

# V&V Reference Report

## L2 ASCDS Version : 10.4.1

Observation 17370 - L2 Version 1  
Chandra X-Ray Center

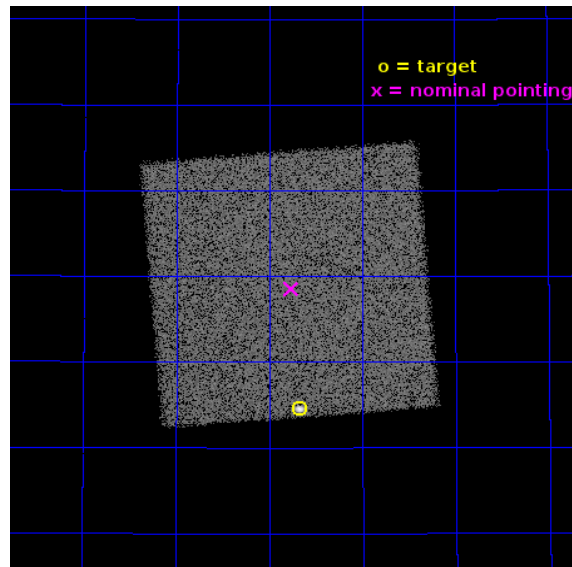
L2 Processing Date : Sep 27 2015

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# 1 Front

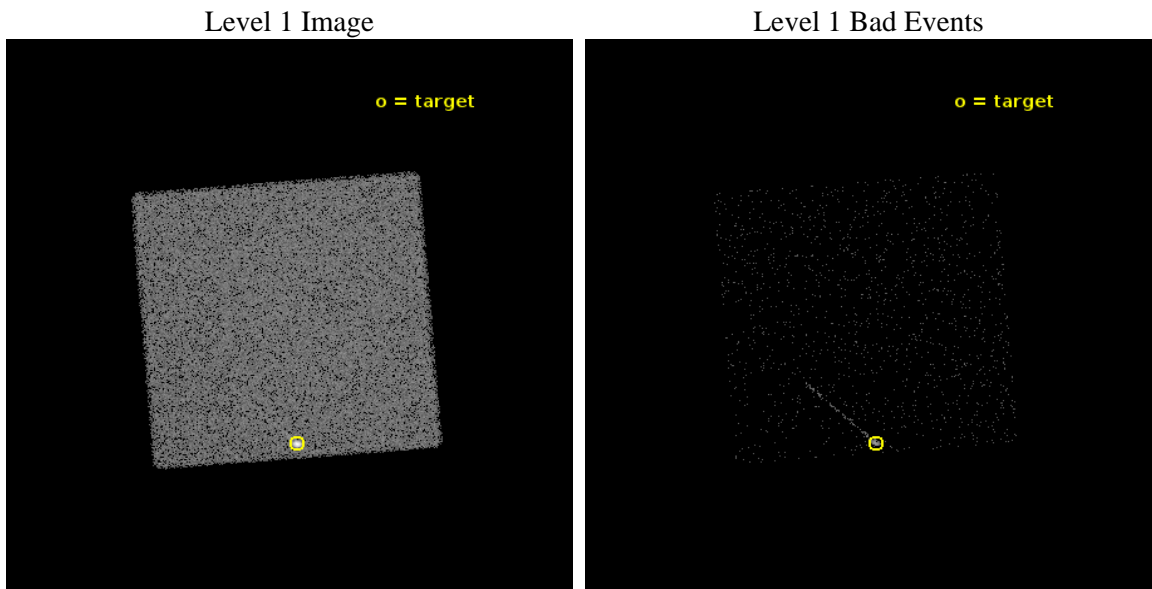
seq_num	291243	Sequence number
obs_id	17370	Observation id
title	AO-16 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.19097861938	Nominal RA [deg]
dec_nom	45.976162188713	Nominal Dec [deg]
roll_nom	220.41468110682	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1188.2313172817	[s]
livetime	1177.6622662538	Ontime multiplied by DTCOR
l2events	86517	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	1188.2313172817	[s]
caldbver	4.6.8	&#160	l1events	145466	Number of level 1 events
date	2015-09-27T05:26:48	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

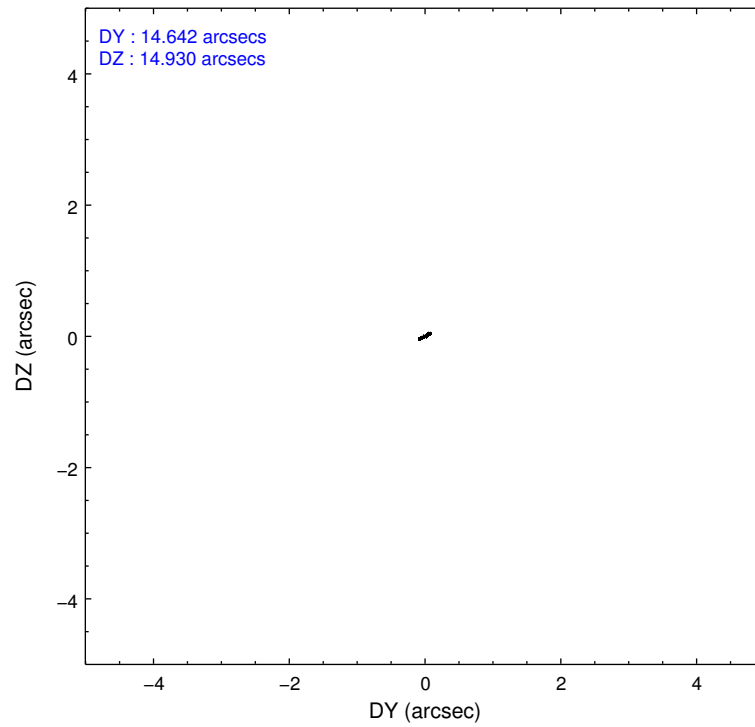
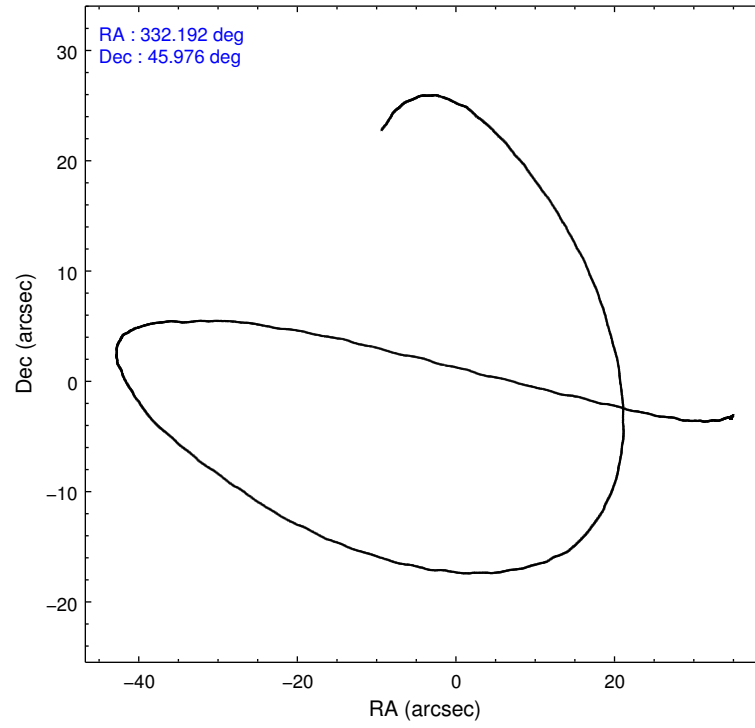
#### Level 1 Events

