

# V&V Reference Report

## L2 ASCDS Version : 10.5.1.1

Observation 18388 - L2 Version 1  
Chandra X-Ray Center

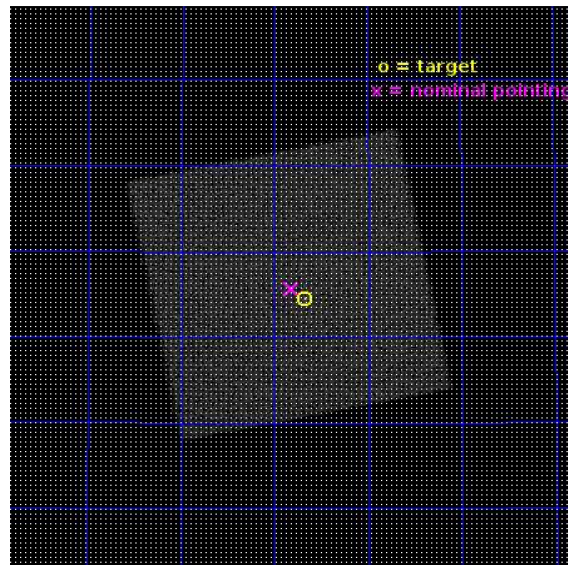
L2 Processing Date : Sep 20 2016

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# 1 Front

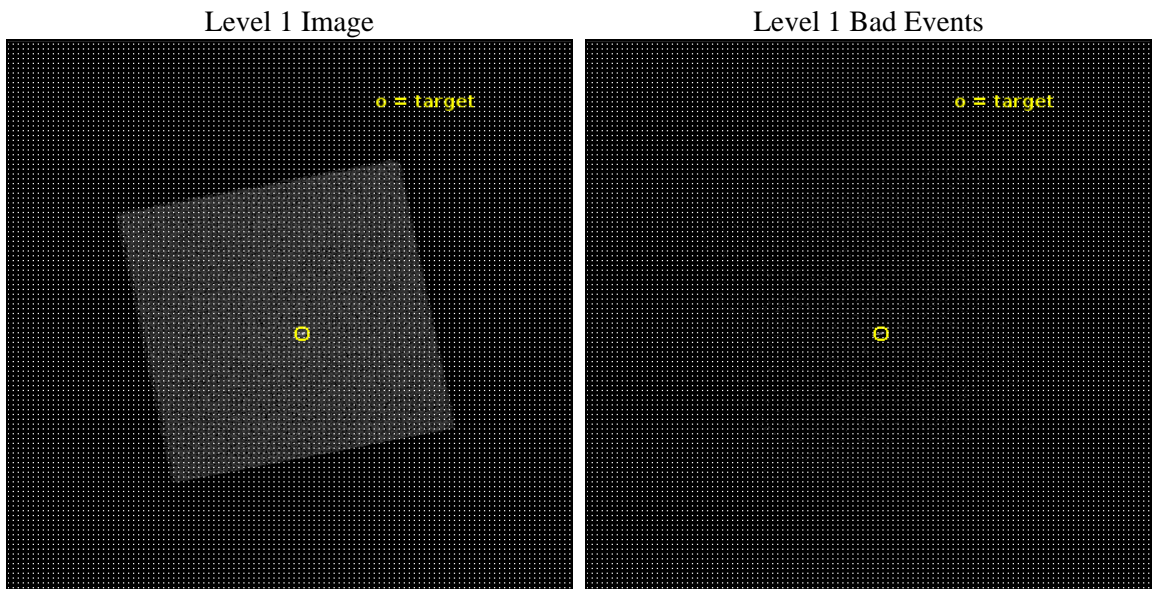
seq_num	291283	Sequence number
obs_id	18388	Observation id
title	AO-17 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.20579308077	Nominal RA [deg]
dec_nom	45.761193591159	Nominal Dec [deg]
roll_nom	213.60540956379	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1182.08131814	[s]
livetime	1168.48195589	Ontime multiplied by DTCOR
l2events	114990	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	10.5.1.1	Processing system revision	ontime	1182.08131814	[s]
caldbver	4.7.2	&#160	l1events	217875	Number of level 1 events
date	2016-09-21T02:03:32	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

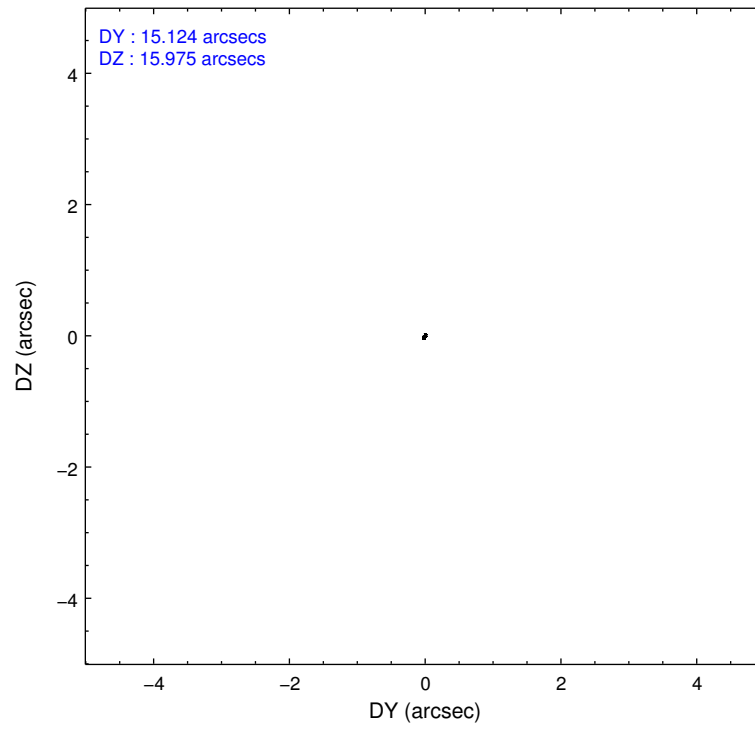
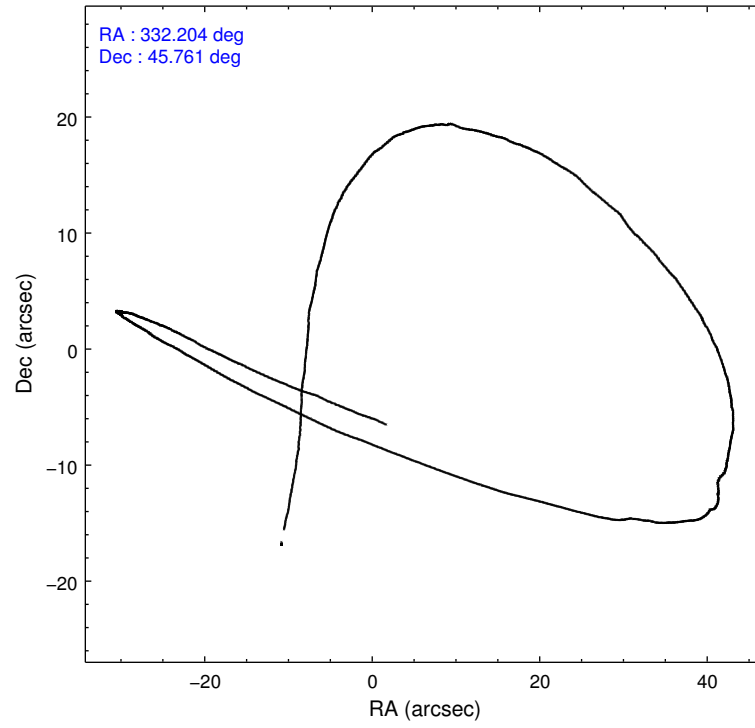
	<b>segment 0</b>
level 1 events	217875
rejected events	66677
rejected %	30%

