

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 16409 - L2 Version 1  
Chandra X-Ray Center

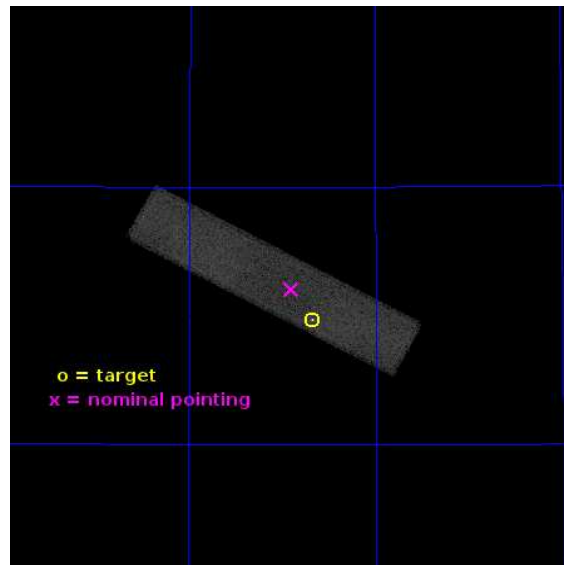
L2 Processing Date : Sep 17 2014

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# 1 Front

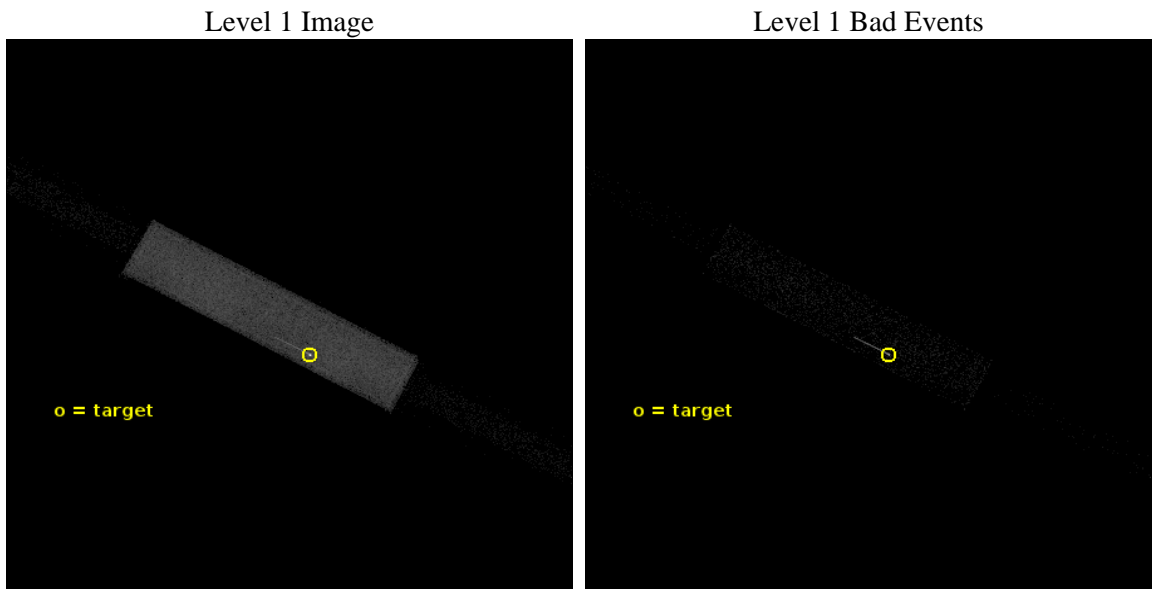
seq_num	291181	Sequence number
obs_id	16409	Observation id
title	AO-15 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.22558311656	Nominal RA [deg]
dec_nom	45.80157230025	Nominal Dec [deg]
roll_nom	208.21212442996	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1153.3813140988	[s]
livetime	1143.3820568773	Ontime multiplied by DTCOR
l2events	78922	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	10.2.4	Processing system revision	ontime	1153.3813140988	[s]
caldsver	4.6.3	&#160	l1events	117205	Number of level 1 events
date	2014-09-17T03:50:44	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

Level 1 Events

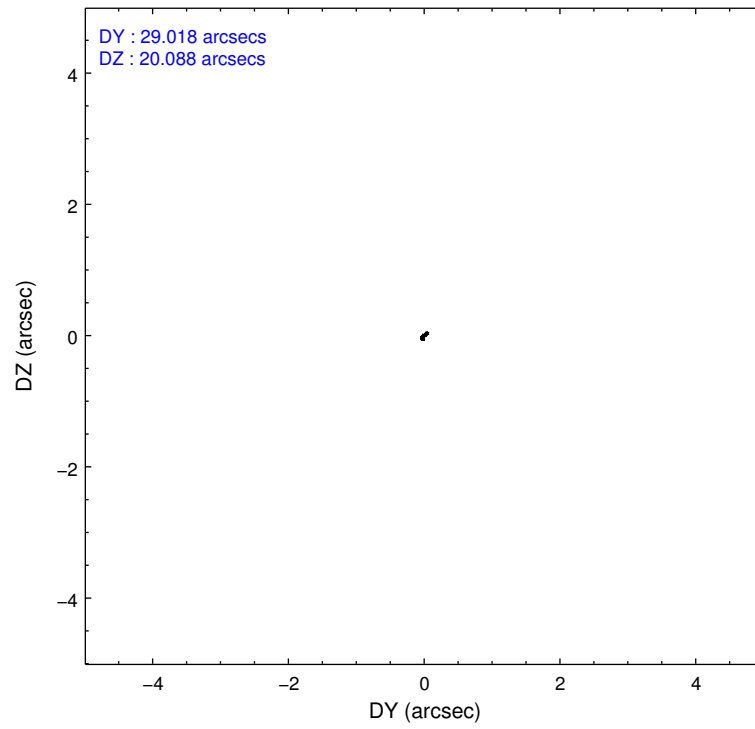
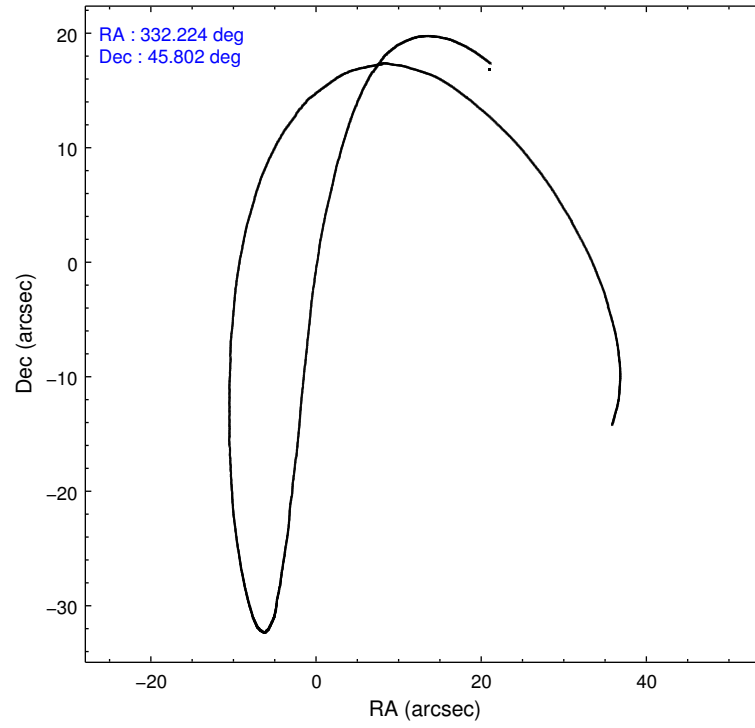
	segment 1	segment 2	segment 3
level 1 events	1557	114308	1340
rejected events	1557	25947	1335
rejected %	100%	22%	99%

