

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 5062 - L2 Version 4  
Chandra X-Ray Center

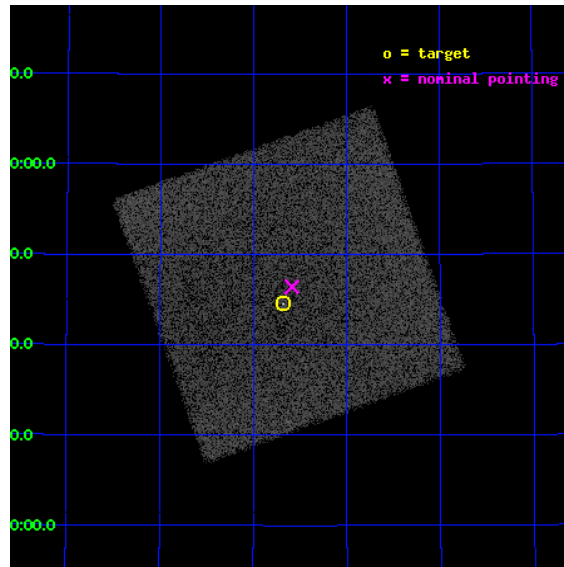
L2 Processing Date : Dec 9 2012

## 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

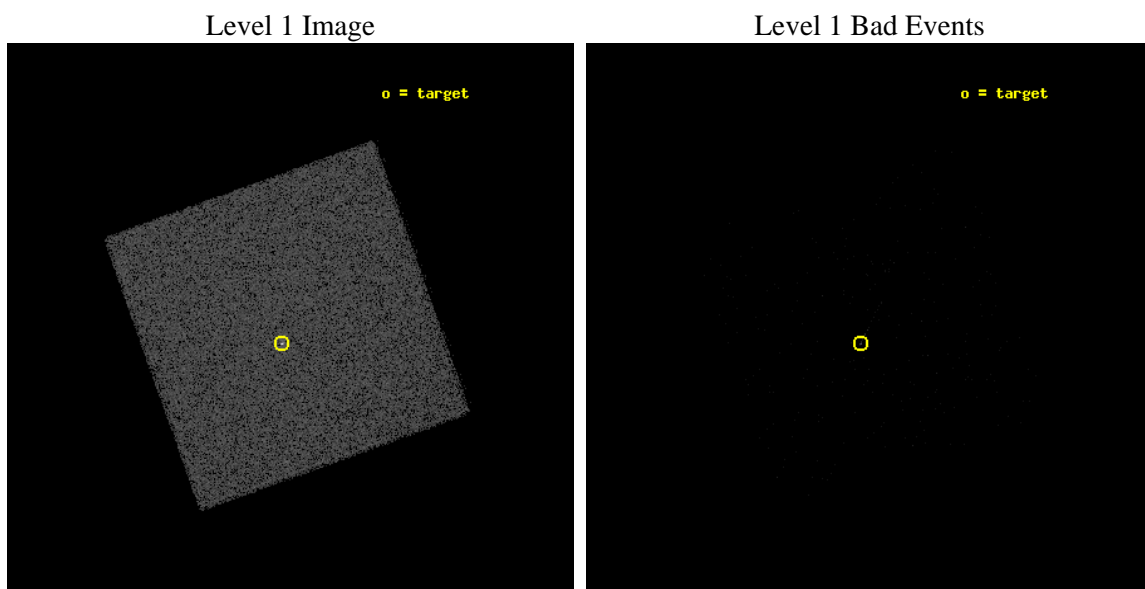
seq_num	290335	Sequence number
obs_id	5062	Observation id
title	AO5 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.14669890397	Nominal RA [deg]
dec_nom	45.773878141643	Nominal Dec [deg]
roll_nom	205.29928490065	Nominal Roll [deg]
revision	4	Processing version of data
ontime	617.05002754927	[s]
livetime	423.77190186995	Ontime multiplied by DTCOR
l2events	74384	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	617.05002754927	[s]
caldsver	4.5.4	&#160	l1events	157628	Number of level 1 events
date	2012-12-09T13:46:41	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

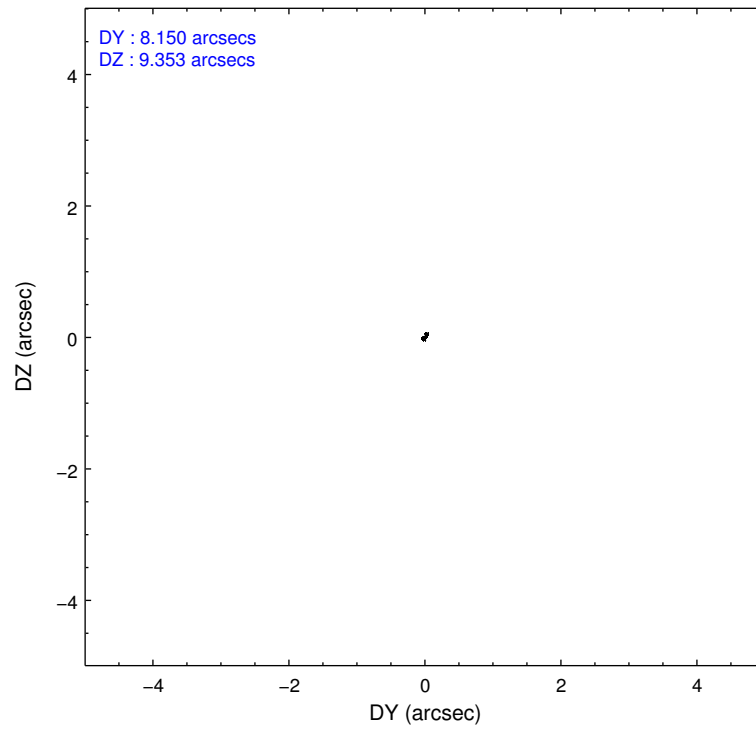
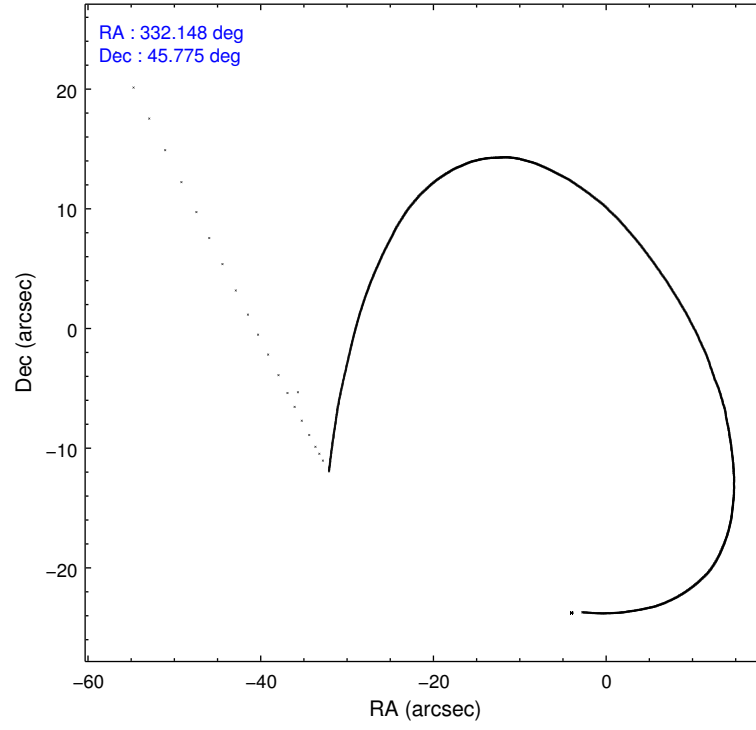
#### Level 1 Events