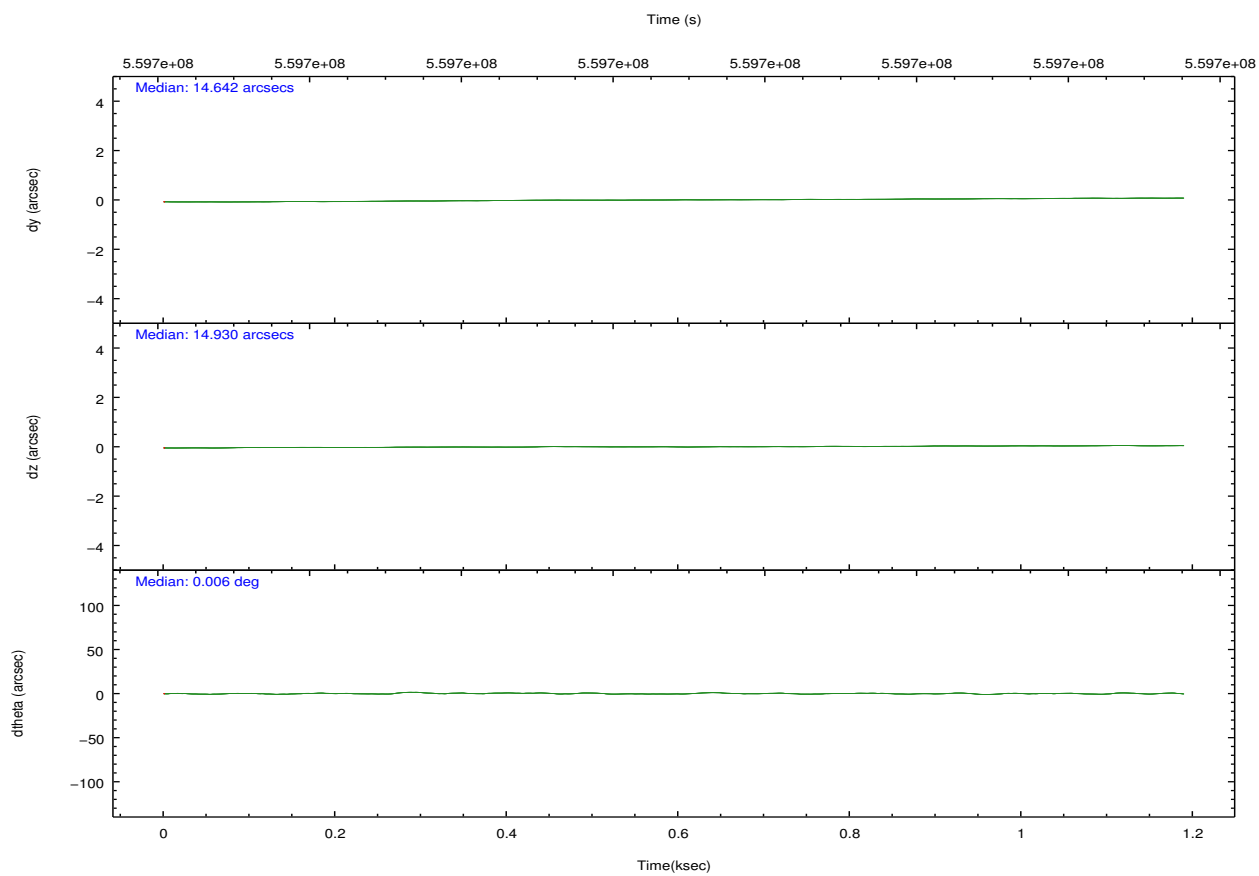
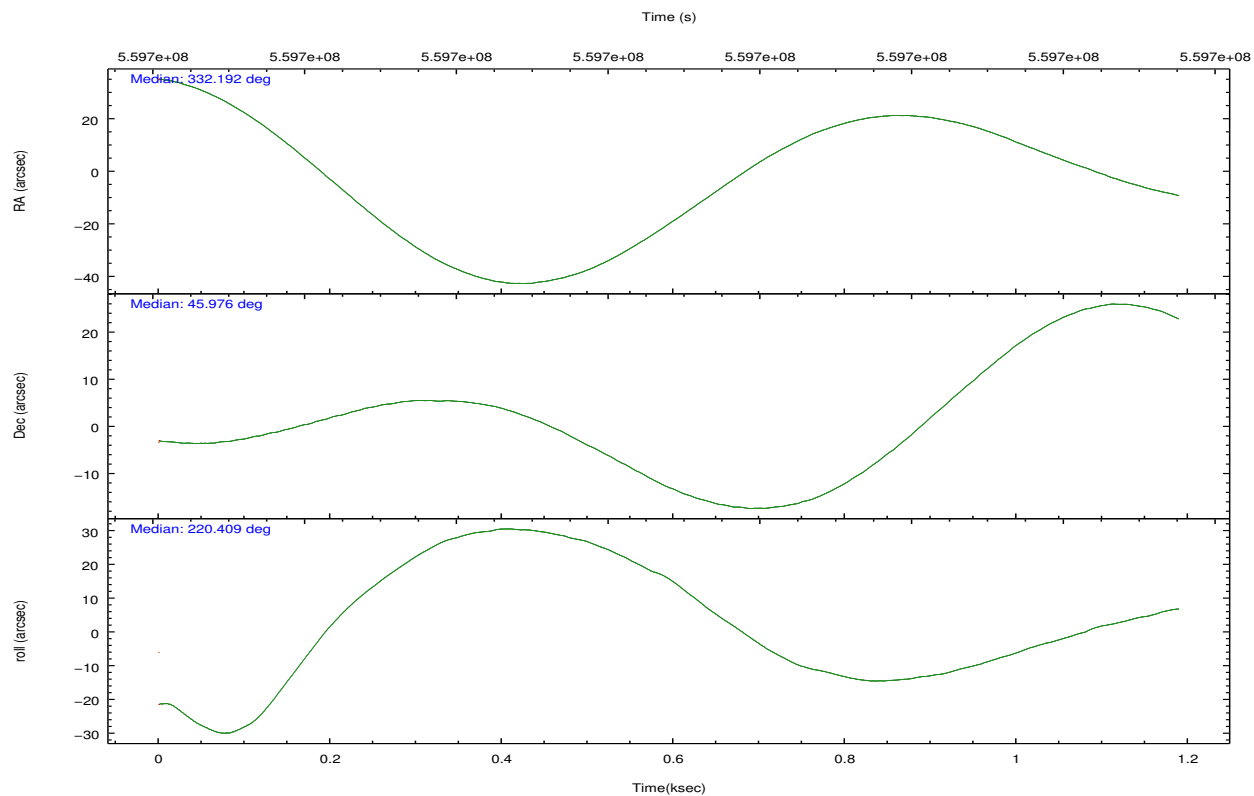
	<b>segment 0</b>
level 1 events	145466
rejected events	30804
rejected %	21%

## 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	332.202979	332.1909786193808			
[deg] Pointing Dec	46.001753	45.97616218871308			
[deg] Pointing Roll	220.501481	220.4146811068154			
[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)	559697662.184000	559697286.48255			
Observation start date	2015-09-26T23:33:14	2015-09-26T23:28:06			
[s] Observation end time (MET)	559698662.184000	559698796.82013			
Observation end date	2015-09-26T23:49:54	2015-09-26T23:53:16			