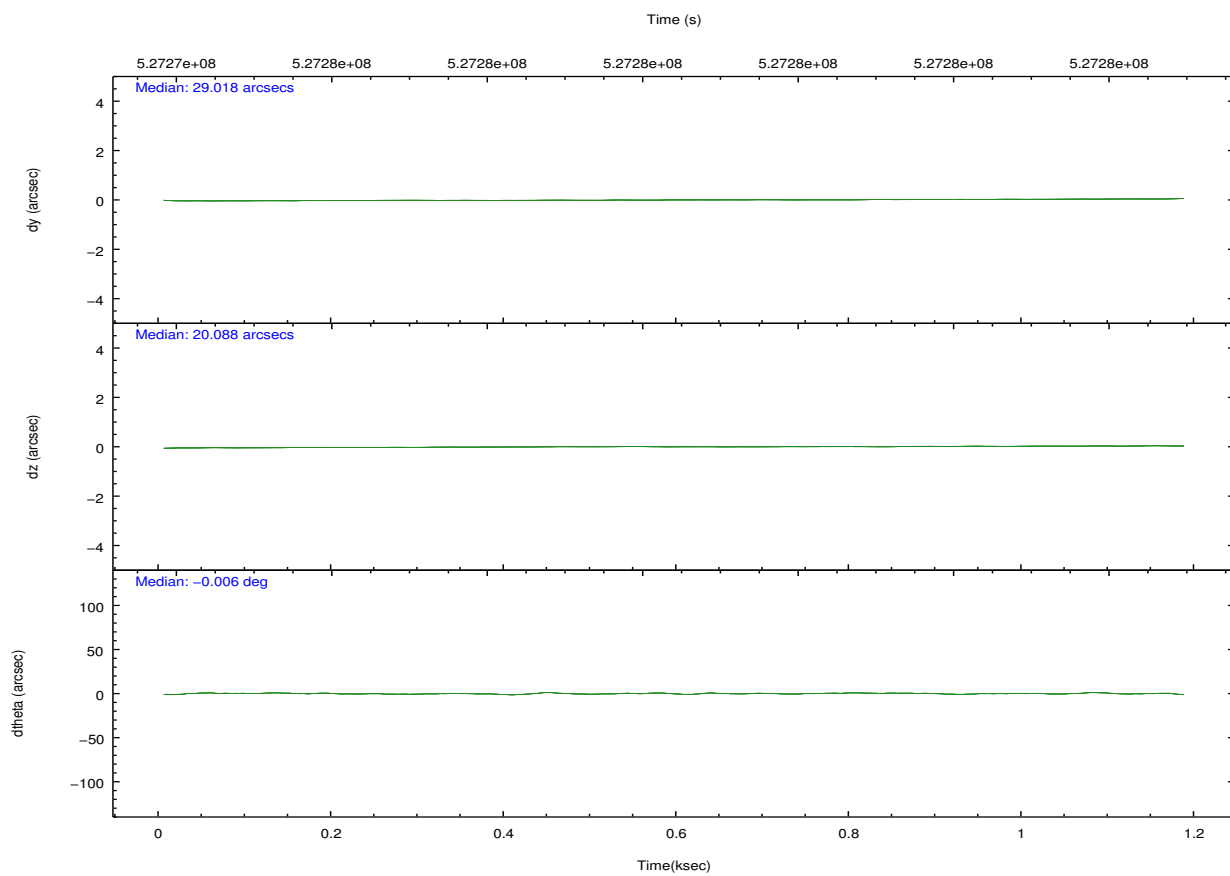
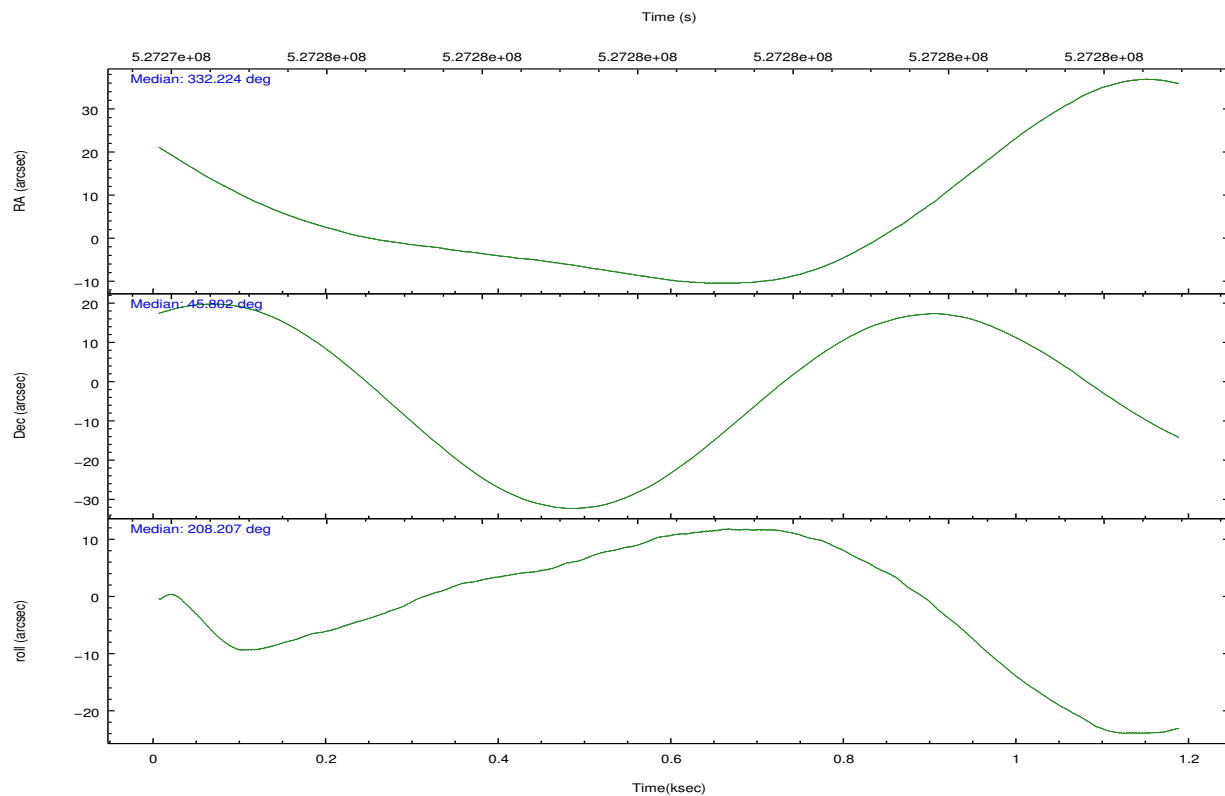
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.245577	332.2255831165635
[deg] Pointing Dec	45.826087	45.80157230025
[deg] Pointing Roll	208.130440	208.2121244299558
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	527275038.184000	527274661.71602
Observation start date	2014-09-16T17:16:11	2014-09-16T17:11:01
[s] Observation end time (MET)	527276038.184000	527276171.54111
Observation end date	2014-09-16T17:32:51	2014-09-16T17:36:11