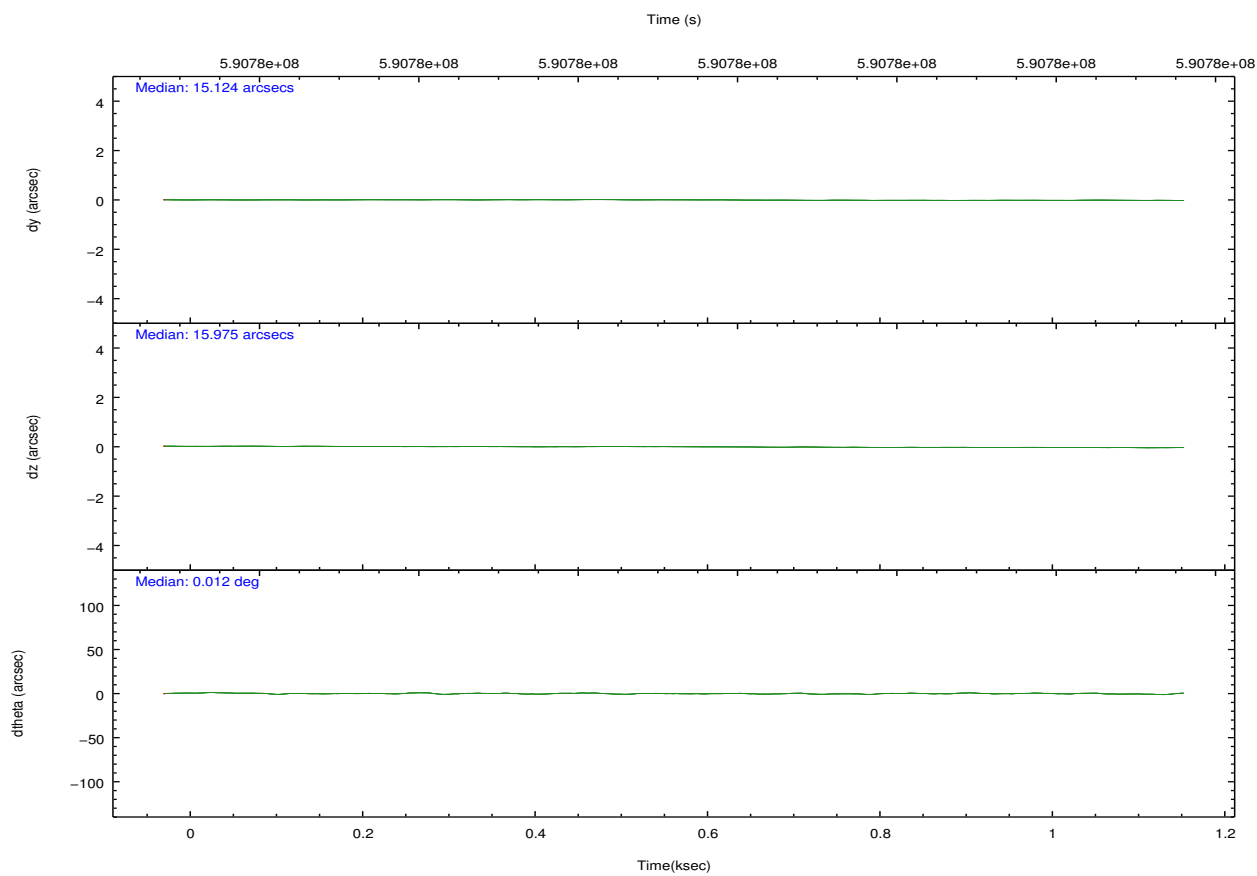
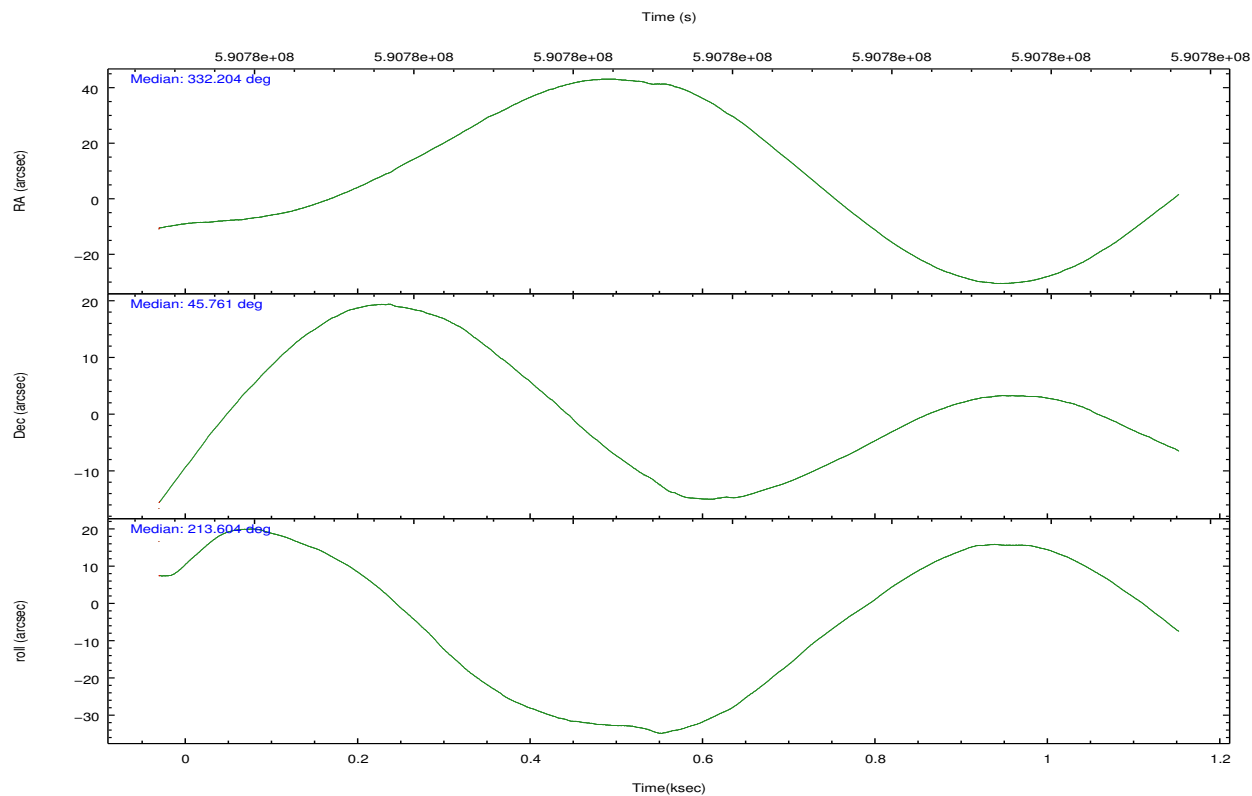
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.223550	332.2057930807662
[deg] Pointing Dec	45.785215	45.76119359115859
[deg] Pointing Roll	213.688181	213.6054095637857
[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)	590777497.184000	590776930.75327
Observation start date	2016-09-20T16:50:29	2016-09-20T16:42:10
[s] Observation end time (MET)	590778497.184000	590778631.2283601
Observation end date	2016-09-20T17:07:09	2016-09-20T17:10:31