## 2.3 Aspect





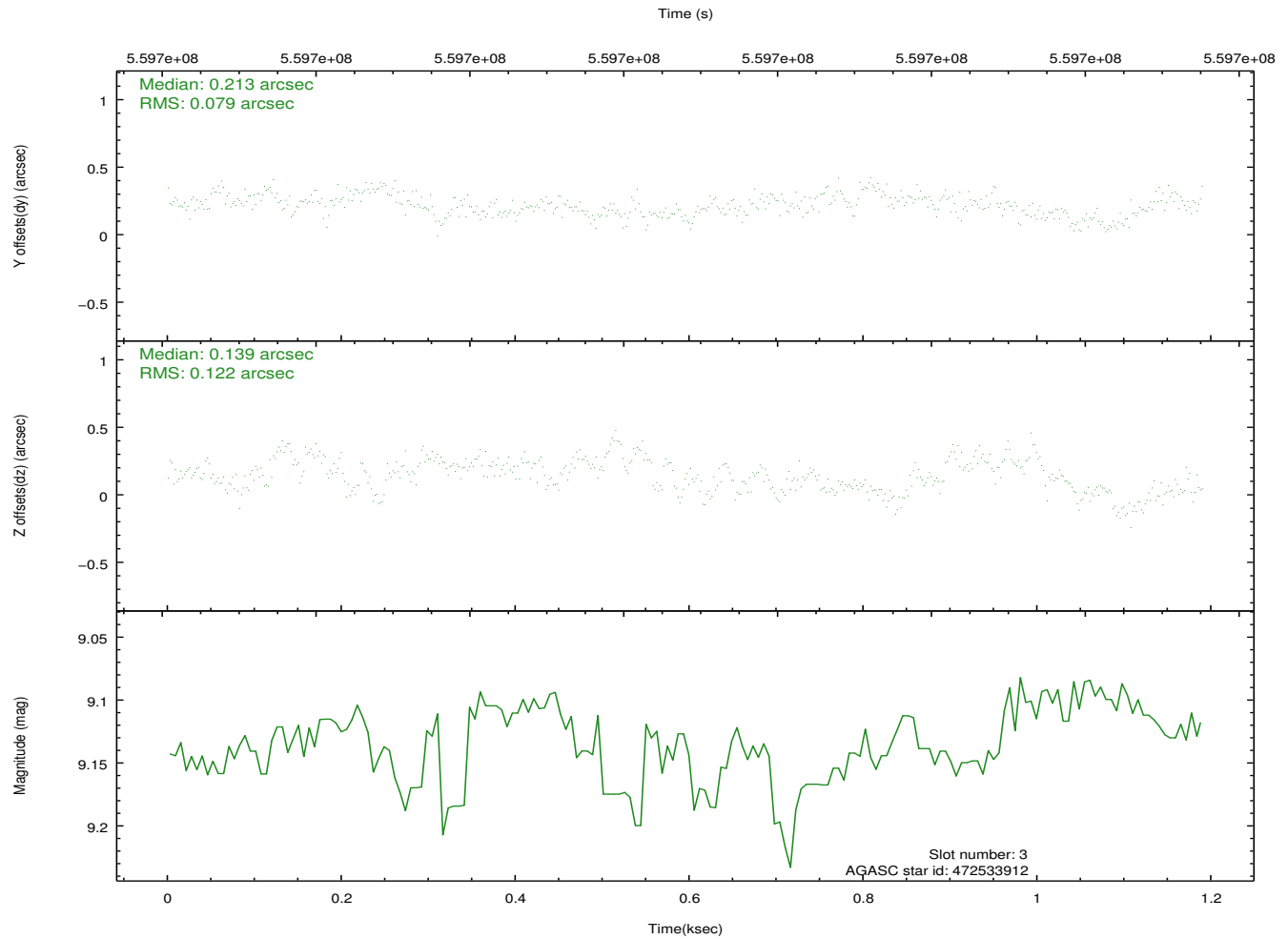
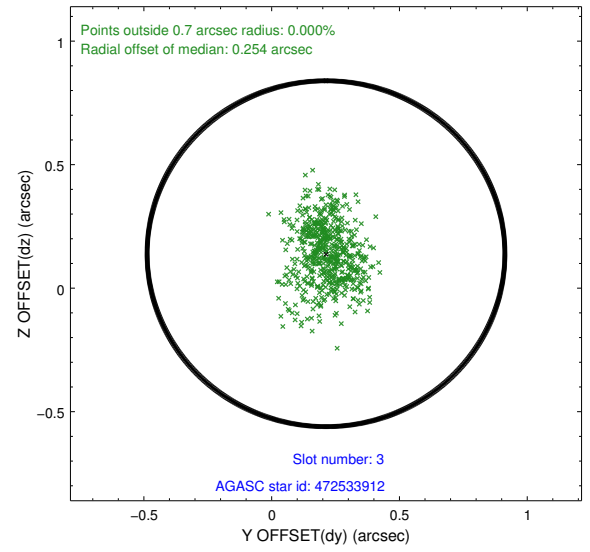
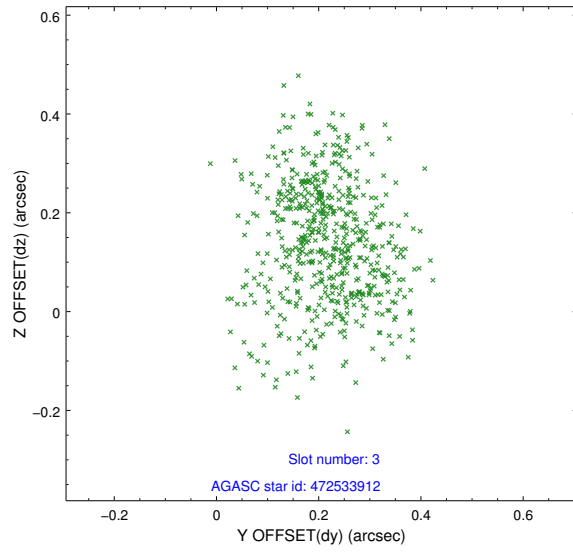
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	6.99	291	-0.198	-0.027	0.007	0.011	0.000000	0.000000	-770.56	-1303.07
1	FID		HRC-I-2	7.03	291	0.353	-0.117	0.006	0.010	0.000000	0.000000	839.97	-1309.13
2	FID		HRC-I-3	7.09	291	-0.036	0.055	0.005	0.010	0.000000	0.000000	-1196.11	997.05
3	GUIDE	used	472533912	9.14	581	0.213	0.139	0.150	0.259	331.791136	46.368695	-79.48	-1670.11
4	GUIDE	used	472535576	7.85	581	-0.186	0.129	0.088	0.134	331.438373	46.291802	763.93	-2038.21
5	GUIDE	used	472655152	9.42	581	0.071	-0.038	0.157	0.250	332.504239	45.862991	-247.55	866.57
6	GUIDE	used	472655704	9.42	581	-0.148	-0.192	0.152	0.243	332.167195	45.285228	1745.40	1904.73
7	GUIDE	used	472665256	8.99	580	0.054	-0.045	0.109	0.179	332.808125	46.195041	-1597.41	449.66