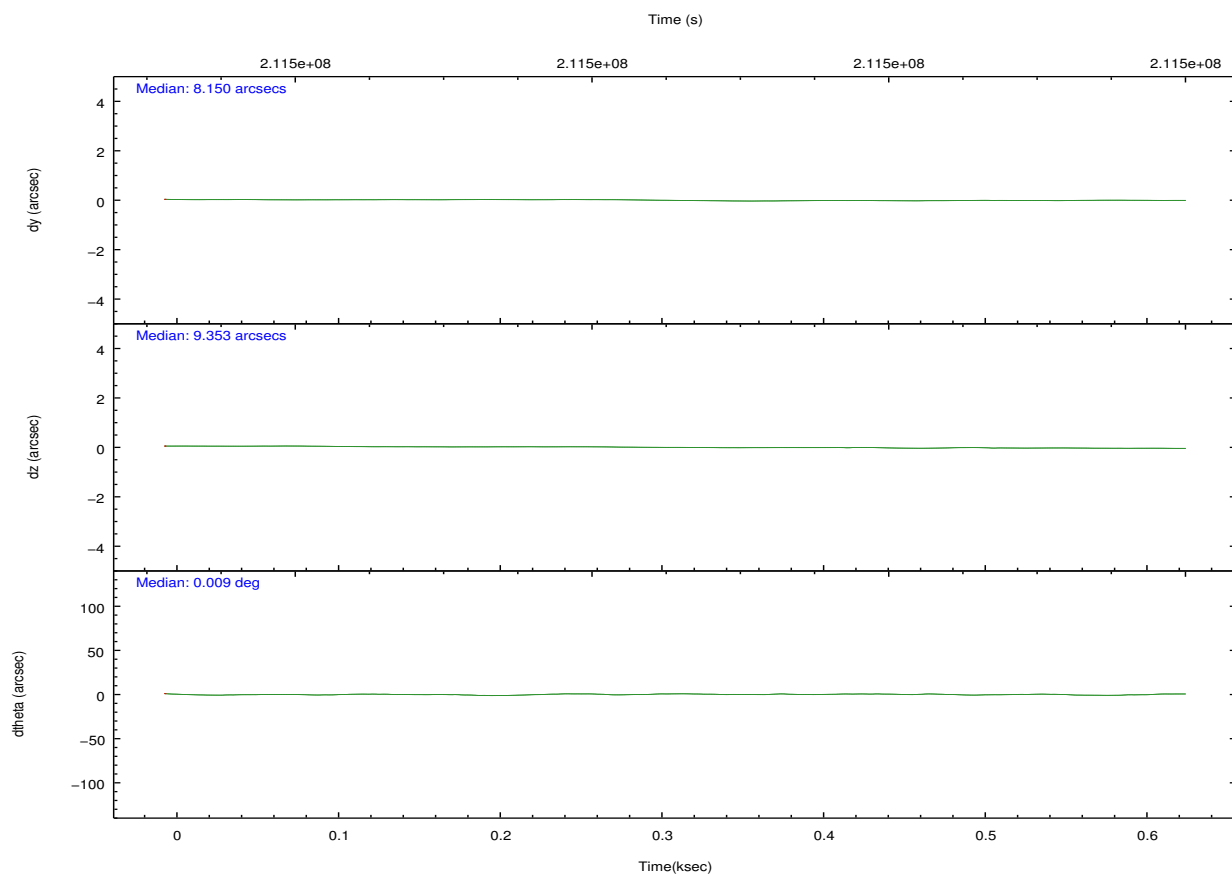
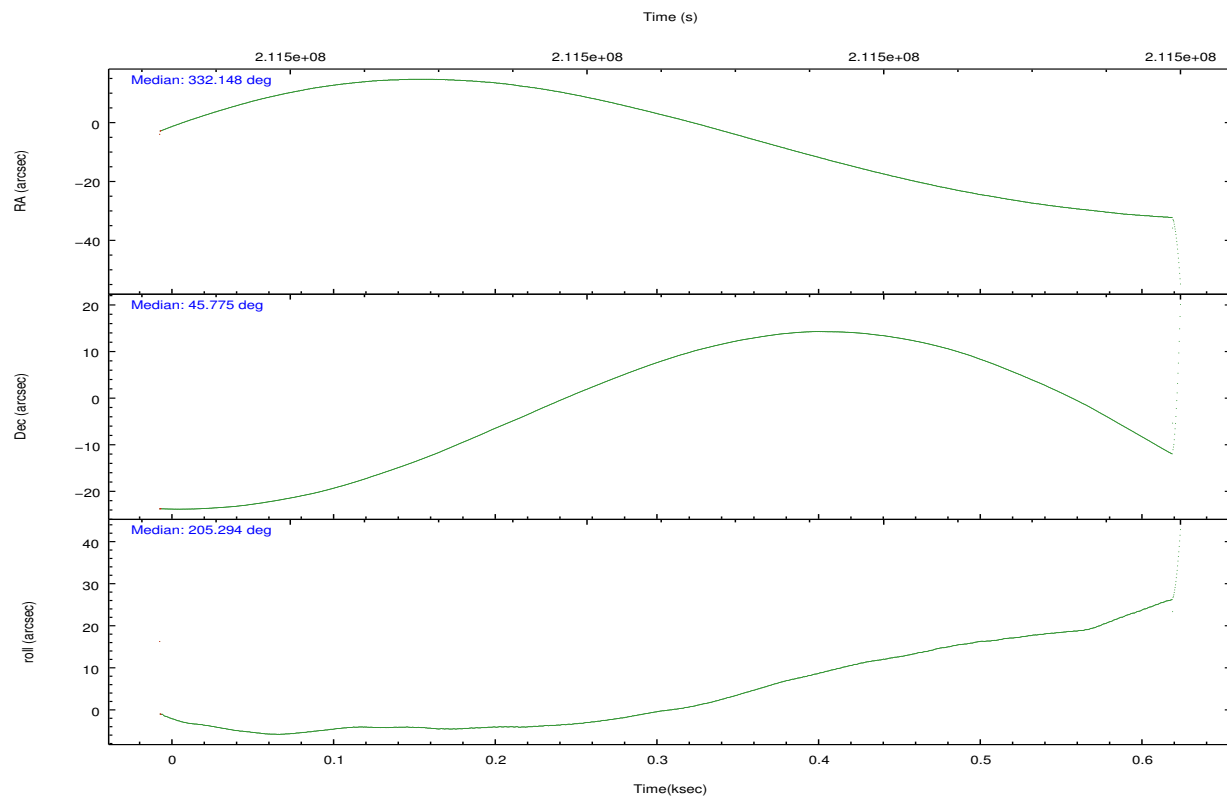
	<b>segment 0</b>
level 1 events	157628
rejected events	43658
rejected %	27%

## 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	332.164930	332.1466989039727			
[deg] Pointing Dec	45.794854	45.77387814164294			
[deg] Pointing Roll	205.381583	205.2992849006459			
[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)	211498321.184000	211497925.92673			
Observation start date	2004-09-13T21:30:57	2004-09-13T21:25:25			
[s] Observation end time (MET)	211499321.184000	211498780.26427			
Observation end date	2004-09-13T21:47:37	2004-09-13T21:39:40			

