

# V&V Reference Report

## L2 ASCDS Version : 10.5.4

Observation 19746 - L2 Version 1  
Chandra X-Ray Center

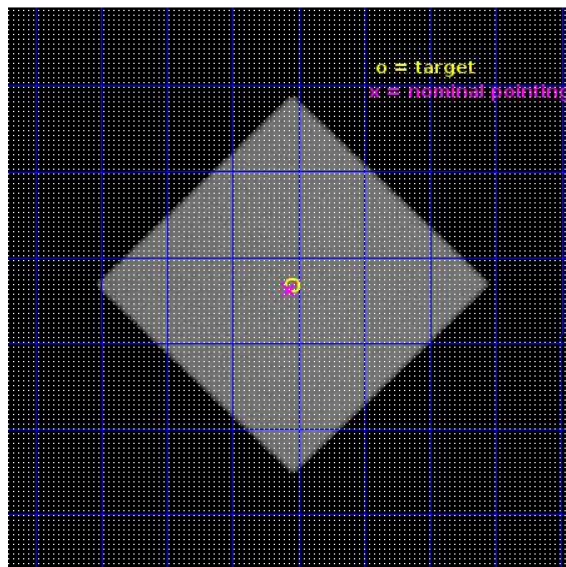
L2 Processing Date : Apr 27 2017

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# 1 Front

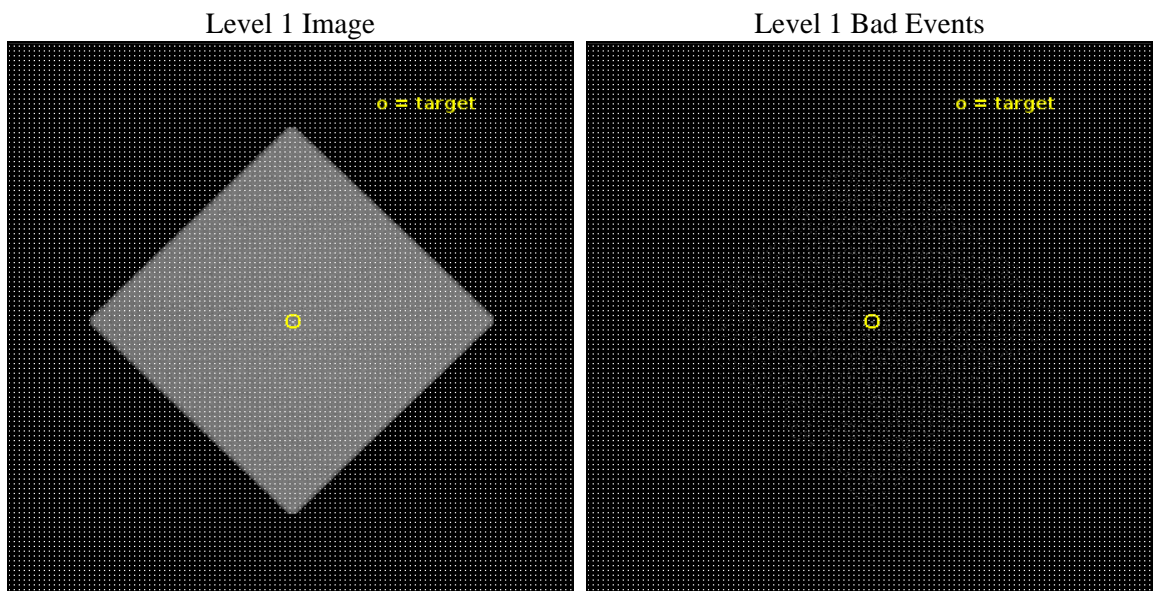
seq_num	703461	Sequence number
obs_id	19746	Observation id
title	X-ray spectrum and morphology of PG 1302-102	Proposal title
observer	Ralph Kraft	Principal investigator
object	PG 1302-102	Source name
ra_targ	196.3875	Observer's specified target RA [deg]
dec_targ	-10.555278	Observer's specified target Dec [deg]
ra_nom	196.39237505537	Nominal RA [deg]
dec_nom	-10.563142066951	Nominal Dec [deg]
roll_nom	269.90545612966	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9970.4318299294	[s]
livetime	9344.7491928415	Ontime multiplied by DTCOR
l2events	1017418	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	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	9970.4318299294	[s]
caldsver	4.7.3	&#160	l1events	1532172	Number of level 1 events
date	2017-04-27T22:46:16	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

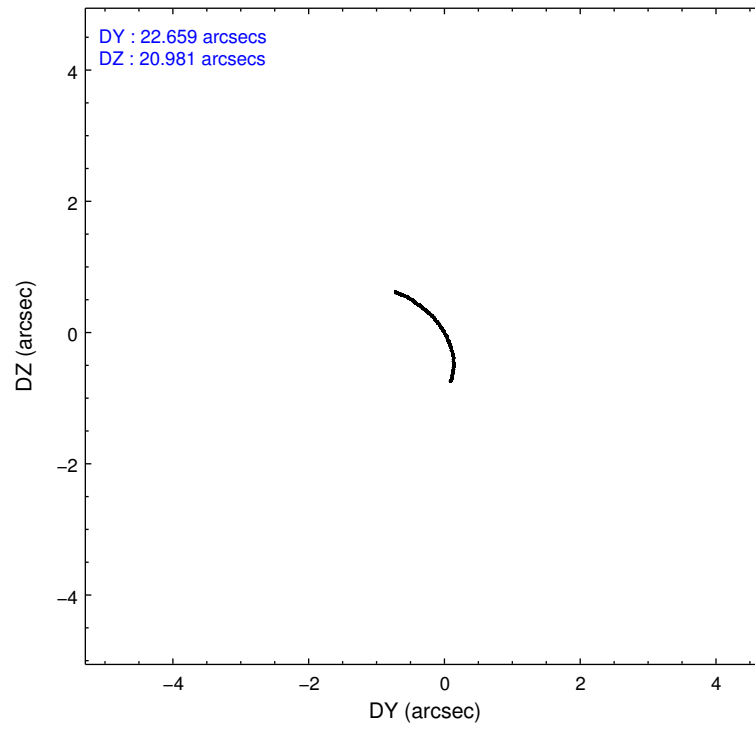
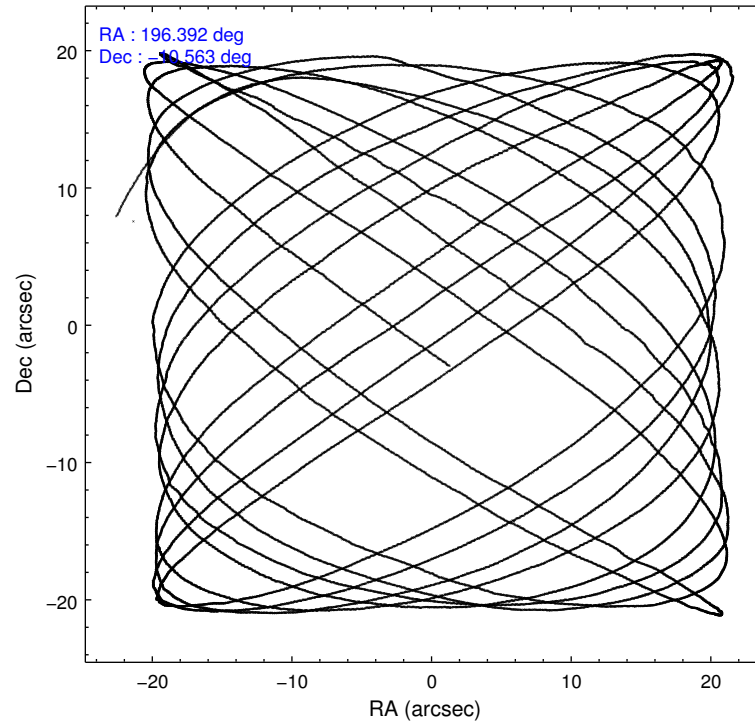
	<b>segment 0</b>
level 1 events	1532172
rejected events	182814
rejected %	11%