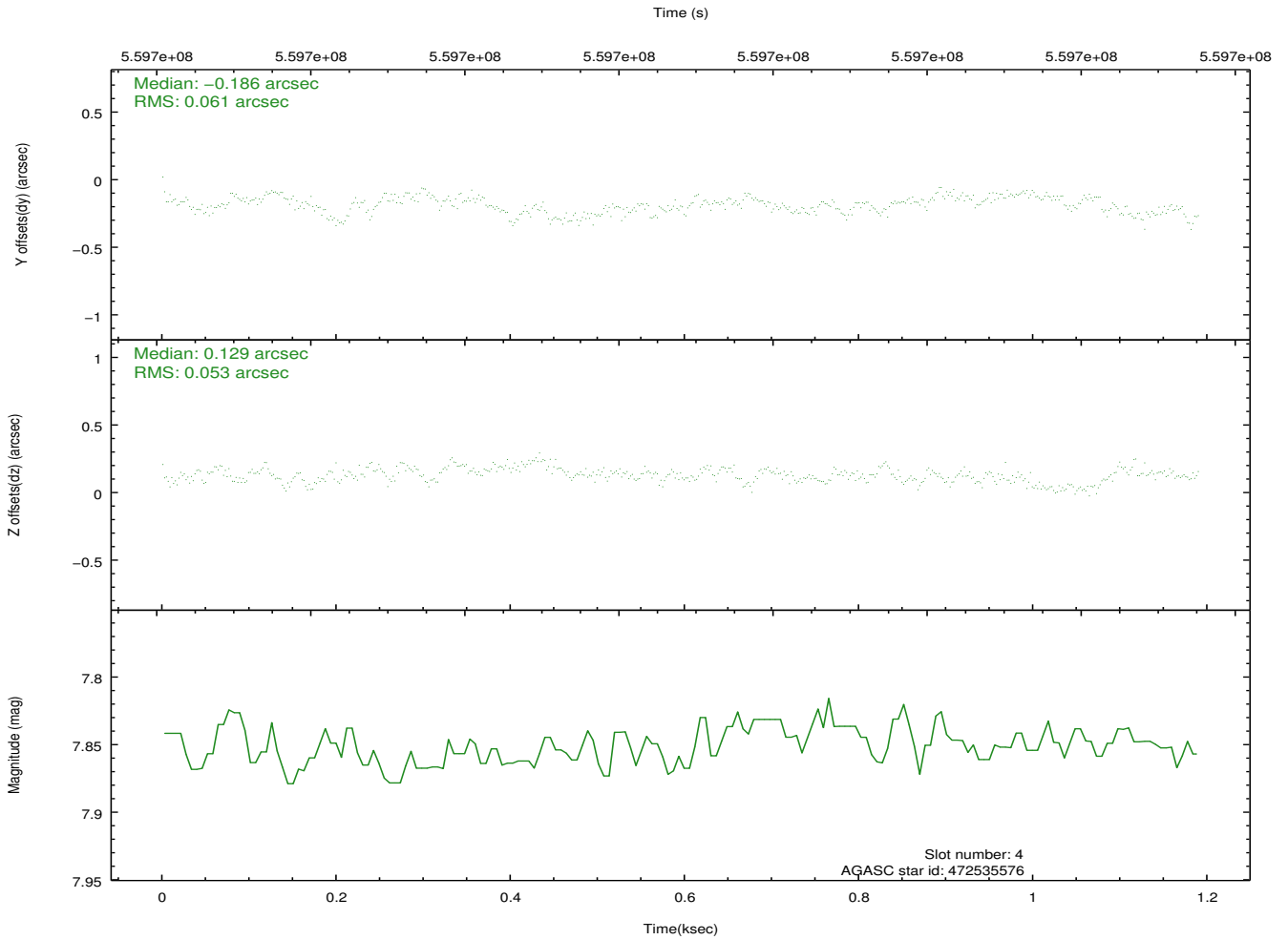
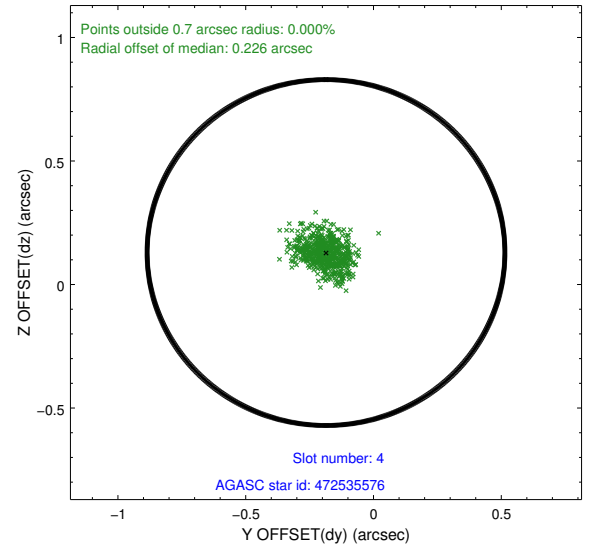
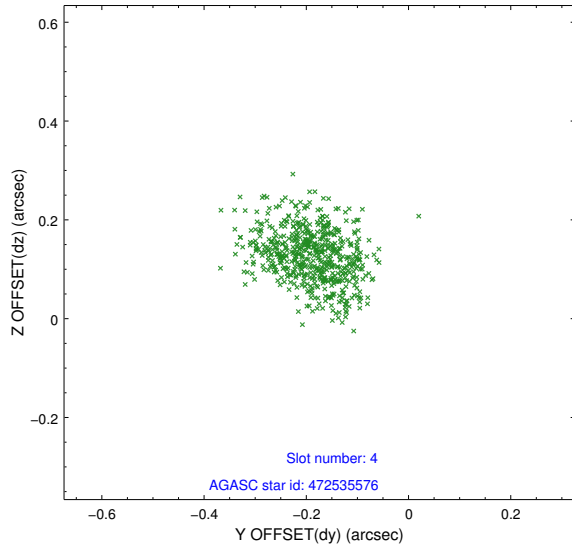


