

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 5063 - L2 Version 4  
Chandra X-Ray Center

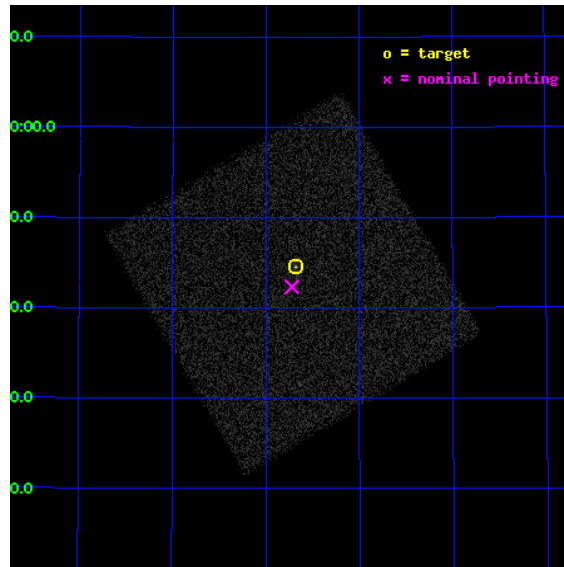
L2 Processing Date : Dec 12 2012

## 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

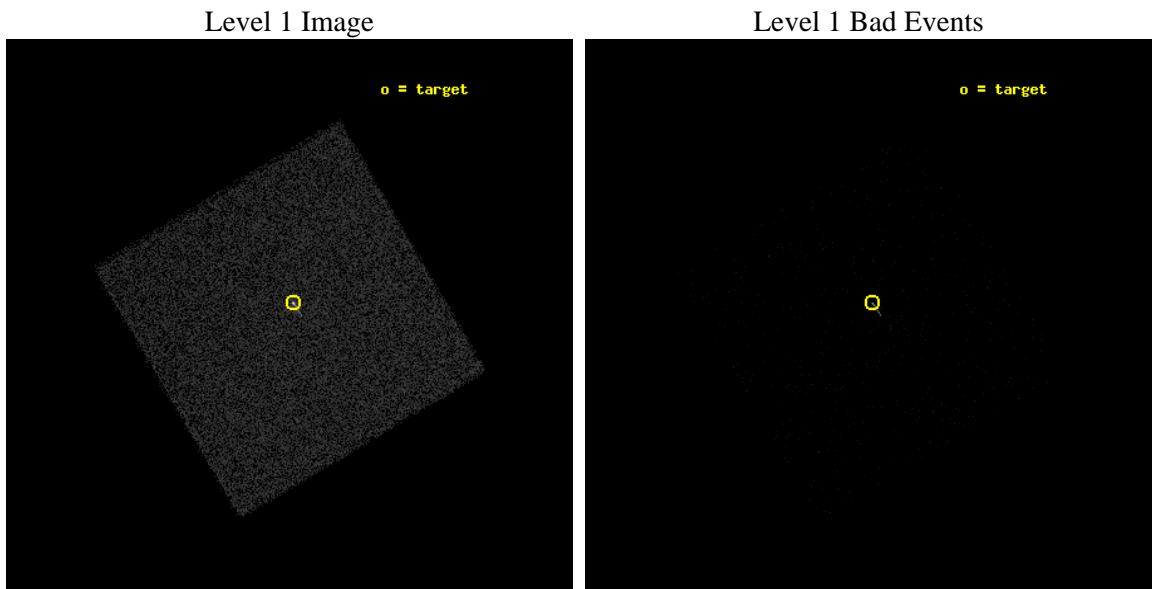
seq_num	290336	Sequence number
obs_id	5063	Observation id
title	AO5 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.18032687579	Nominal RA [deg]
dec_nom	45.705769512084	Nominal Dec [deg]
roll_nom	284.40022843187	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1067.2812979817	[s]
livetime	1059.6147107948	Ontime multiplied by DTCOR
l2events	42763	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	900.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	1067.2812979817	[s]
caldbver	4.5.4	&#160	l1events	148383	Number of level 1 events
date	2012-12-11T23:41:29	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

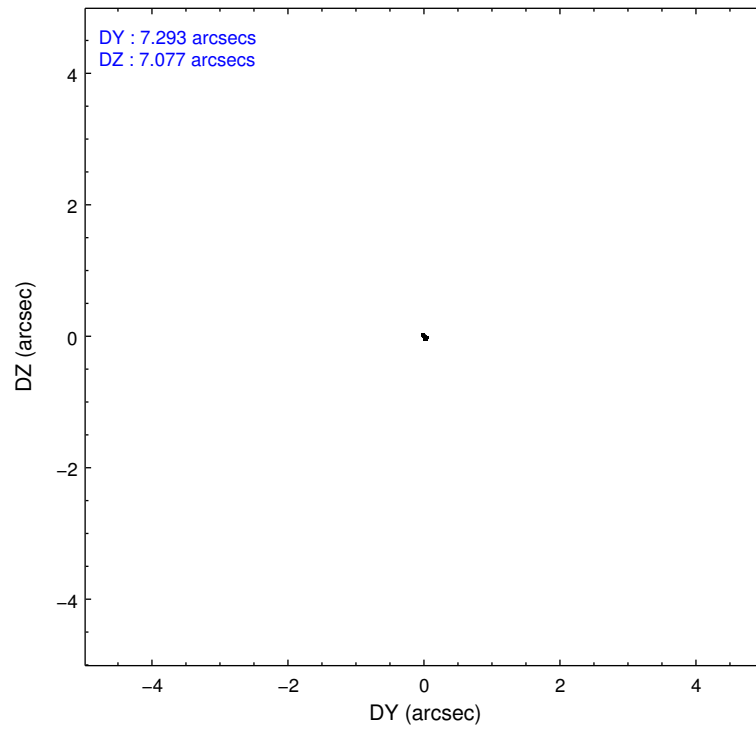
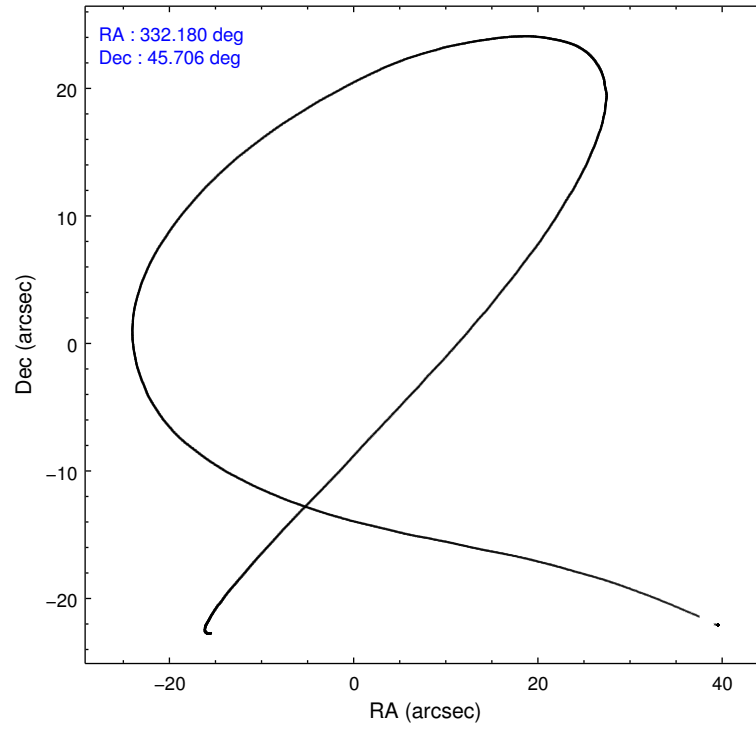
#### Level 1 Events