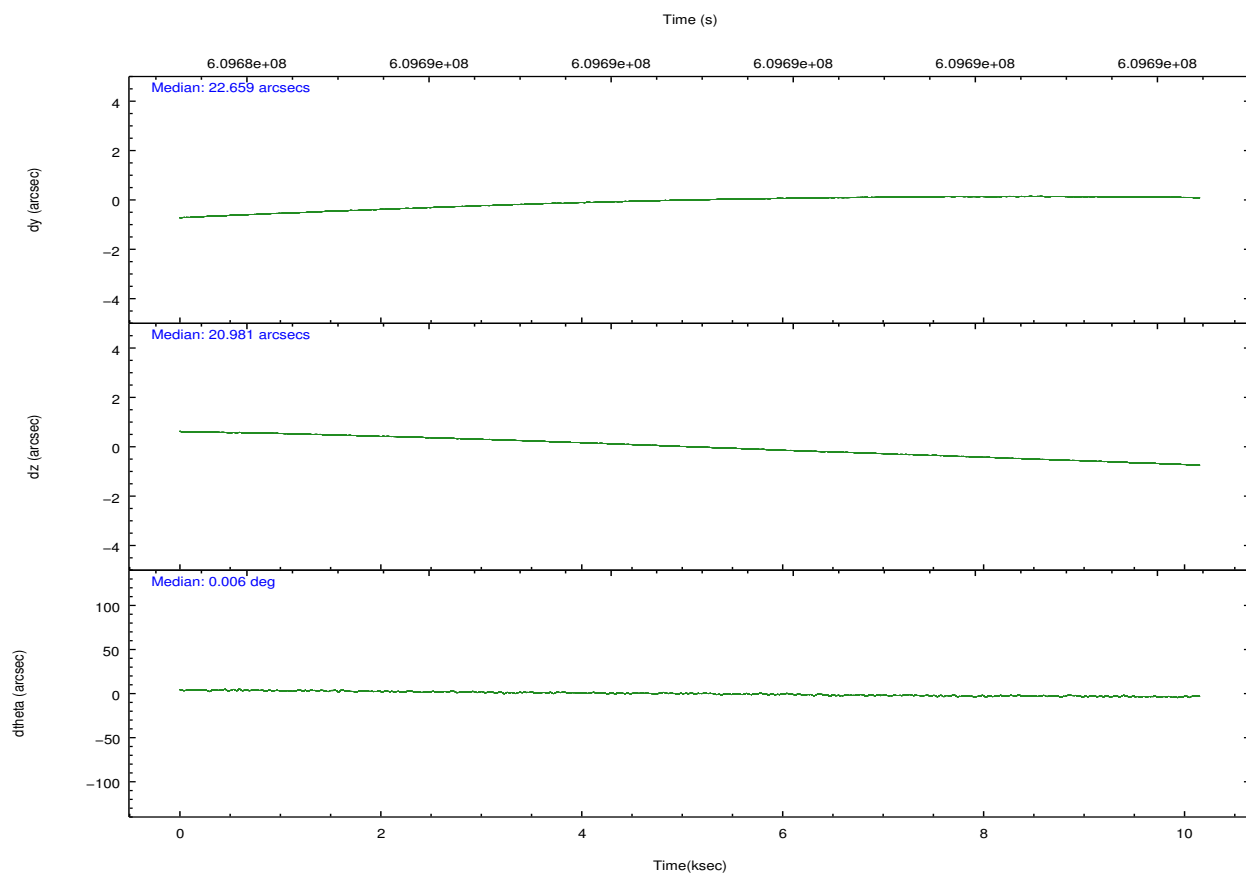
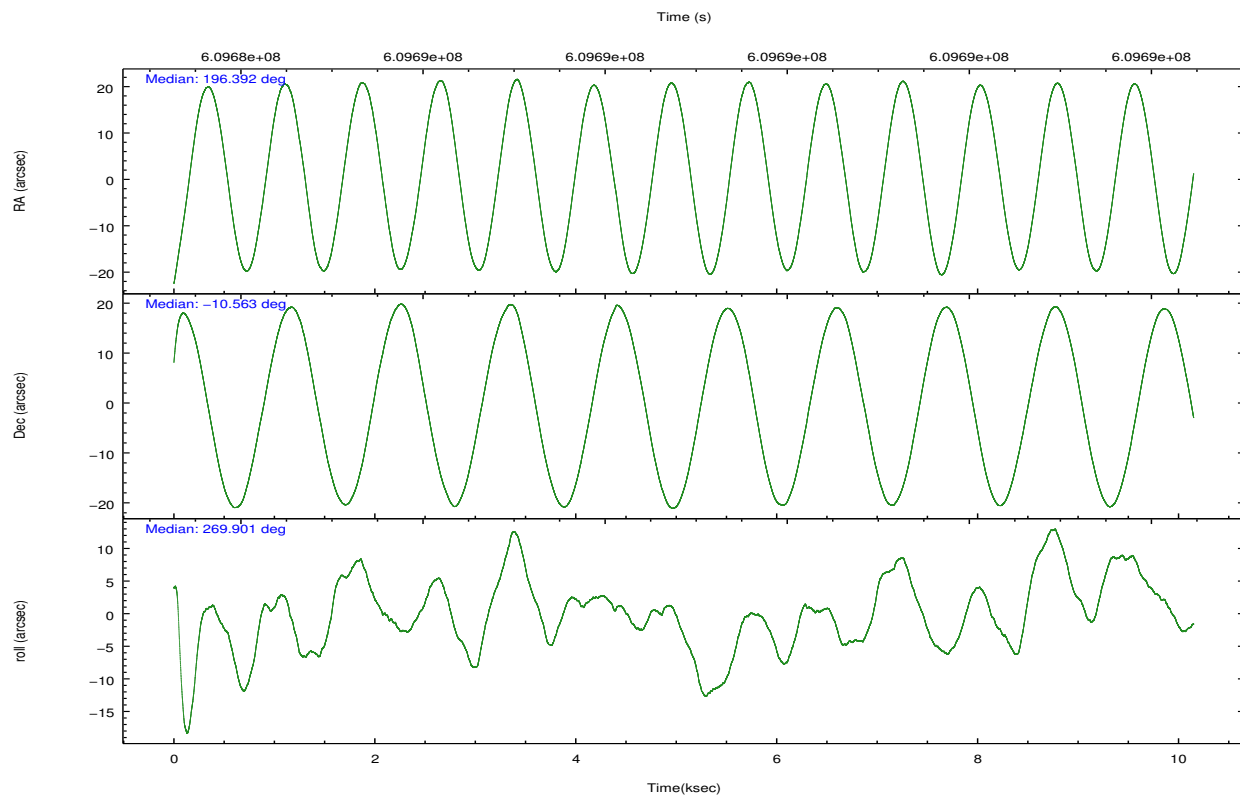


