

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2412 - L2 Version 4  
Chandra X-Ray Center

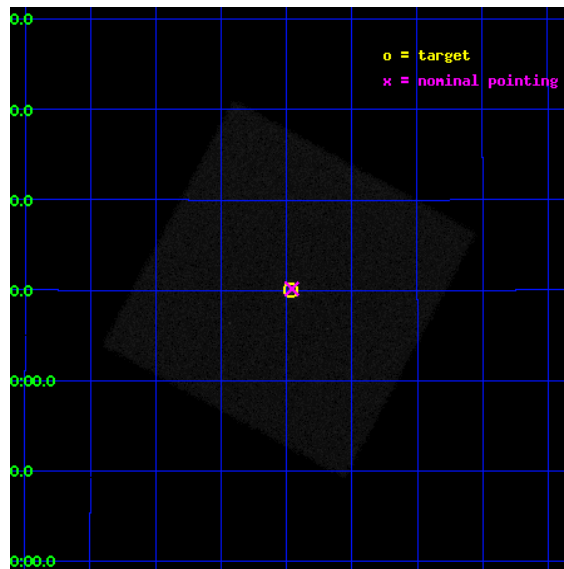
L2 Processing Date : Sep 21 2012

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# 1 Front

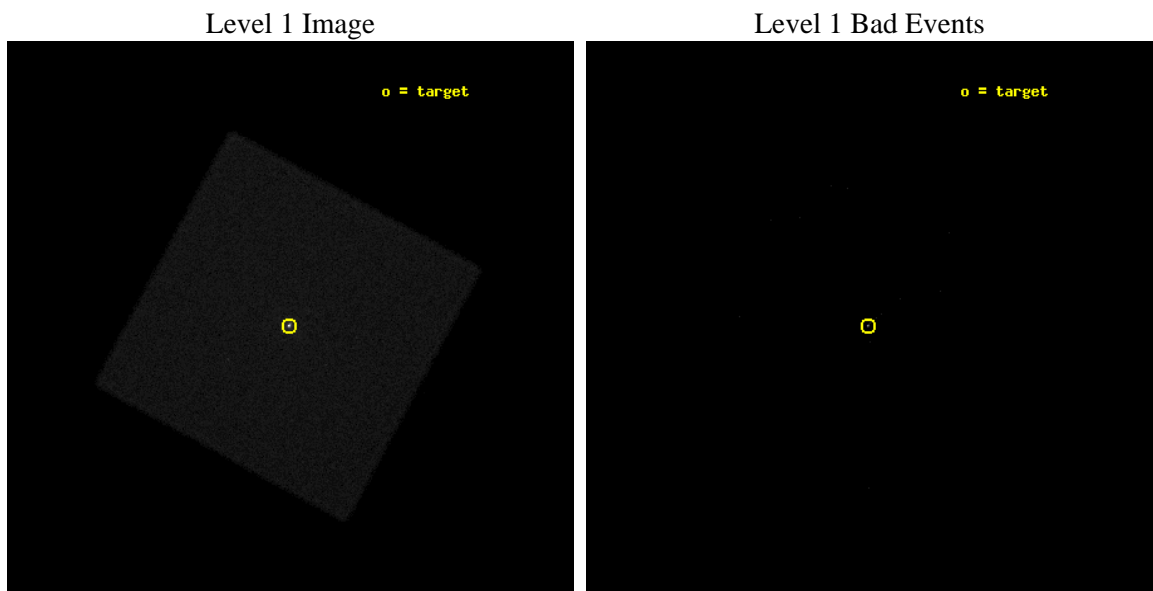
seq_num	300051	Sequence number
obs_id	2412	Observation id
title	THE X-RAY SOURCE POPULATION IN THE CORE OF M15	Proposal title
observer	Professor Philip Charles	Principal investigator
object	M15	Source name
ra_targ	322.492917	Observer's specified target RA [deg]
dec_targ	12.166806	Observer's specified target Dec [deg]
ra_nom	322.48974015578	Nominal RA [deg]
dec_nom	12.169417110659	Nominal Dec [deg]
roll_nom	163.47691937295	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8872.5284693986	[s]
livetime	8820.704420592	Ontime multiplied by DTCOR
l2events	316440	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	9000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8872.6565991342	[s]
caldbver	4.5.1.1	&#160	l1events	444578	Number of level 1 events
date	2012-09-21T10:15:55	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

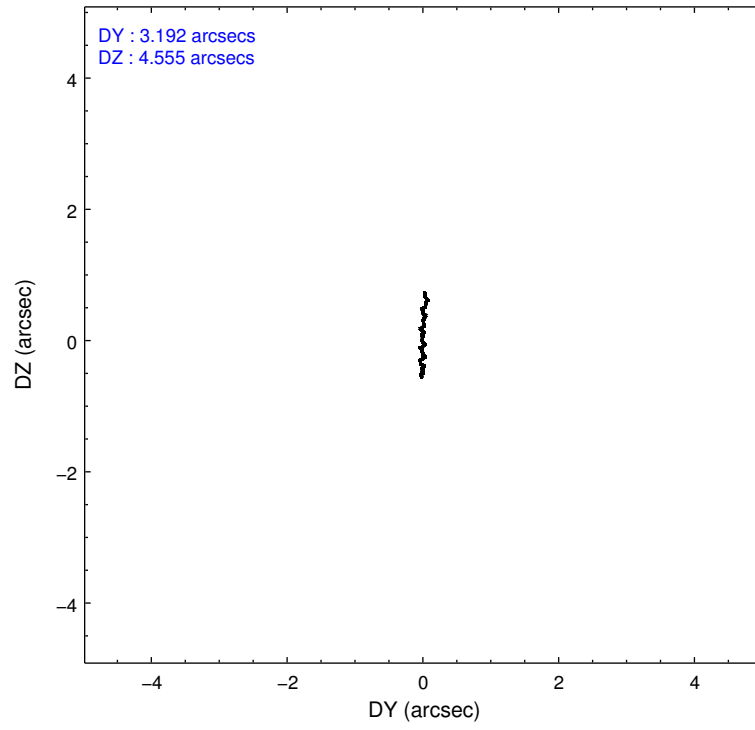
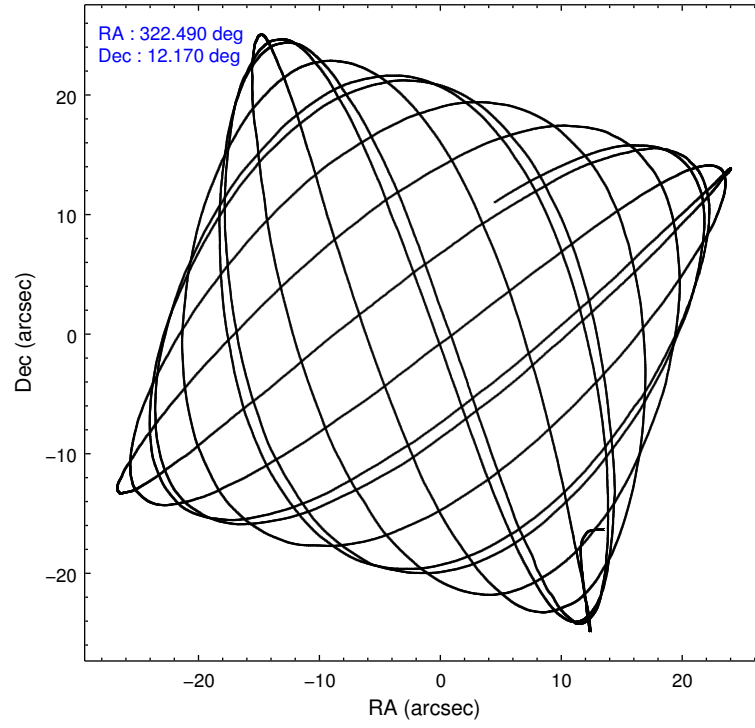
	<b>segment 0</b>
level 1 events	444578
rejected events	5443
rejected %	1%