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

## 2.3 Aspect





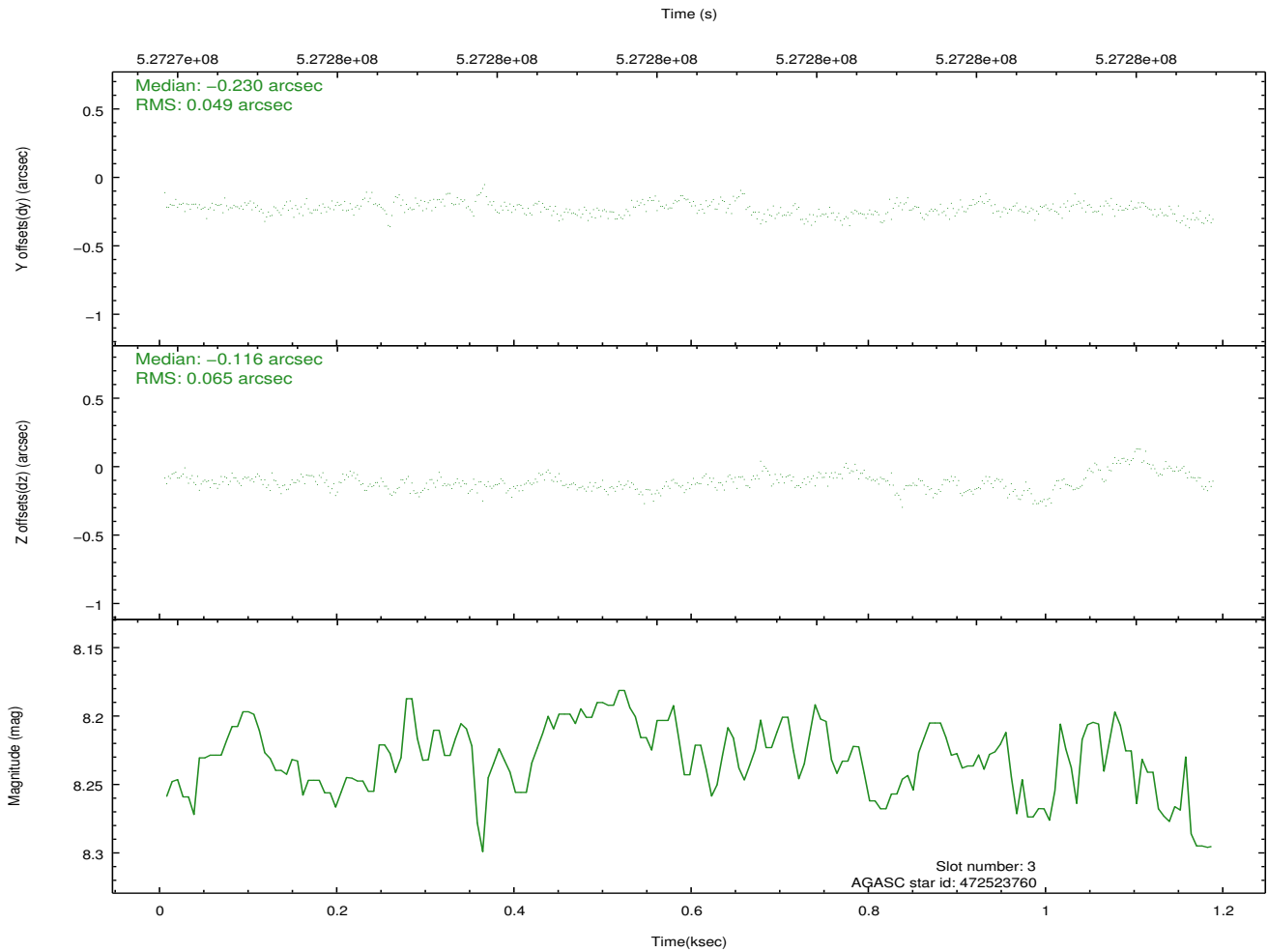
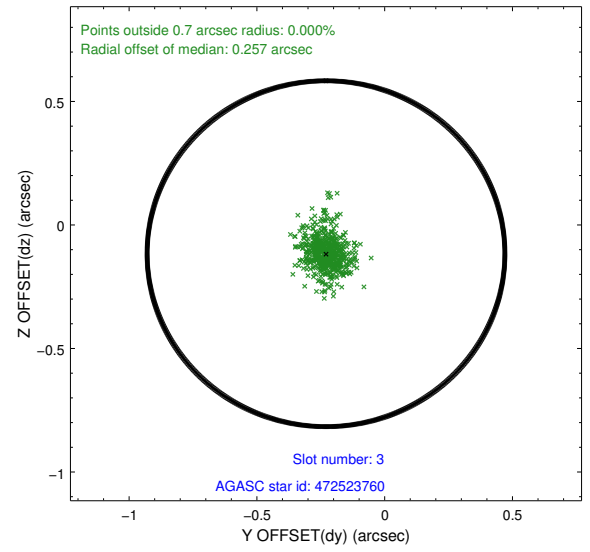
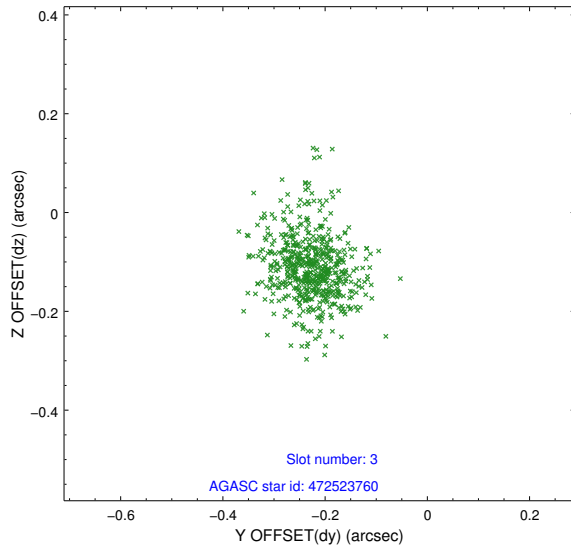
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.07	289	-0.015	-0.206	0.007	0.012	0.000000	0.000000	-1183.86	-469.23
1	FID	HRC-S-2	7.04	289	0.360	-0.136	0.005	0.010	0.000000	0.000000	1212.08	-463.31
2	FID	HRC-S-3	7.07	289	0.045	0.039	0.006	0.010	0.000000	0.000000	-1182.37	558.93
3	GUIDE	472523760	8.23	578	-0.230	-0.116	0.082	0.152	331.645363	45.403260	2054.54	624.70
4	GUIDE	472651904	6.09	578	-0.255	-0.393	0.120	0.173	332.170077	45.742257	314.89	178.85
5	GUIDE	472655152	9.42	578	0.117	-0.153	0.179	0.327	332.504239	45.862991	-632.61	190.41
6	GUIDE	472665256	8.98	578	0.359	0.274	0.100	0.164	332.808125	46.195041	-1863.75	-511.86
7	GUIDE	472535576	7.87	577	0.012	0.380	0.109	0.162	331.438373	46.291802	974.30	-2432.09