## 2.2 Compared Parameters

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	196.378009	196.39237505537			
[deg] Pointing Dec	-10.539909	-10.56314206695058			
[deg] Pointing Roll	269.998263	269.9054561296596			
[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)	609683942.184000	609682636.0845701			
Observation start date	2017-04-27T12:37:53	2017-04-27T12:17:16			
[s] Observation end time (MET)	609693942.184000	609694671.12277			
Observation end date	2017-04-27T15:24:33	2017-04-27T15:37:51			

## 2.3 Aspect



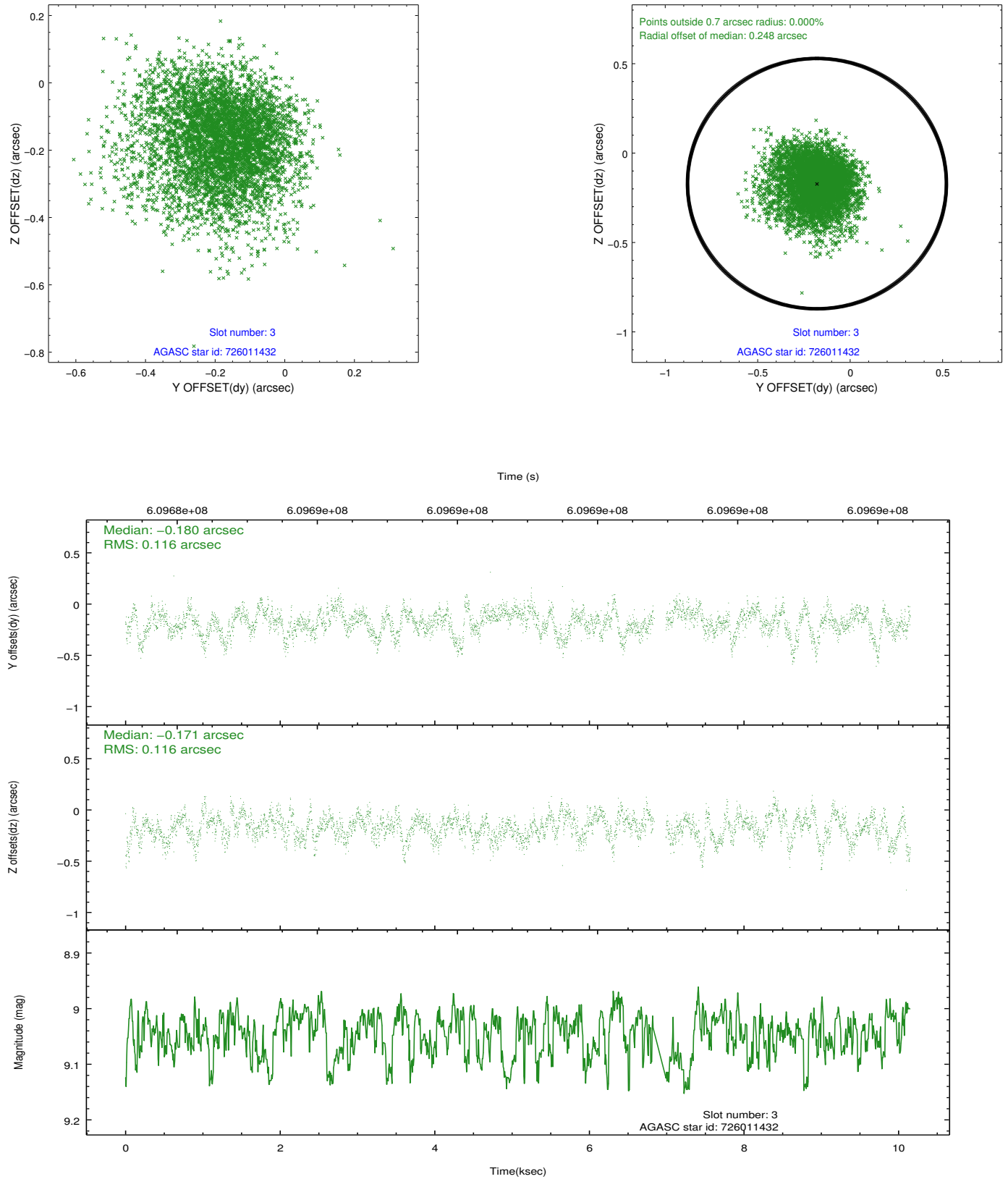


### Slot Statistics

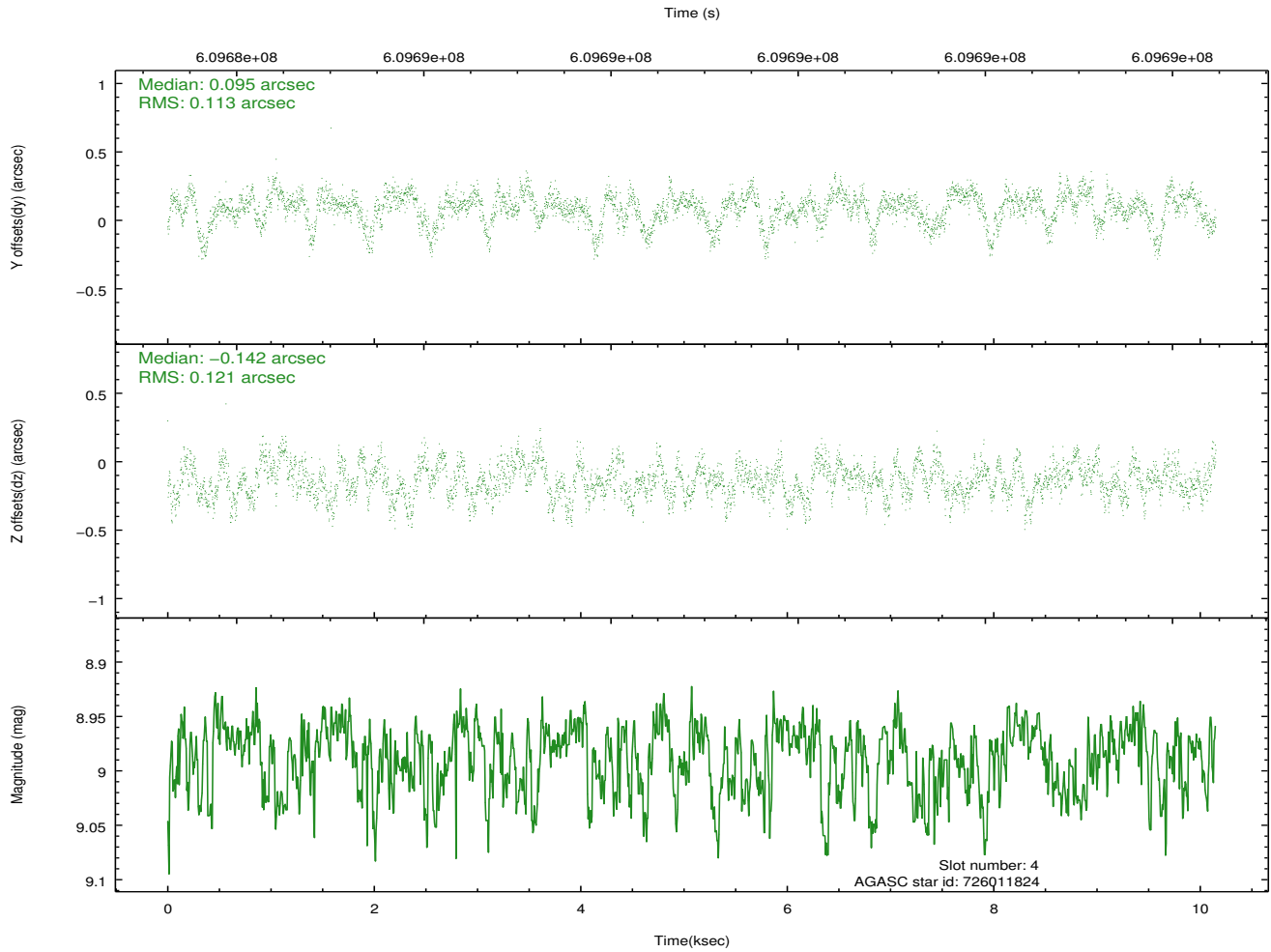
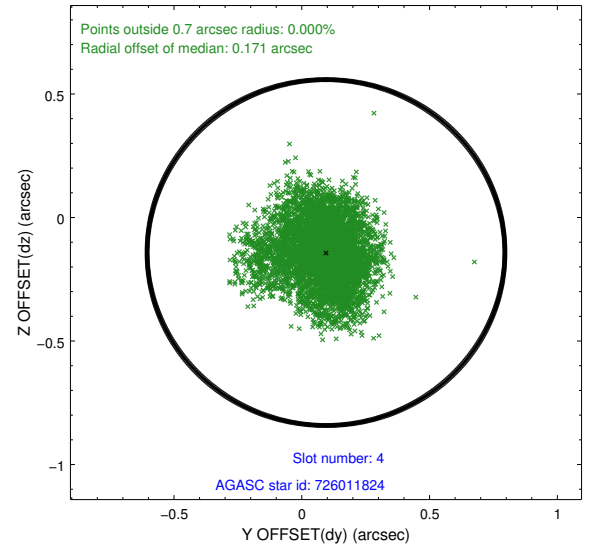
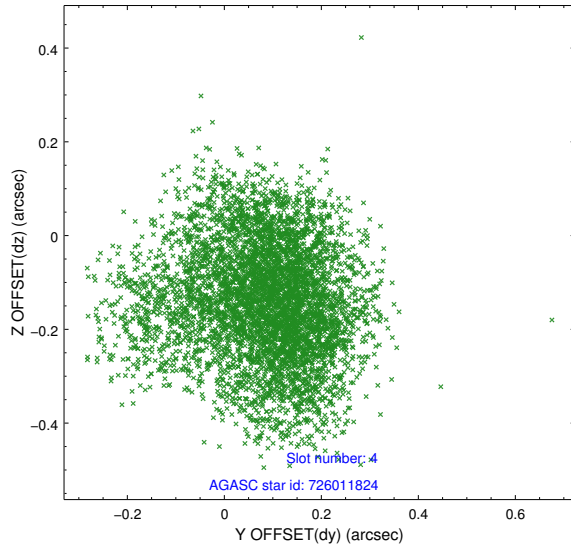
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.03	2476	-0.192	0.006	0.014	0.022	0.000000	0.000000	-778.70	-1309.25
1	FID		HRC-I-2	7.05	2476	0.336	-0.113	0.011	0.022	0.000000	0.000000	834.15	-1311.40
2	FID		HRC-I-3	7.12	2475	-0.026	0.016	0.009	0.018	0.000000	0.000000	-1206.76	994.78
3	GUIDE	used	726011432	9.04	4872	-0.180	-0.171	0.173	0.285	196.510178	-11.028089	1758.60	466.80
4	GUIDE	used	726011824	8.99	4951	0.095	-0.142	0.179	0.284	196.423844	-10.501884	-135.35	162.26
5	GUIDE	used	726013704	9.51	4945	0.042	0.238	0.243	0.391	195.983528	-10.966605	1538.12	-1393.50
6	GUIDE	used	726149144	9.49	4934	-0.053	-0.037	0.256	0.448	196.621344	-10.461782	-280.22	858.75
7	GUIDE	used	726150160	8.97	4944	0.108	0.108	0.146	0.240	196.601702	-10.051442	-1757.27	793.35

