

# V&V Reference Report

## L2 ASCDS Version : 10.5

Observation 18410 - L2 Version 1  
Chandra X-Ray Center

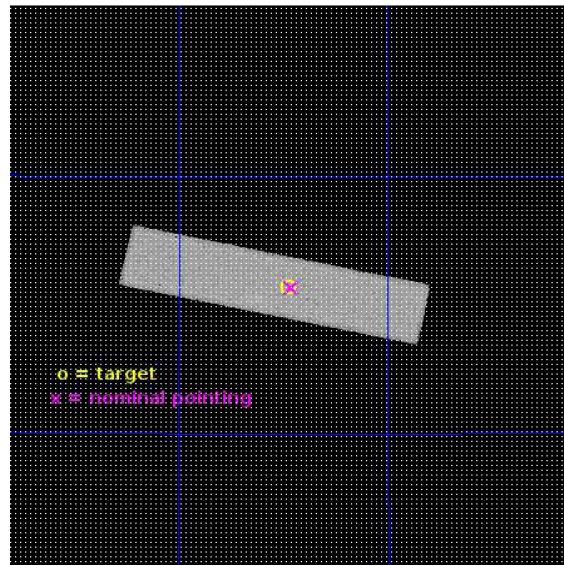
L2 Processing Date : Jul 11 2016

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# 1 Front

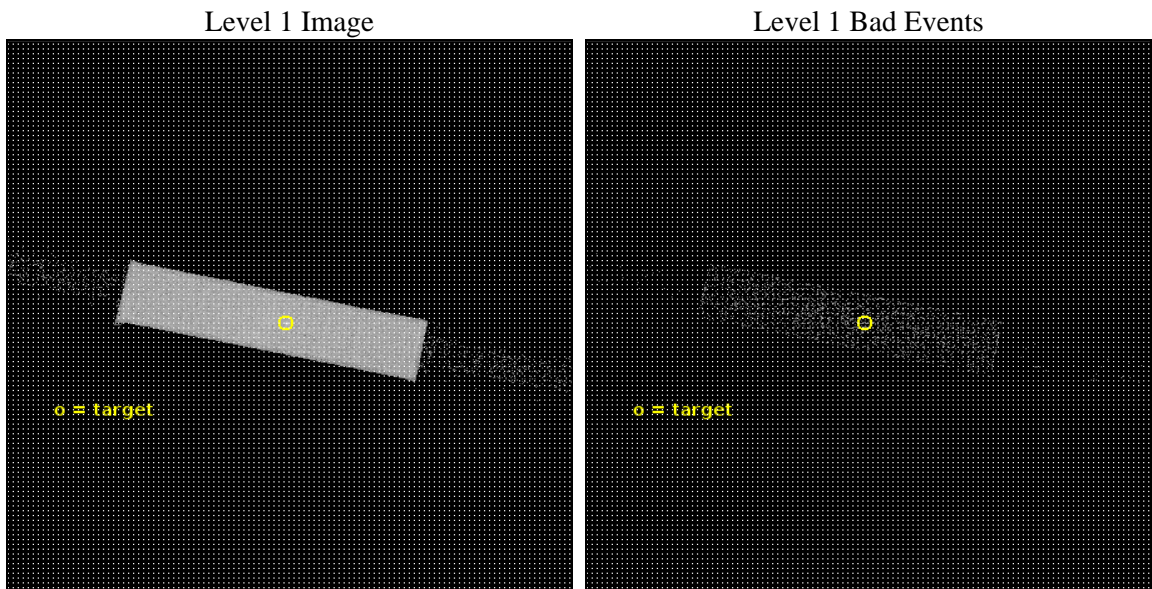
seq_num	291305	Sequence number
obs_id	18410	Observation id
title	AO-17 Measurements of the optical/UV Transmission of the HRC Filters.	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235833	Observer's specified target RA [deg]
dec_targ	38.78475	Observer's specified target Dec [deg]
ra_nom	279.22963740983	Nominal RA [deg]
dec_nom	38.783776784392	Nominal Dec [deg]
roll_nom	191.74436060269	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2186.5813755989	[s]
livetime	2171.9396123901	Ontime multiplied by DTCOR
l2events	108843	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	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	2186.5813755989	[s]
caldbver	4.7.2	&#160	l1events	182964	Number of level 1 events
date	2016-07-11T07:29:18	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