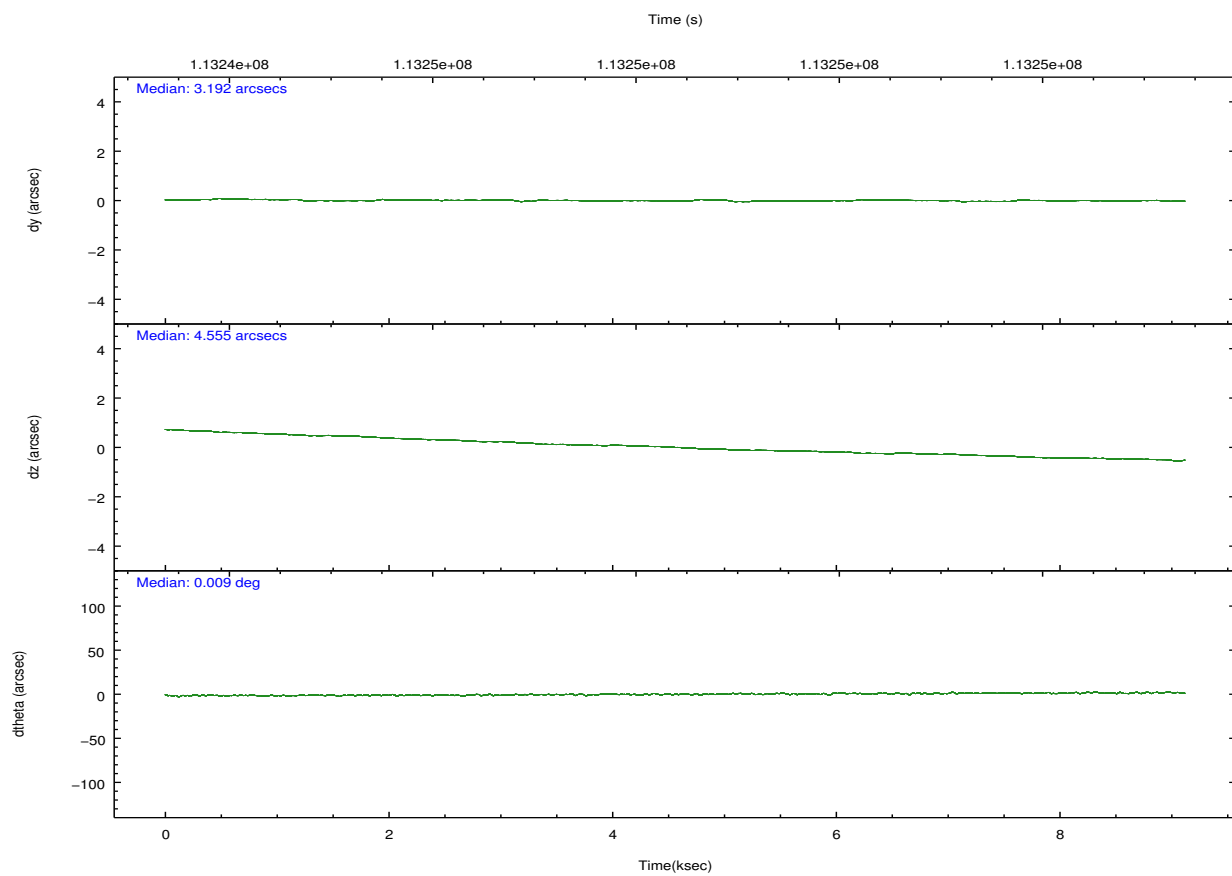
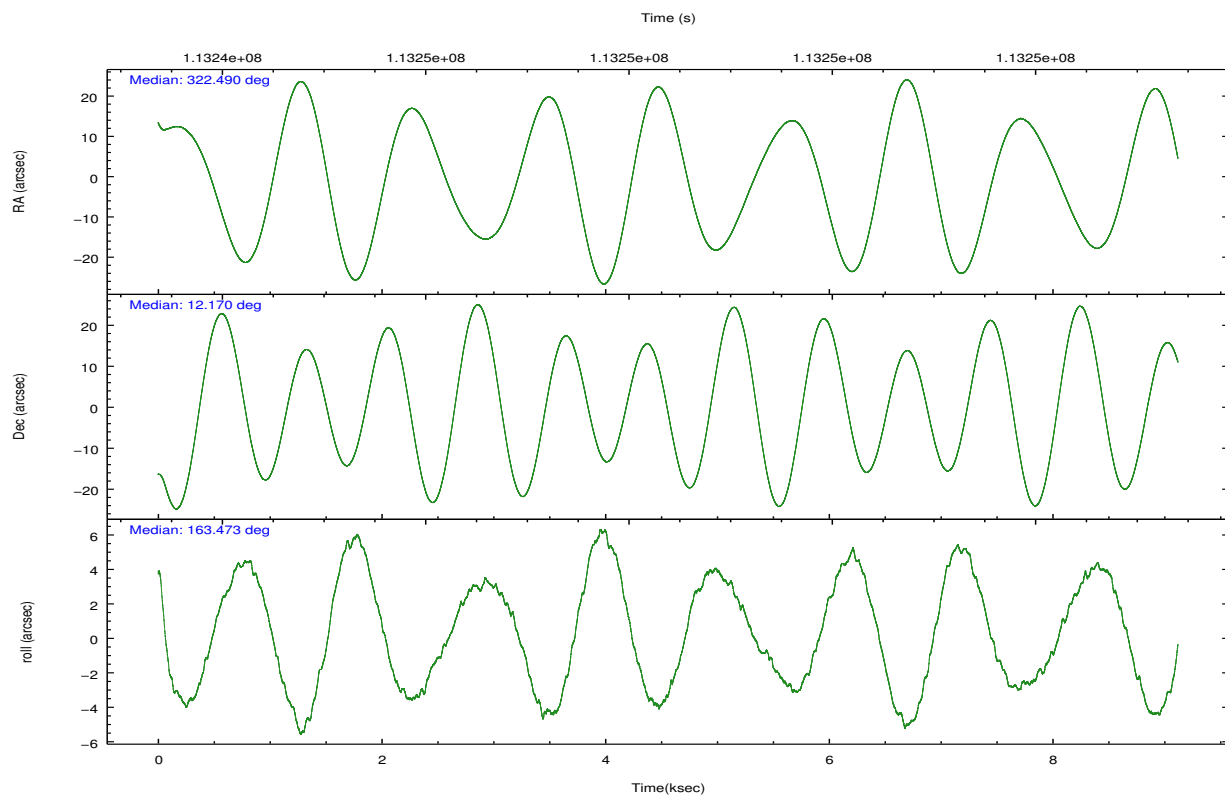