## 2.4 Star Slots

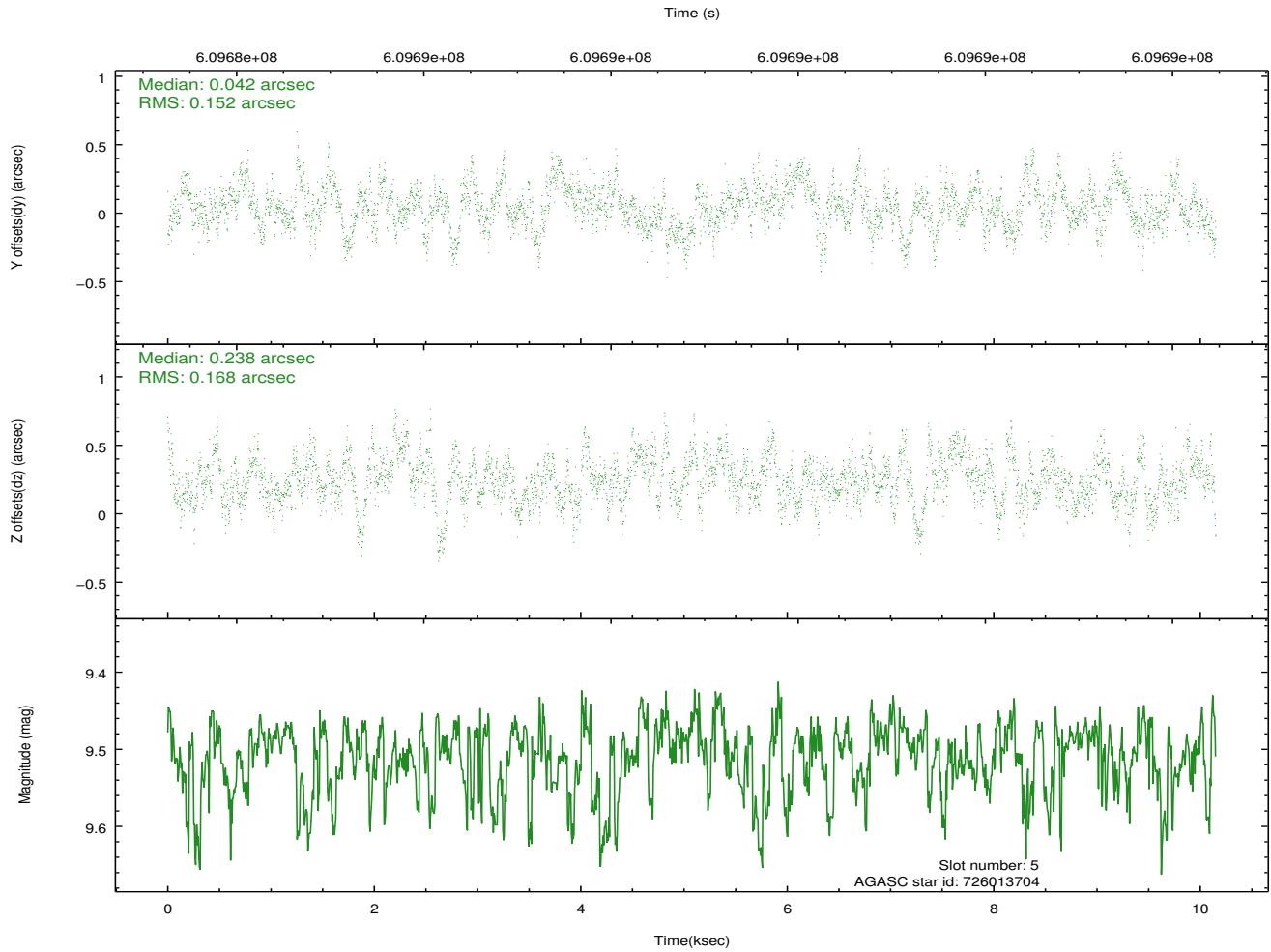
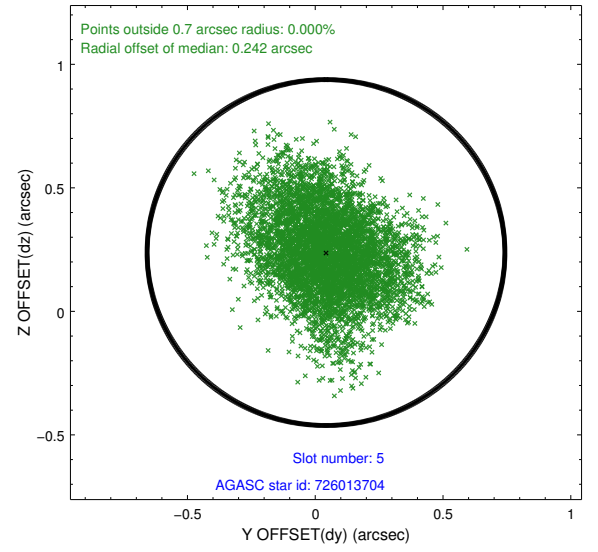
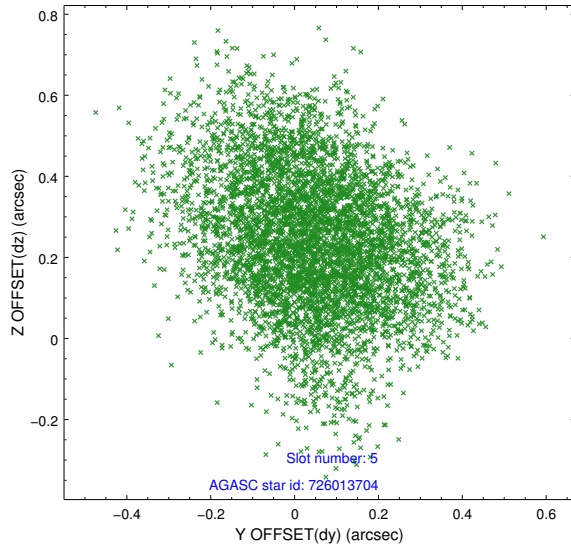