## 2.4 Star Slots

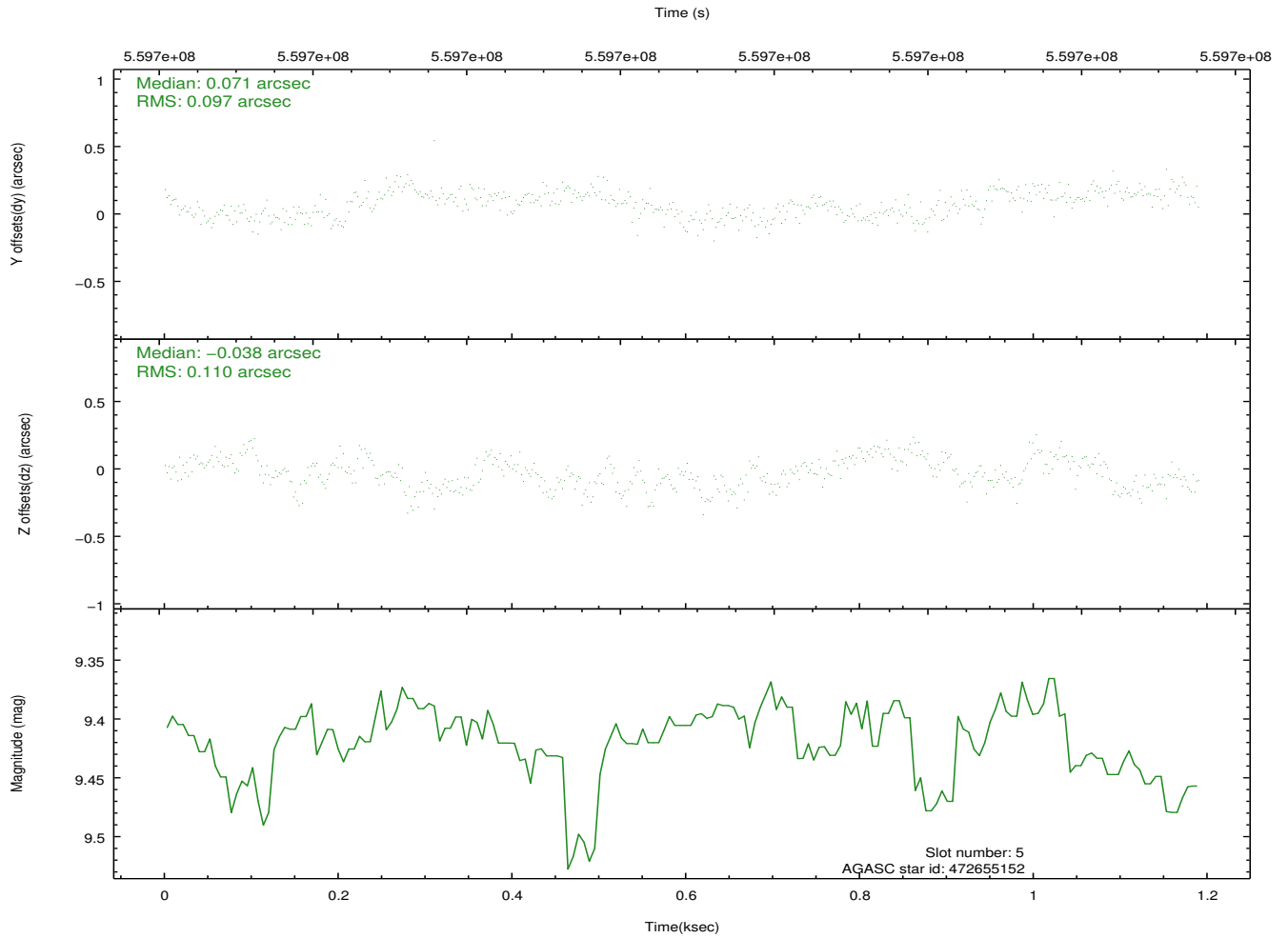
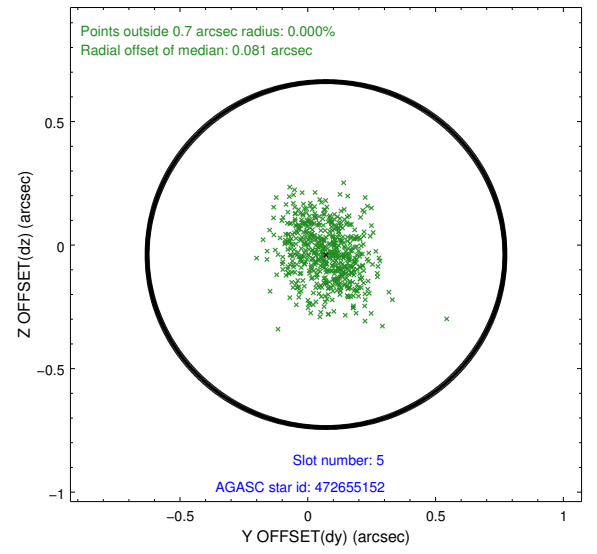
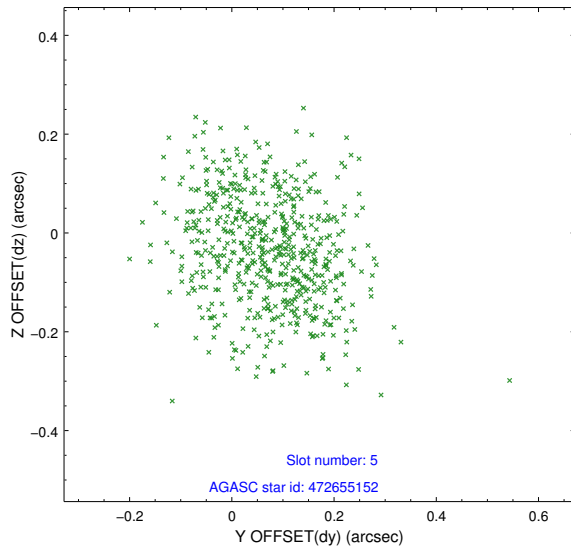
### 2.4.1 Slot 3



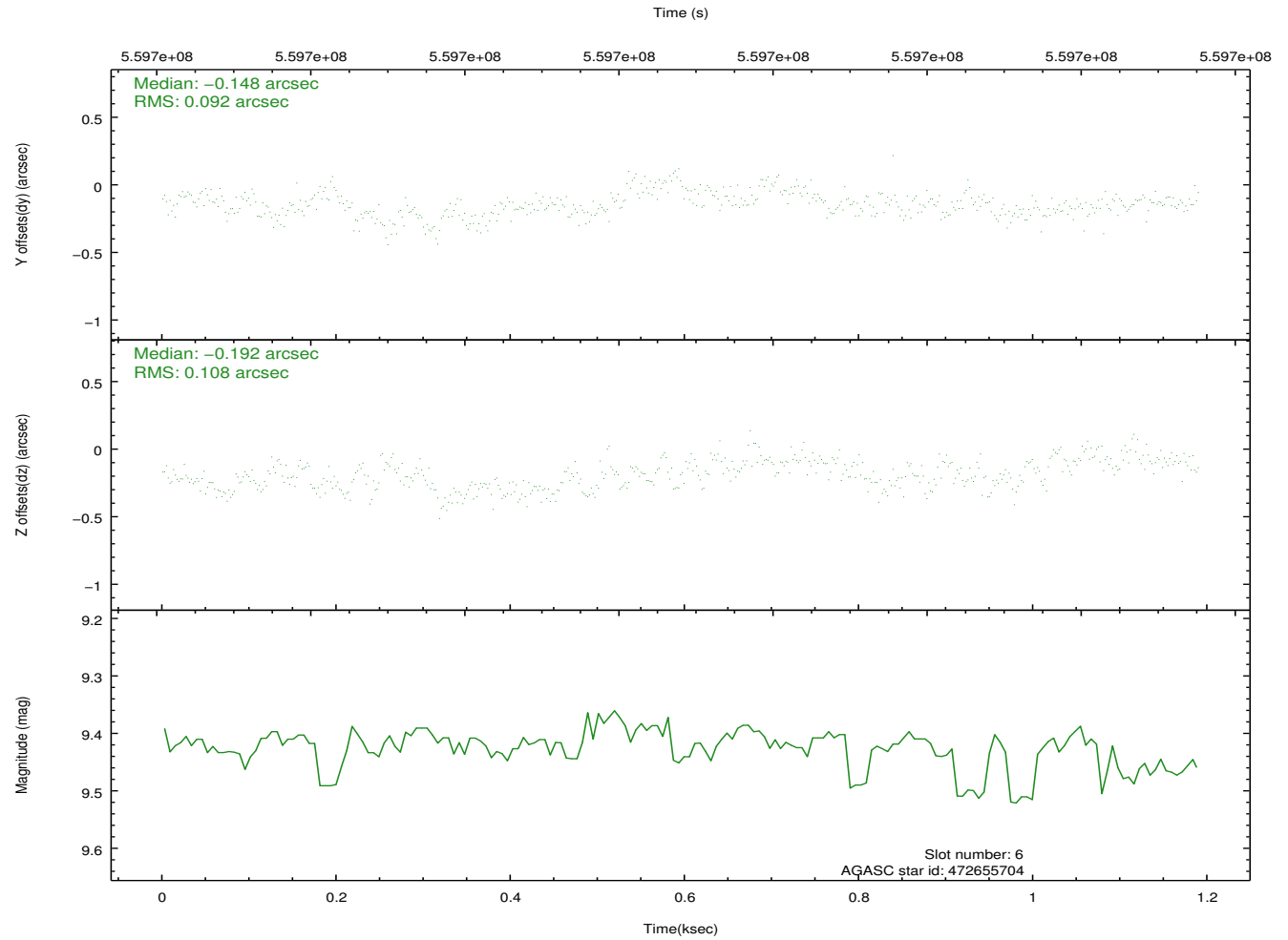
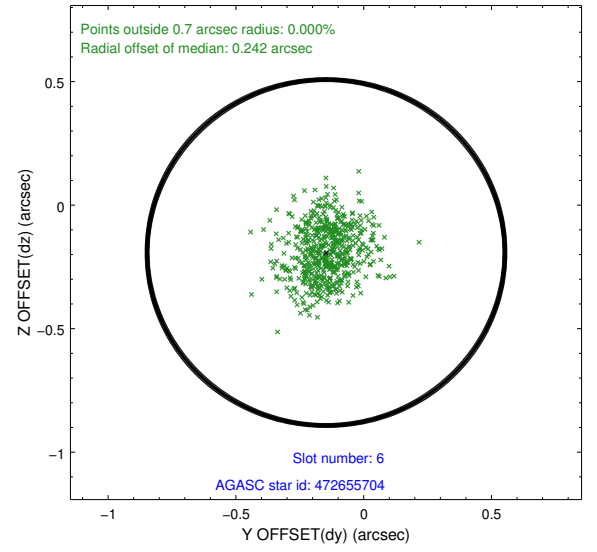
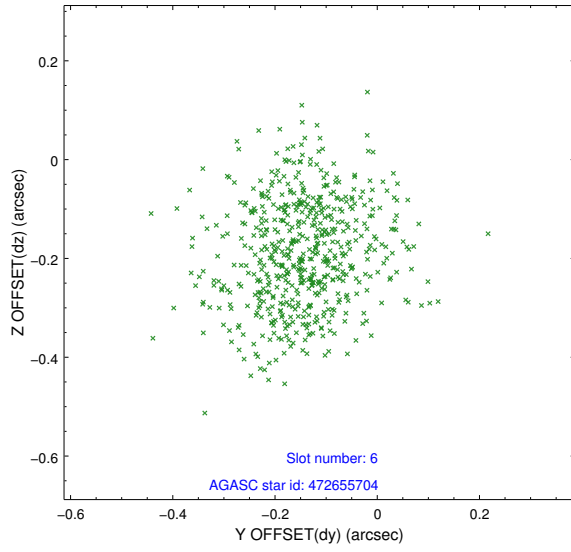
## 2.4.2 Slot 4