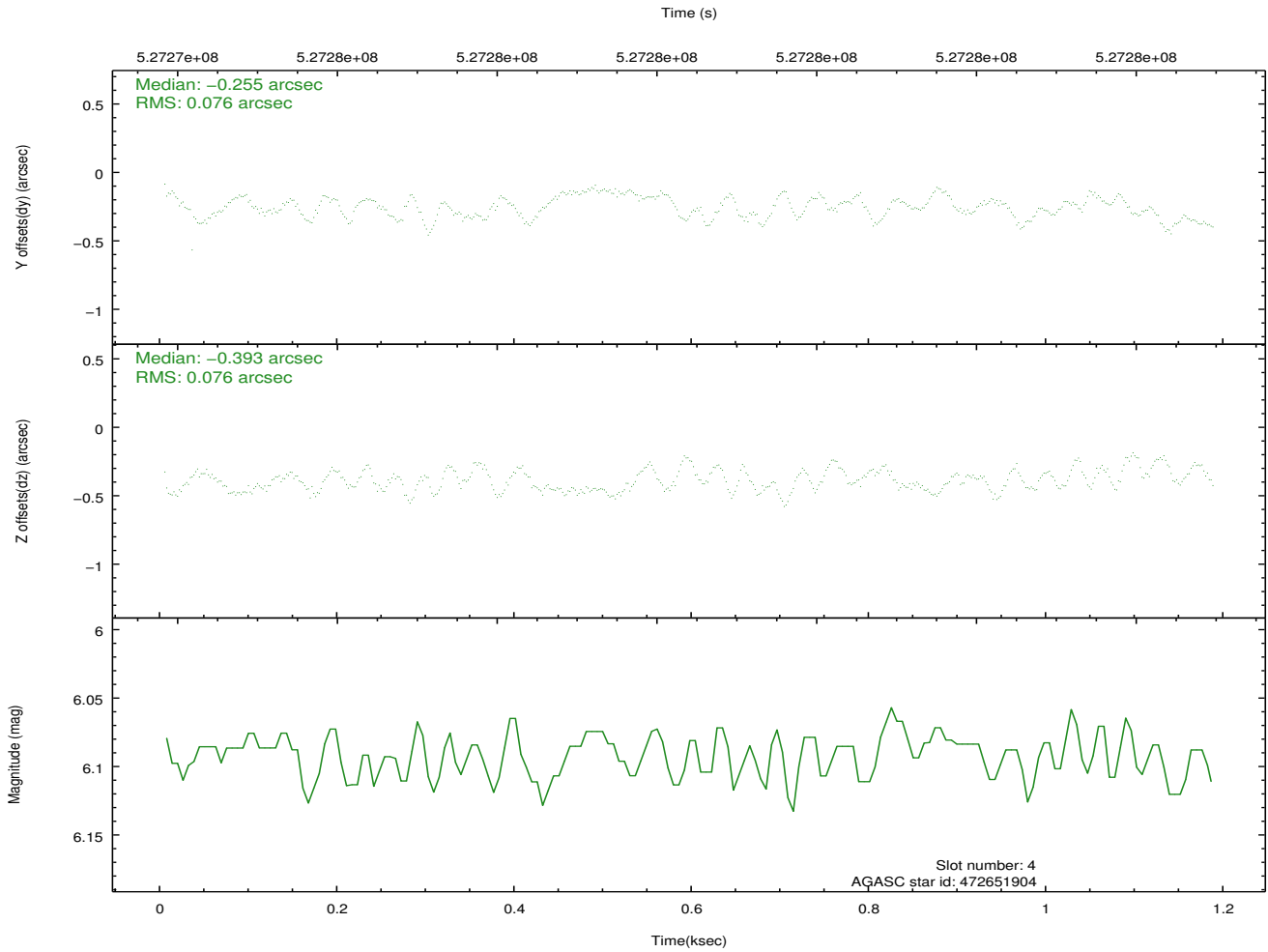
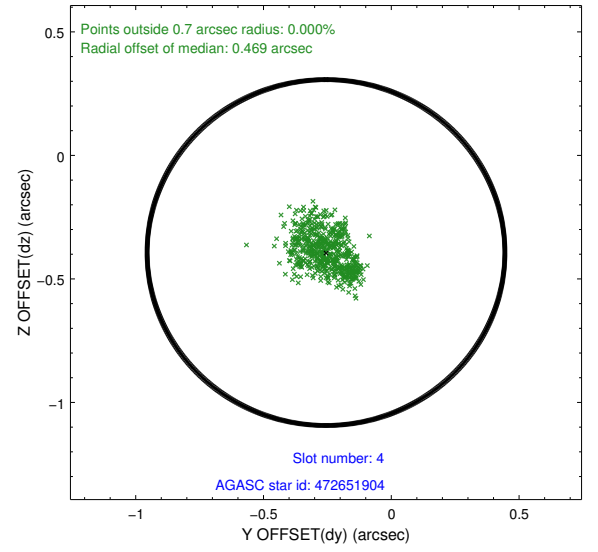
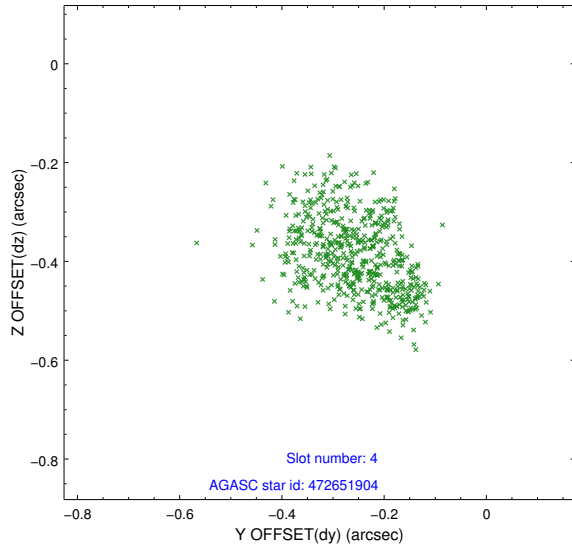