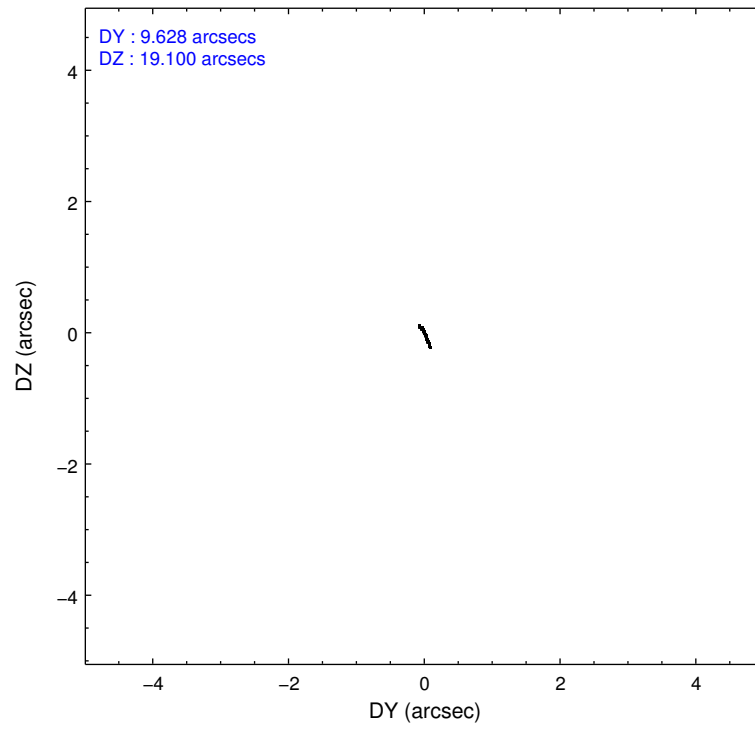
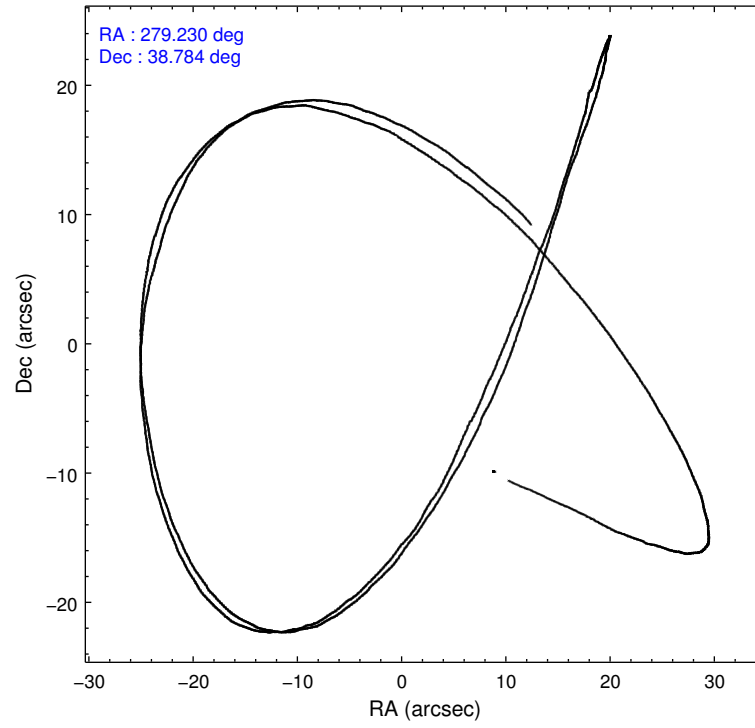
Level 1 Events