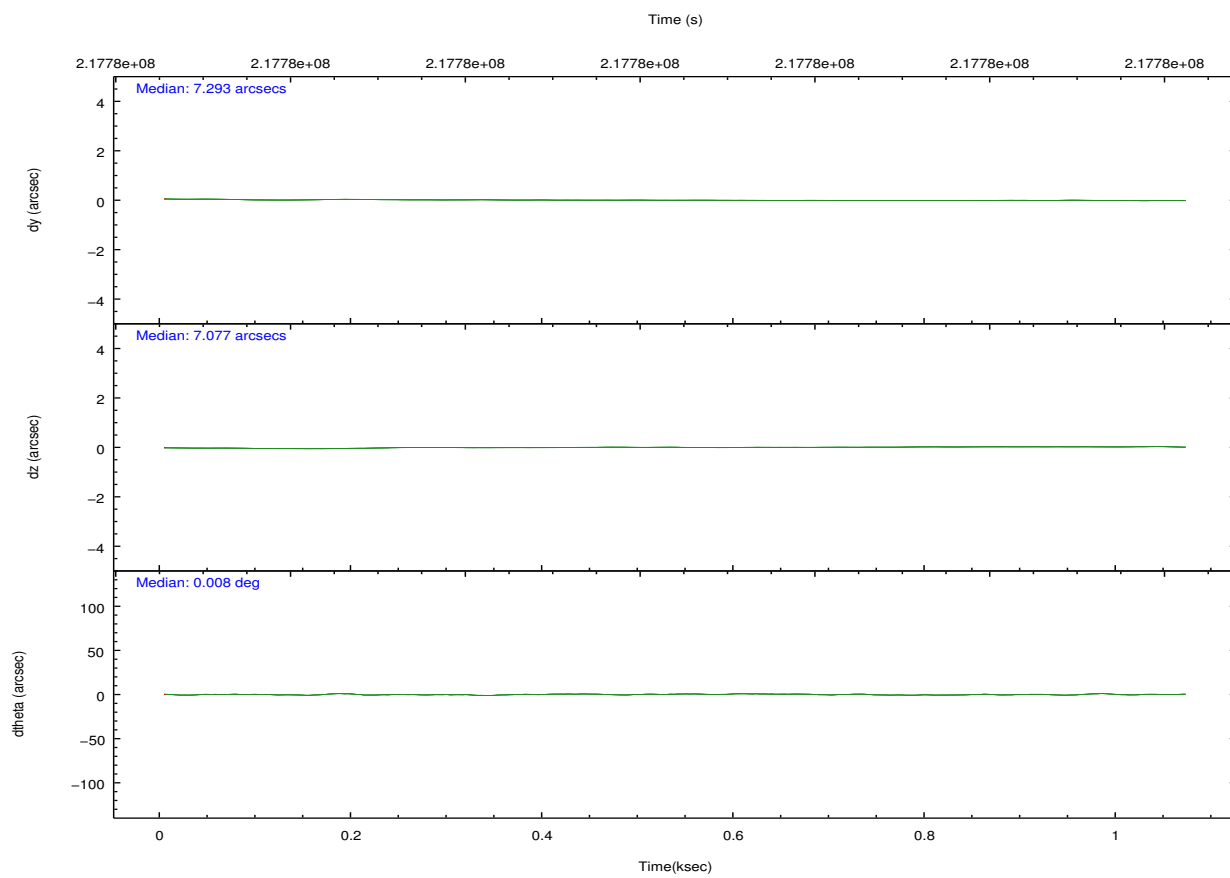
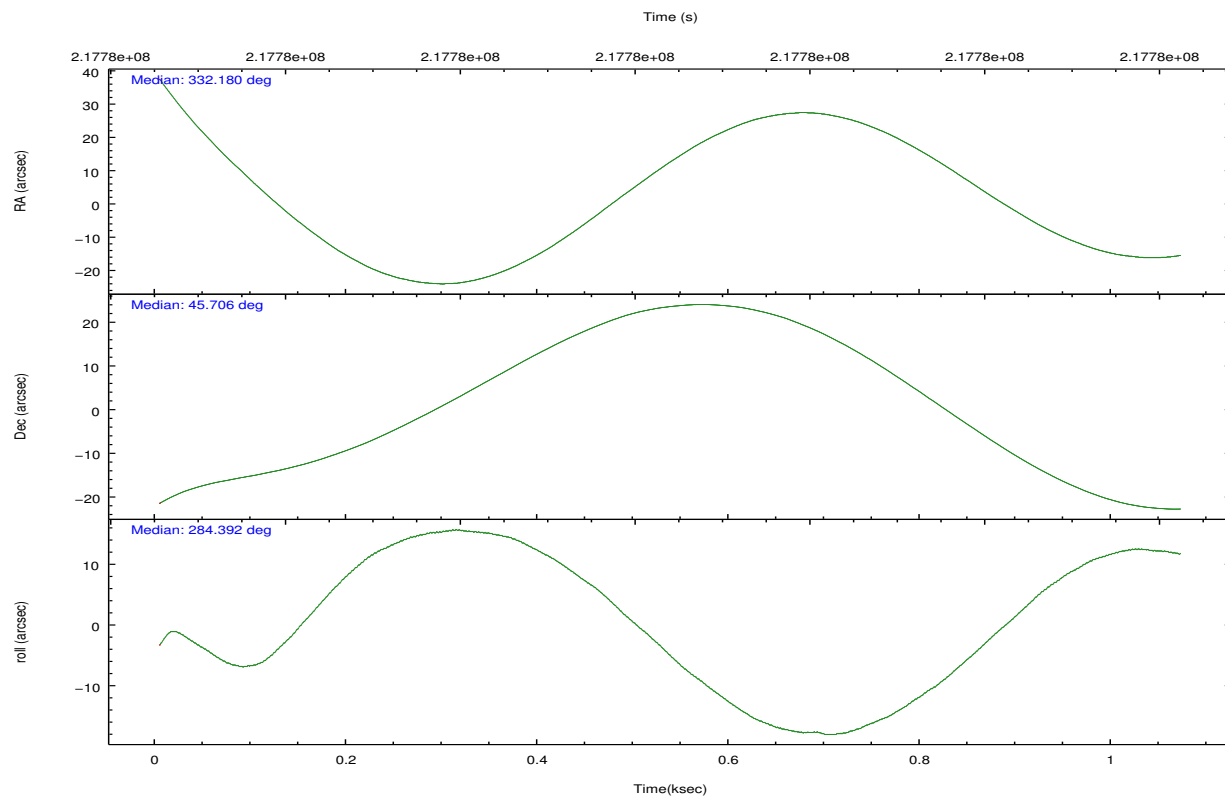
	<b>segment 0</b>
level 1 events	148383
rejected events	86685
rejected %	58%