## 2.2 Compared Parameters

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	322.516426	322.4897401557822			
[deg] Pointing Dec	12.176363	12.16941711065867			
[deg] Pointing Roll	163.566771	163.4769193729459			
[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			
Phase constraints	Y	Y			
[d] Phase period	0.712917	0.712917			
[d] Phase epoch (MJD)	50642.547000	50642.547000			
Phase start	0.900000	0.900000			
Phase end	0.100000	0.100000			
Phase start error	0.050000	0.050000			
Phase end error	0.050000	0.050000			
[s] Observation start time (MET)	113243941.184000	113243075.63319			
Observation start date	2001-08-03T16:37:57	2001-08-03T16:24:35			
[s] Observation end time (MET)	113252941.184000	113253828.90861			
Observation end date	2001-08-03T19:07:57	2001-08-03T19:23:48			

## 2.3 Aspect



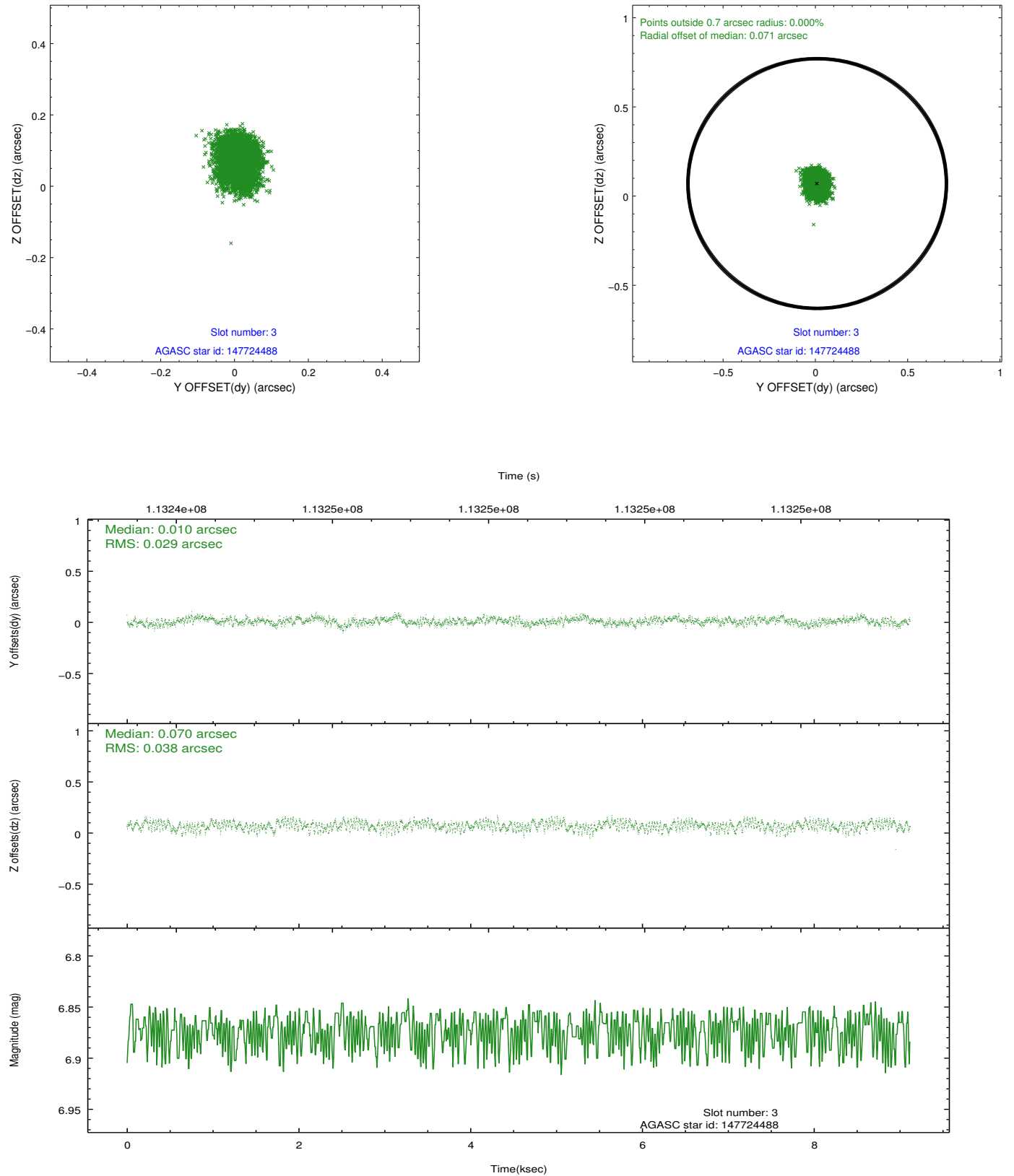


### Slot Statistics

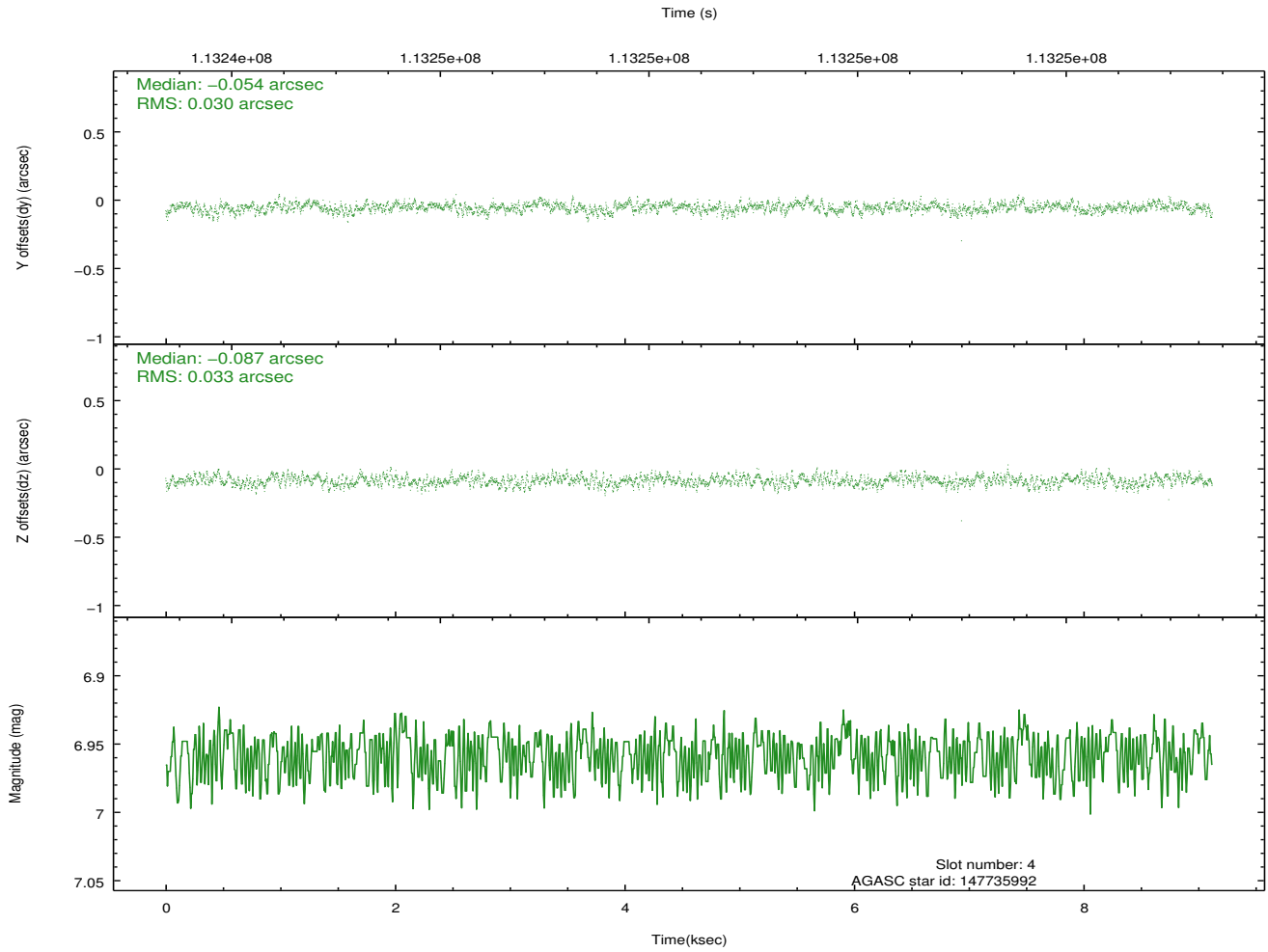
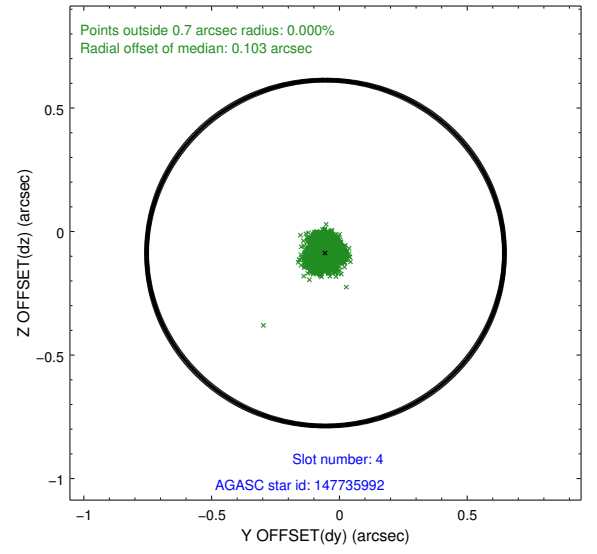
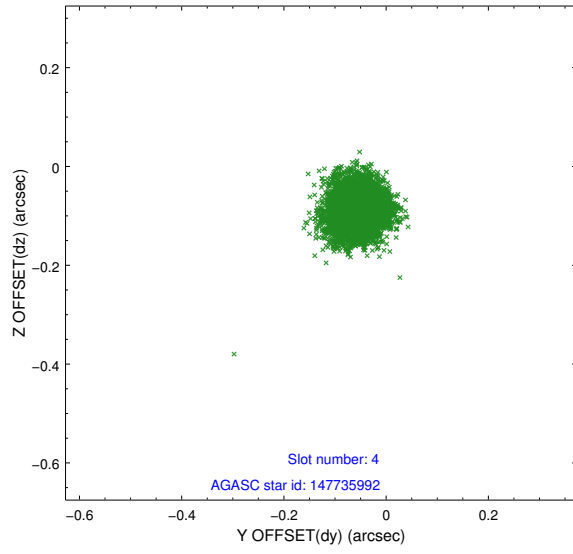
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.98	2225	0.042	0.049	0.016	0.025	0.000000	0.000000	-758.65	-1292.30
1	FID	HRC-I-3	7.07	2225	0.005	-0.089	0.008	0.014	0.000000	0.000000	-1187.49	1011.55
2	FID	HRC-I-4	7.01	2225	0.067	-0.048	0.016	0.024	0.000000	0.000000	1283.66	1010.20
3	GUIDE	147724488	6.87	4450	0.010	0.070	0.051	0.082	323.246427	12.539602	-2089.13	-1983.09
4	GUIDE	147735992	6.96	4450	-0.054	-0.087	0.048	0.076	322.299566	11.952911	504.88	987.22
5	GUIDE	147722152	7.53	4449	0.034	0.035	0.049	0.080	322.735072	12.555367	-350.13	-1525.78
6	GUIDE	147735328	8.68	4448	-0.113	-0.046	0.060	0.100	321.823462	12.214663	2378.74	554.63
7	GUIDE	147731936	8.70	4446	0.123	0.031	0.056	0.091	322.421133	12.450297	601.50	-850.67