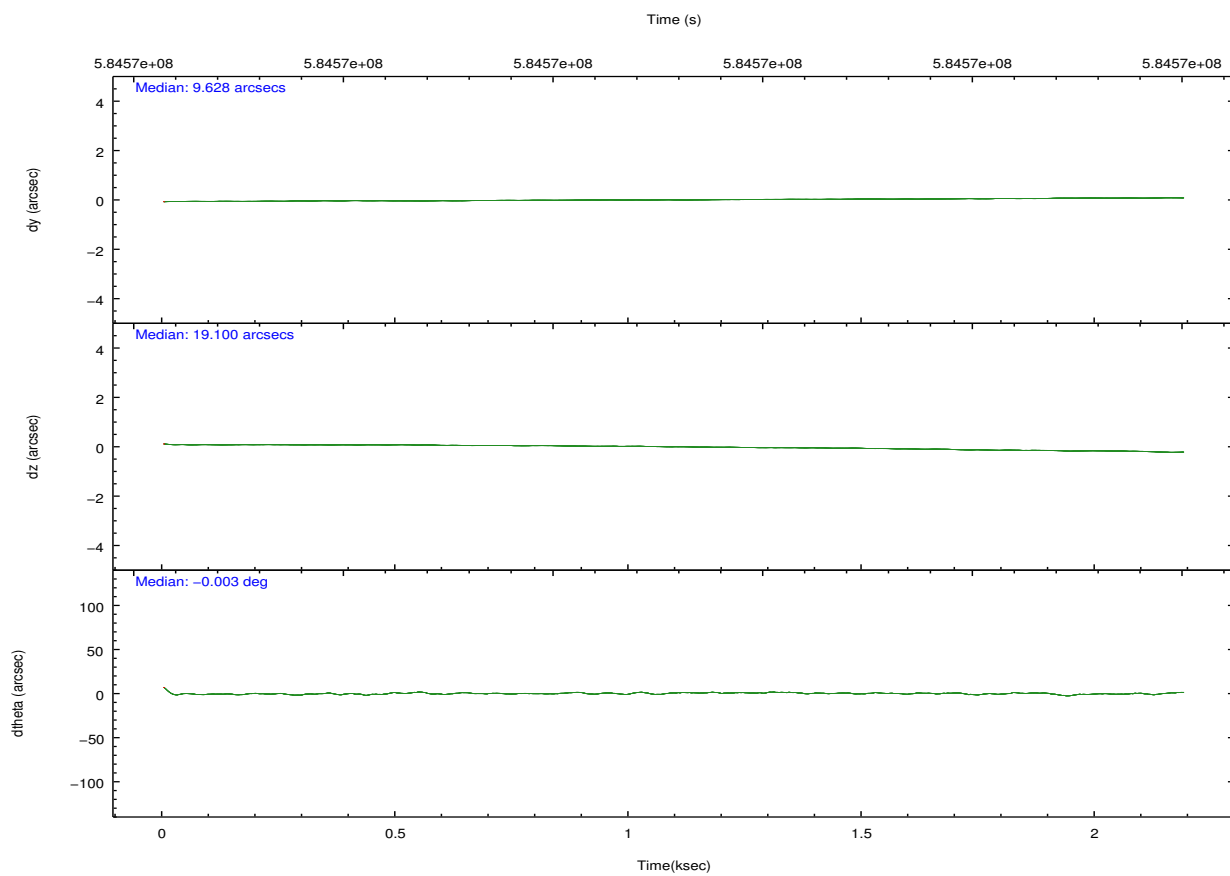
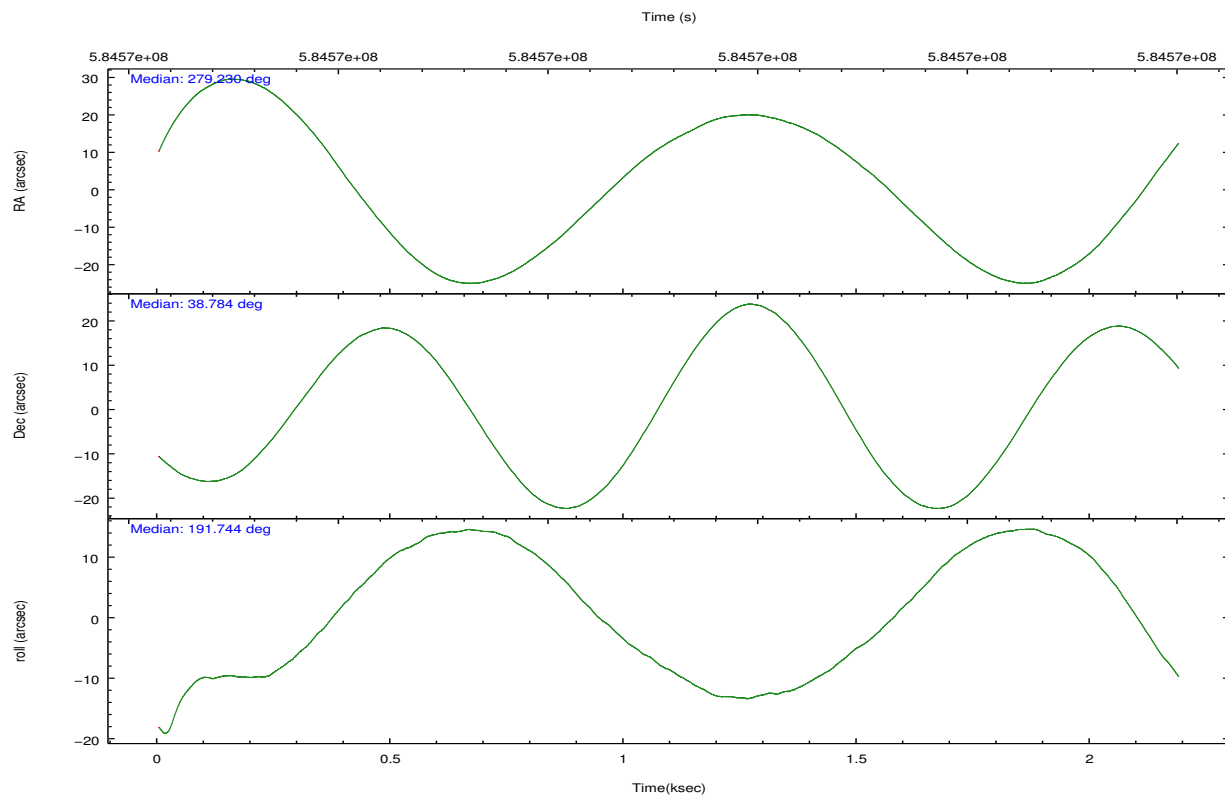
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	843	181312	809
rejected events	843	53505	809
rejected %	100%	29%	100%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	279.256059	279.2296374098343			
[deg] Pointing Dec	38.804003	38.78377678439235			
[deg] Pointing Roll	191.660566	191.7443606026919			
[s] Window start time (MET)	581126468.184000	581126468.184000			
[s] Window stop time (MET)	586310468.184000	586310468.184000			
[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)	584571393.184000	584570402.15911			
Observation start date	2016-07-10T20:55:25	2016-07-10T20:40:02			
[s] Observation end time (MET)	584573393.184000	584573526.8717901			
Observation end date	2016-07-10T21:28:45	2016-07-10T21:32:06			