## 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	332.153299	332.1803268757854			
[deg] Pointing Dec	45.724820	45.7057695120841			
[deg] Pointing Roll	284.514742	284.4002284318748			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9854943052878			
[mm] SIM translation stage offset	0	-5.413686238853188e-06			
[s] Observation start time (MET)	217778877.184000	217777227.39534			
Observation start date	2004-11-25T14:06:53	2004-11-25T13:40:27			
[s] Observation end time (MET)	217779777.184000	217779911.35796			
Observation end date	2004-11-25T14:21:53	2004-11-25T14:25:11			

## 2.3 Aspect





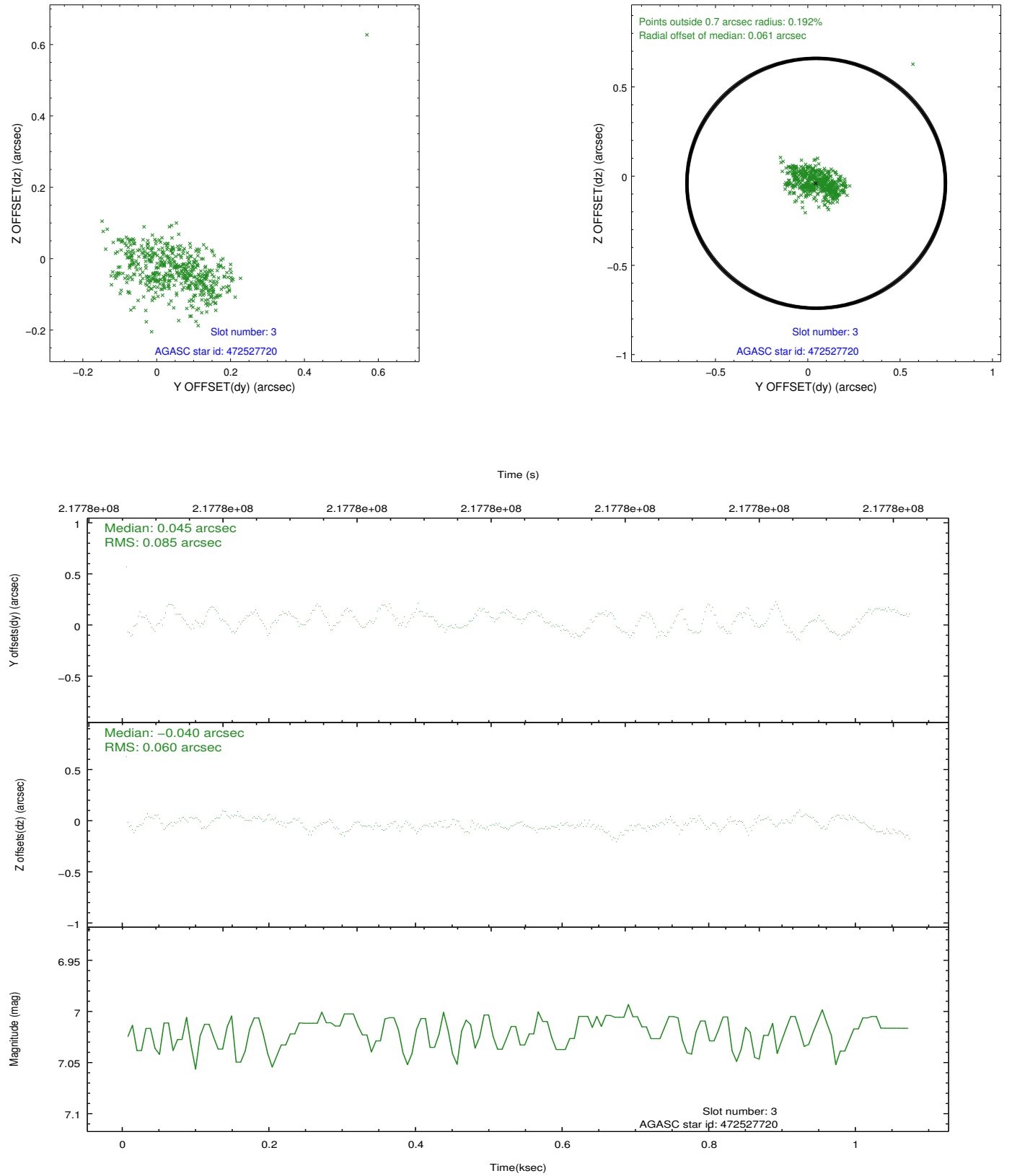
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	7.01	261	0.002	0.008	0.007	0.010	0.000000	0.000000	-762.89	-1294.97
1	FID	HRC-I-2	7.05	261	0.124	-0.092	0.005	0.008	0.000000	0.000000	846.94	-1301.60
2	FID	HRC-I-3	7.10	261	-0.008	-0.005	0.006	0.013	0.000000	0.000000	-1188.14	1004.60
3	GUIDE	472527720	7.02	522	0.045	-0.040	0.108	0.159	331.460205	45.112509	1686.22	-2252.97
4	GUIDE	472654568	9.45	522	0.111	0.039	0.117	0.228	332.194449	45.063576	2334.63	-497.18
5	GUIDE	472655152	9.44	516	0.023	0.081	0.108	0.178	332.504239	45.862991	-257.86	977.91
6	GUIDE	472659832	9.46	520	-0.092	0.065	0.105	0.200	332.780399	46.098139	-914.91	1857.86
7	GUIDE	472523760	8.24	521	-0.086	-0.128	0.066	0.099	331.645363	45.403260	793.91	-1526.43