## 2.3 Aspect





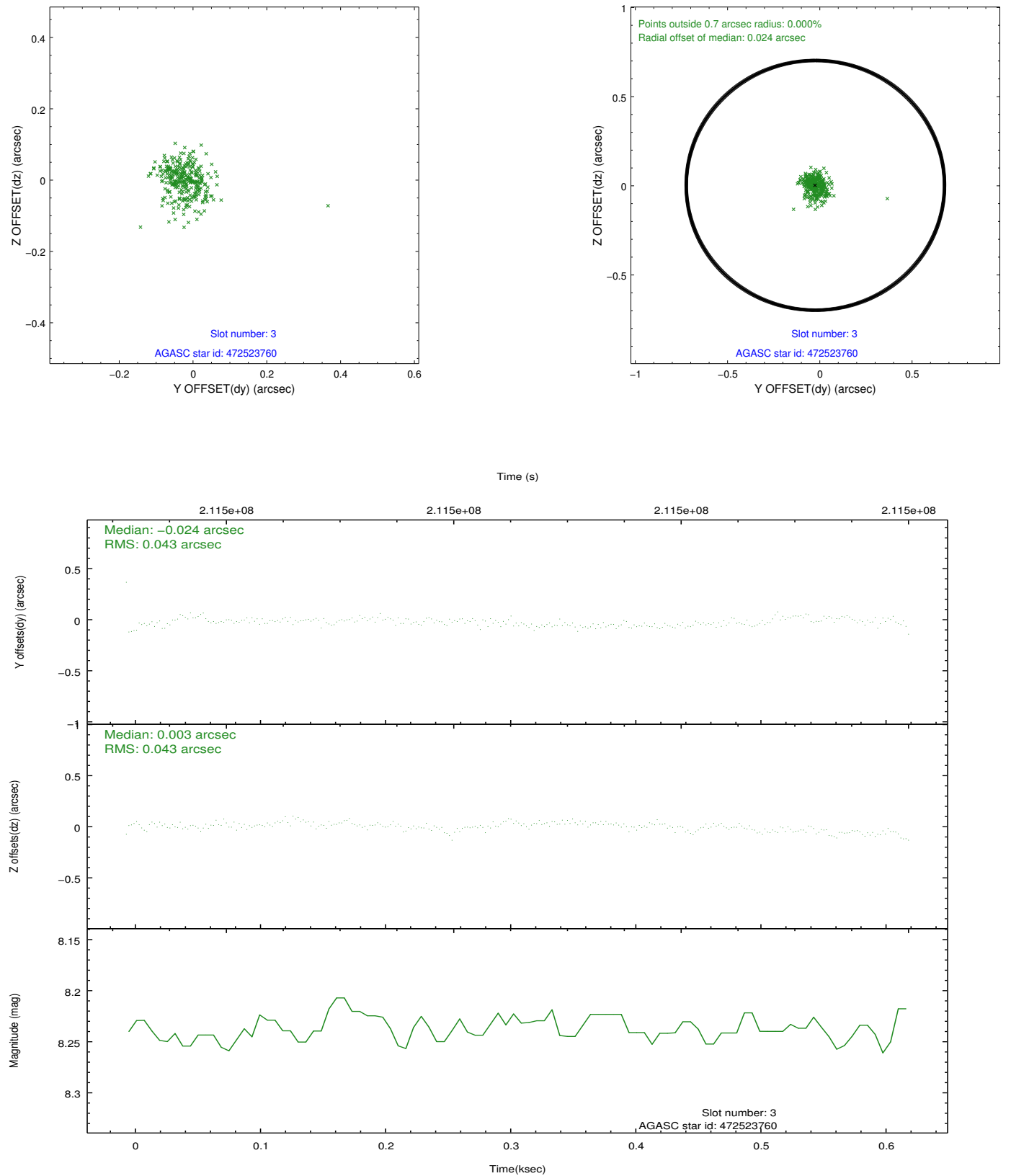
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	7.04	153	-0.032	0.047	0.008	0.026	0.000000	0.000000	-763.80	-1297.22
1	FID	HRC-I-2	7.08	153	0.162	-0.104	0.006	0.012	0.000000	0.000000	844.03	-1307.43
2	FID	HRC-I-3	7.13	153	-0.011	-0.033	0.006	0.020	0.000000	0.000000	-1186.75	998.72
3	GUIDE	472523760	8.24	306	-0.024	0.003	0.058	0.098	331.645363	45.403260	1799.38	709.00
4	GUIDE	472533912	9.17	306	0.113	-0.015	0.119	0.200	331.791136	46.368695	-30.97	-2262.12
5	GUIDE	472655152	9.42	306	0.080	-0.248	0.151	0.250	332.504239	45.862991	-864.05	135.72
6	GUIDE	472659832	9.47	306	-0.012	0.124	0.113	0.177	332.780399	46.098139	-1851.03	-330.79
7	GUIDE	472535576	7.87	306	-0.164	0.156	0.057	0.118	331.438373	46.291802	866.91	-2397.39