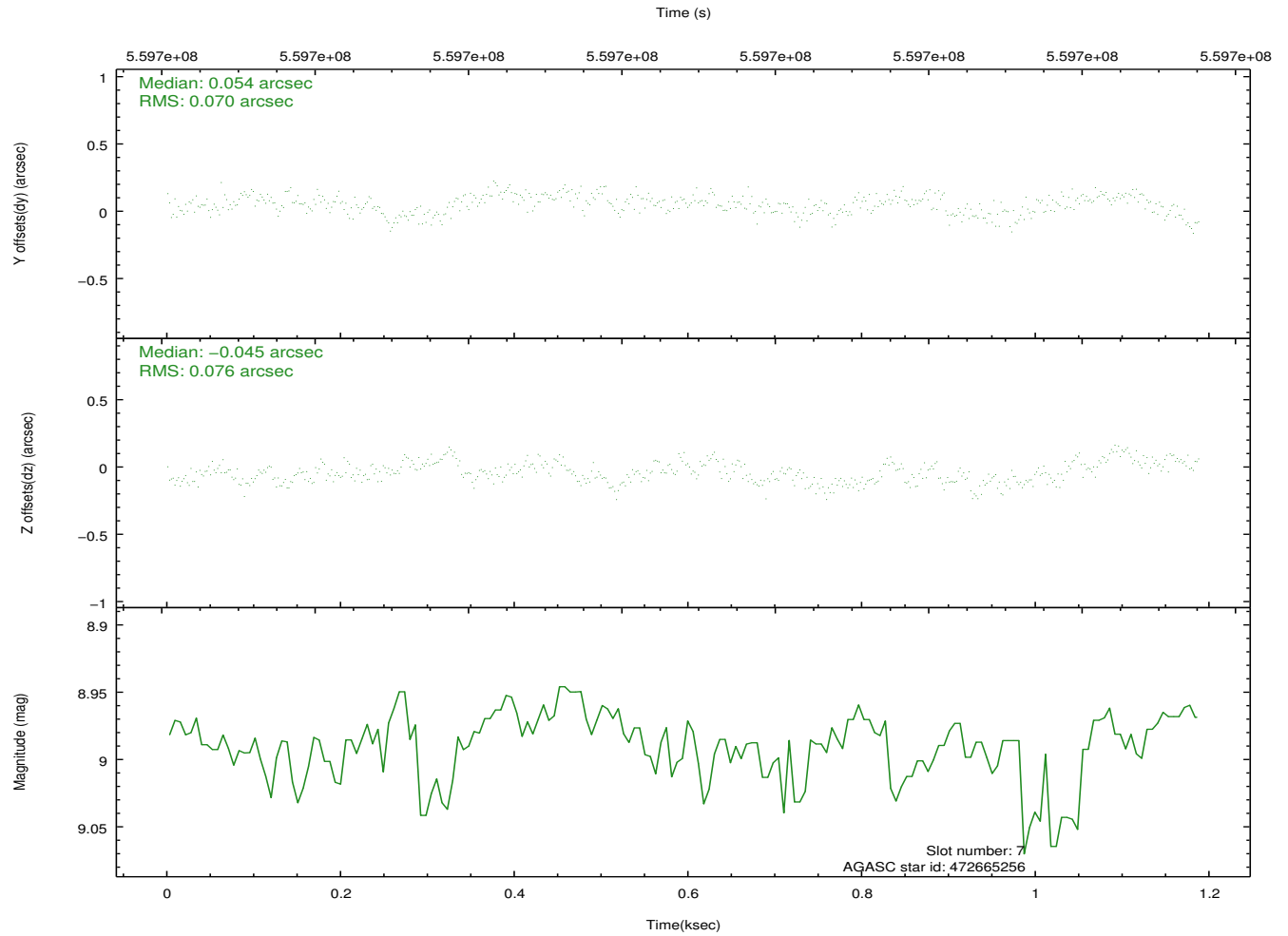
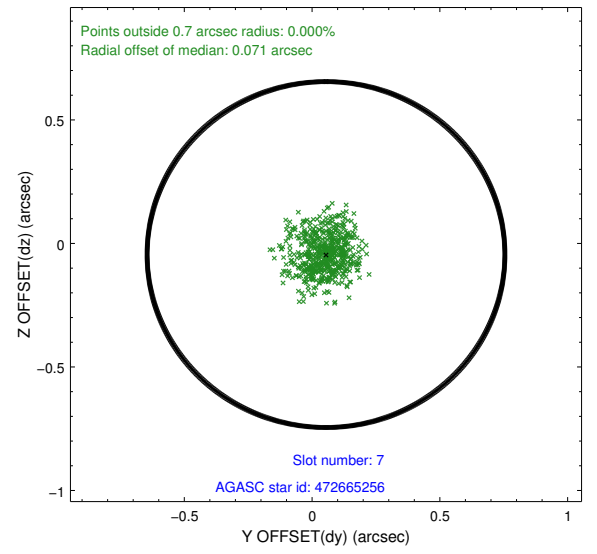
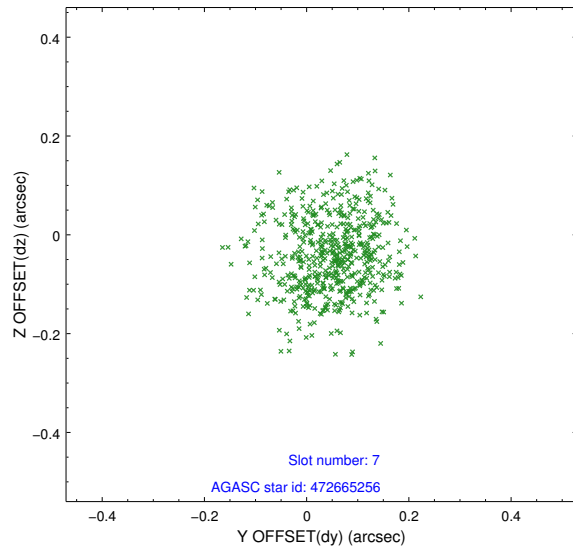
### 2.4.3 Slot 5