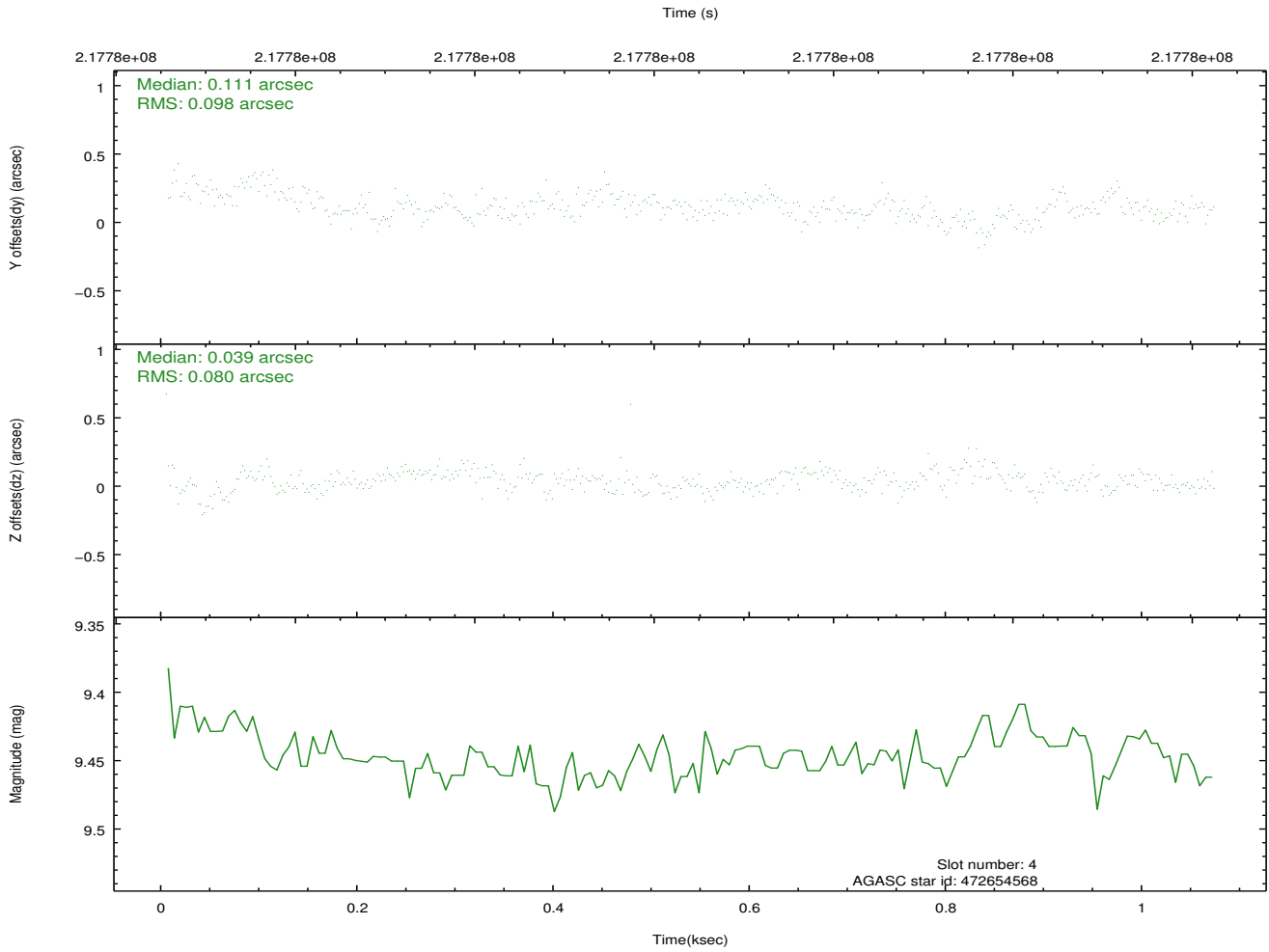
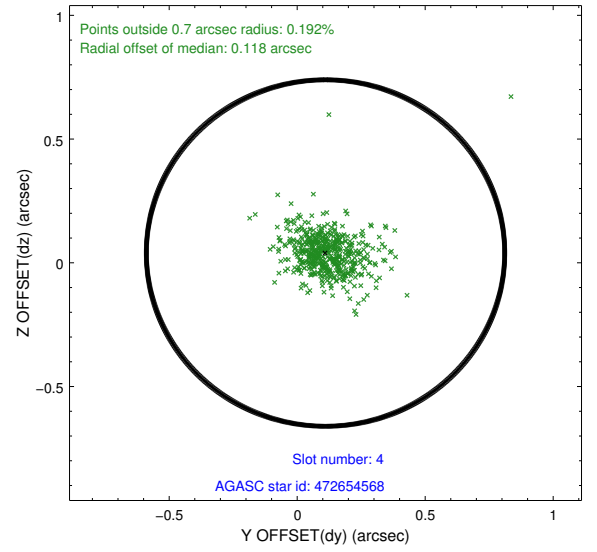
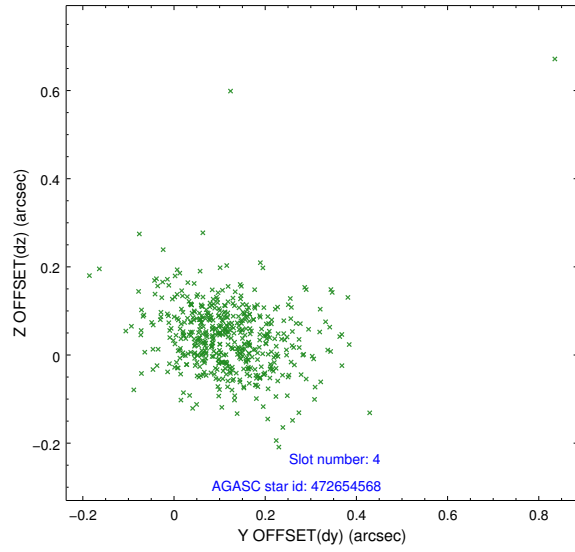