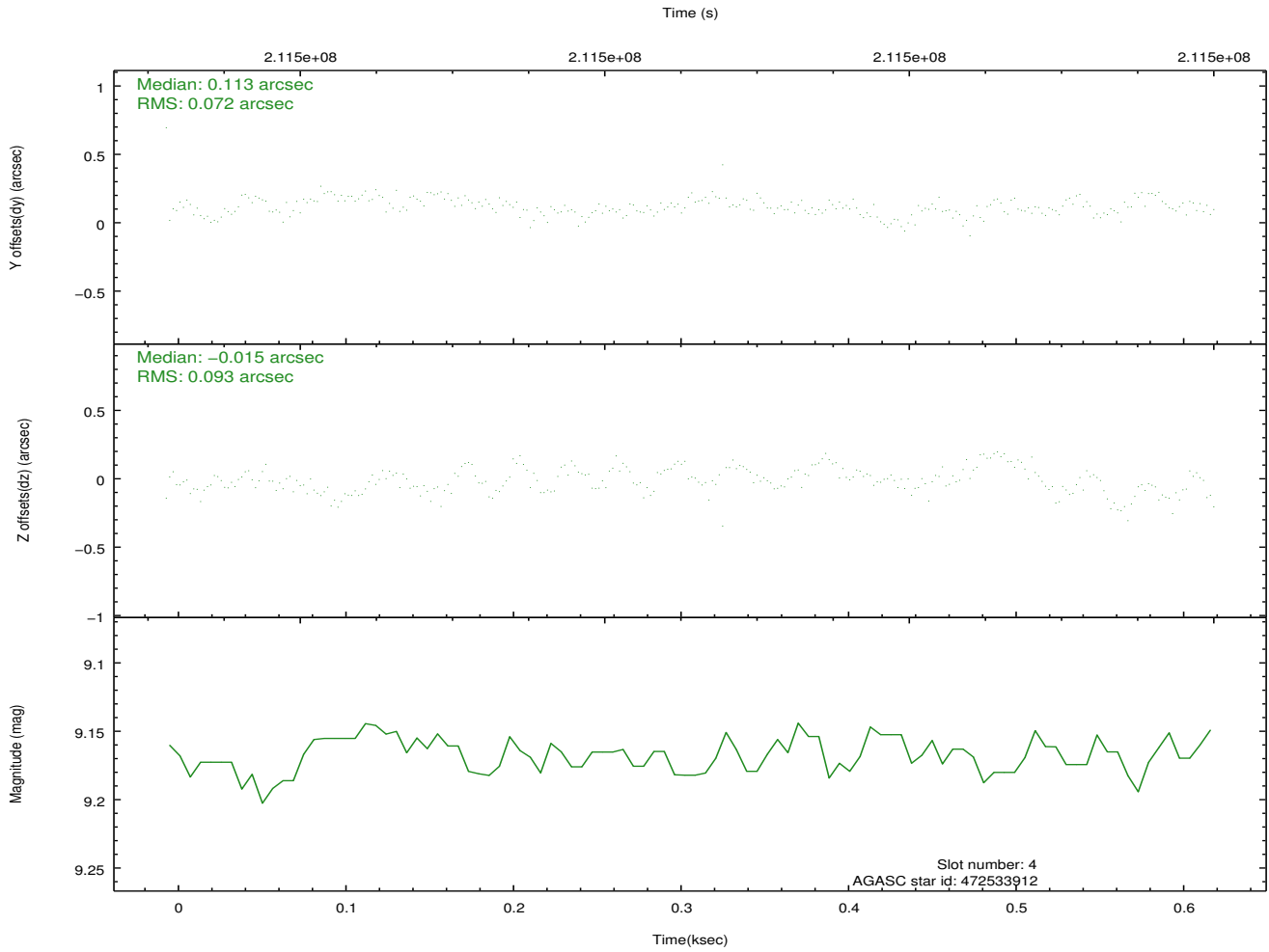
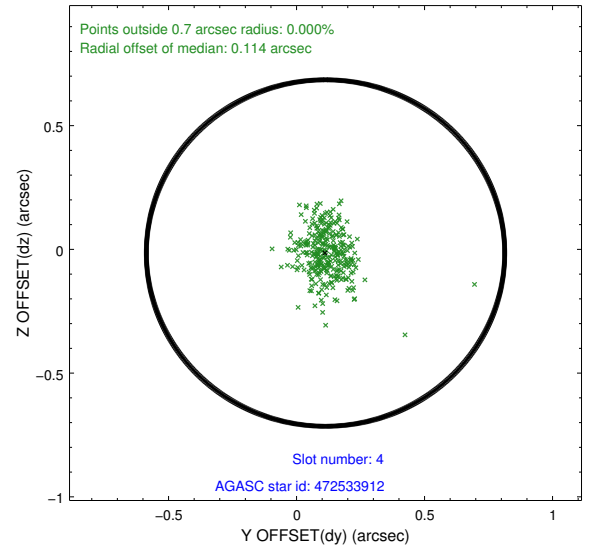
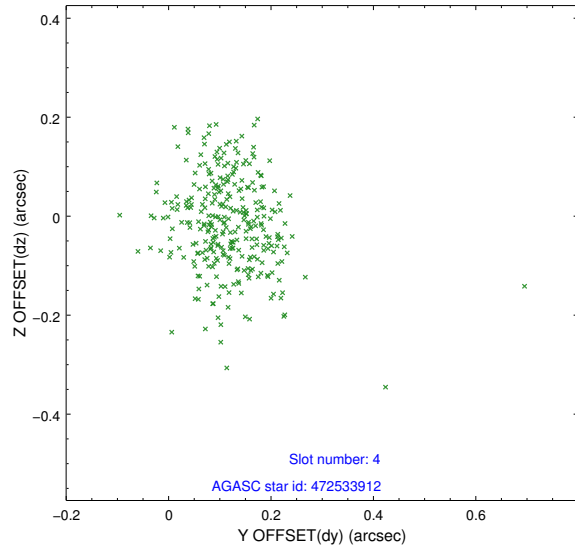