## 2.4 Star Slots

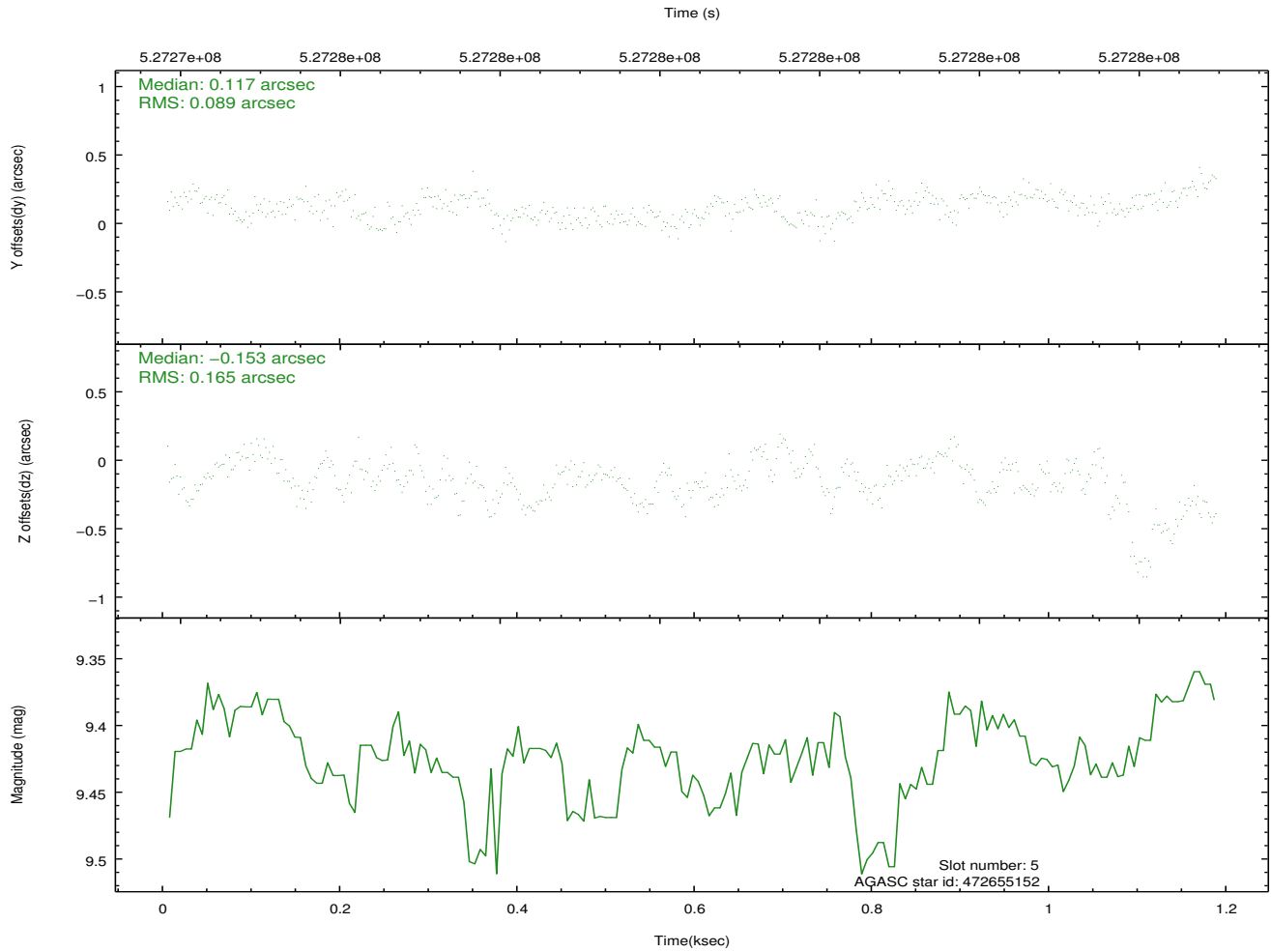
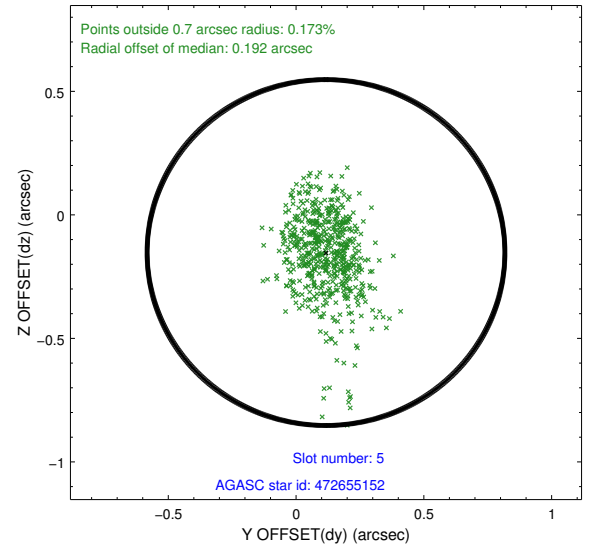
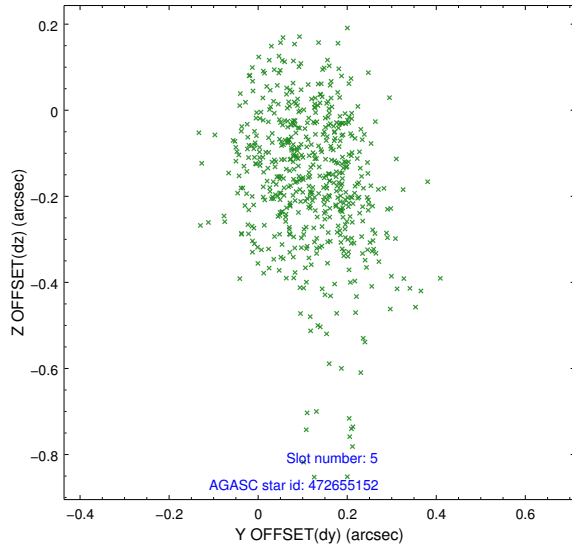
### 2.4.1 Slot 3



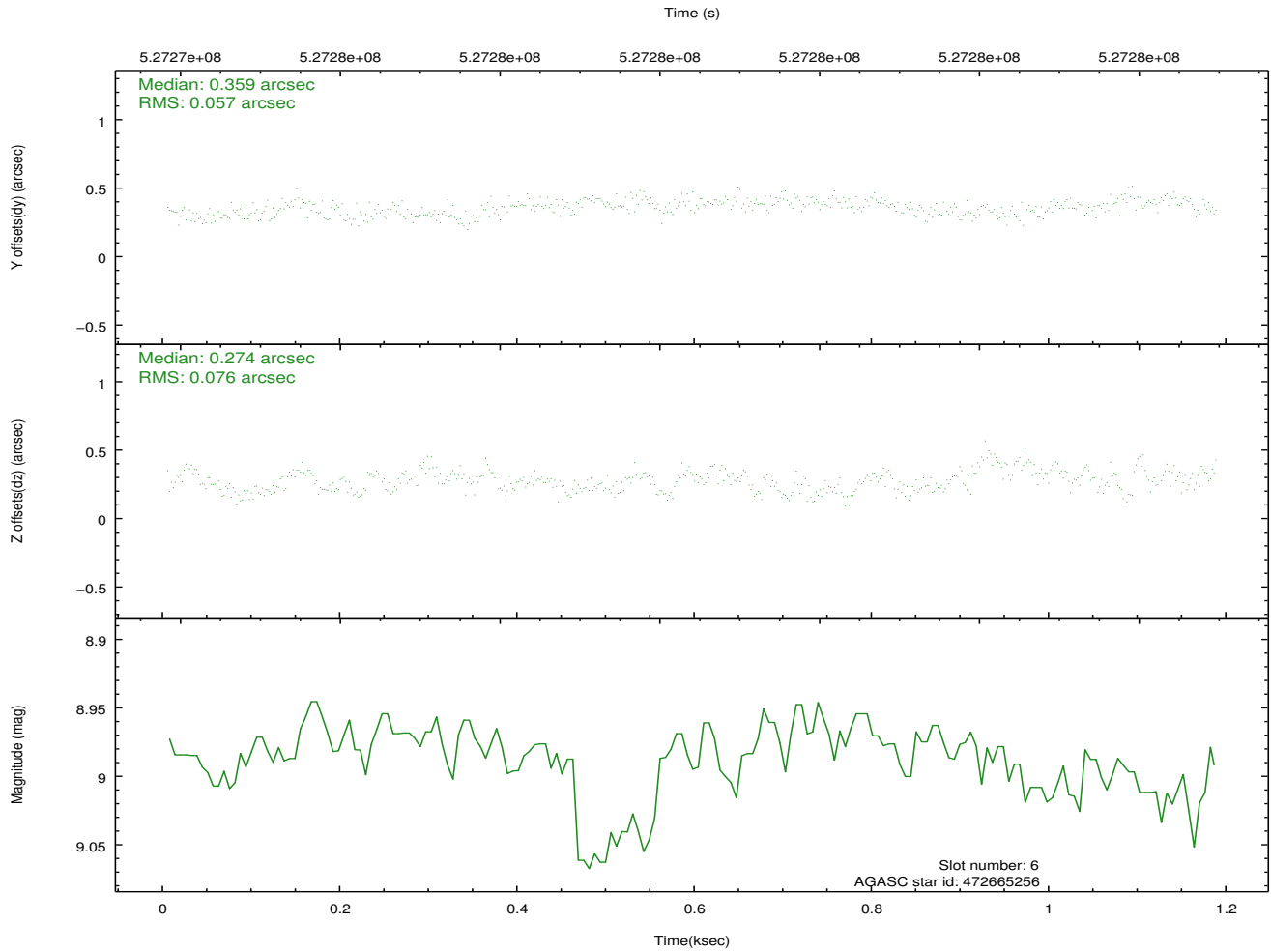
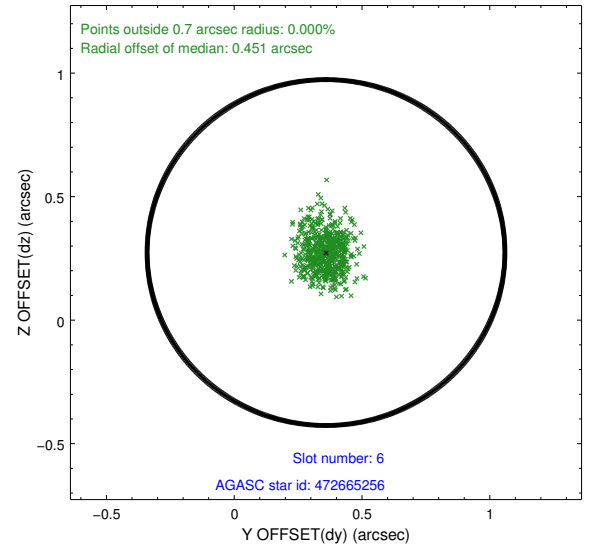
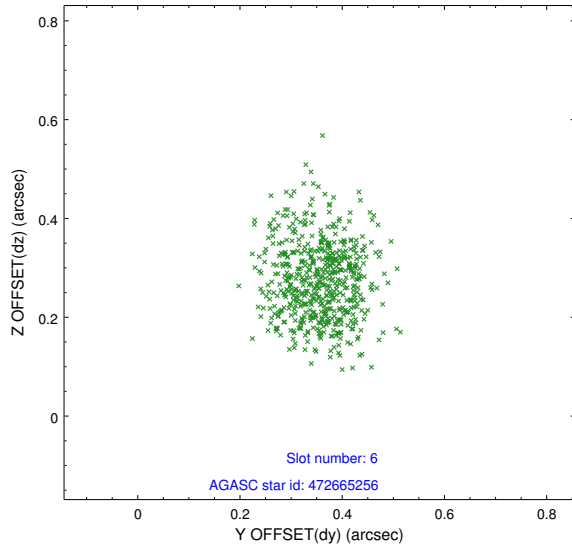
## 2.4.2 Slot 4