## 2.4 Star Slots

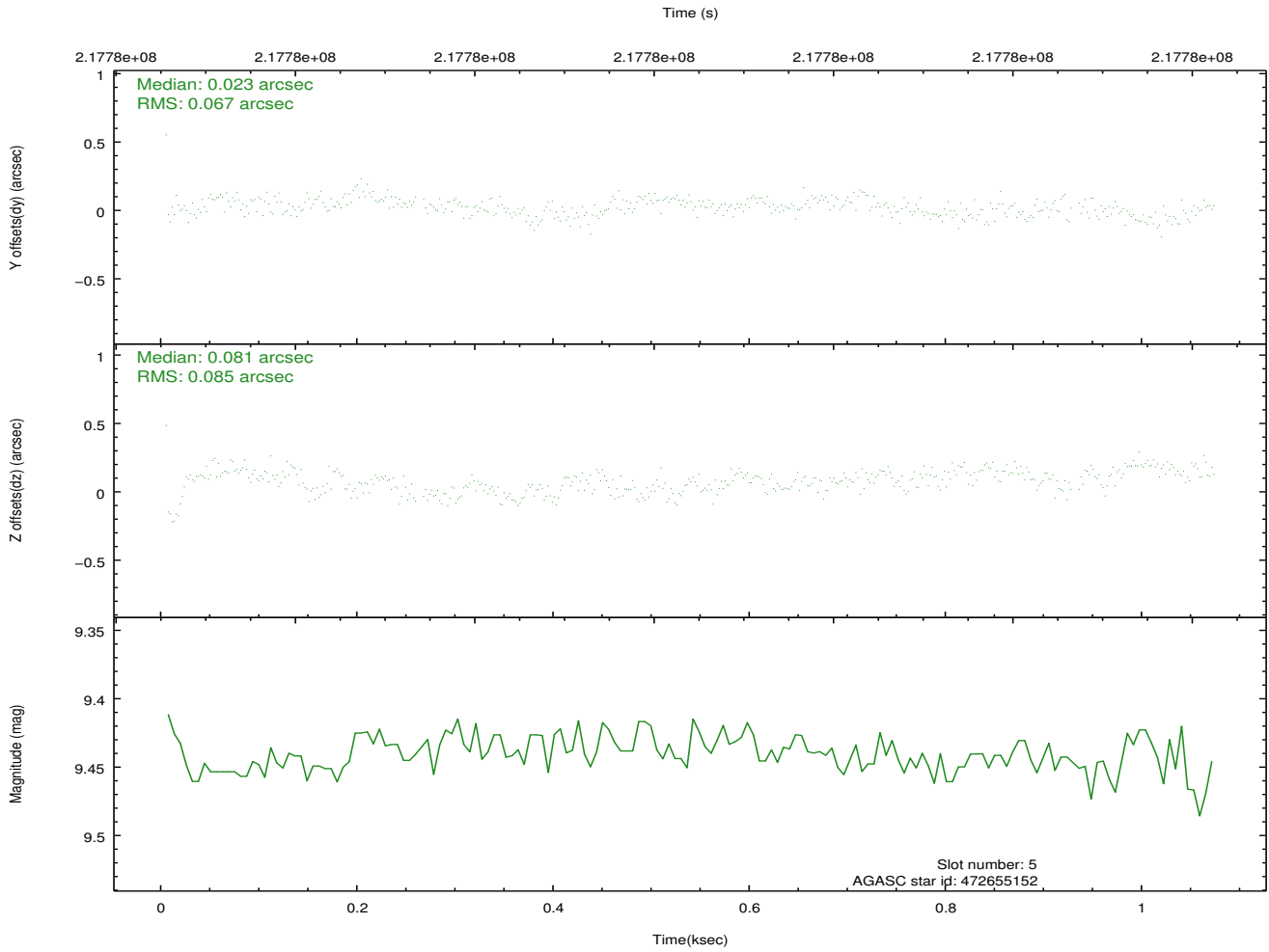
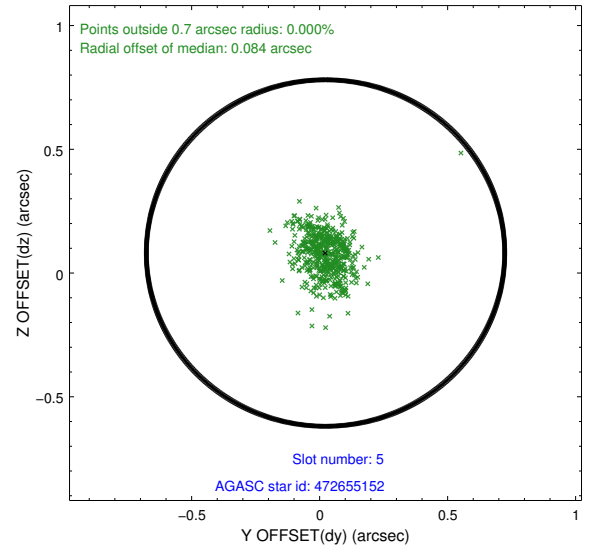
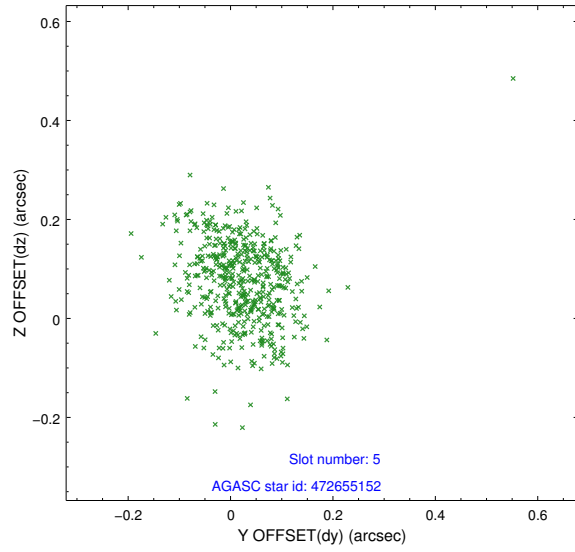
### 2.4.1 Slot 3



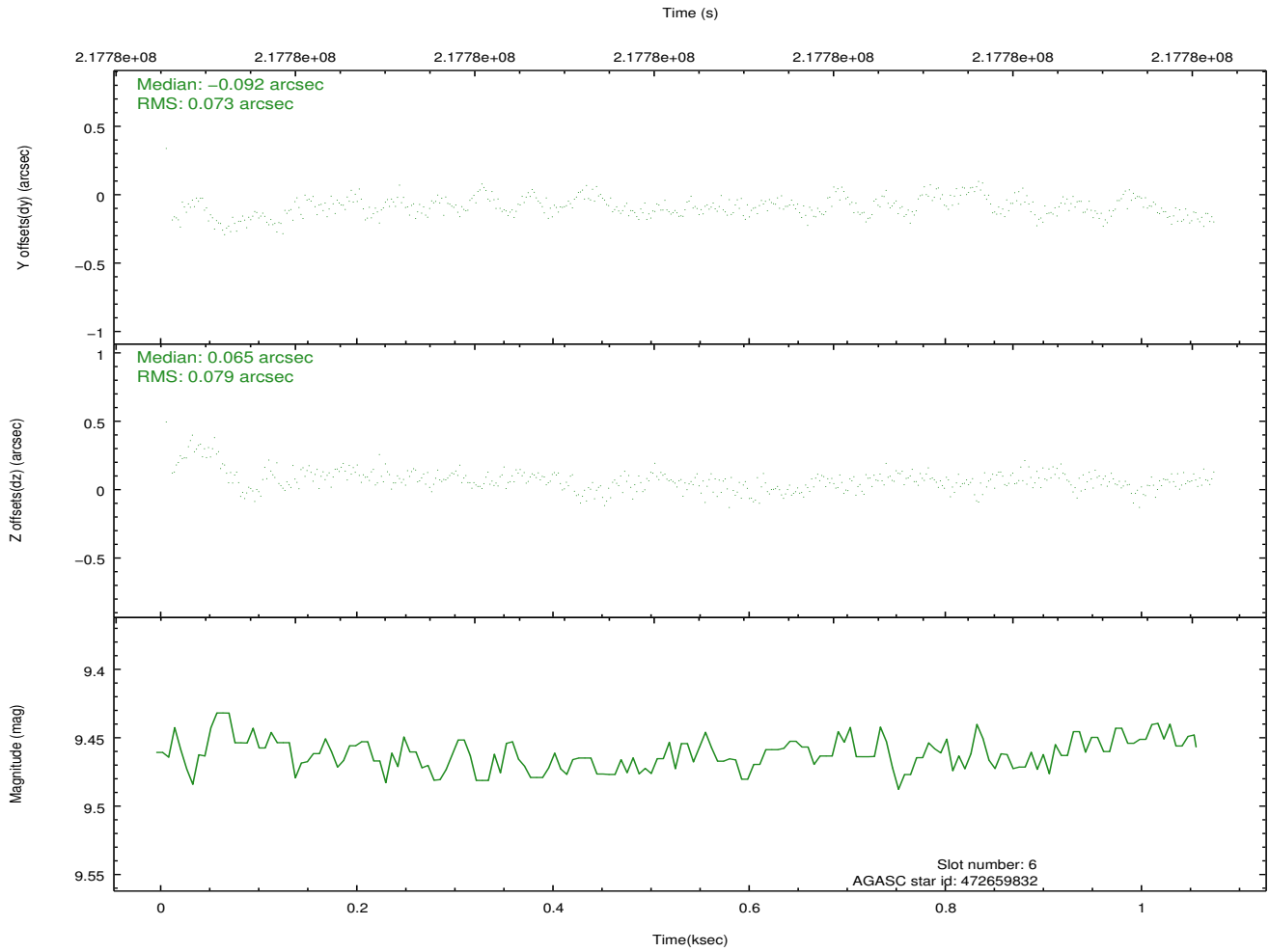
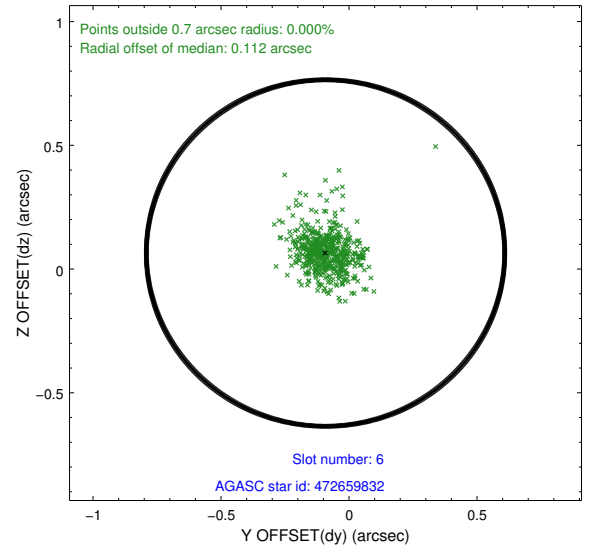
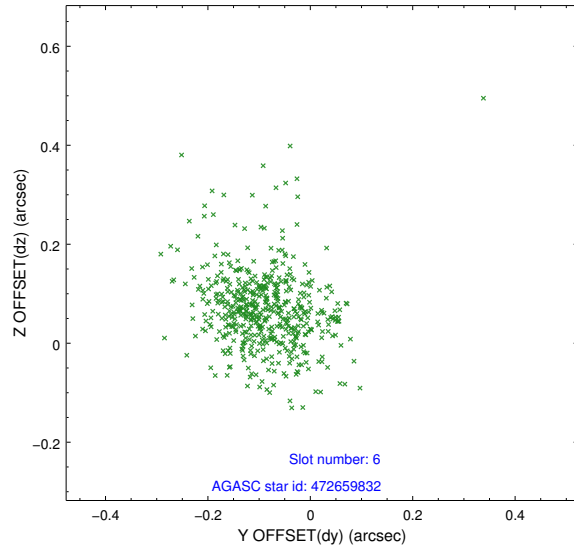
## 2.4.2 Slot 4