### 2.4.1 Slot 3



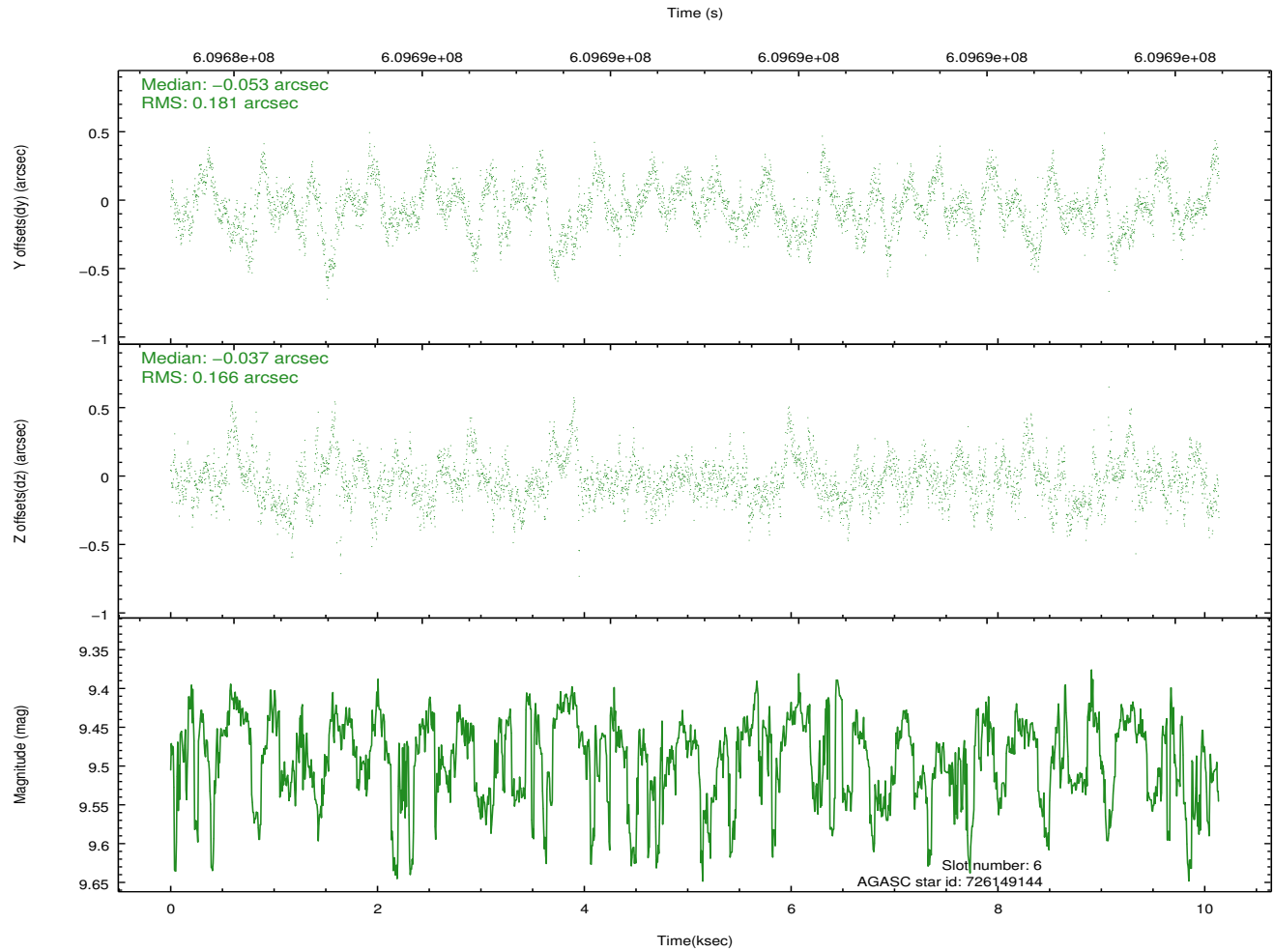
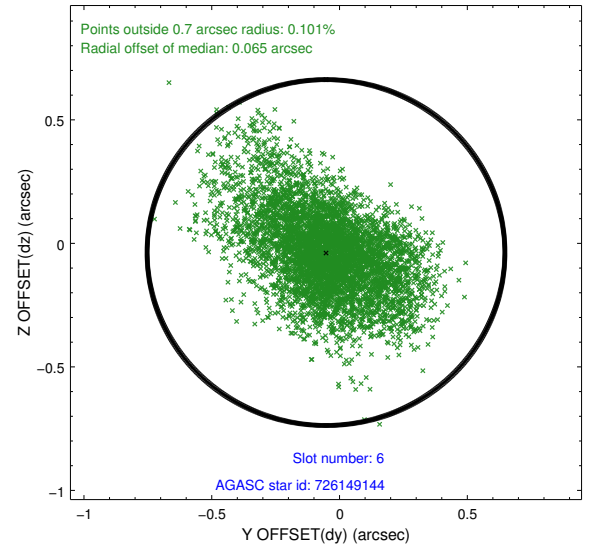
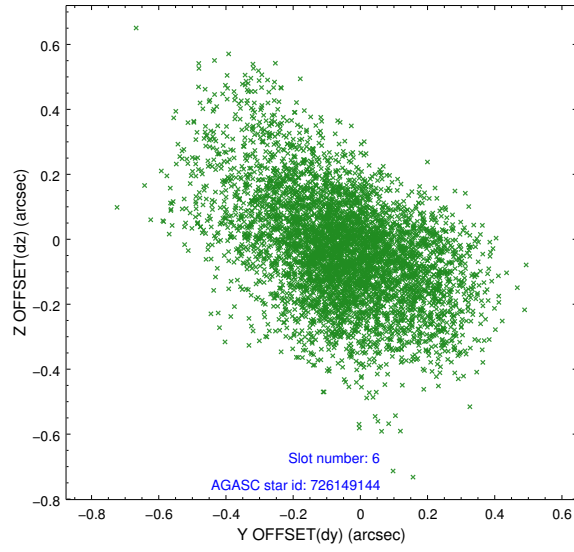
## 2.4.2 Slot 4