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

## 2.3 Aspect





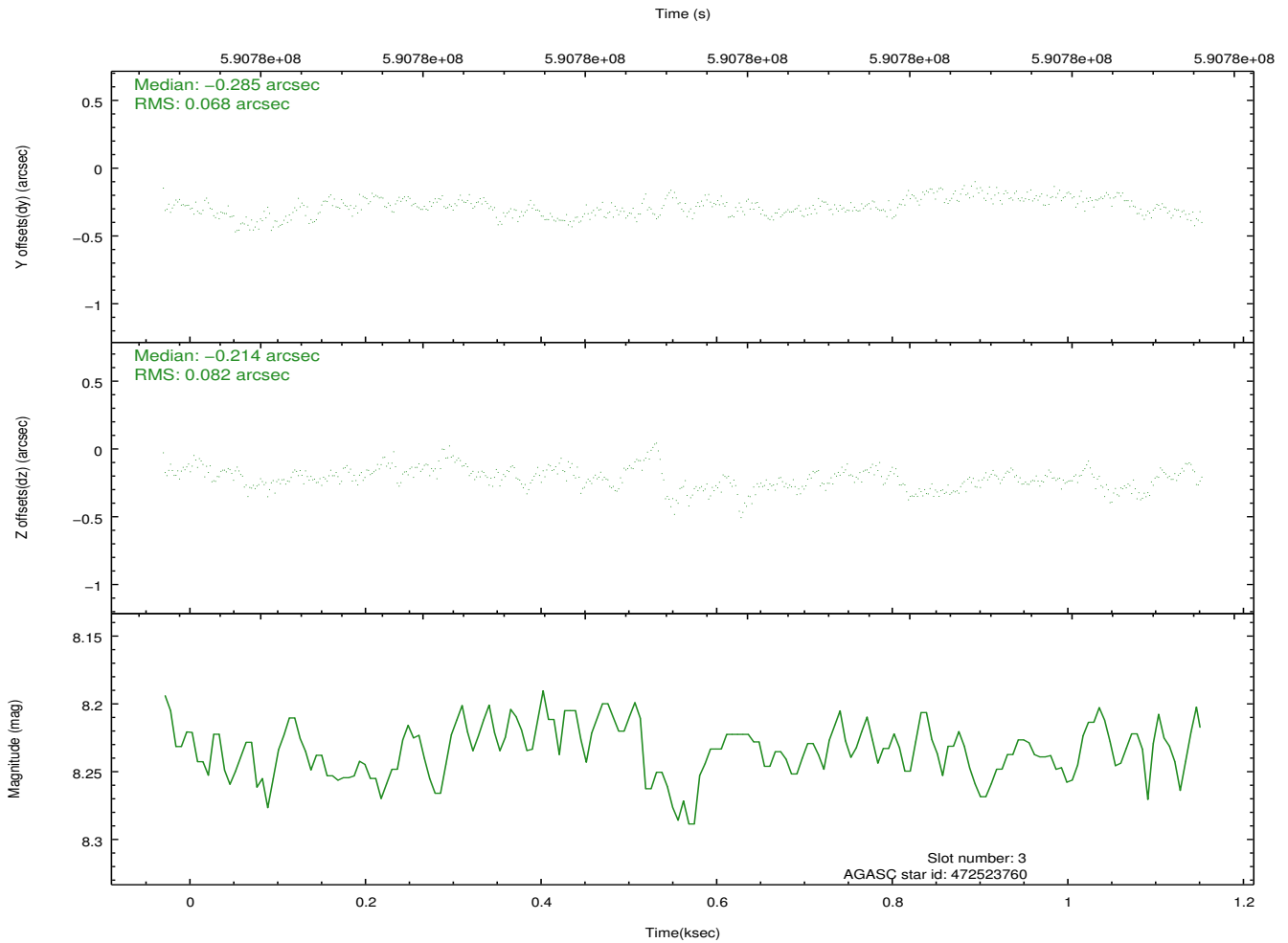
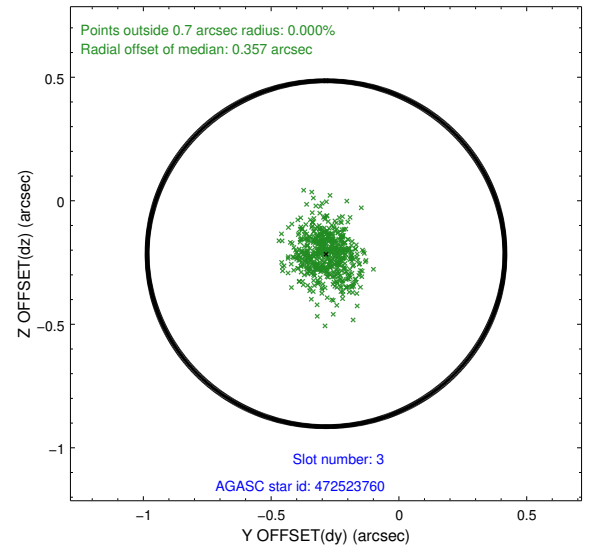
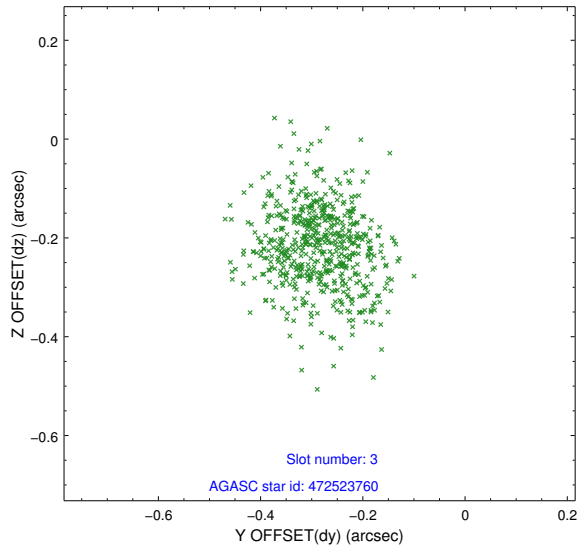
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.03	289	-0.120	-0.144	0.006	0.011	0.000000	0.000000	-771.12	-1304.17
1	FID		HRC-I-3	7.13	289	-0.163	-0.082	0.007	0.012	0.000000	0.000000	-1202.19	995.97
2	FID		HRC-I-4	7.04	289	0.397	0.136	0.006	0.010	0.000000	0.000000	1268.16	1001.60
3	GUIDE	used	472523760	8.23	578	-0.285	-0.214	0.110	0.188	331.645363	45.403260	1975.22	333.04
4	GUIDE	used	472533912	9.13	576	0.261	0.146	0.158	0.265	331.791136	46.368695	-269.61	-2341.30
5	GUIDE	used	472655152	9.39	578	-0.165	-0.270	0.234	0.394	332.504239	45.862991	-742.62	156.19
6	GUIDE	used	472665256	8.99	577	0.027	0.158	0.139	0.232	332.808125	46.195041	-2035.13	-419.66
7	GUIDE	used	472663080	9.38	576	0.193	0.197	0.155	0.249	332.652741	46.473840	-2265.80	-1471.54