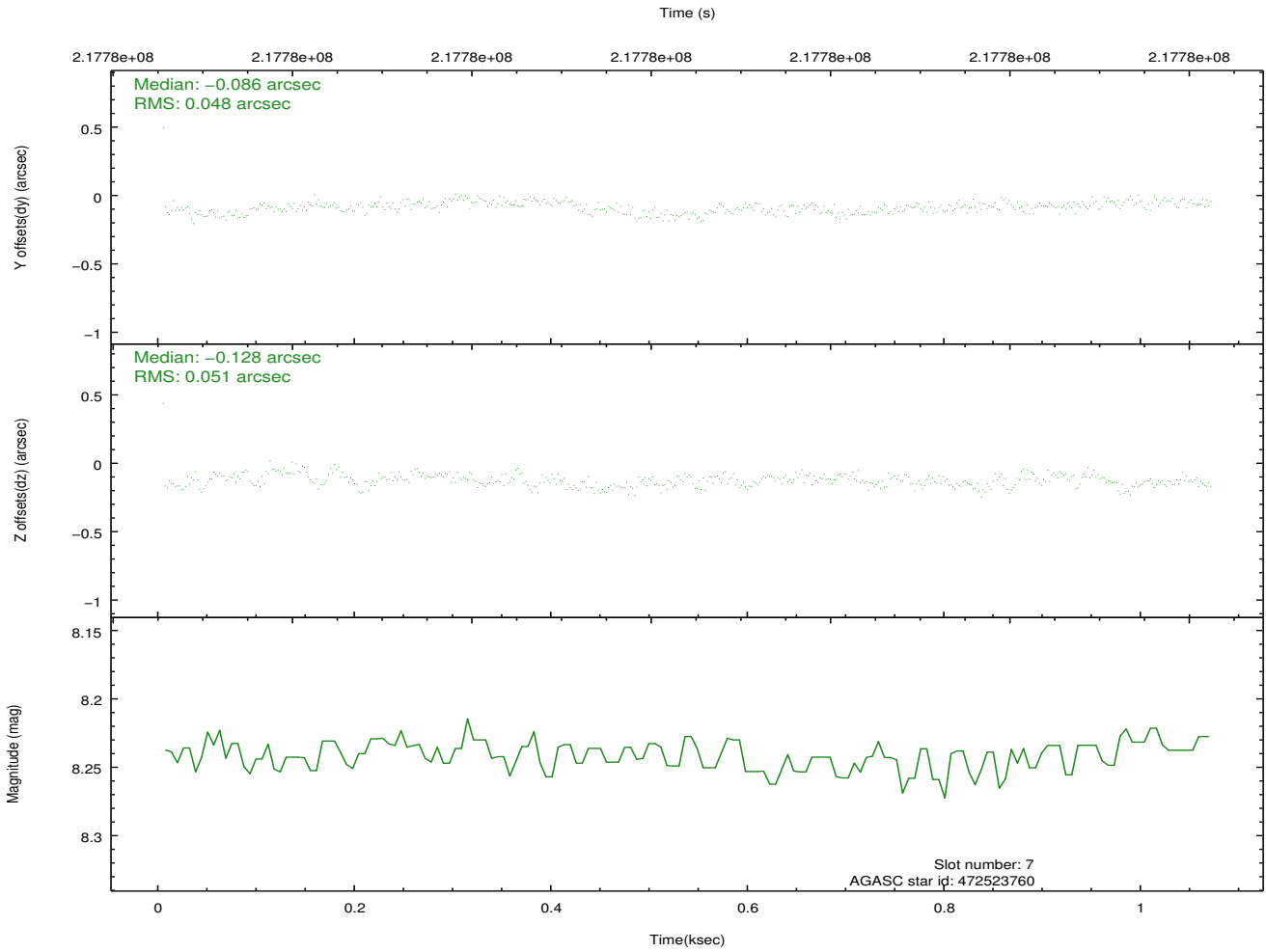
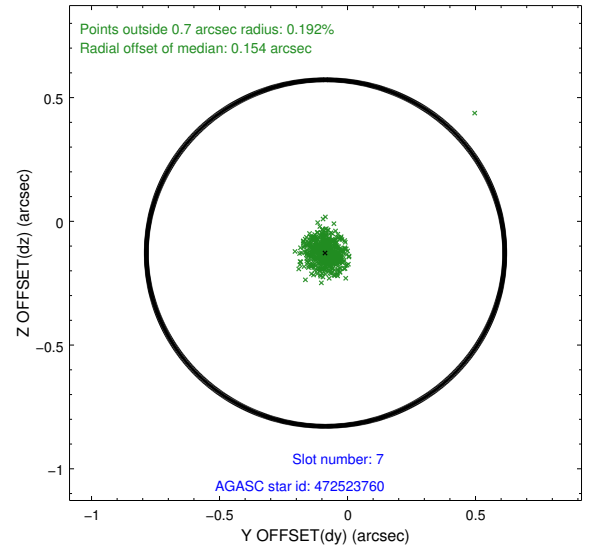
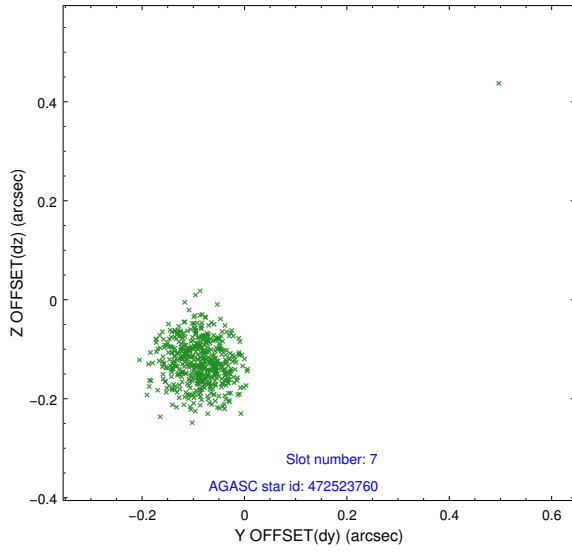
### 2.4.3 Slot 5