### 2.4.3 Slot 5

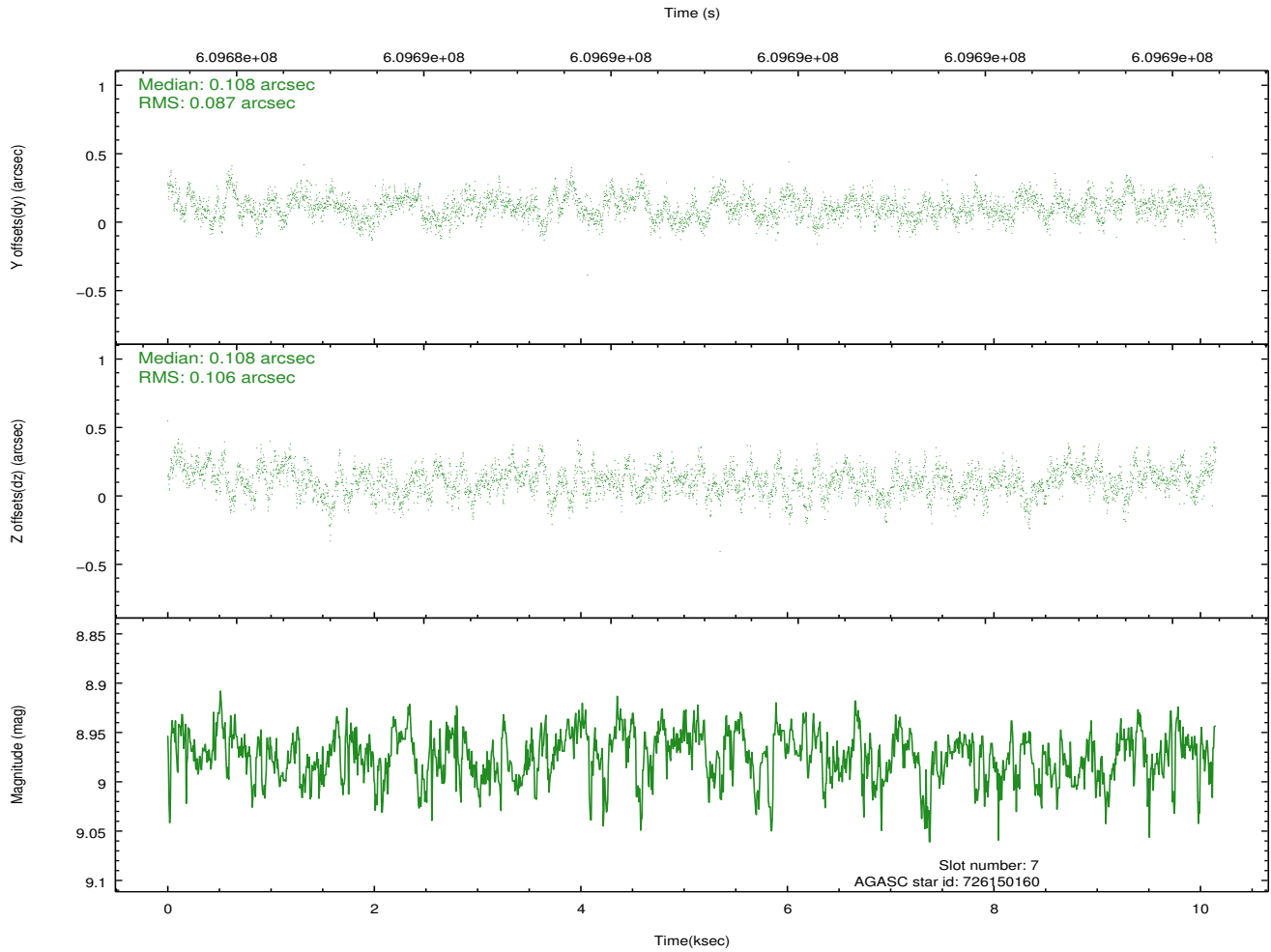
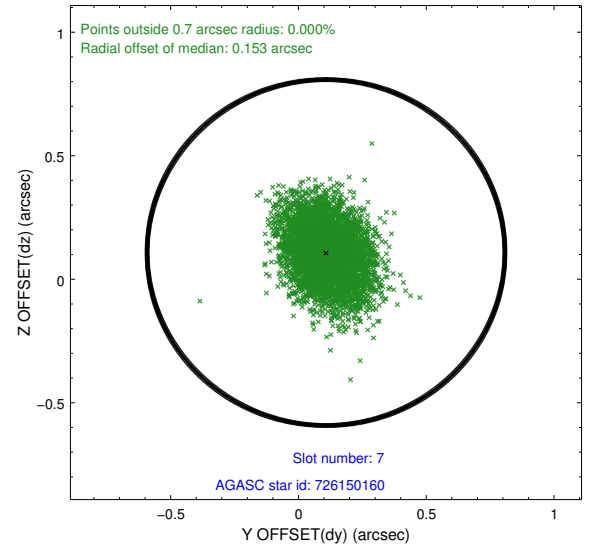
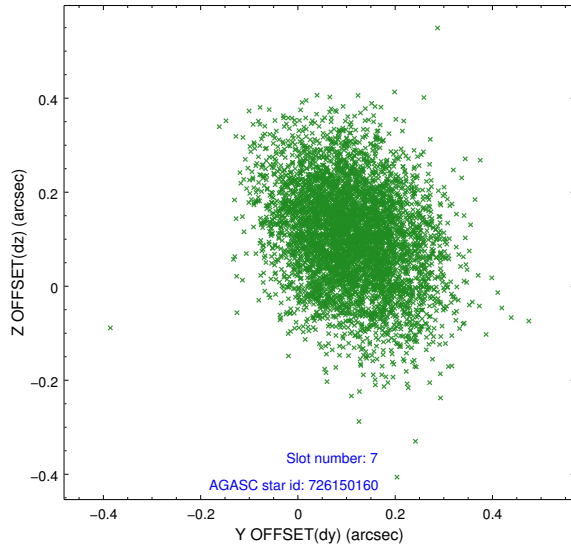