## 2.3 Aspect





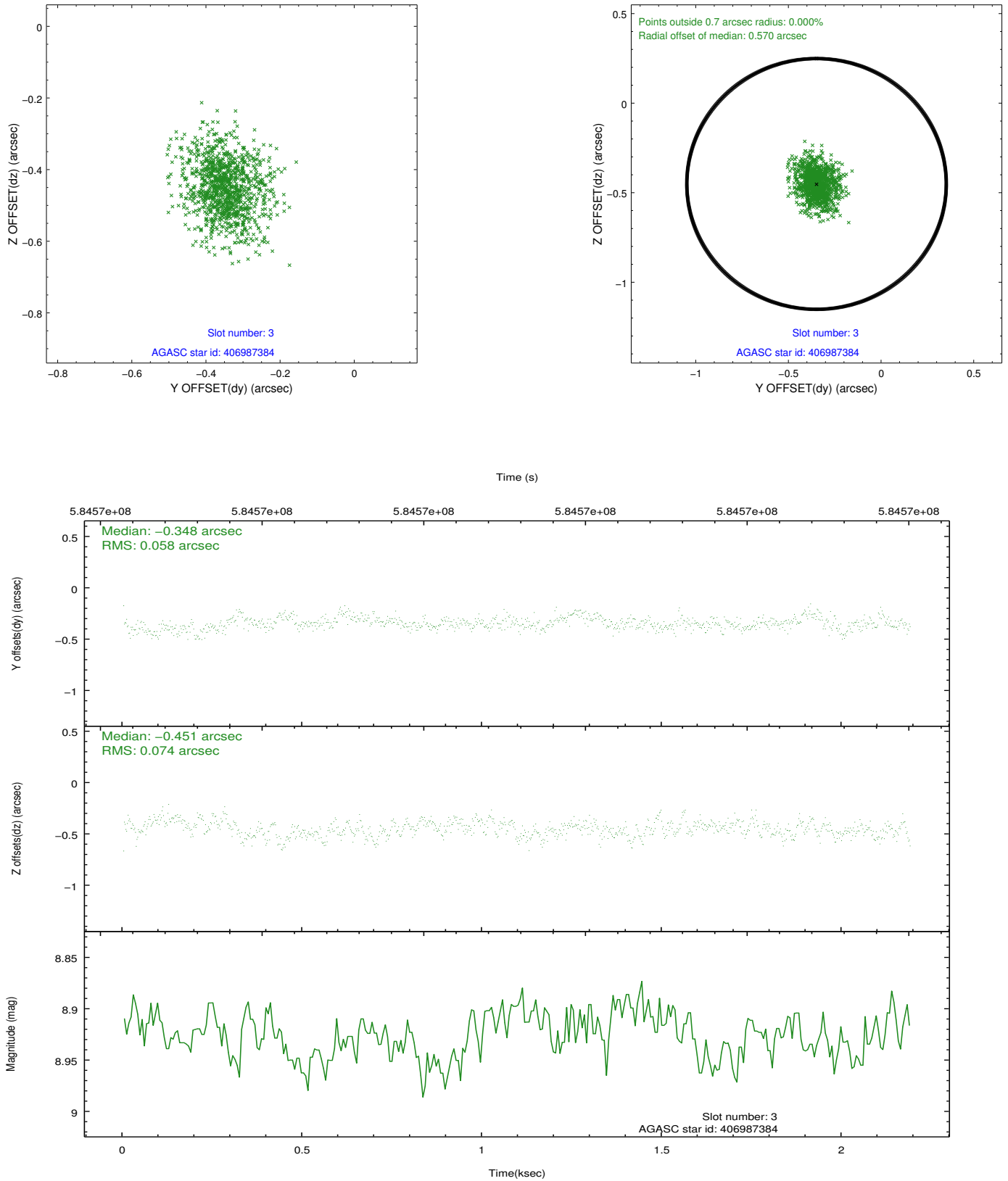
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-2	7.05	534	0.199	-0.144	0.010	0.019	0.000000	0.000000	1235.91	-460.67
1	FID		HRC-S-3	7.07	534	-0.048	-0.071	0.006	0.011	0.000000	0.000000	-1164.39	560.74
2	FID		HRC-S-4	7.05	534	0.255	-0.080	0.011	0.020	0.000000	0.000000	1232.38	565.17
3	GUIDE	used	406987384	8.92	1068	-0.348	-0.451	0.100	0.167	278.815518	38.115336	1722.53	2172.75
4	GUIDE	used	406989616	8.20	1068	-0.196	-0.214	0.093	0.160	279.202881	38.520843	354.43	970.07
5	GUIDE	used	406990192	8.97	1068	-0.007	0.038	0.105	0.173	278.510952	38.533654	2250.58	521.94
6	GUIDE	used	407521232	8.61	1068	0.265	0.262	0.110	0.197	279.628883	39.431715	-1469.80	-2004.75
7	GUIDE	used	407513096	8.11	1067	0.287	0.374	0.086	0.128	279.928965	39.436841	-2295.03	-1861.22