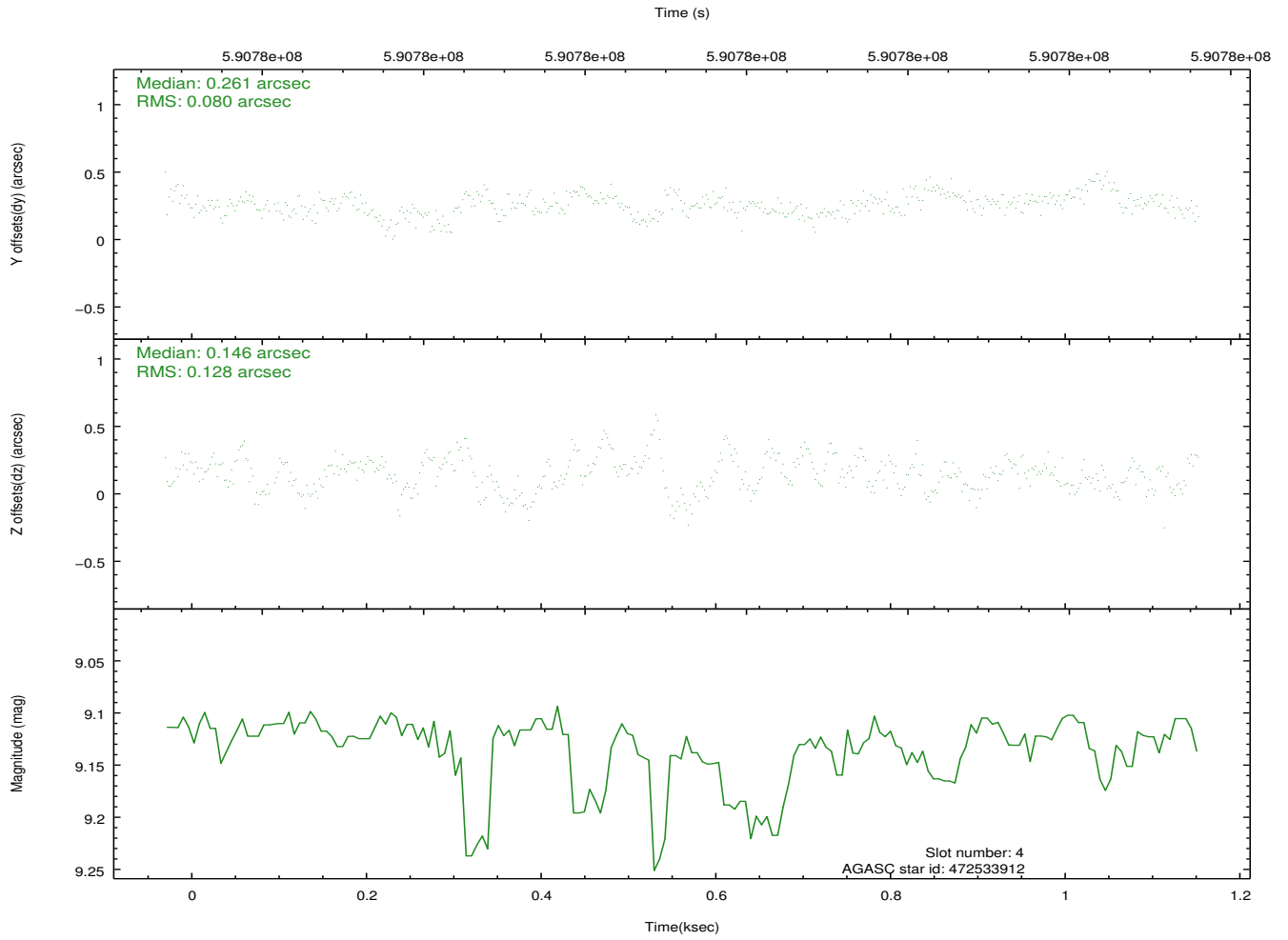
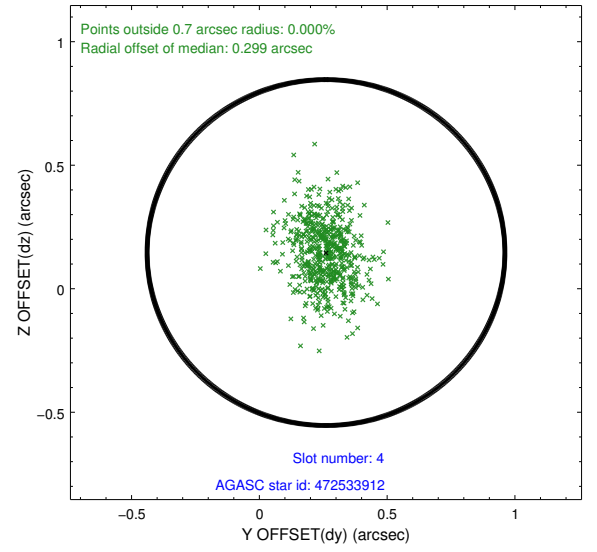
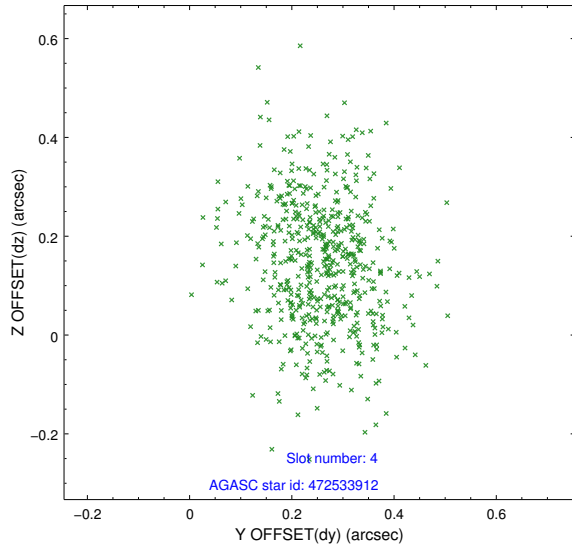