## 2.4.4 Slot 6

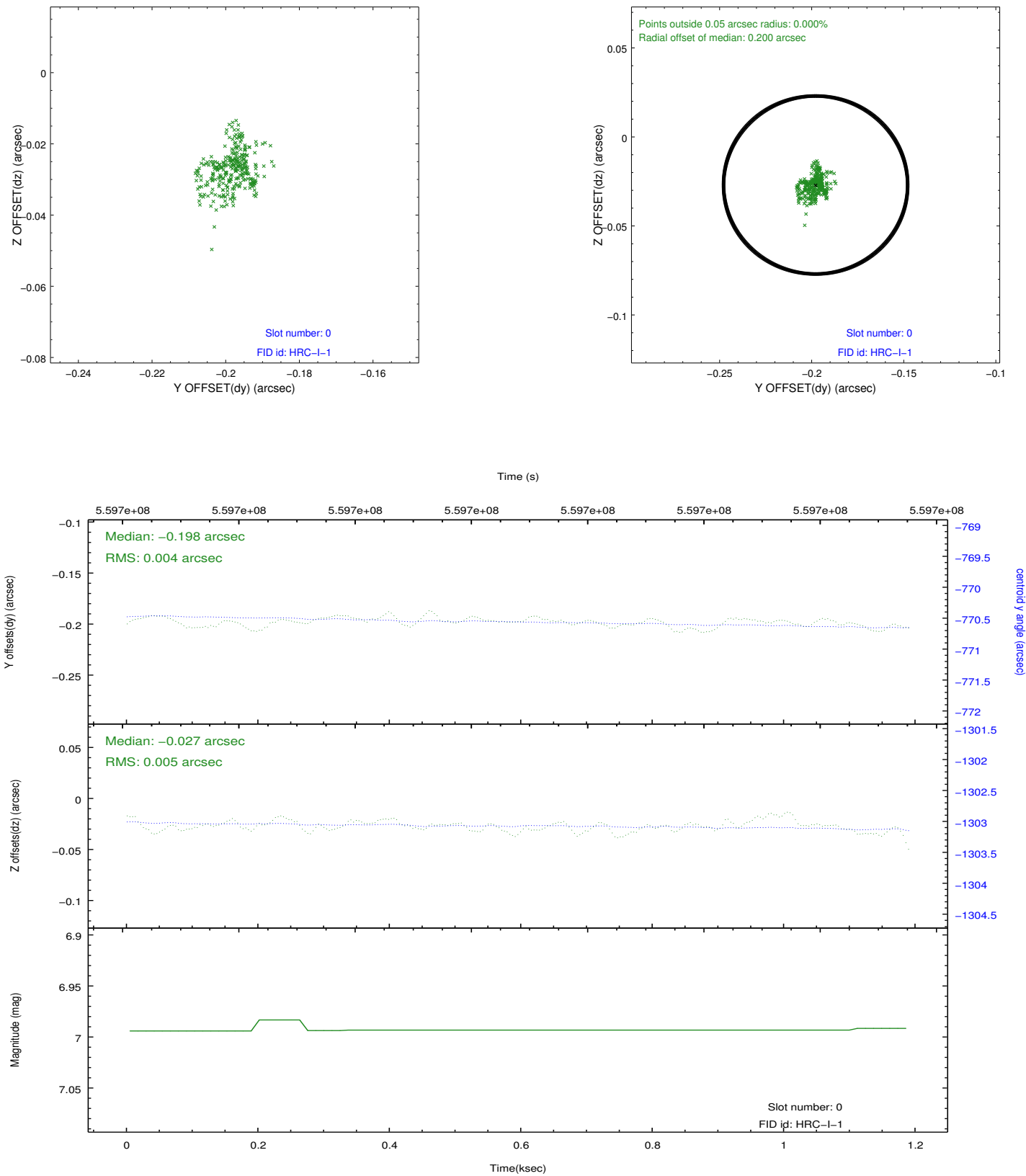


## 2.4.5 Slot 7

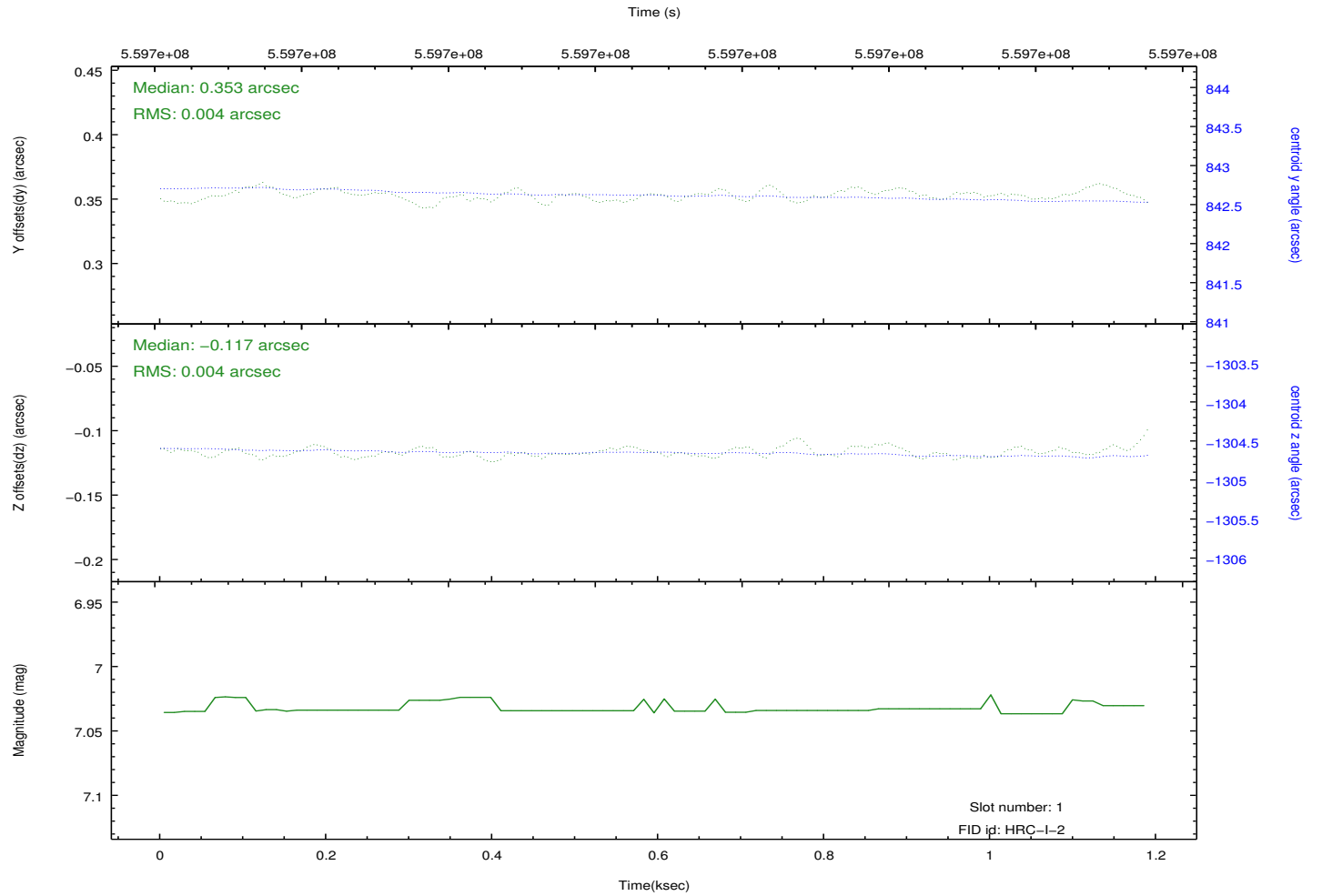
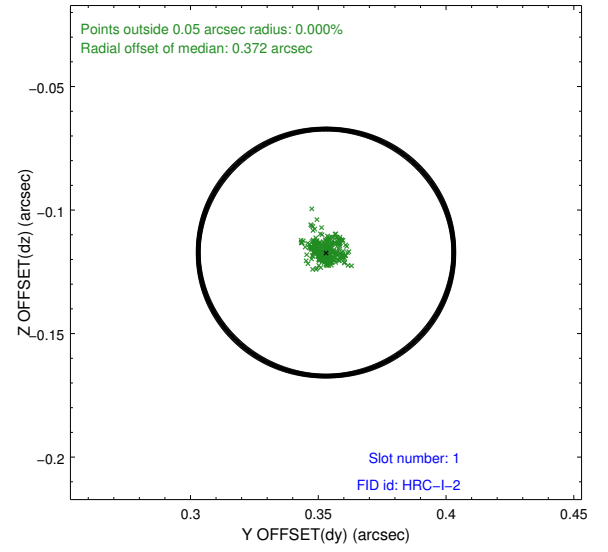
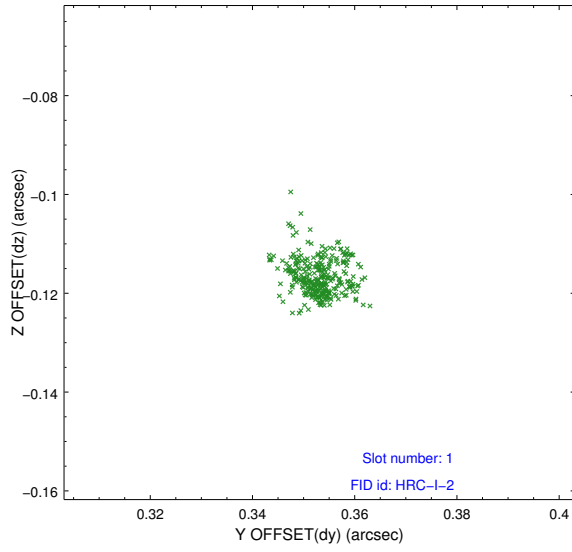