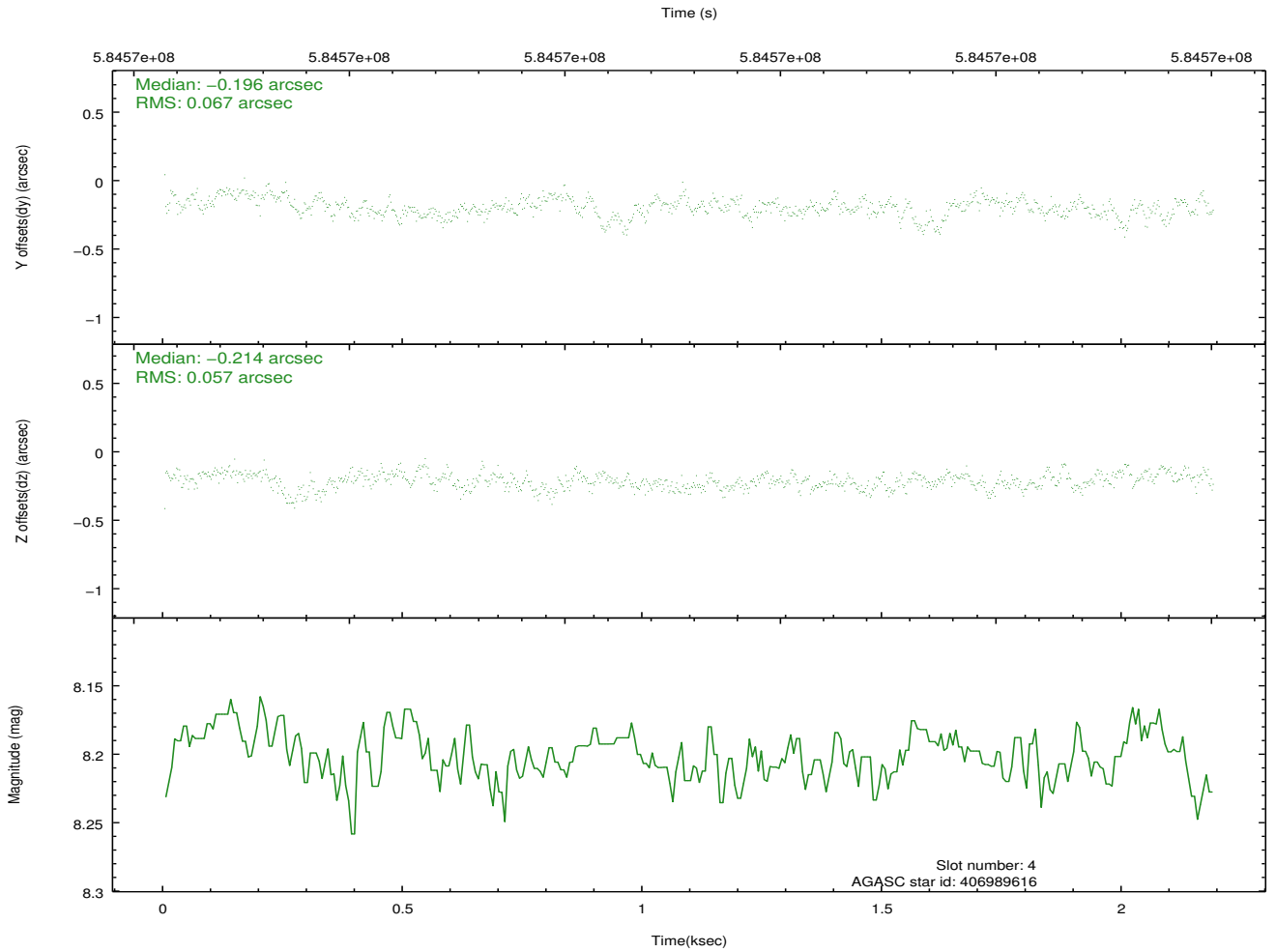
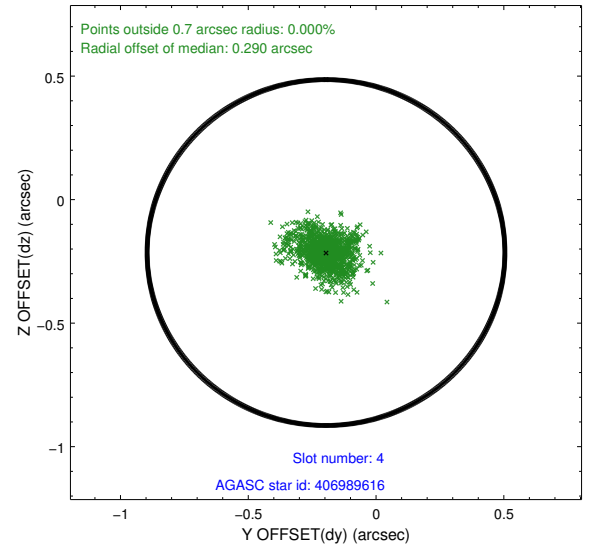
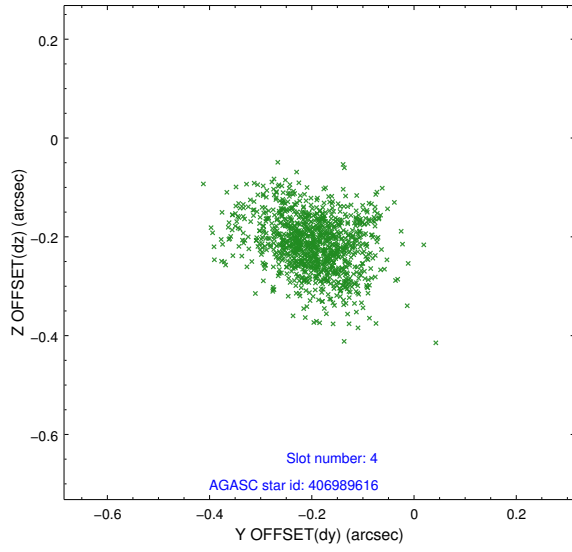