## 2.4 Star Slots

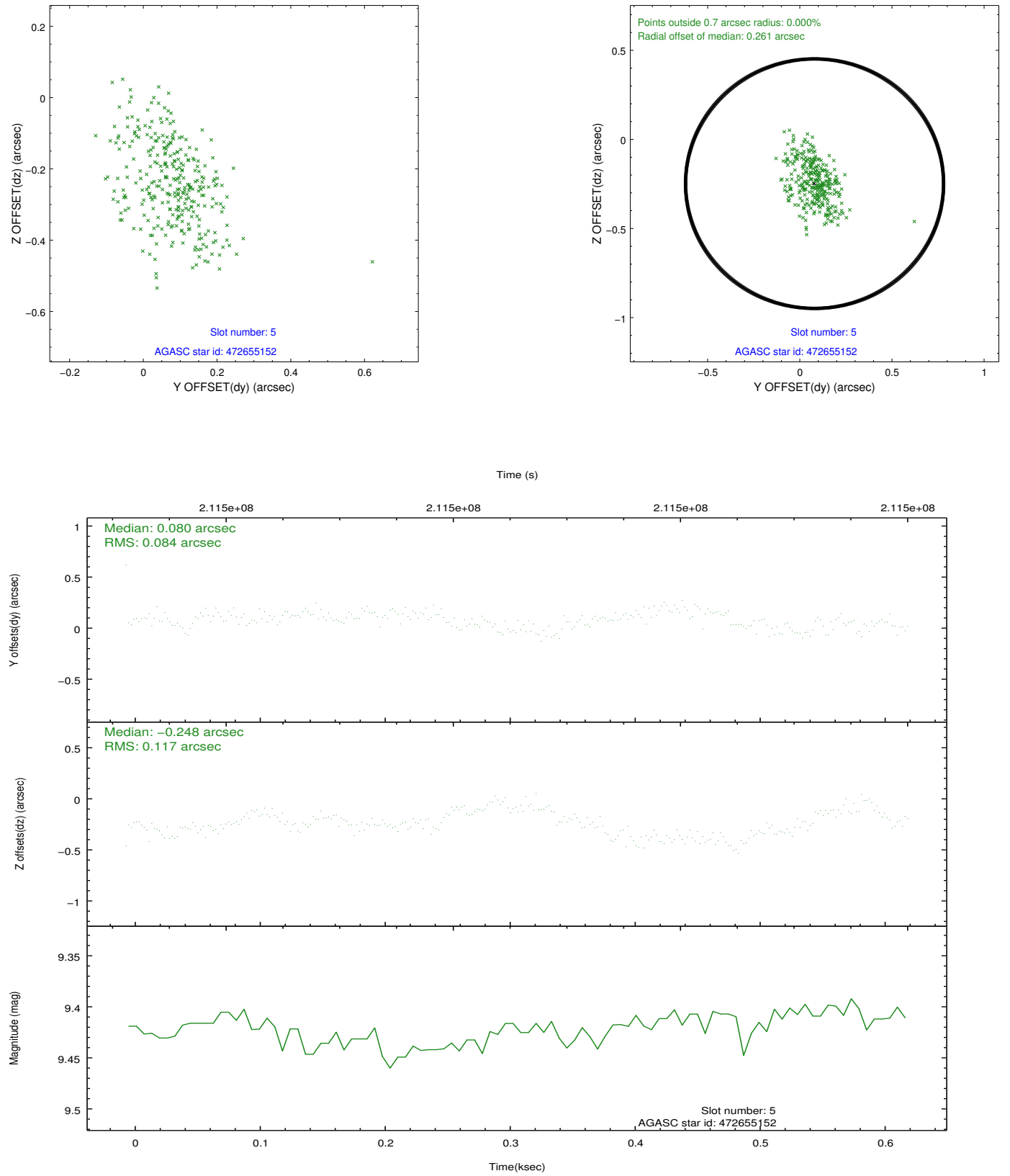
### 2.4.1 Slot 3



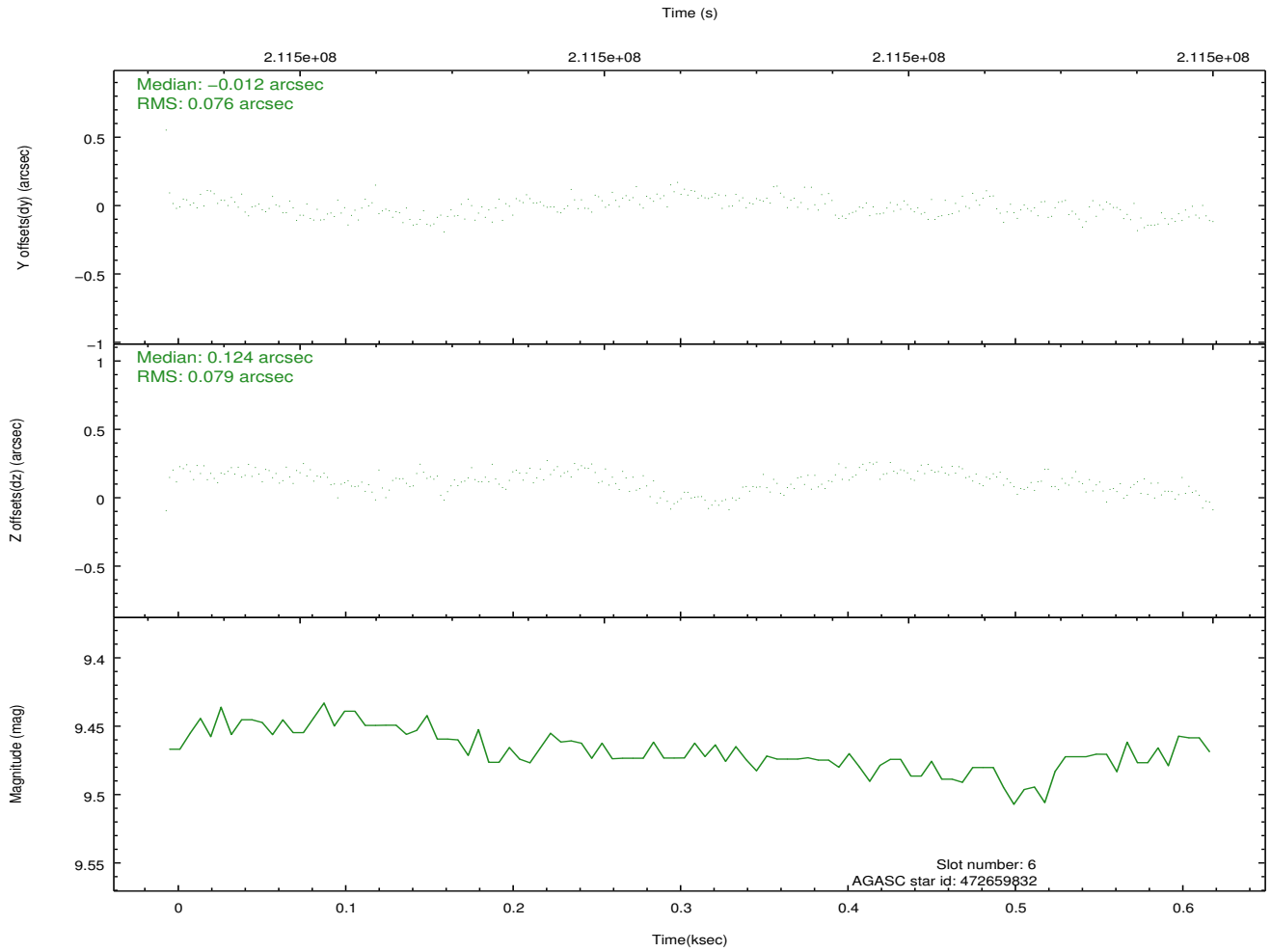
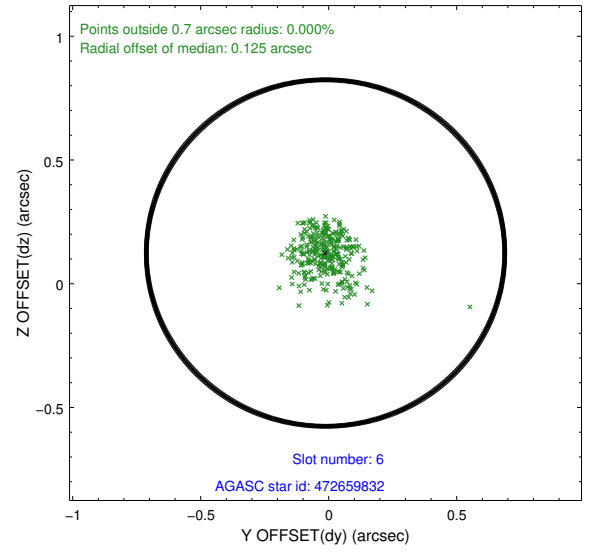
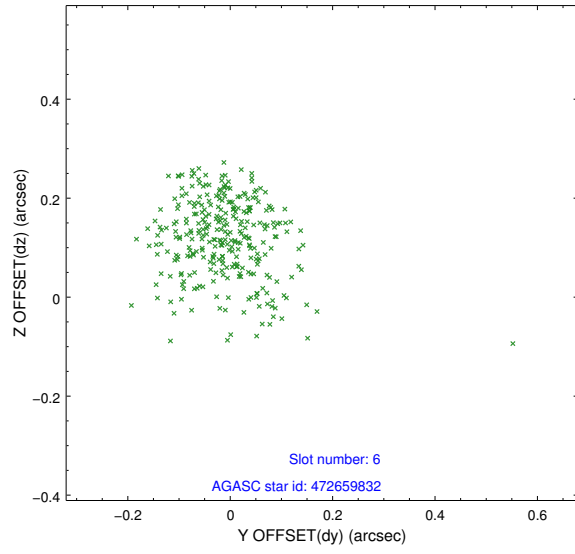
## 2.4.2 Slot 4