## 2.4 Star Slots

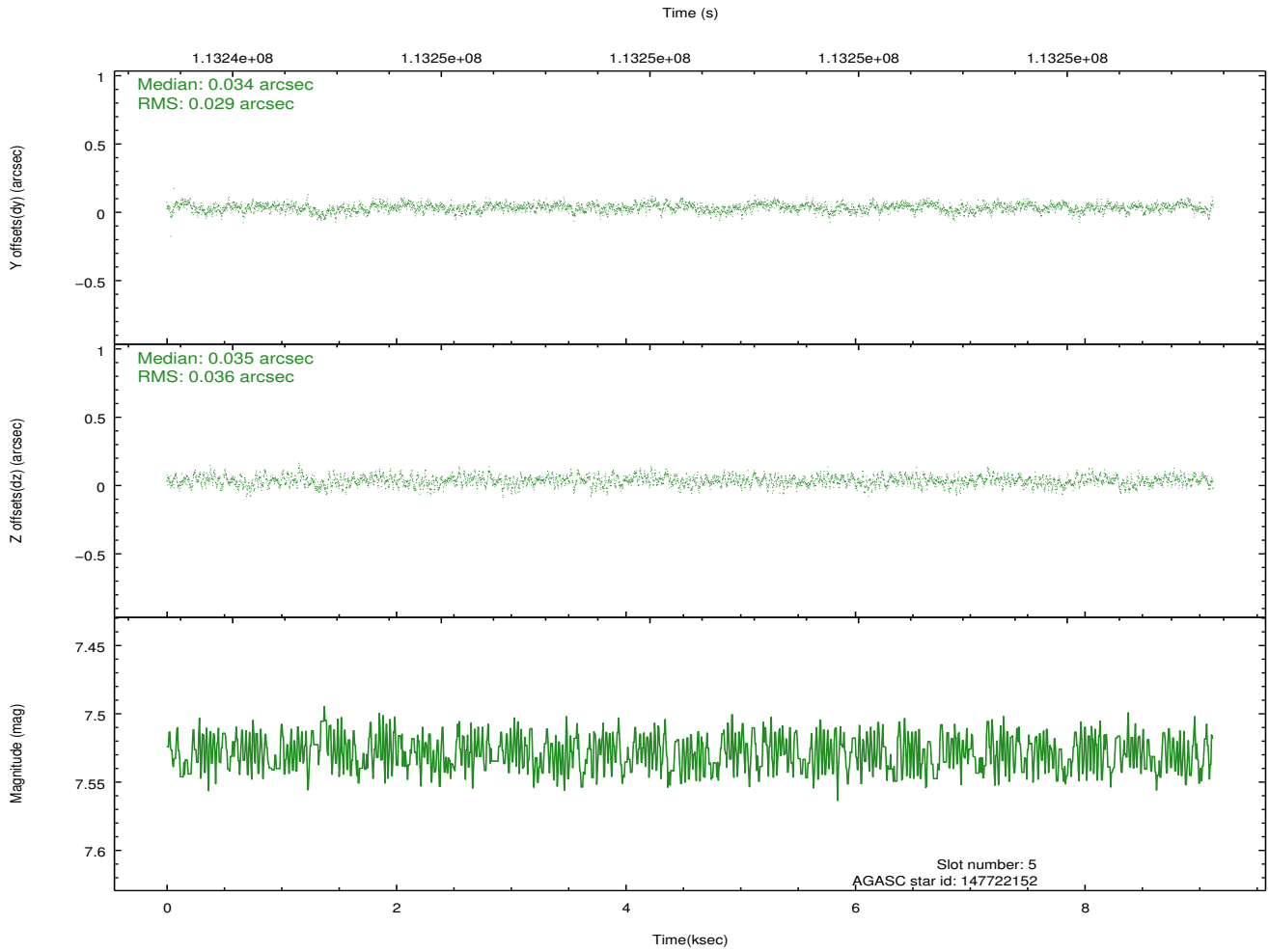
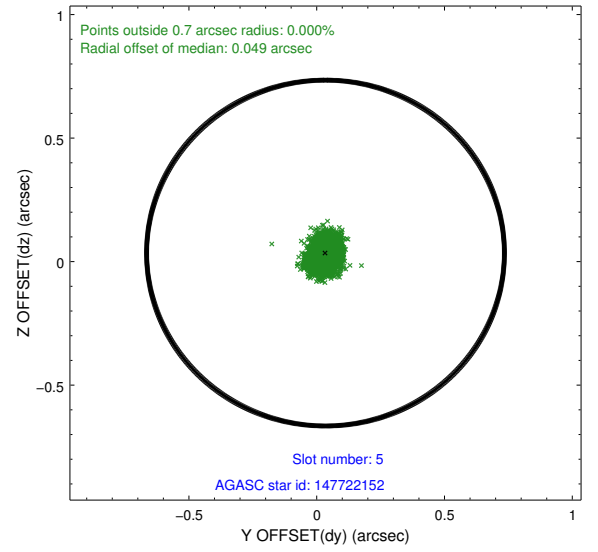
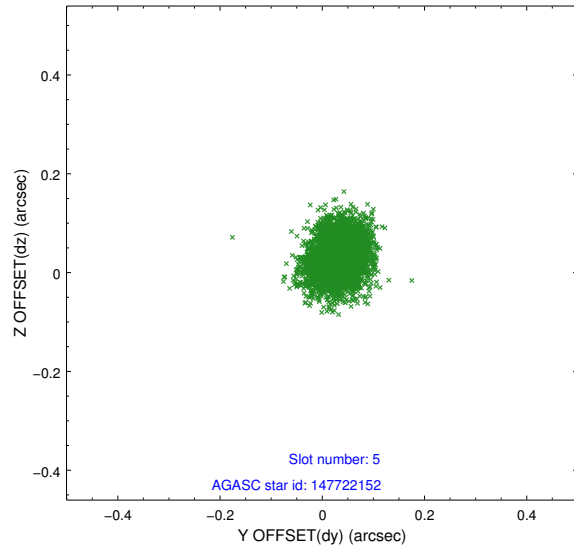