## 2.4 Star Slots

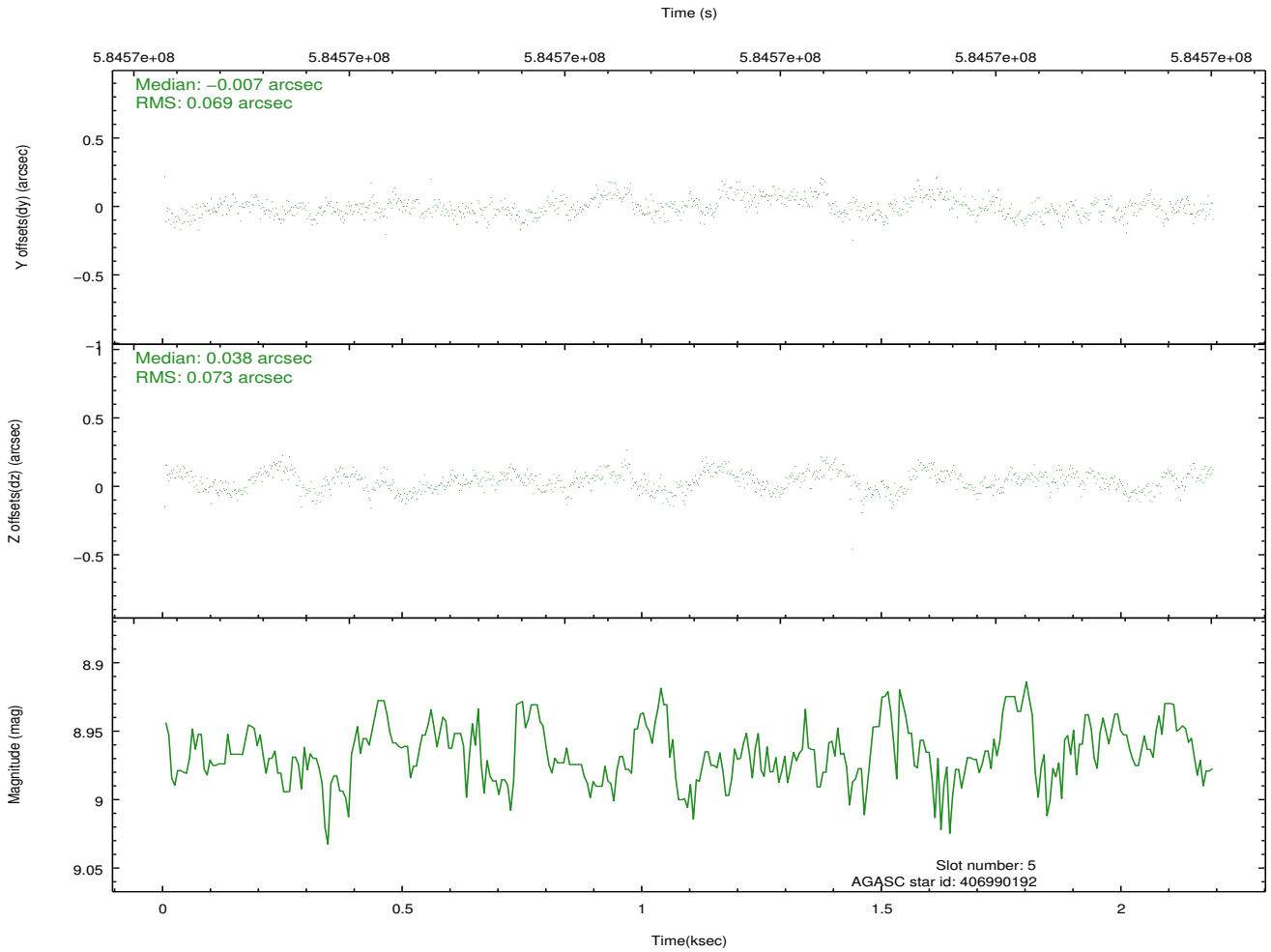
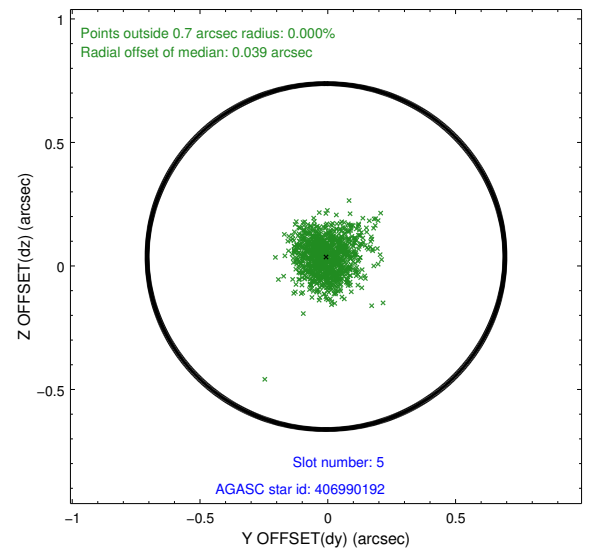
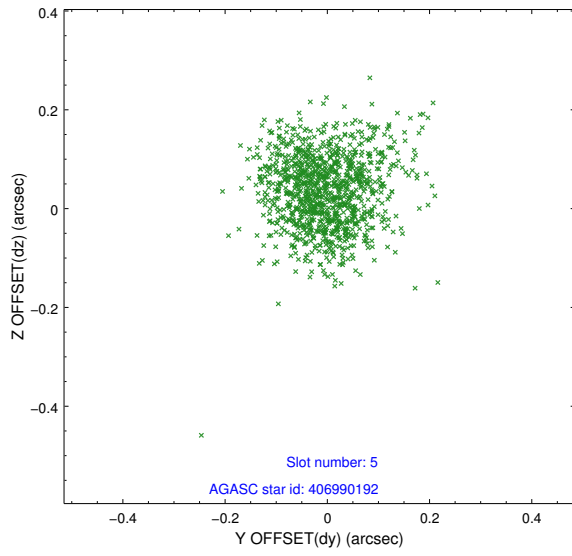
### 2.4.1 Slot 3