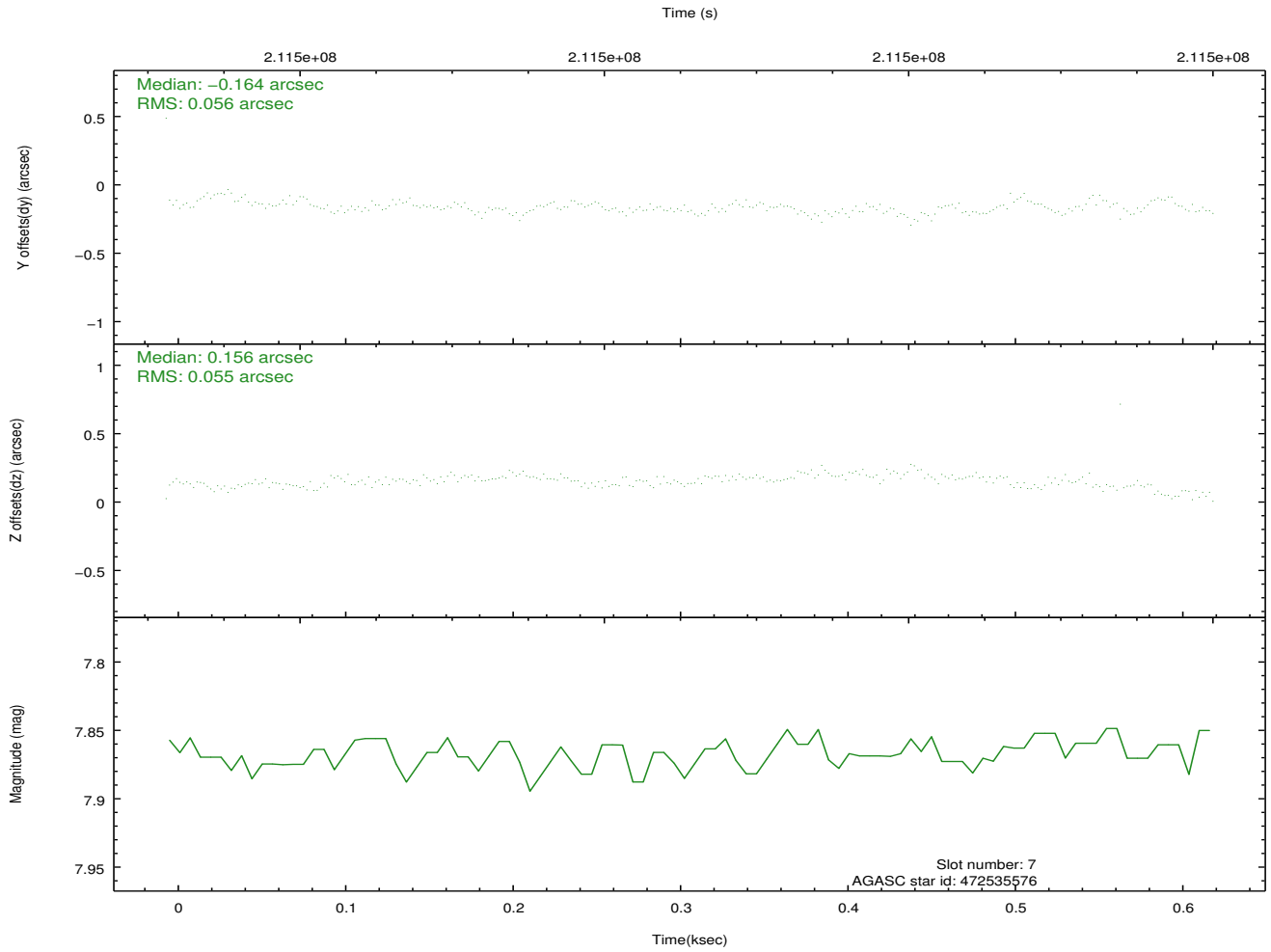
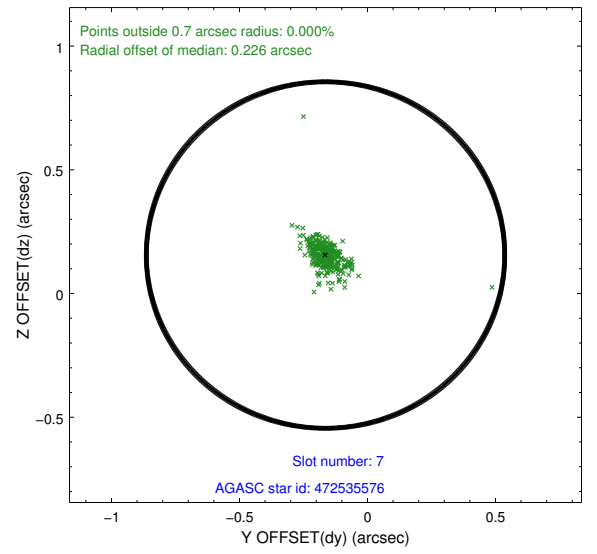
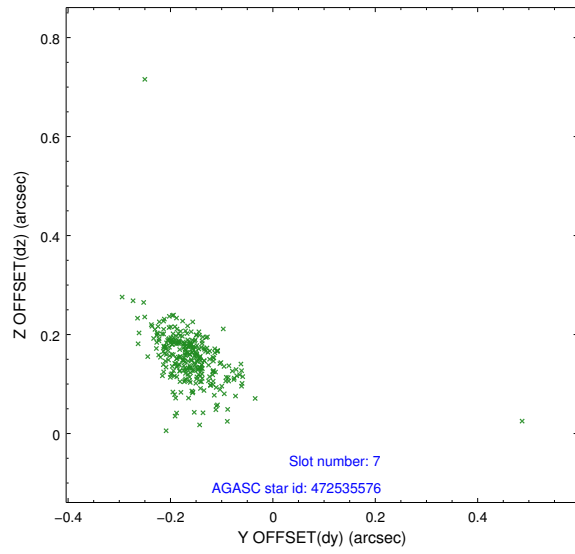
### 2.4.3 Slot 5



## 2.4.4 Slot 6

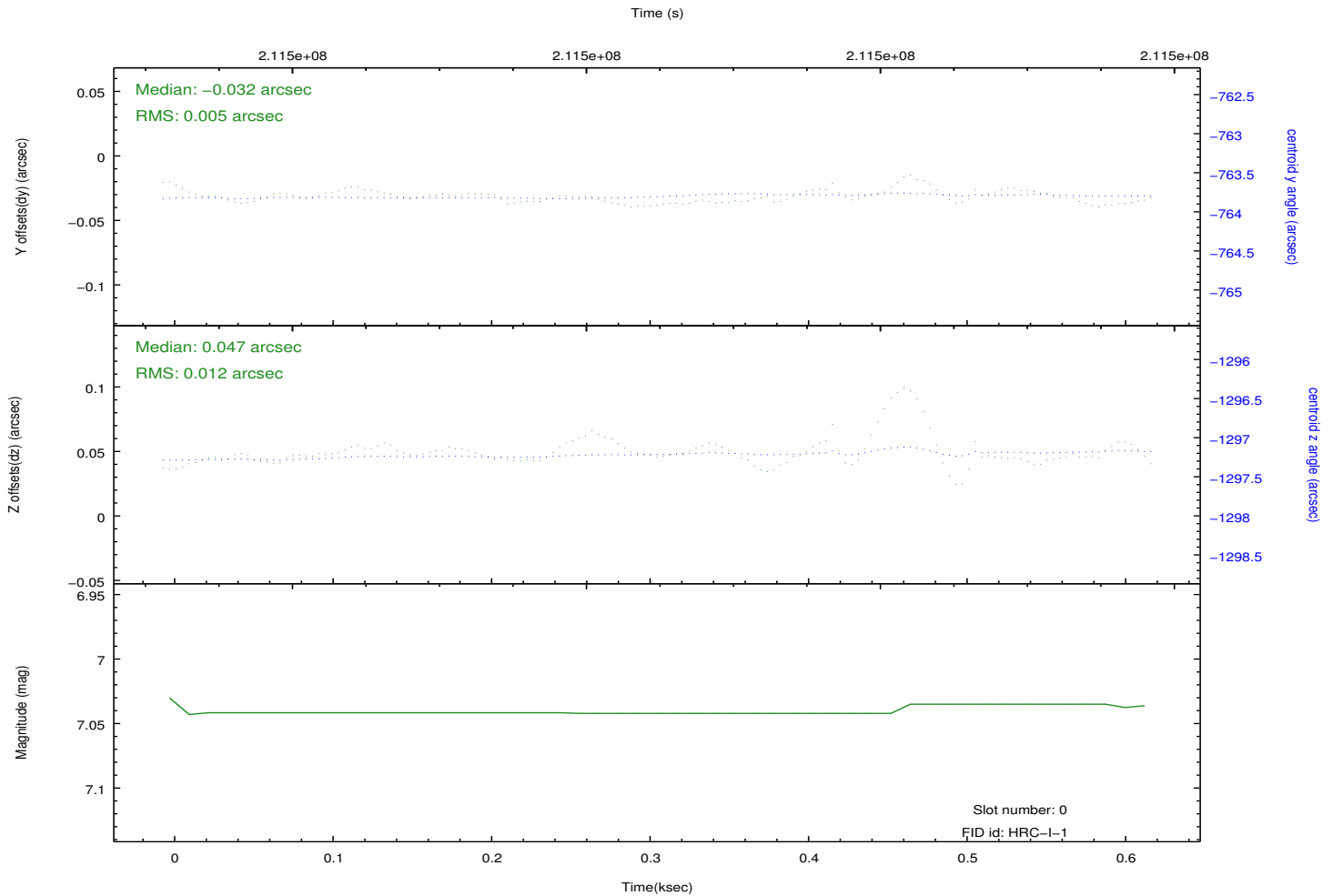
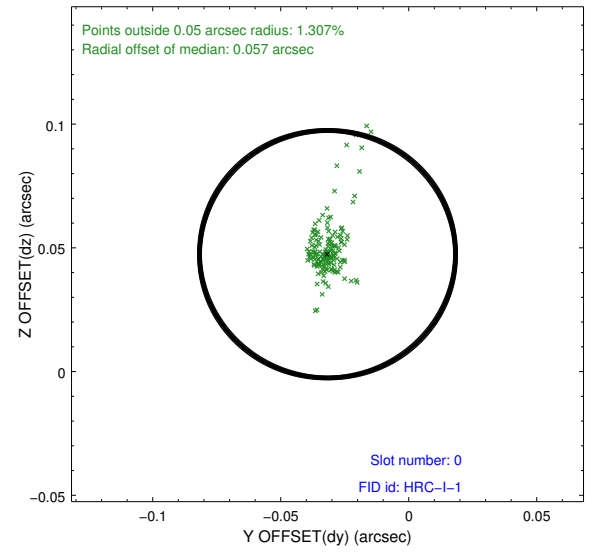
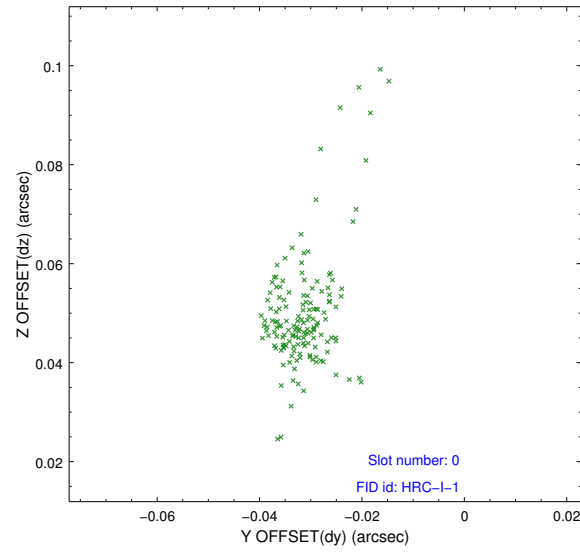