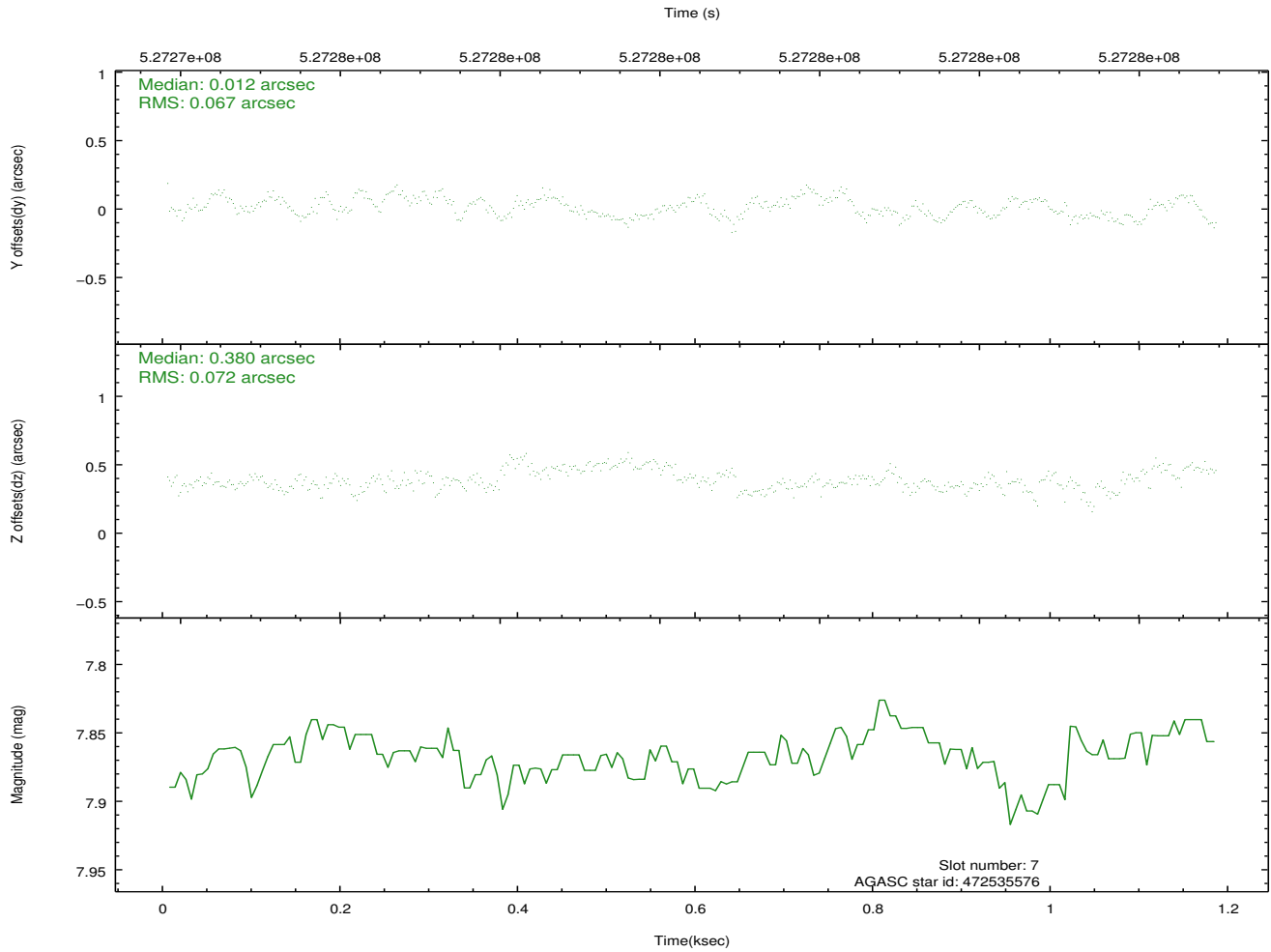
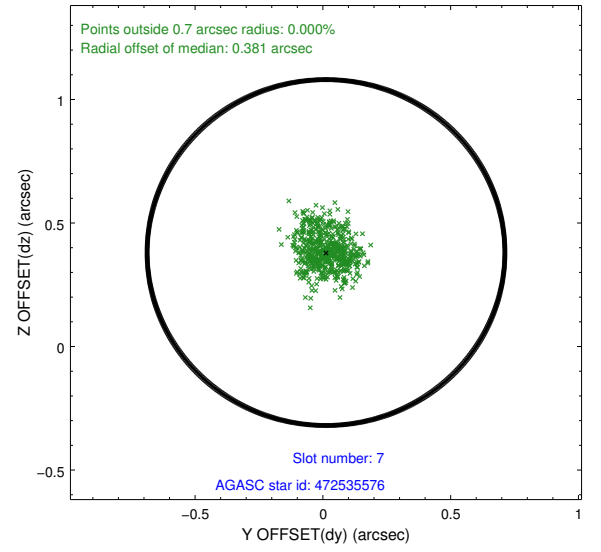
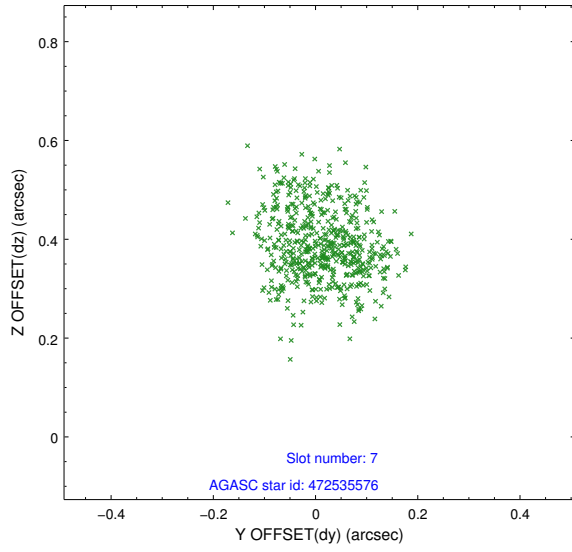
### 2.4.3 Slot 5