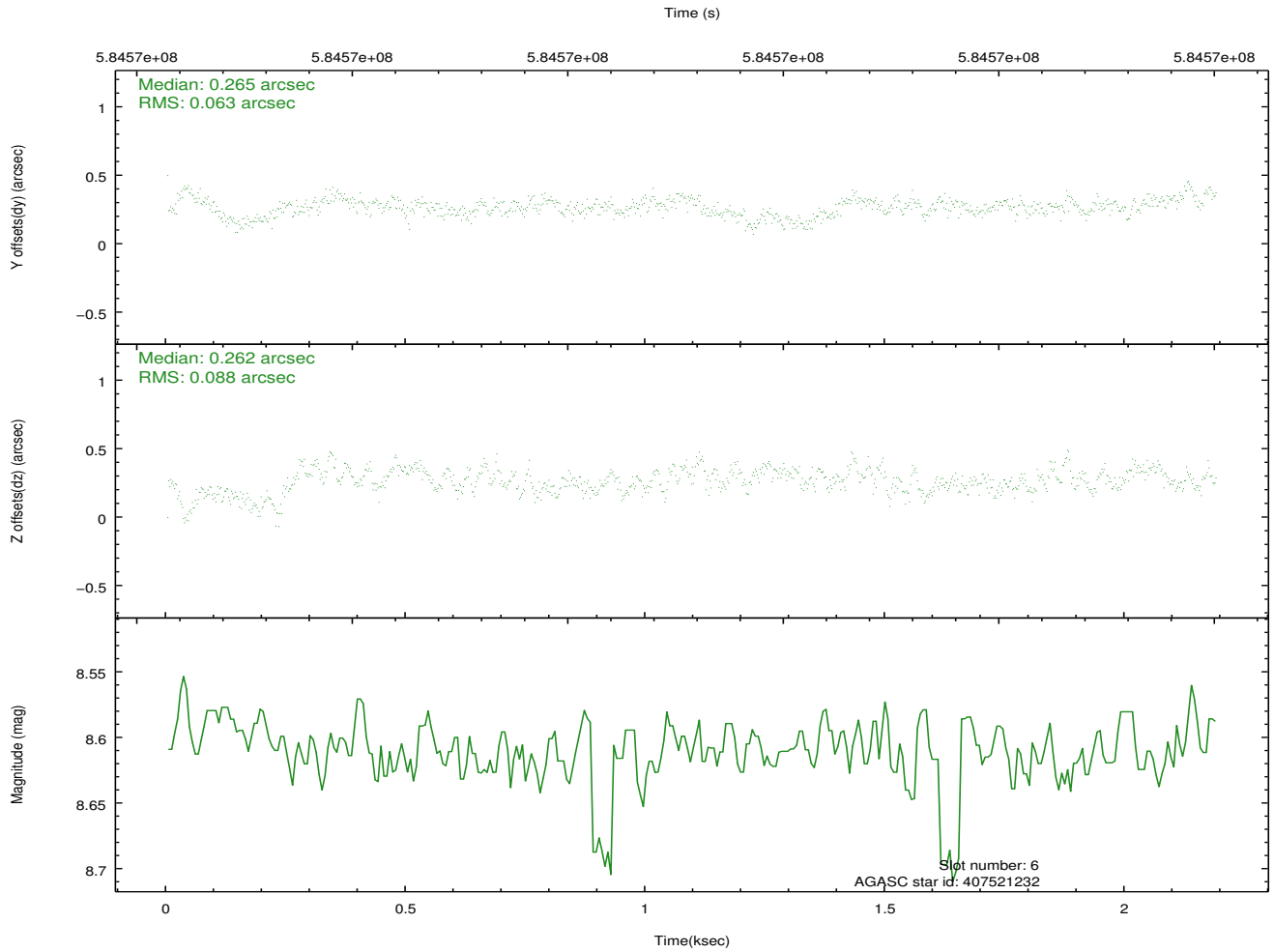
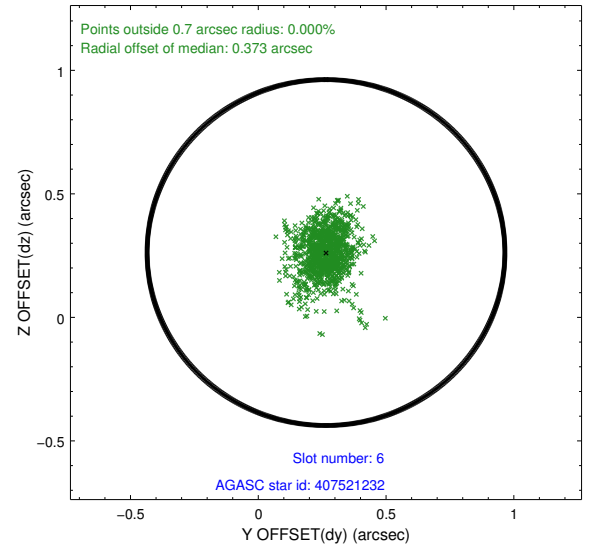
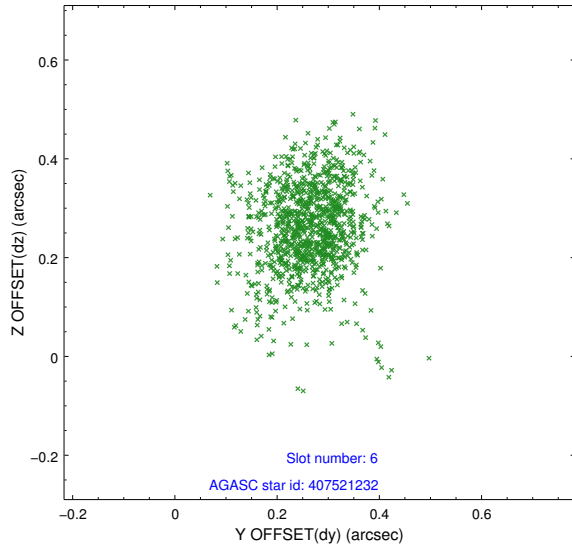
## 2.4.2 Slot 4