## 2.4 Star Slots

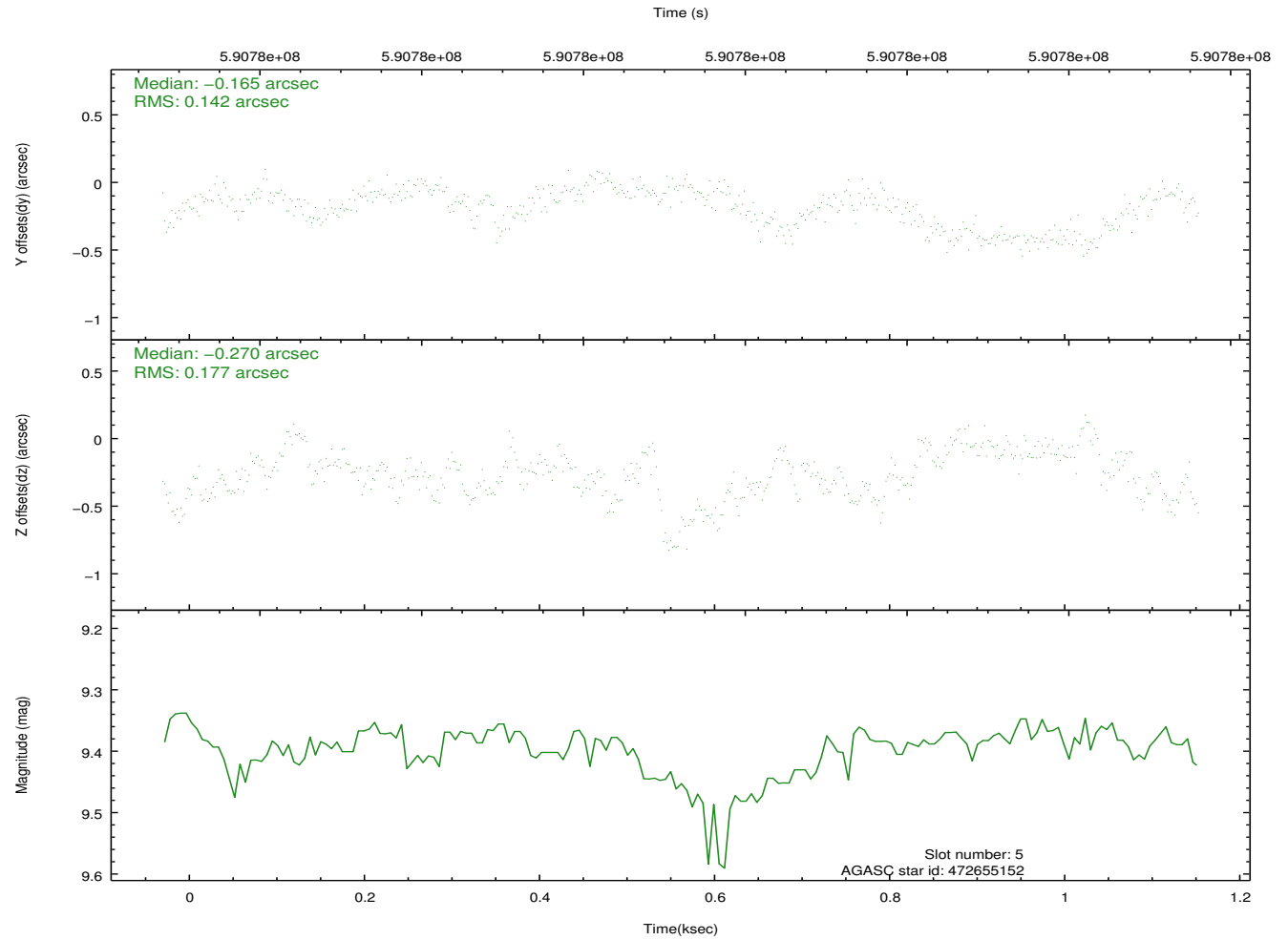
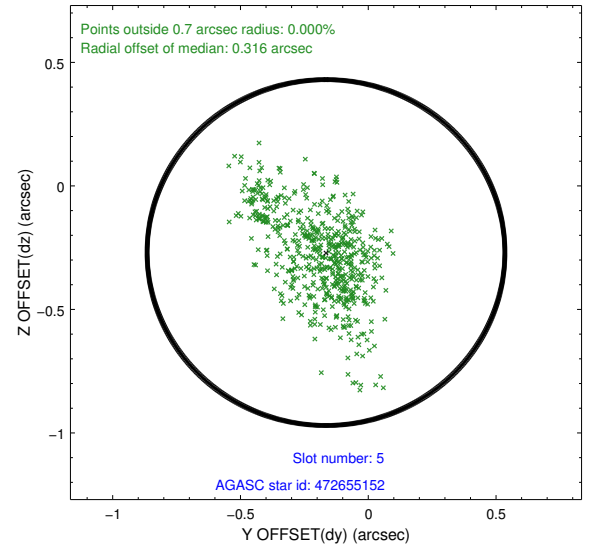
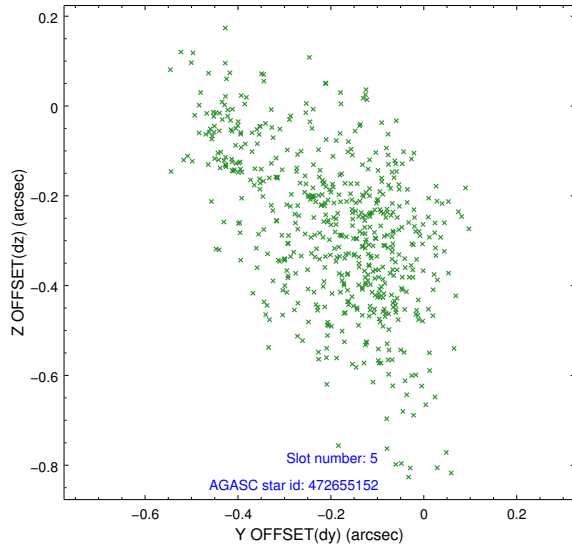
### 2.4.1 Slot 3



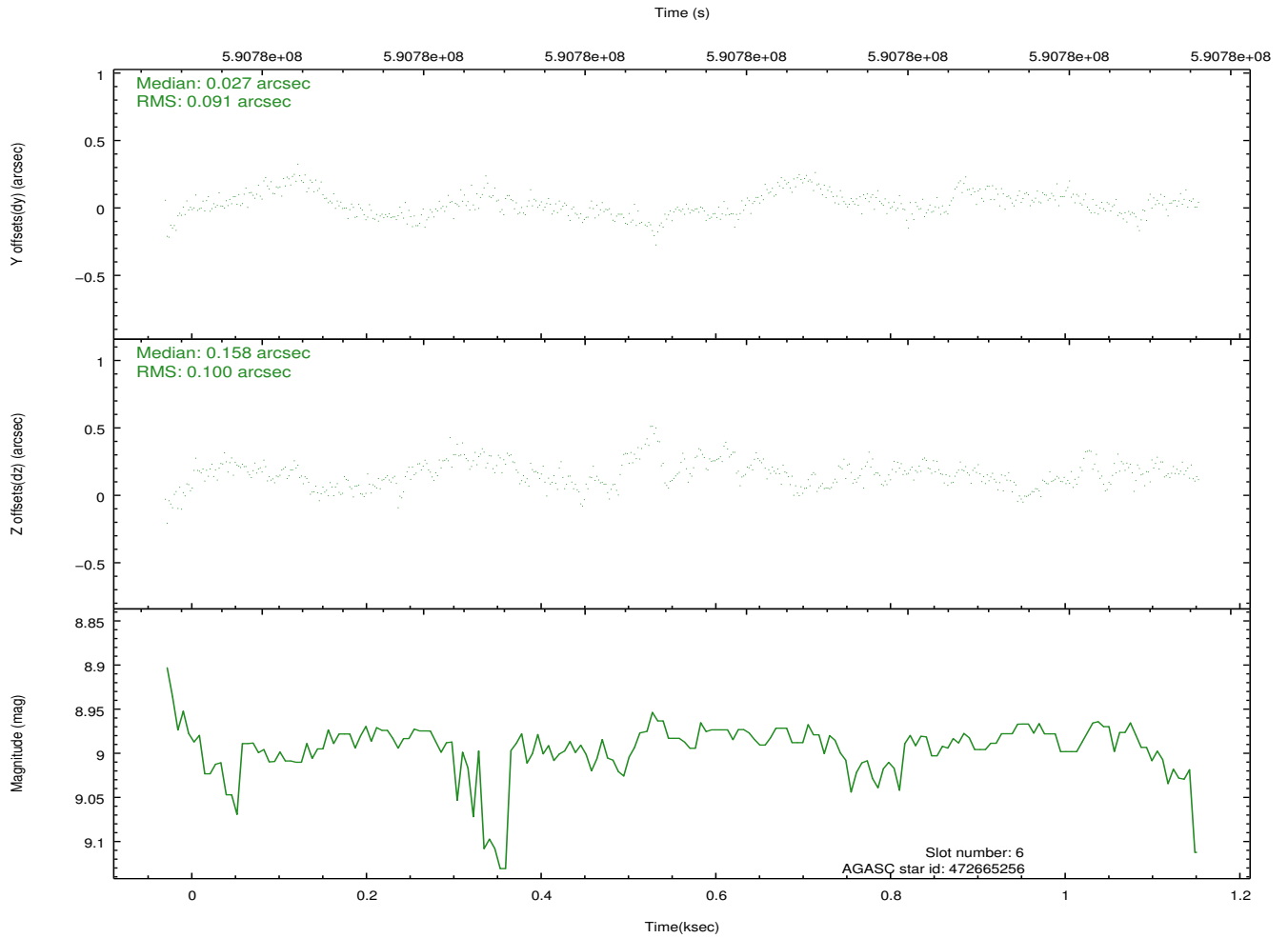
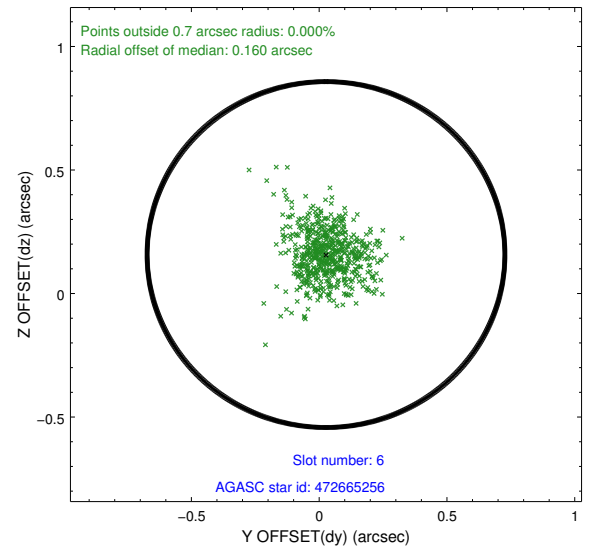
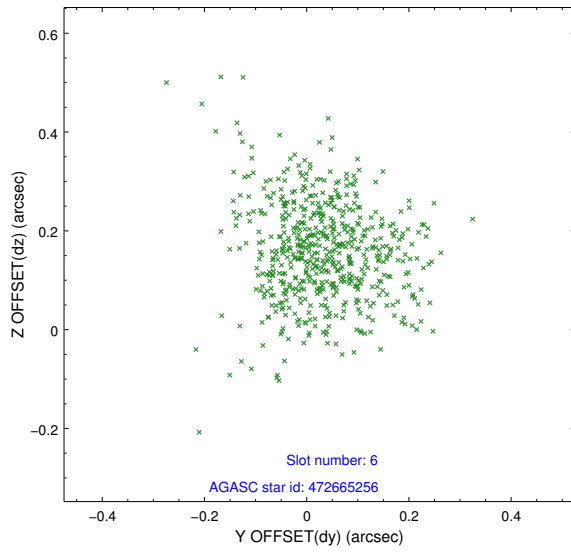
## 2.4.2 Slot 4