## 2.4.4 Slot 6

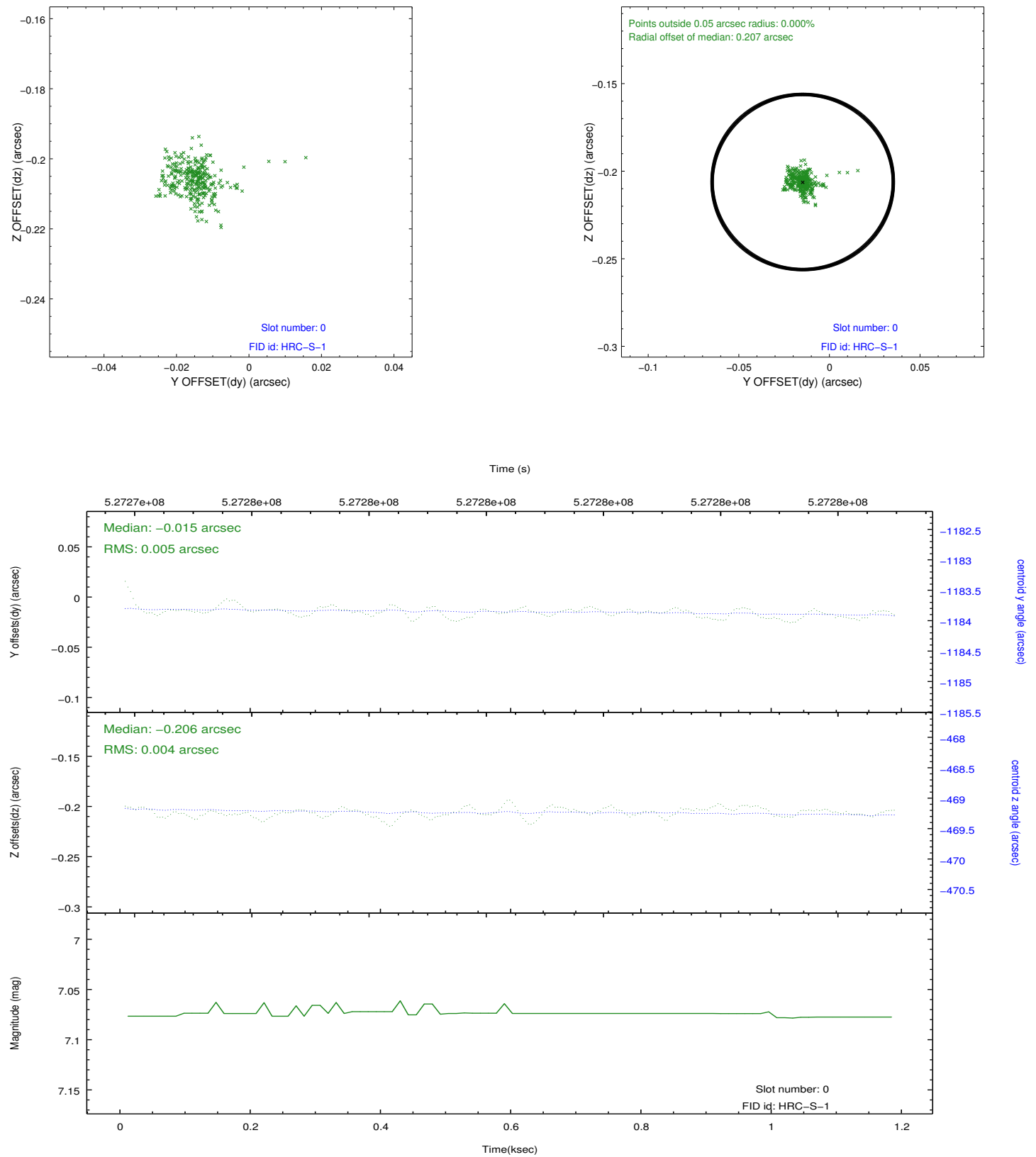


## 2.4.5 Slot 7

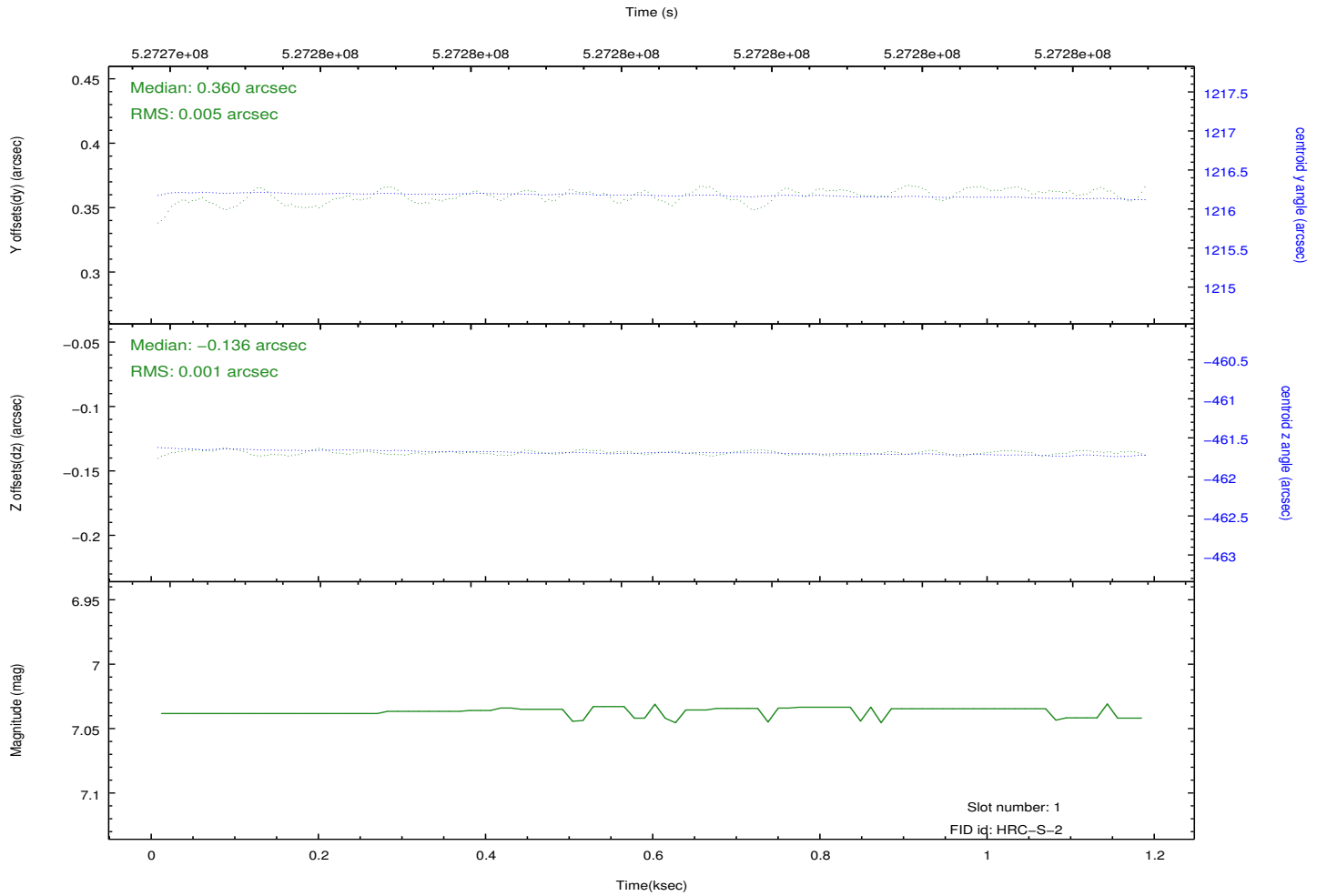
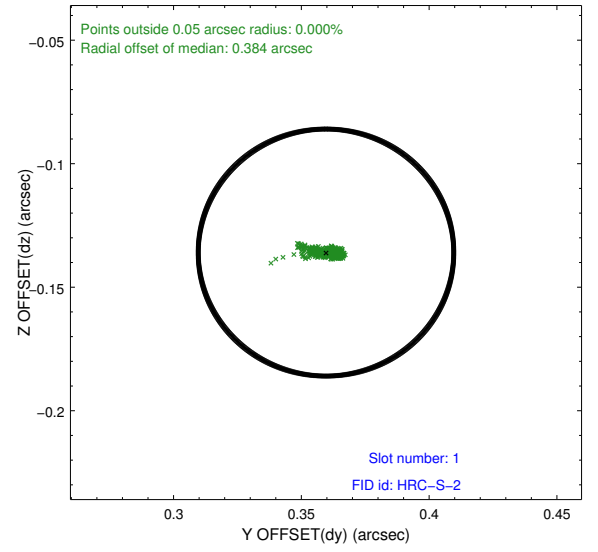
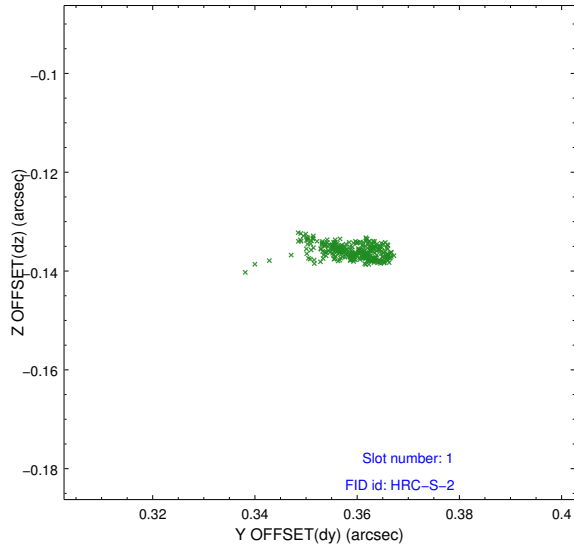