## 2.4.4 Slot 6

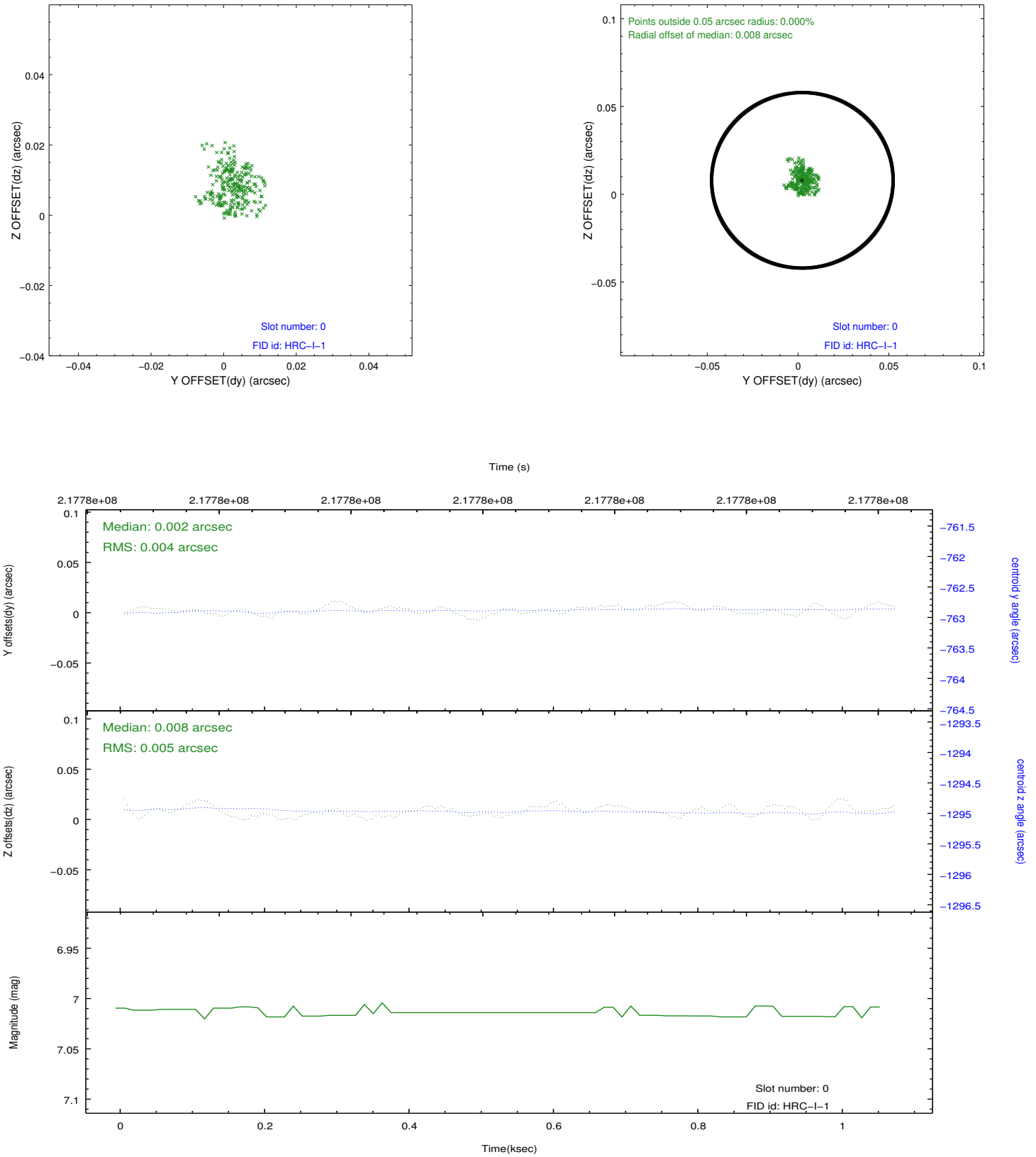


## 2.4.5 Slot 7

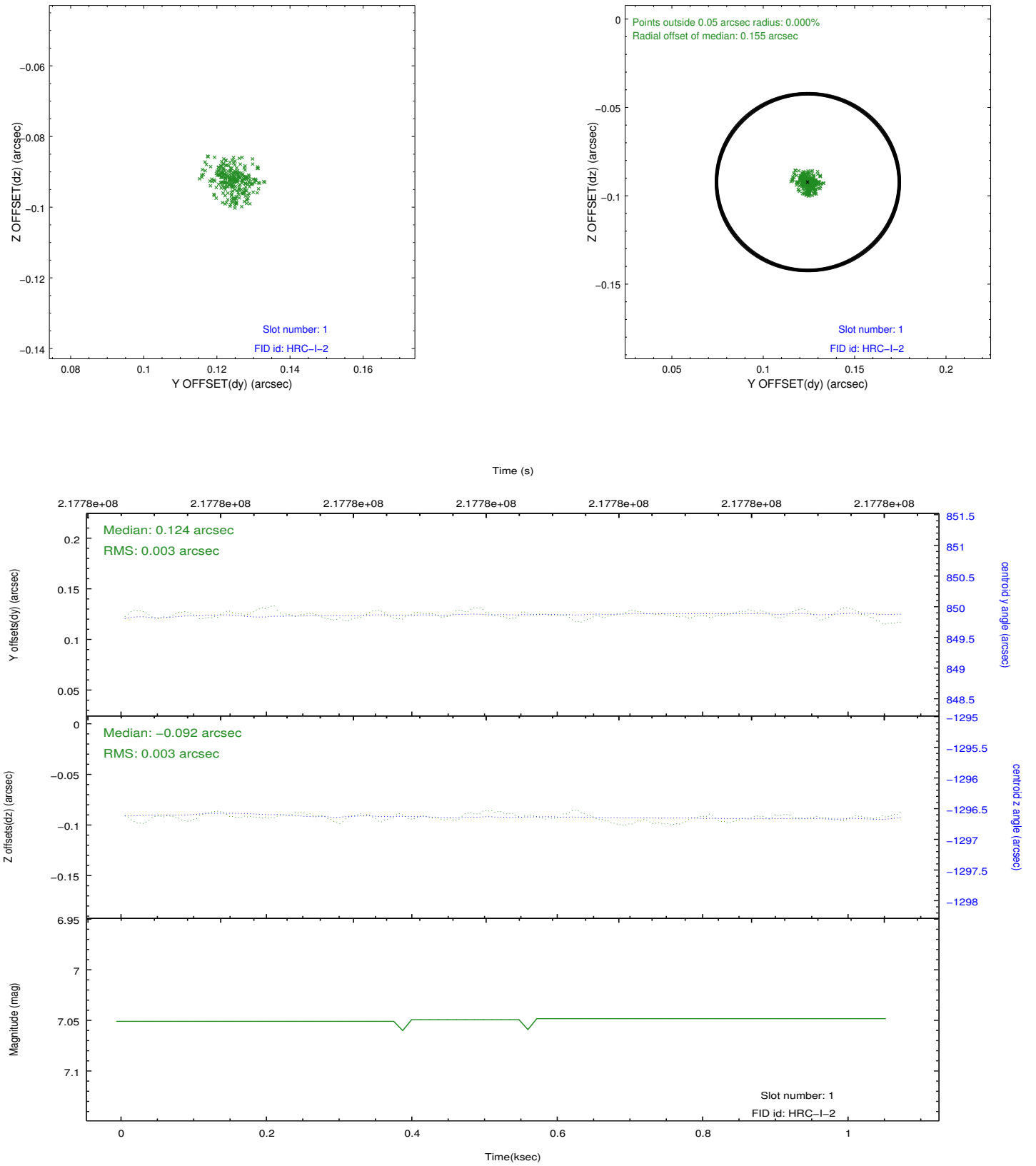


## 2.5 FID Slots

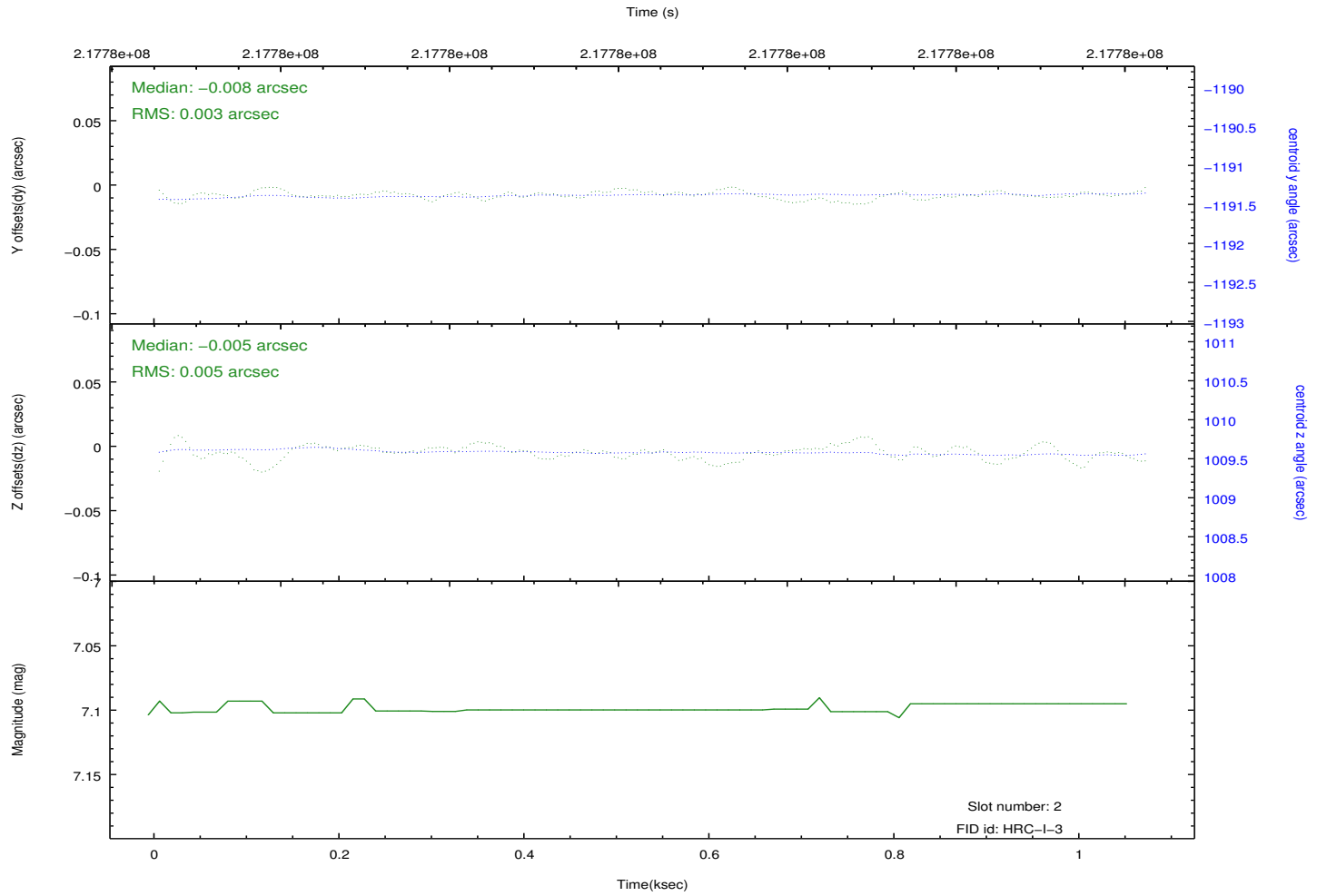
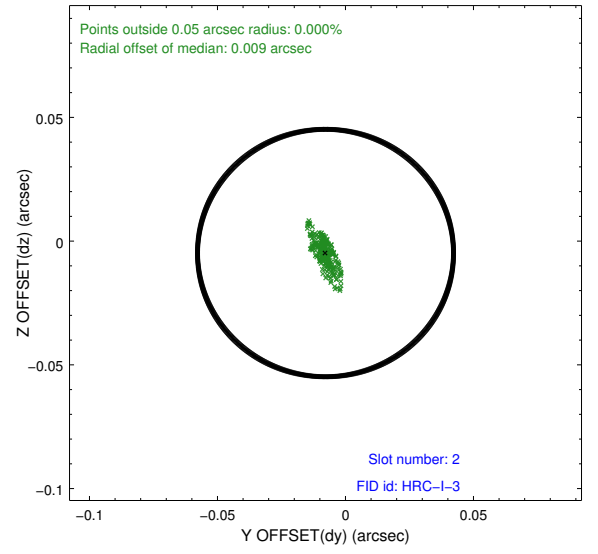
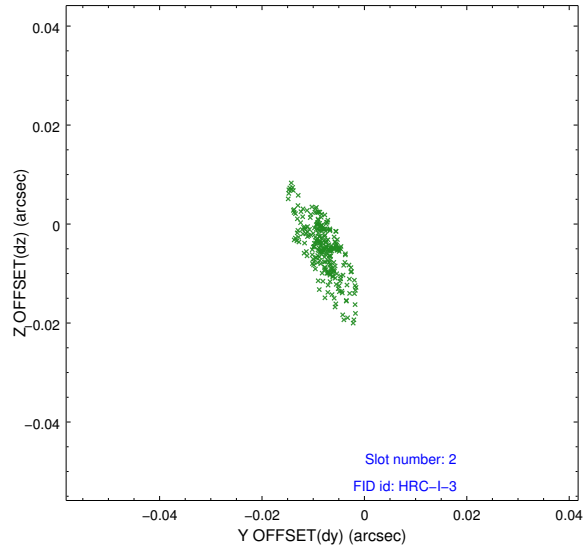
### 2.5.1 Slot 0



## 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)	2013.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.067281

### **A.2 Comments**