## 2.4.5 Slot 7

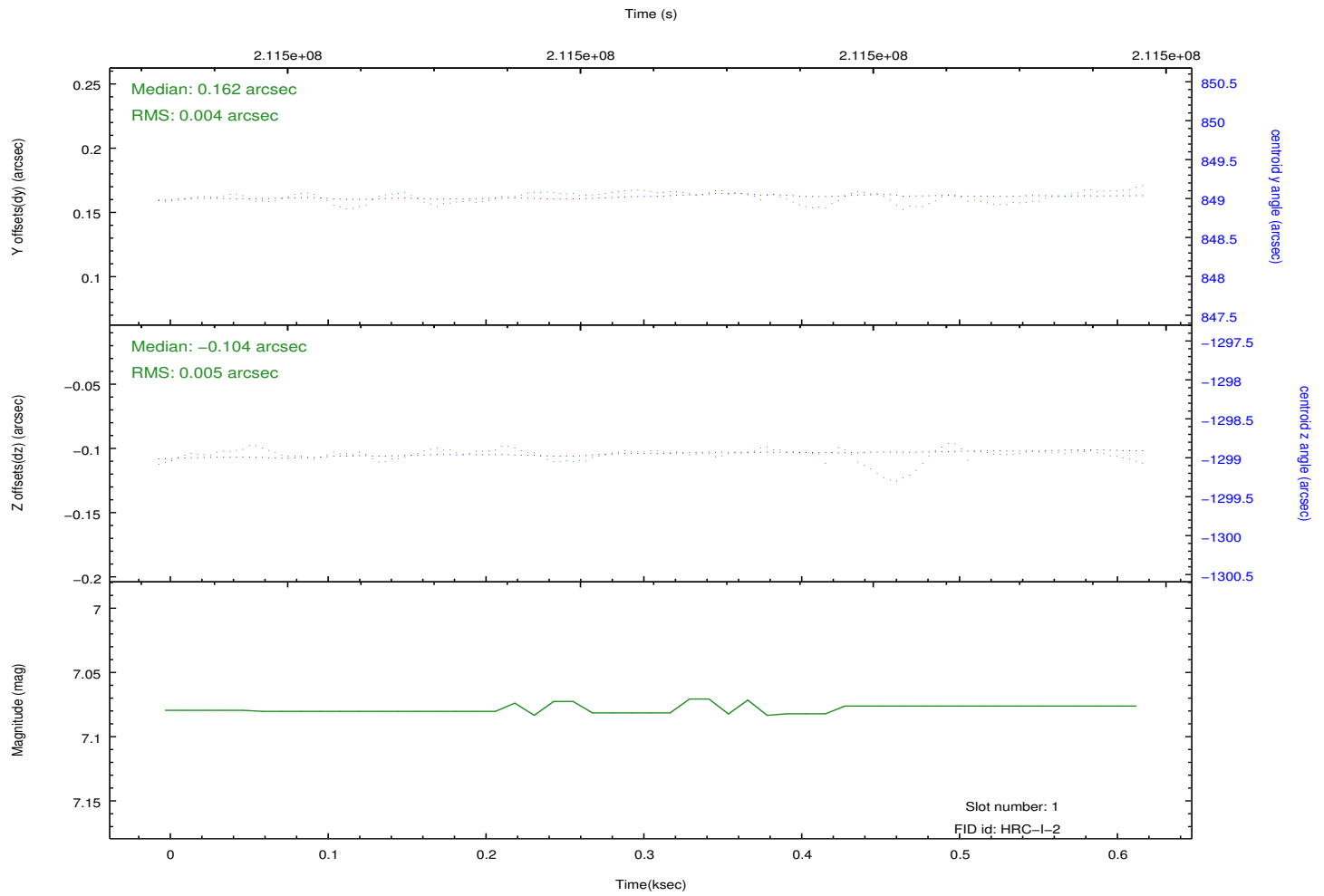
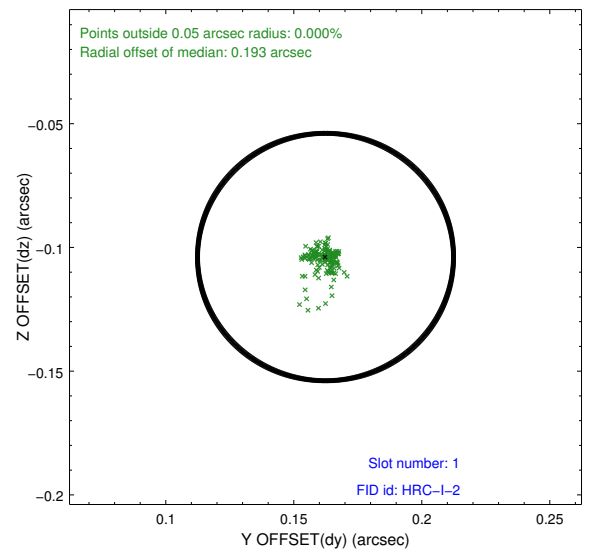
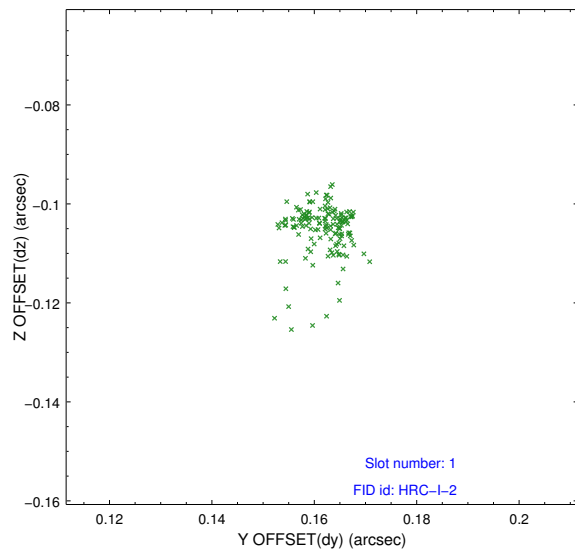