## 2.4.4 Slot 6



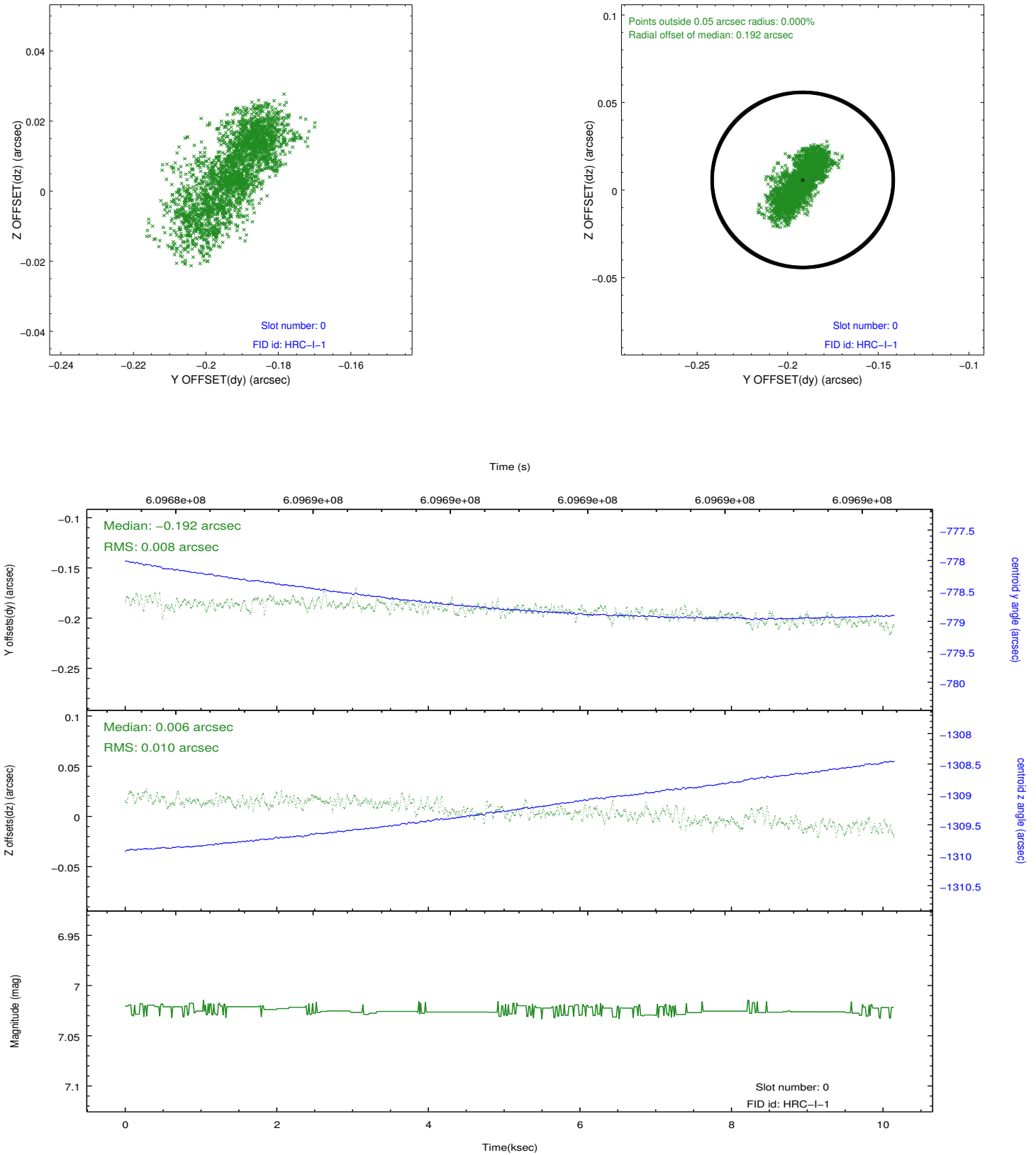


## 2.4.5 Slot 7

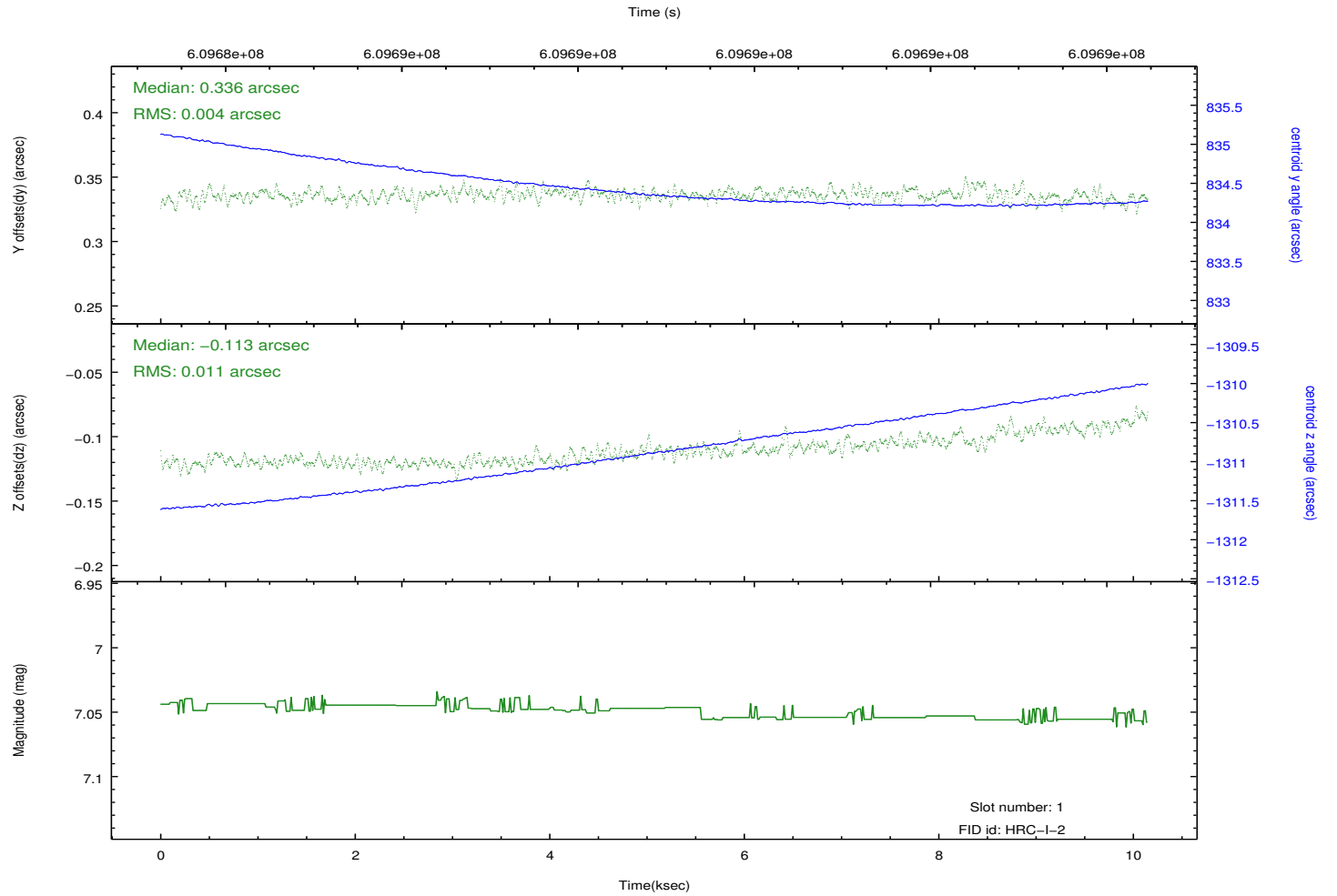
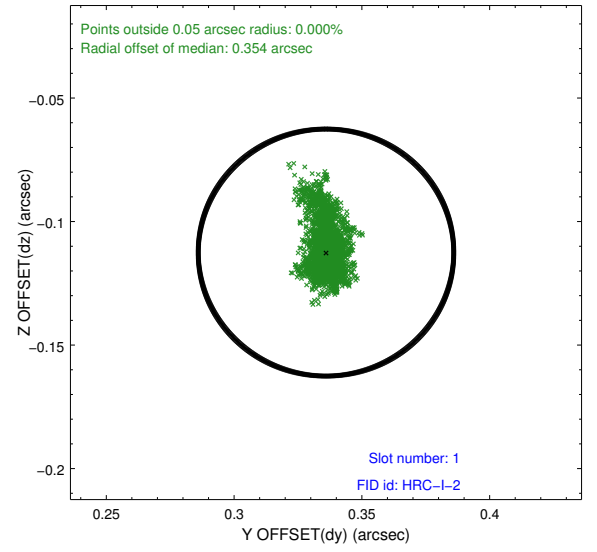
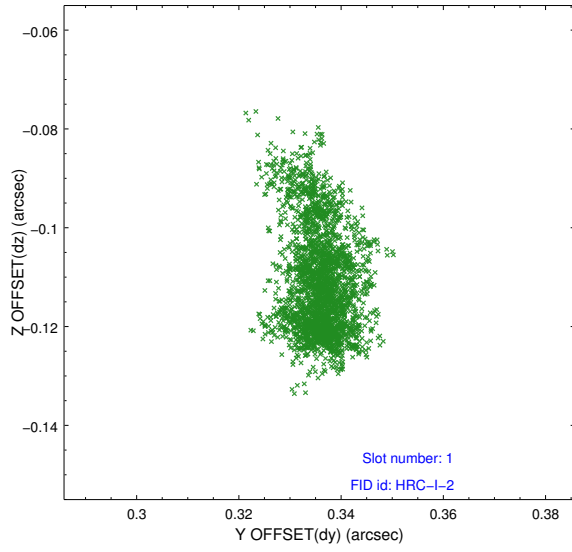