## 2.5 FID Slots

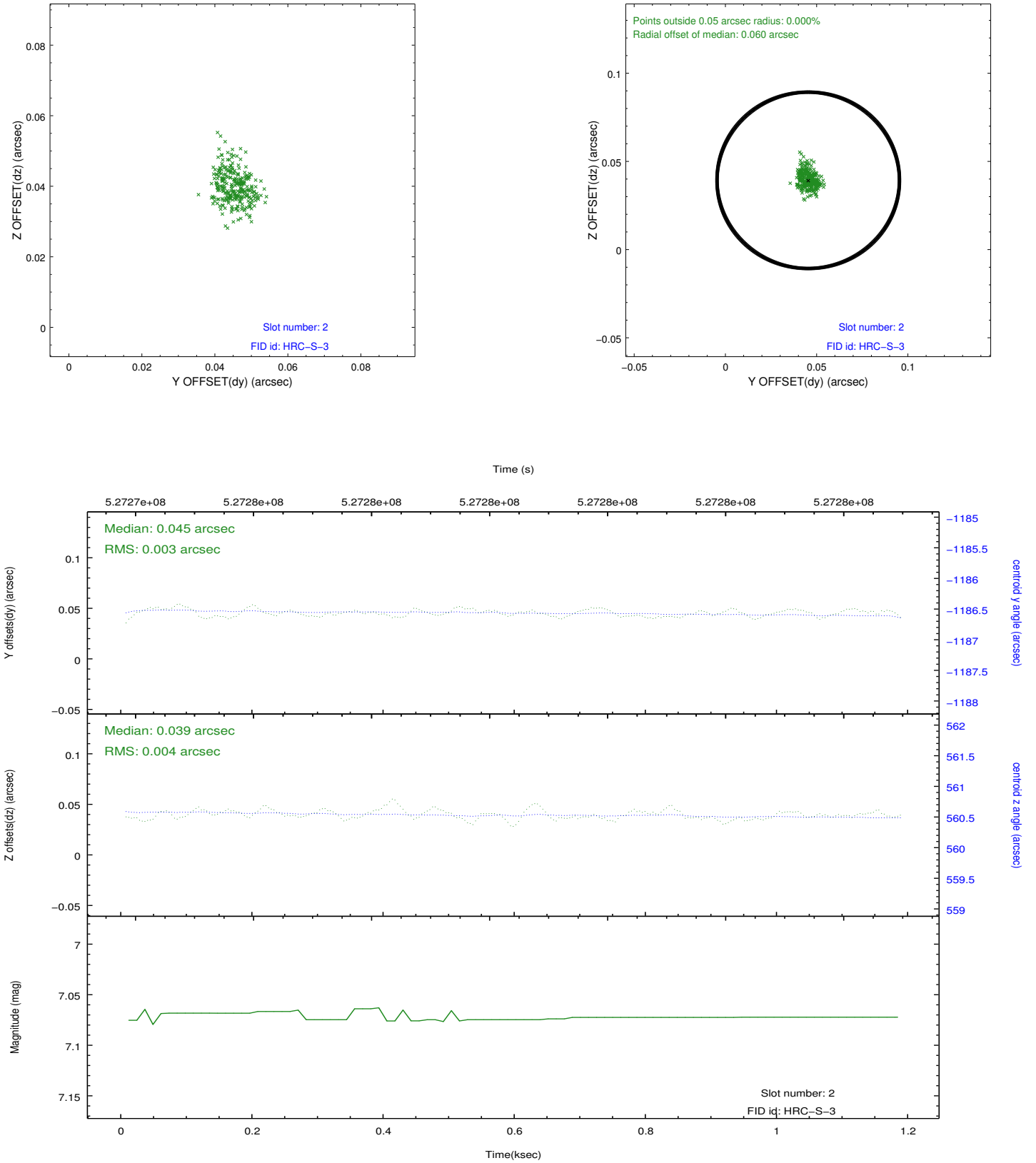
### 2.5.1 Slot 0



## 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)	2014.09.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1533813140988

### A.2 Comments