### 2.4.1 Slot 3



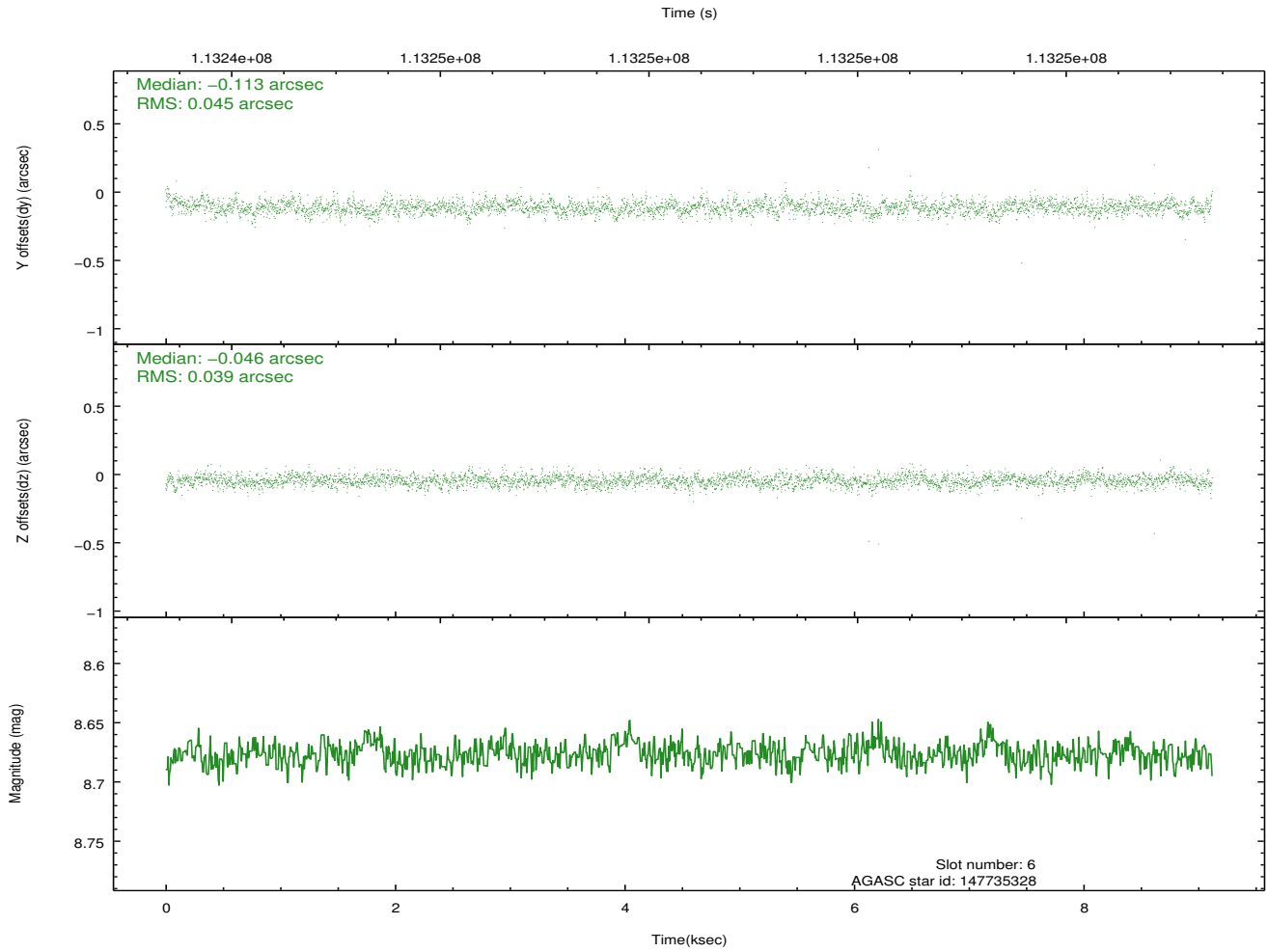
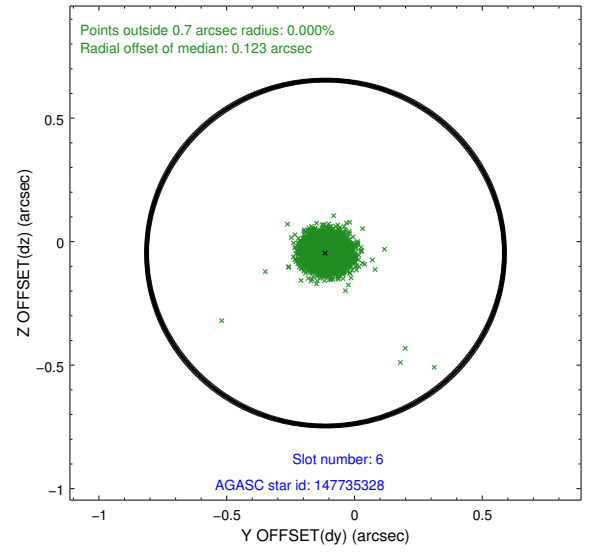
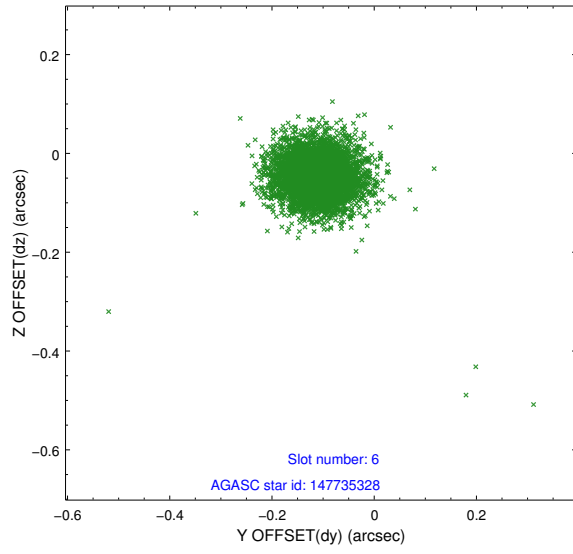
## 2.4.2 Slot 4