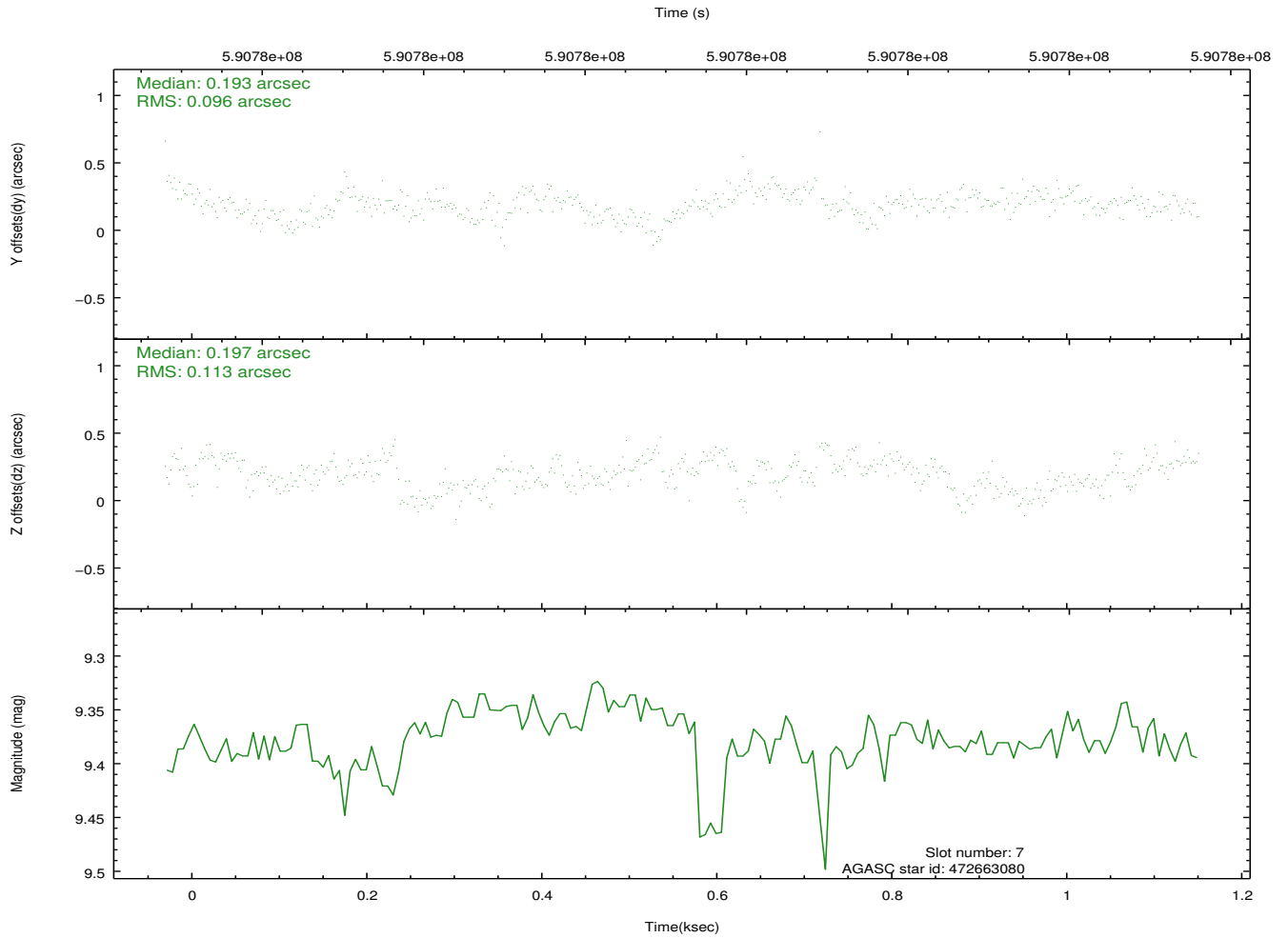
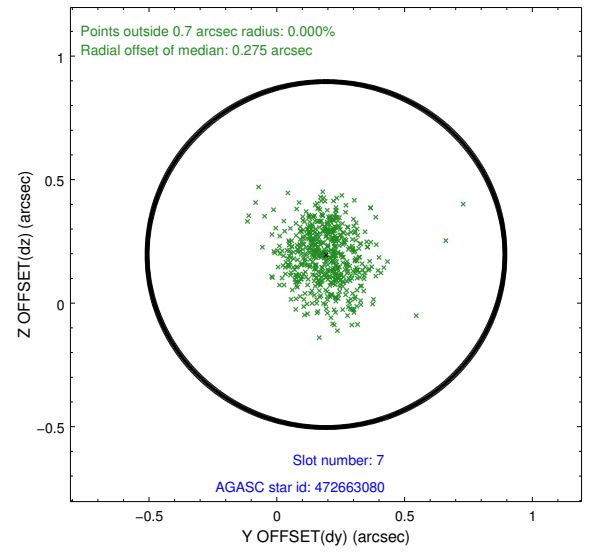
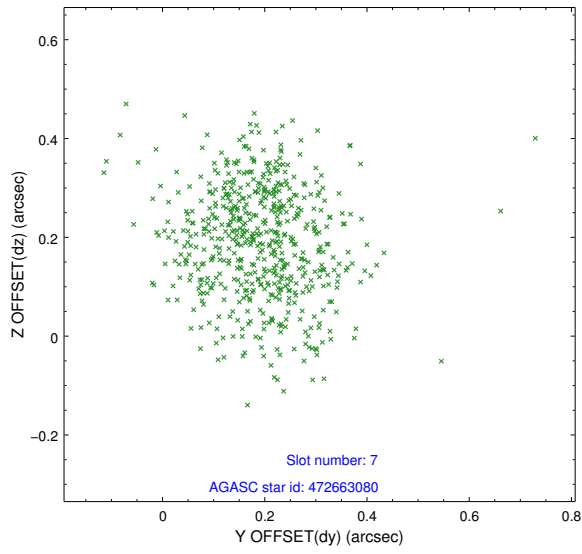
### 2.4.3 Slot 5



