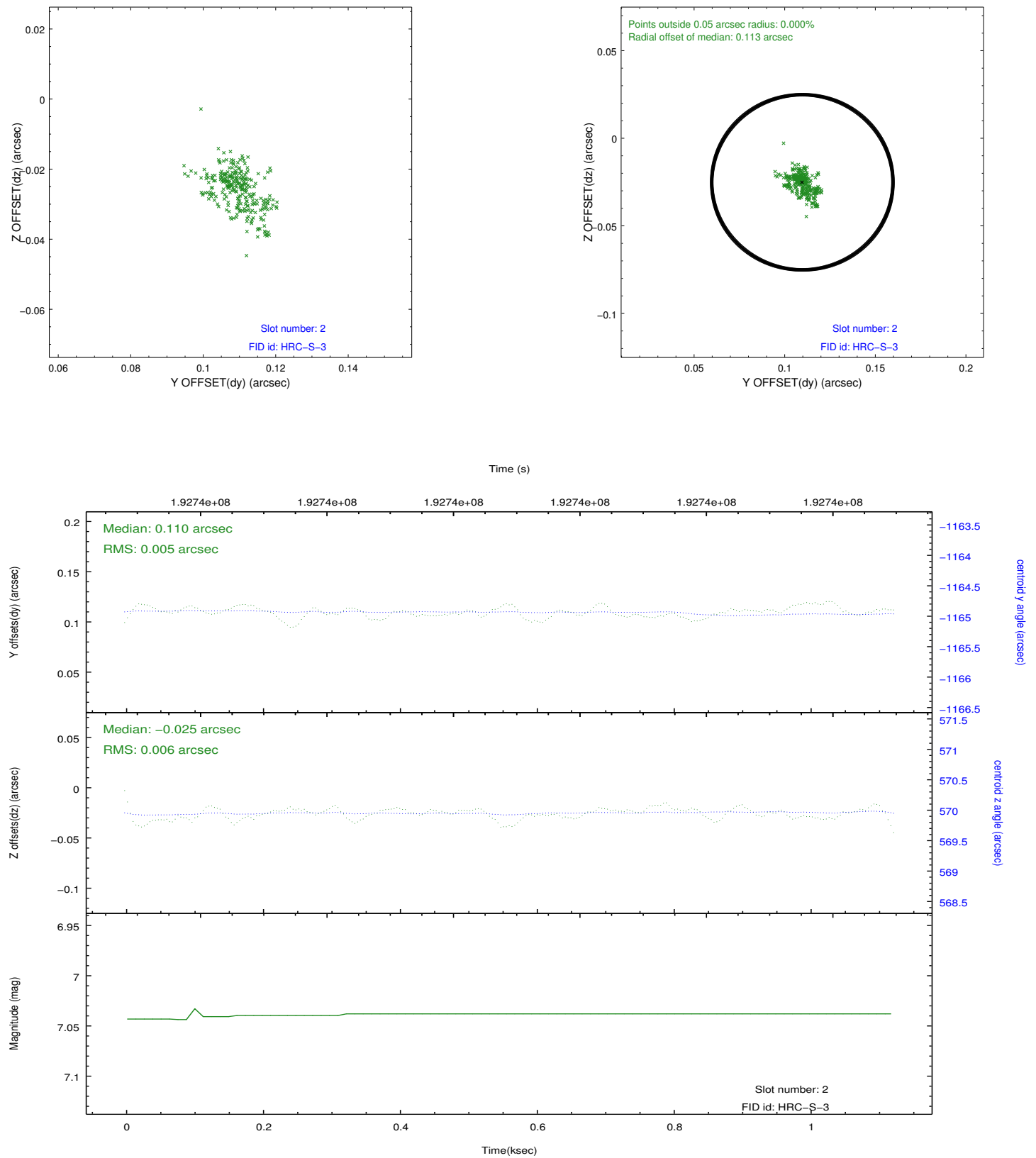
### 2.5.1 Slot 0



## 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)	2012.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.088

### A.2 Comments