### 2.4.3 Slot 5

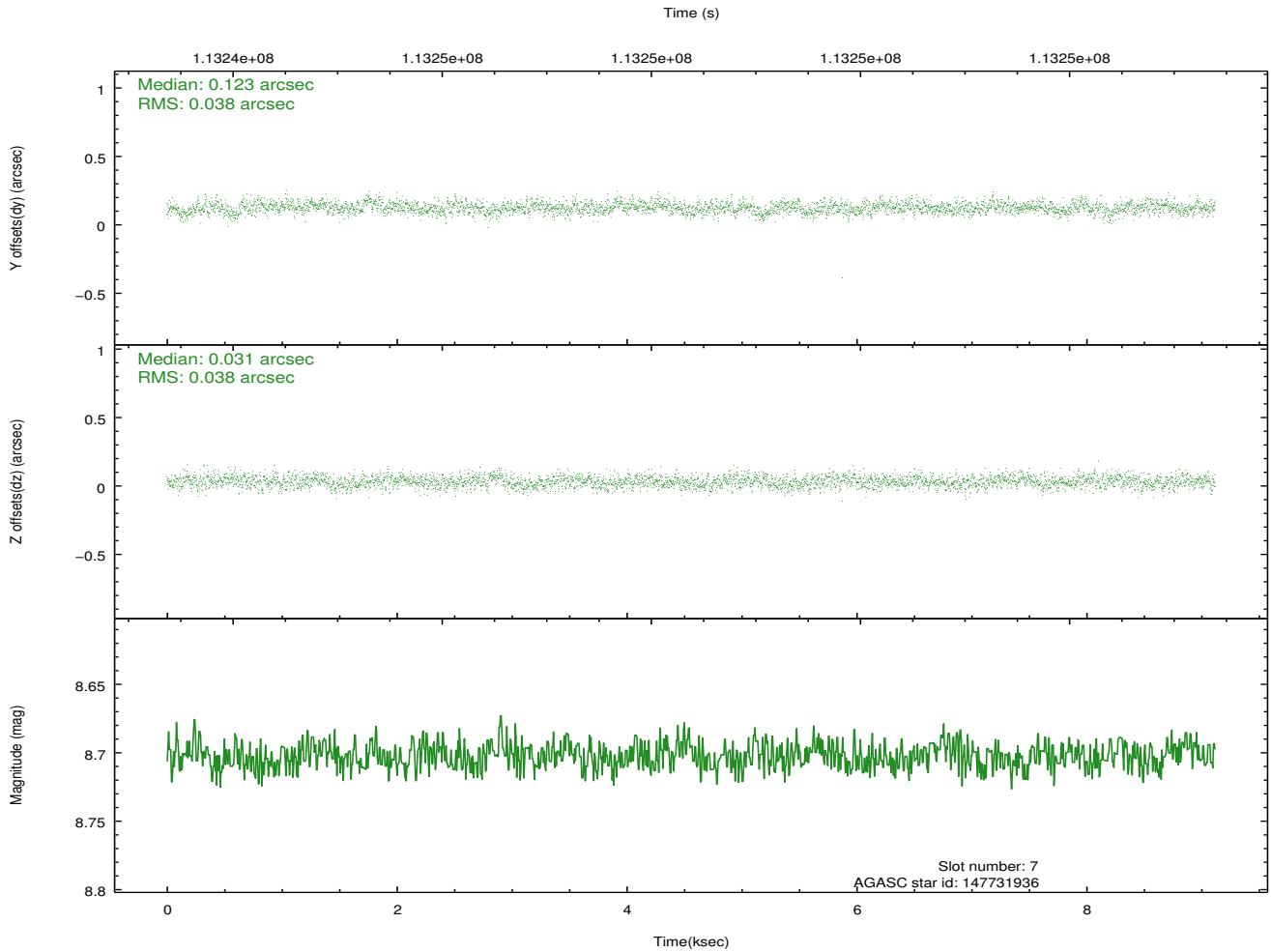
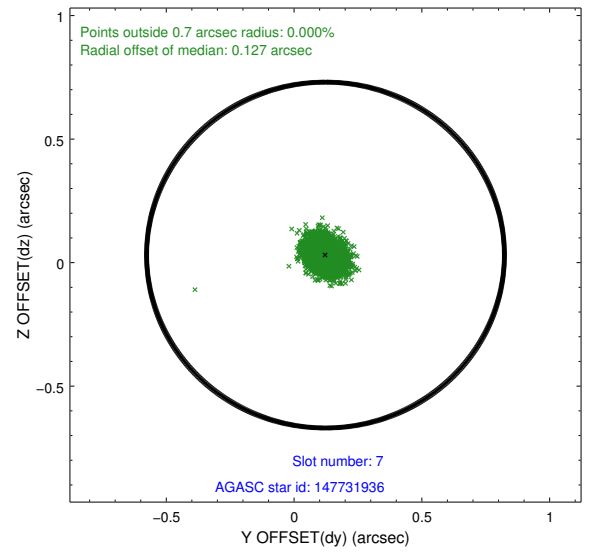
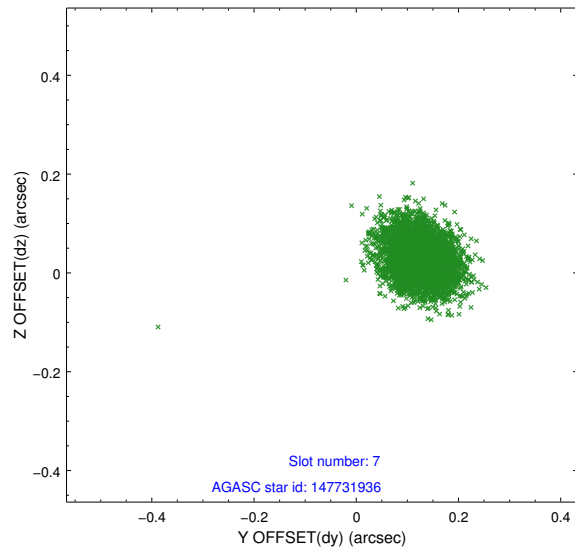