## 2.4.4 Slot 6

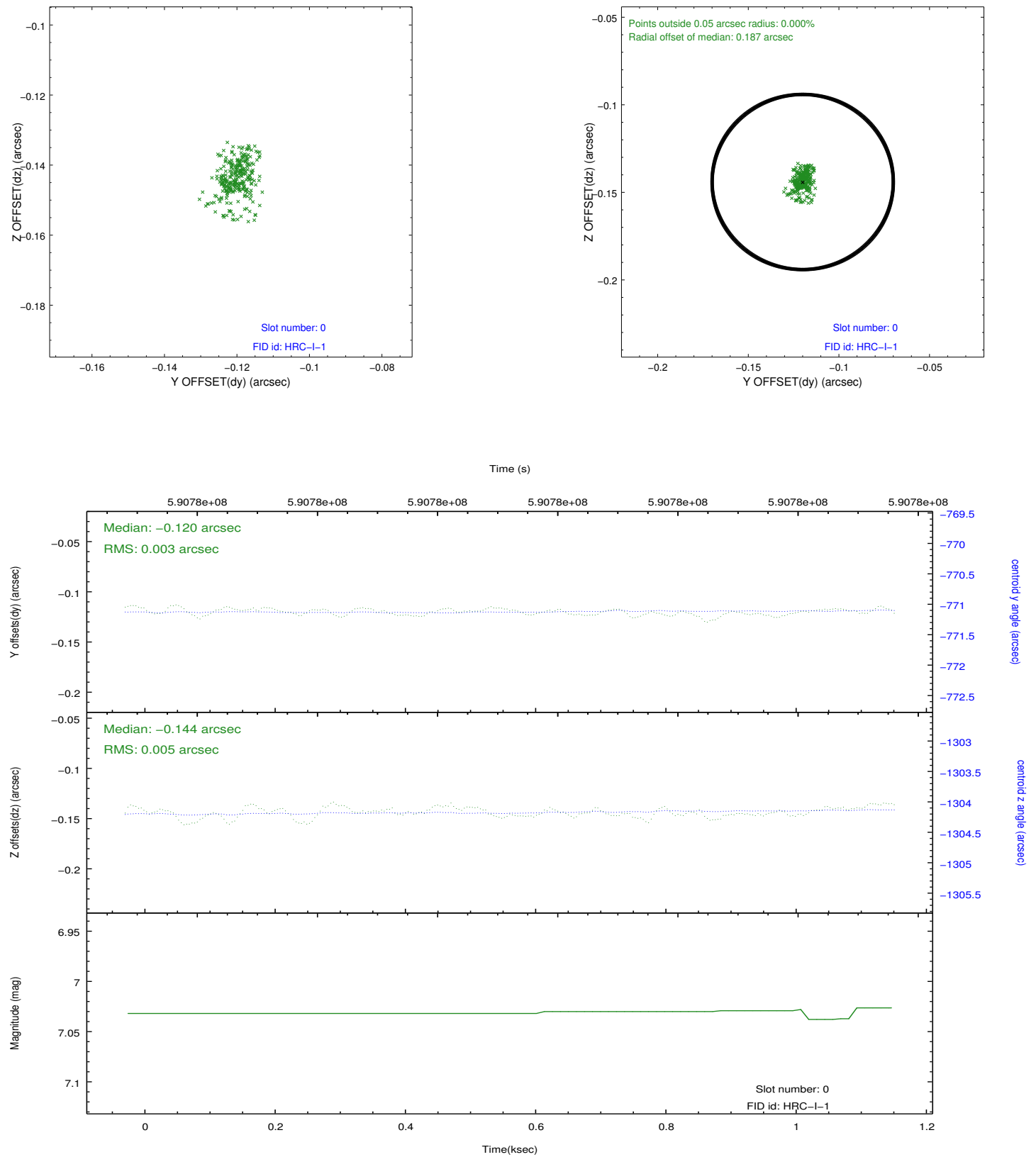


## 2.4.5 Slot 7

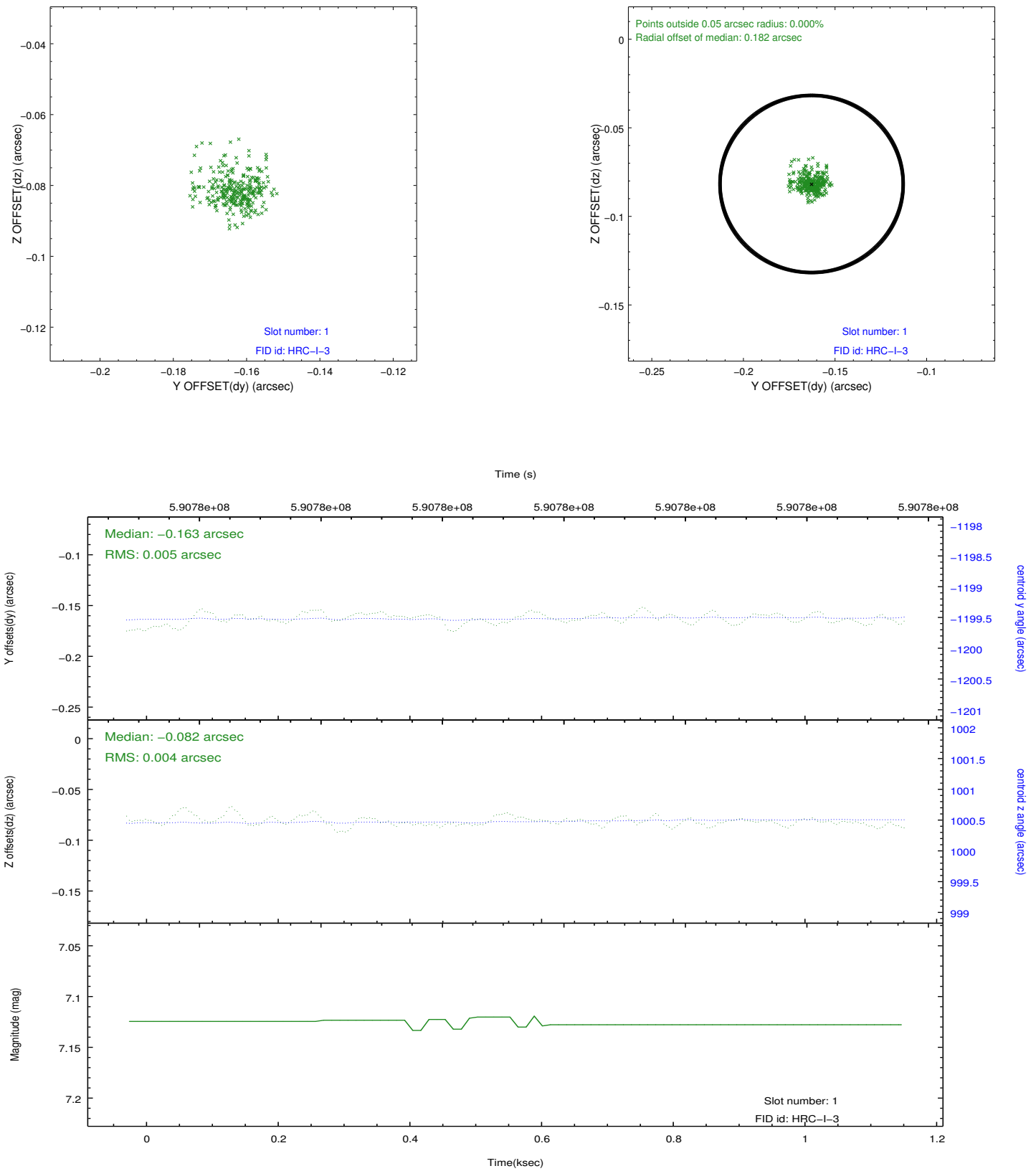


## 2.5 FID Slots

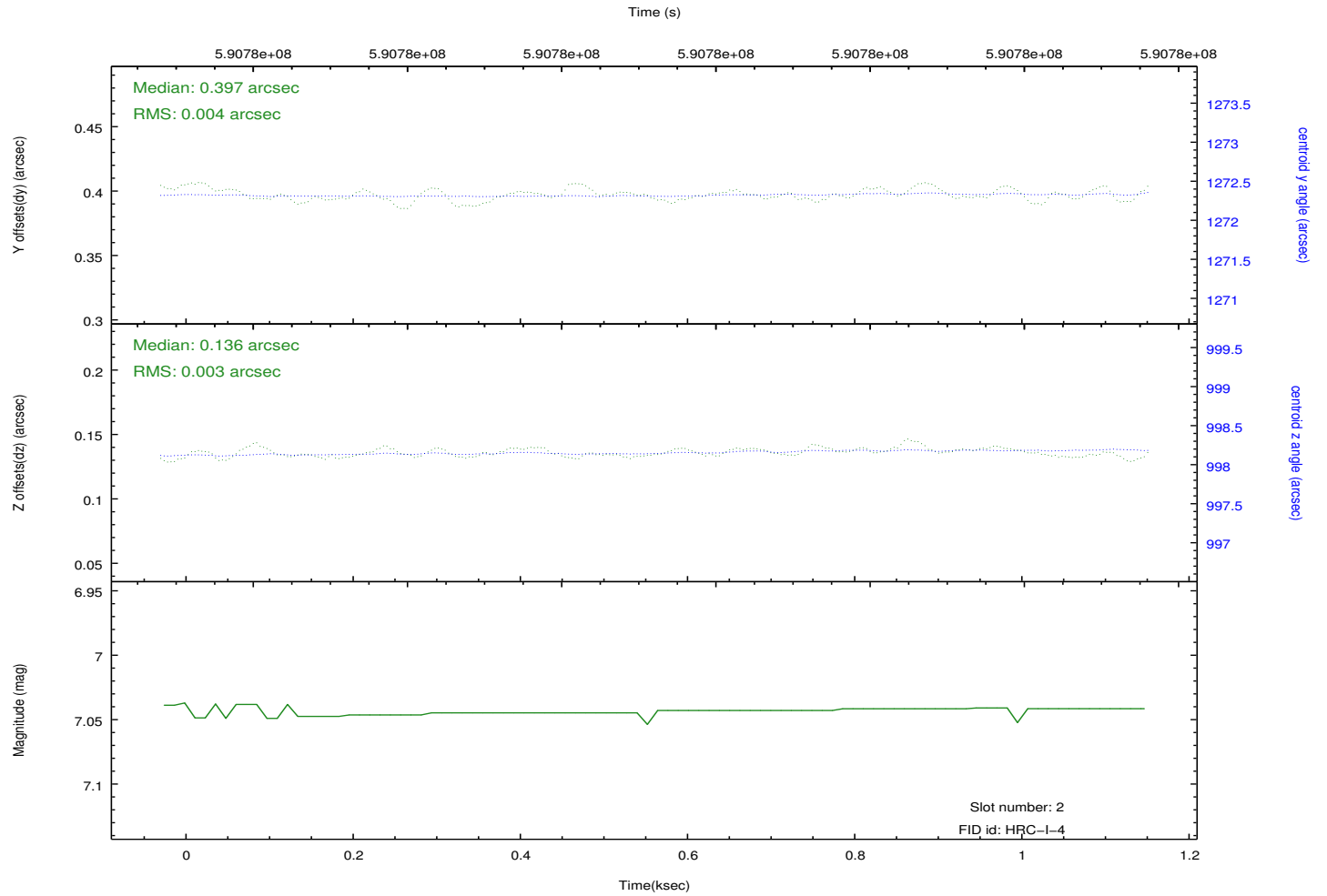
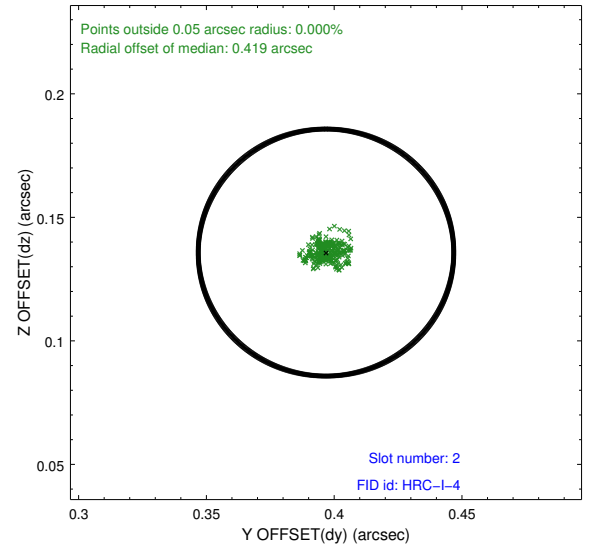
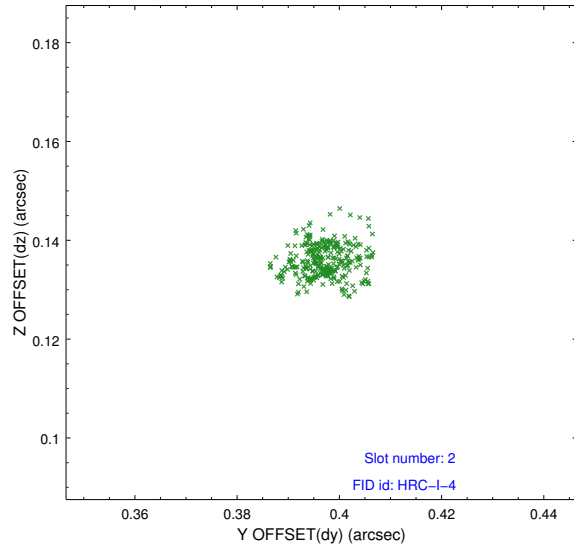
### 2.5.1 Slot 0



## 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)	2016.09.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.18208131814

### A.2 Comments