## 2.5 FID Slots

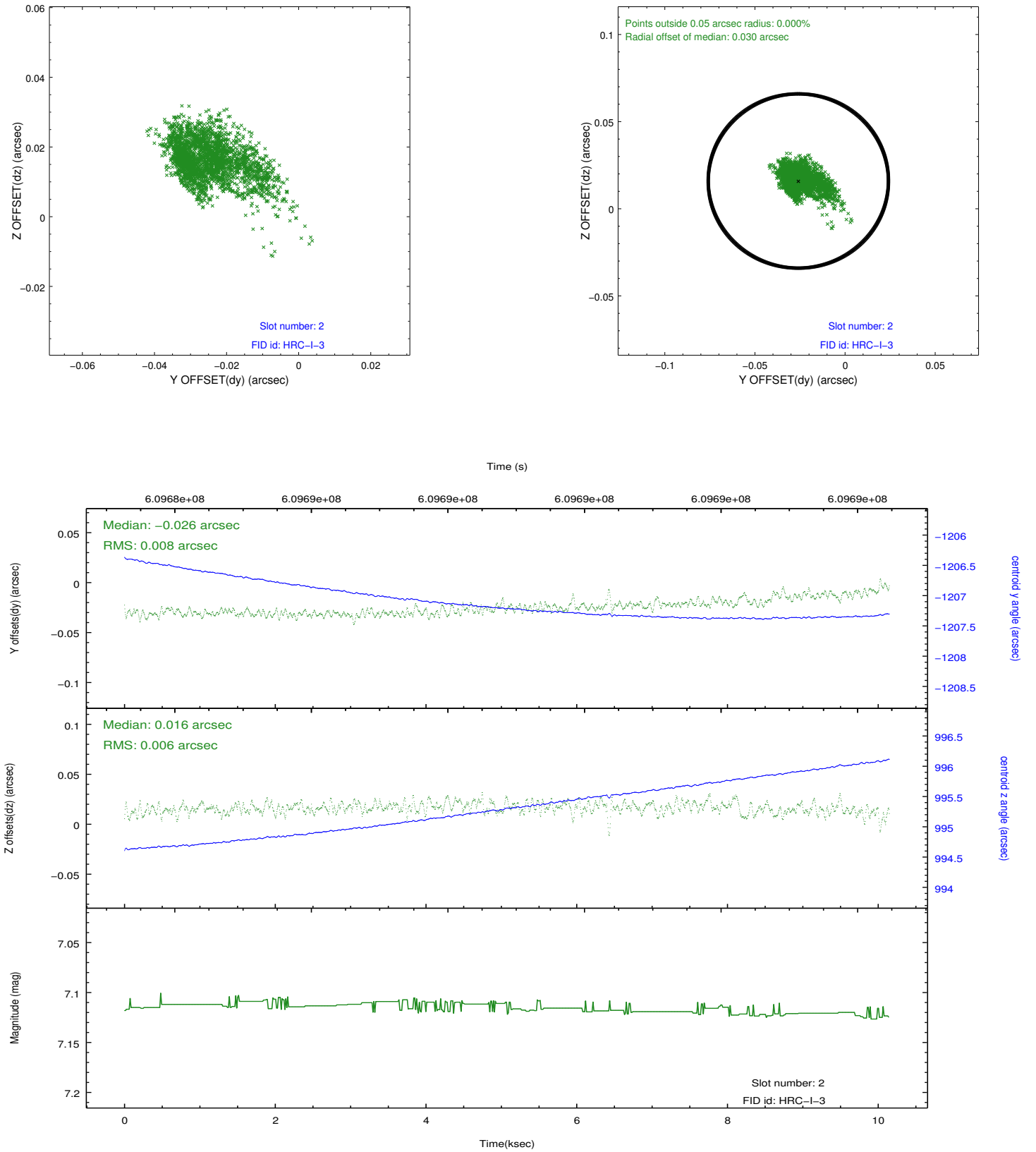
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.04.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9704318299294

### A.2 Comments