## 2.5 FID Slots

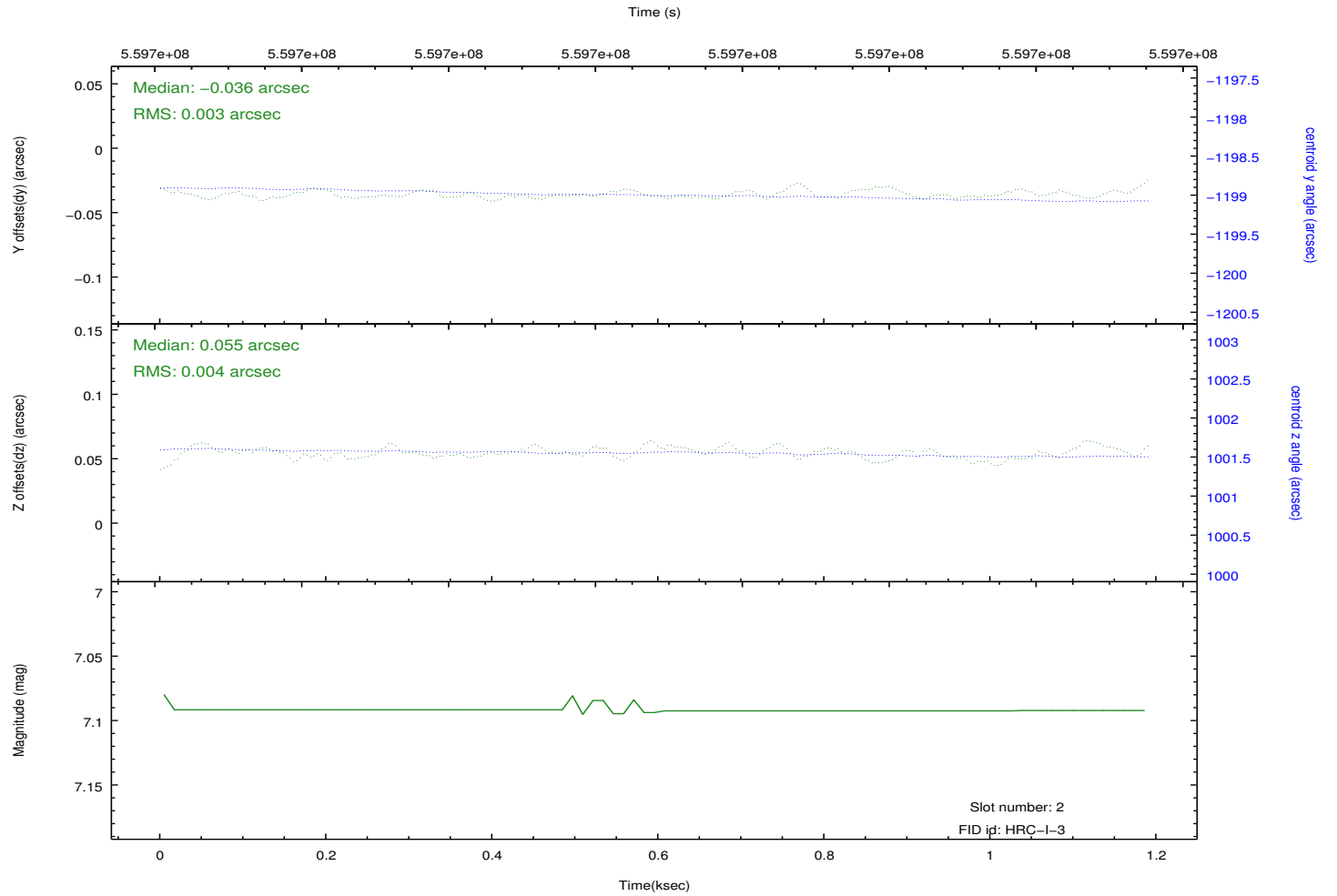
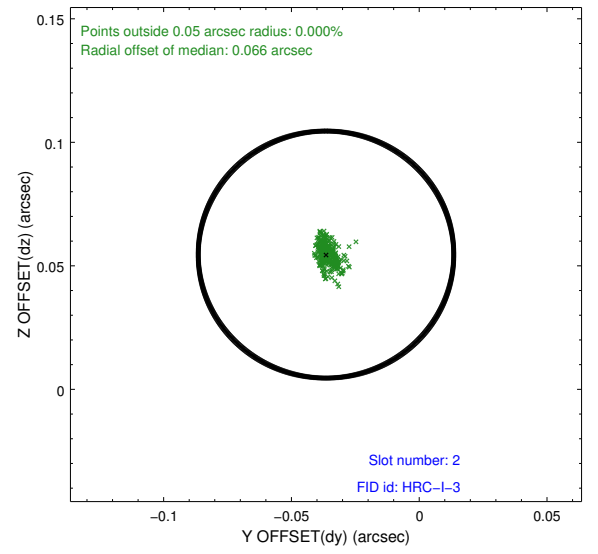
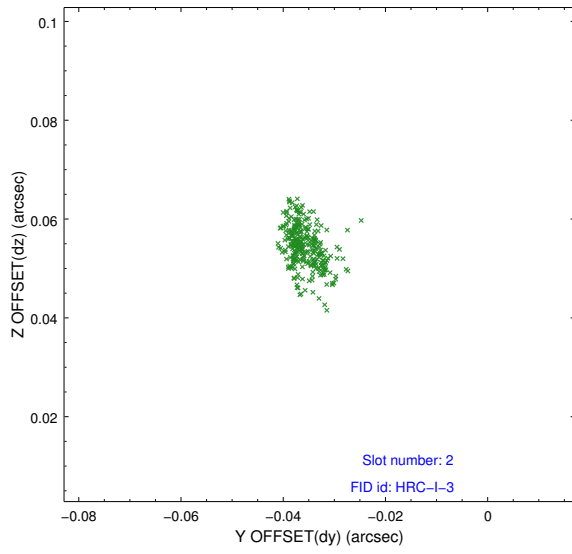
### 2.5.1 Slot 0



## 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)	2015.09.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1882313172817

### A.2 Comments