## 2.5 FID Slots

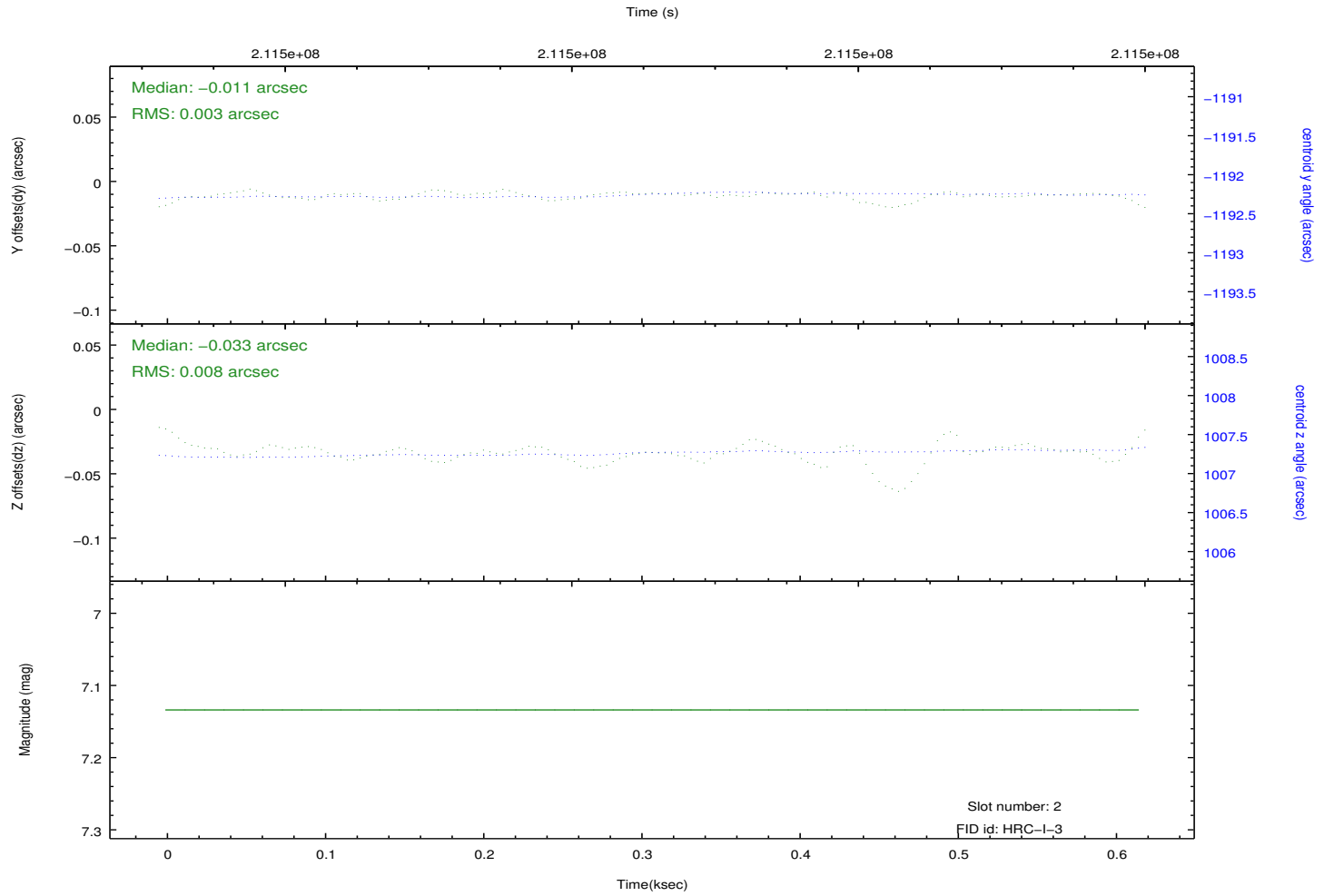
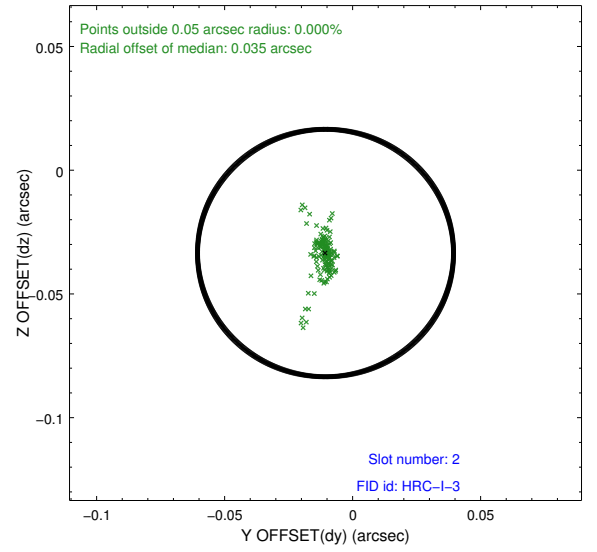
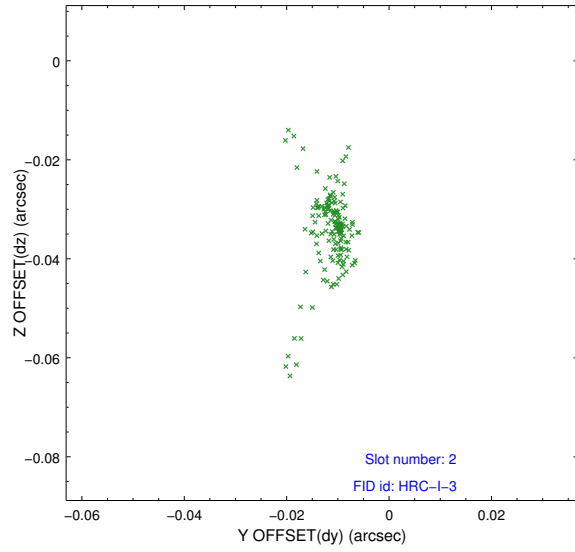
### 2.5.1 Slot 0



## 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)	2012.12.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.609

## A.2 Comments

SCS 107 ran at 21:38, interrupting the observation and causing large SIM motions. These are expected consequences of the safing process.

Charge time for this observation remains at previous value of 0.609 ksec.