## 2.4.4 Slot 6



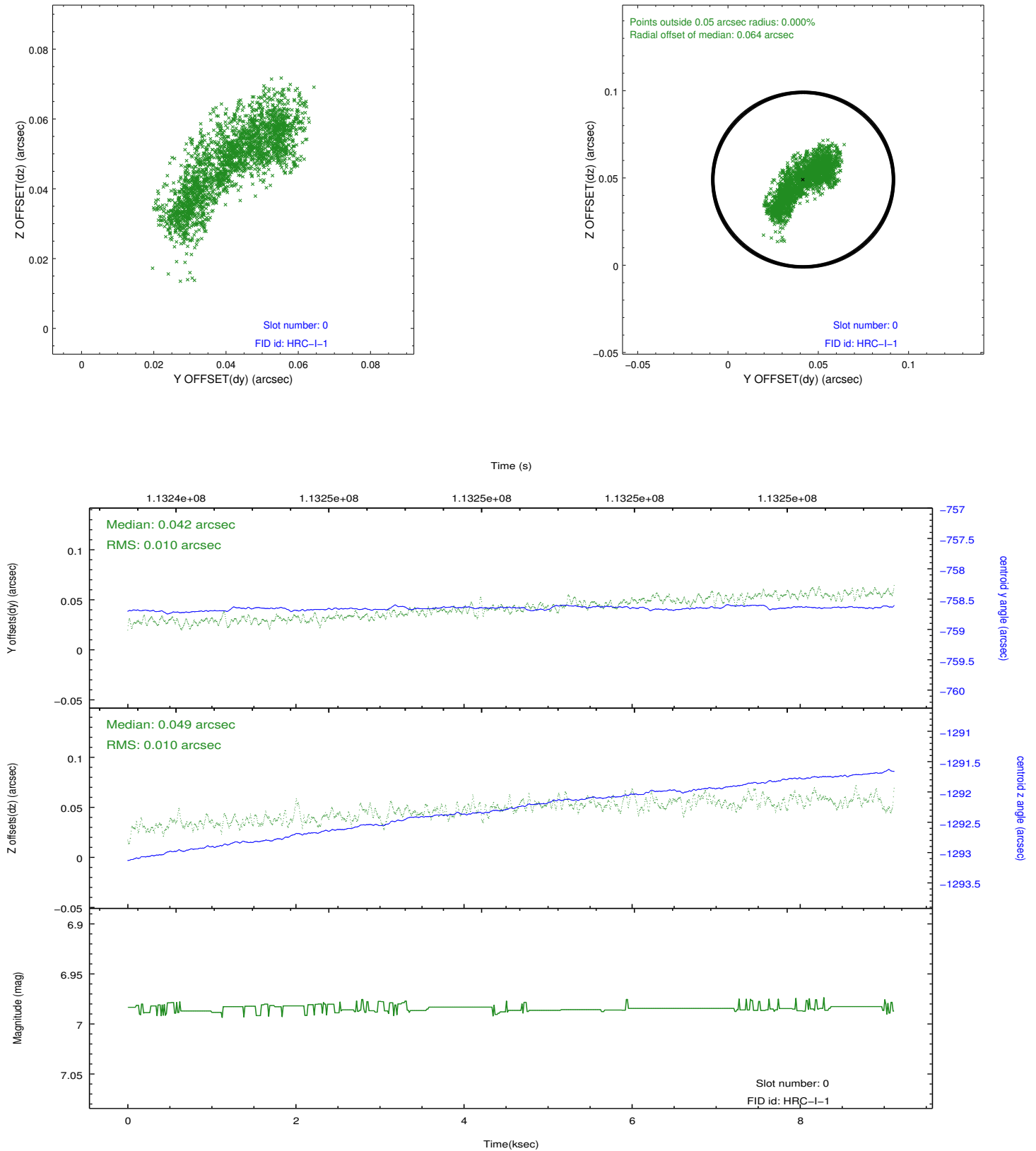


## 2.4.5 Slot 7

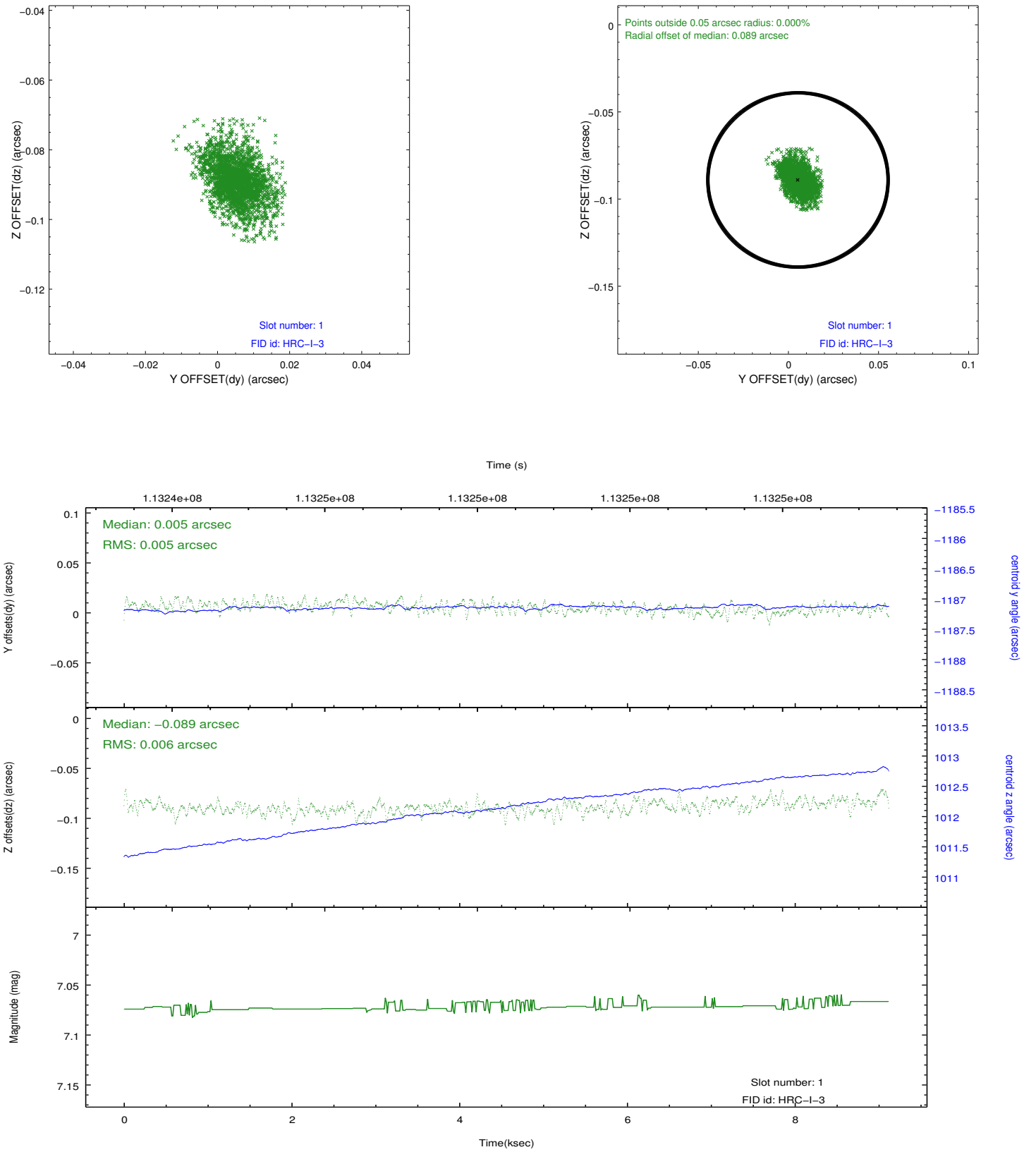


## 2.5 FID Slots

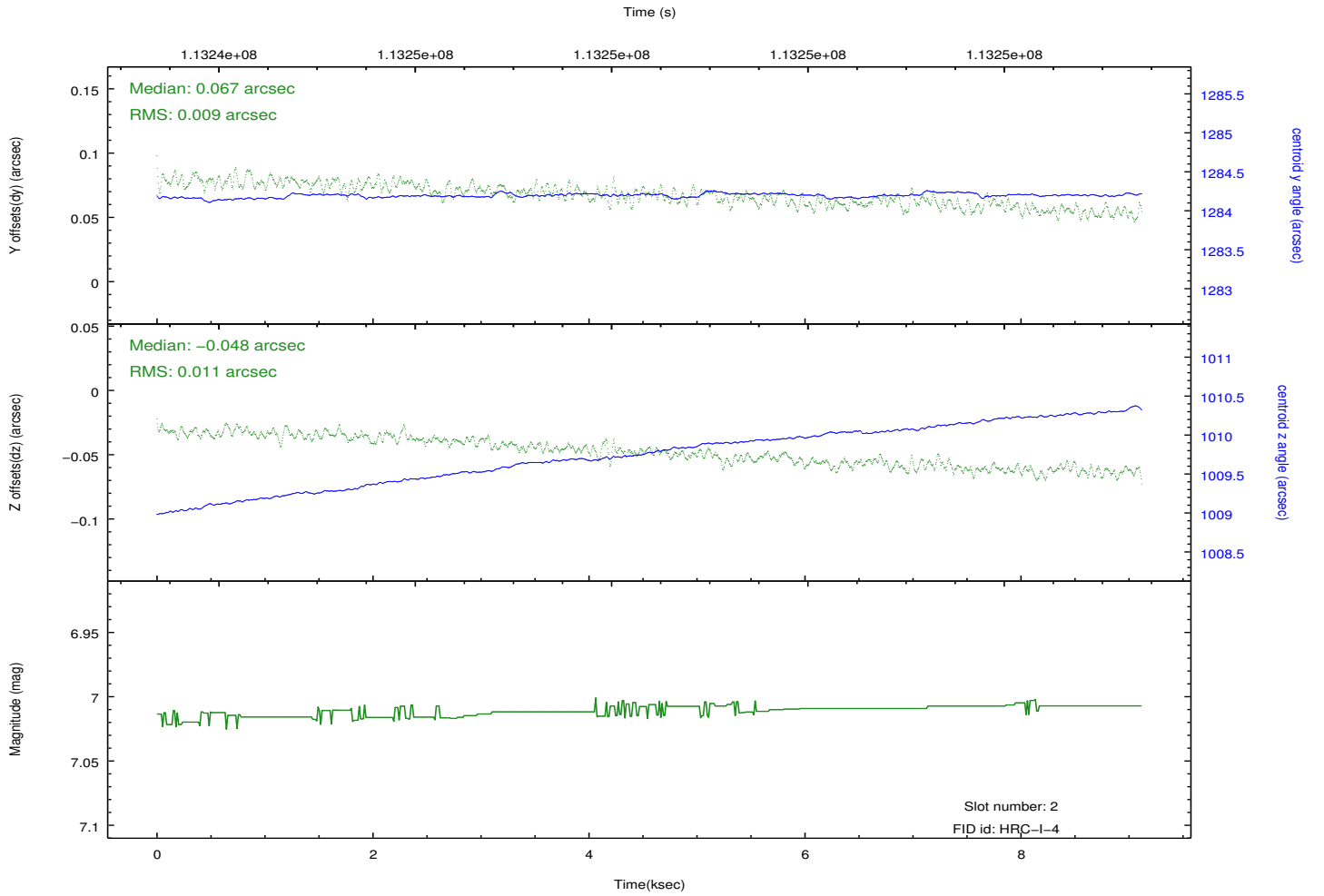
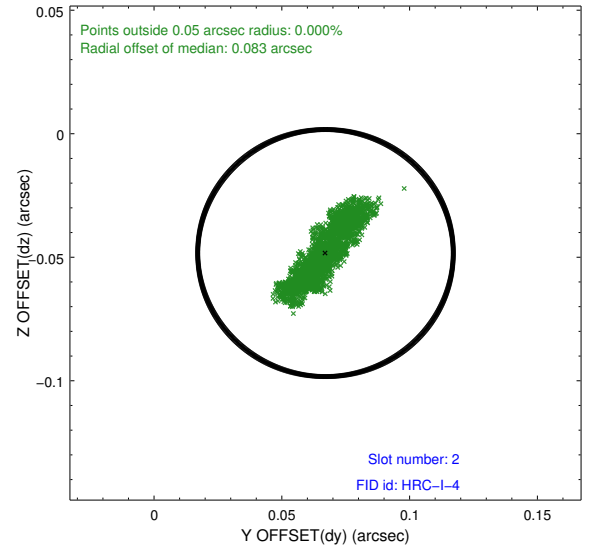
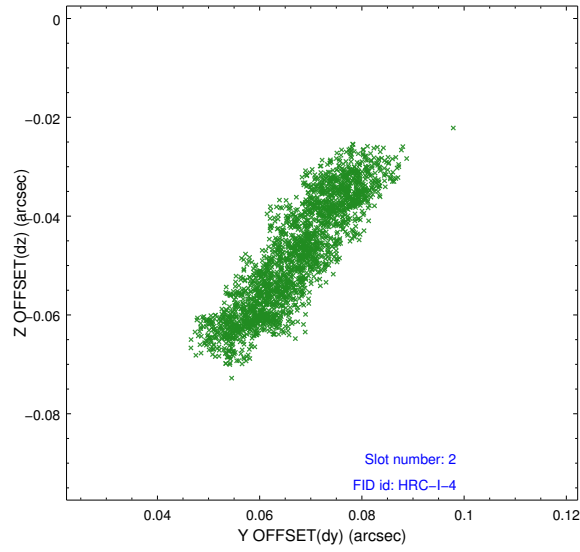
### 2.5.1 Slot 0



## 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)	2012.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.9

## A.2 Comments

Charge time for this observation remains at previous value of 8.9 ksec.  
Phase constraint OK per previous V&V report.