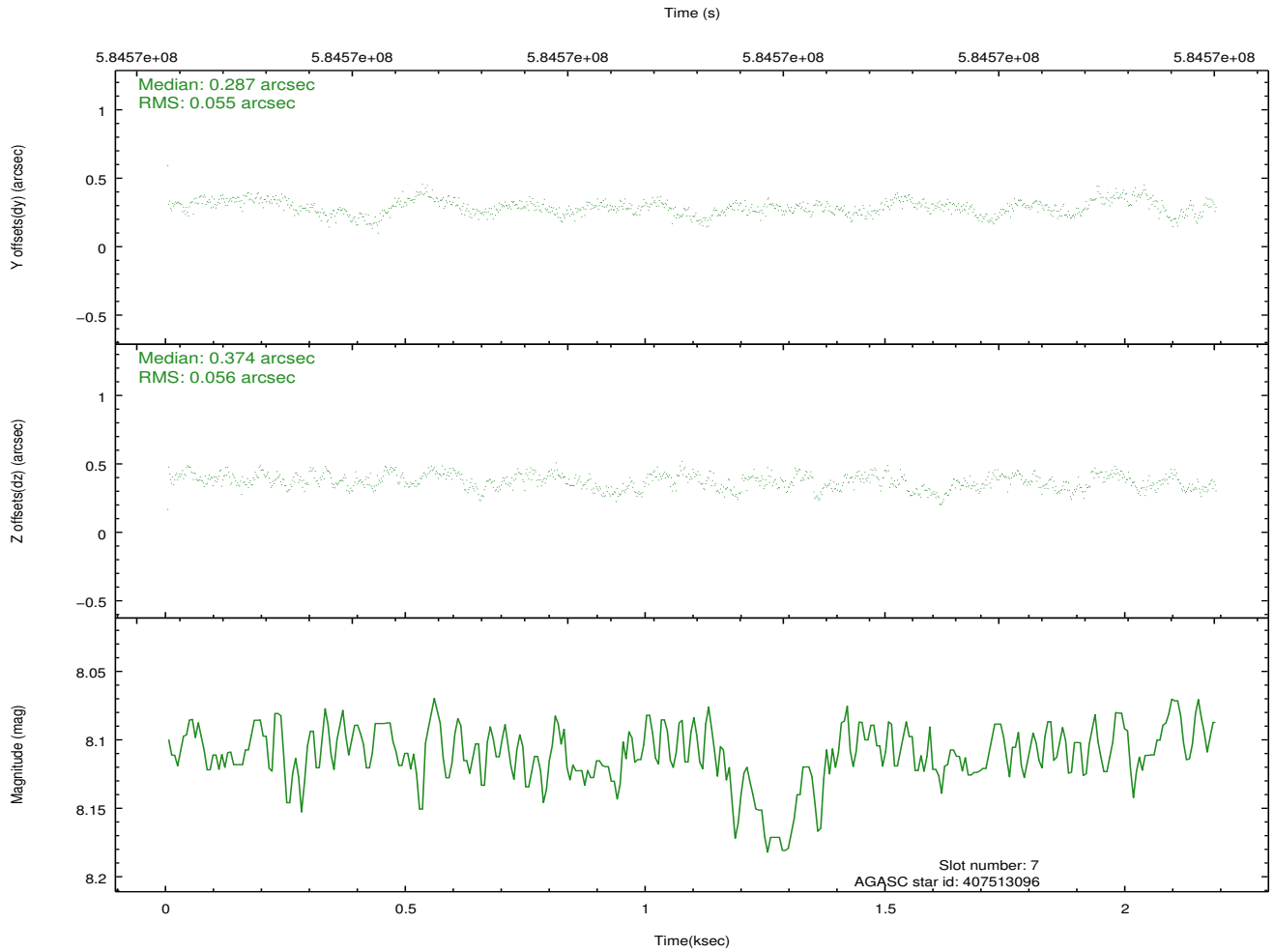
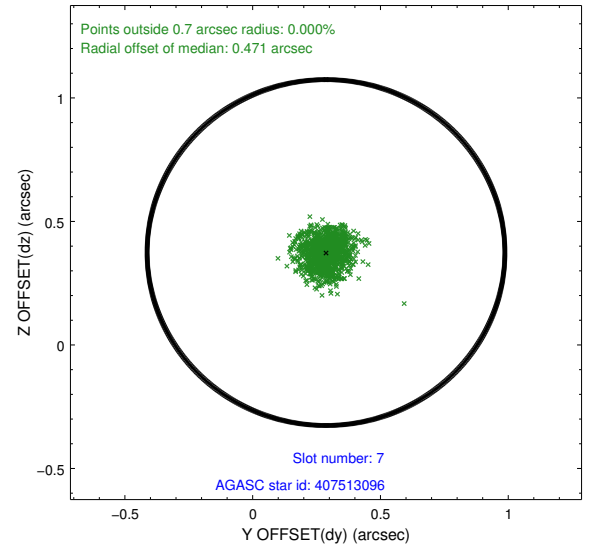
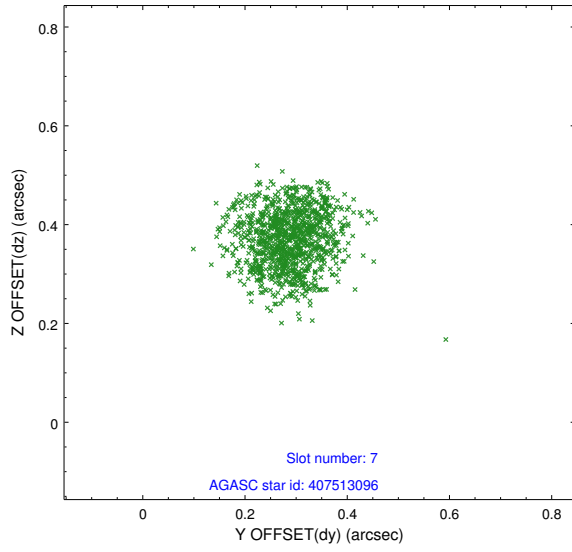
### 2.4.3 Slot 5



## 2.4.4 Slot 6

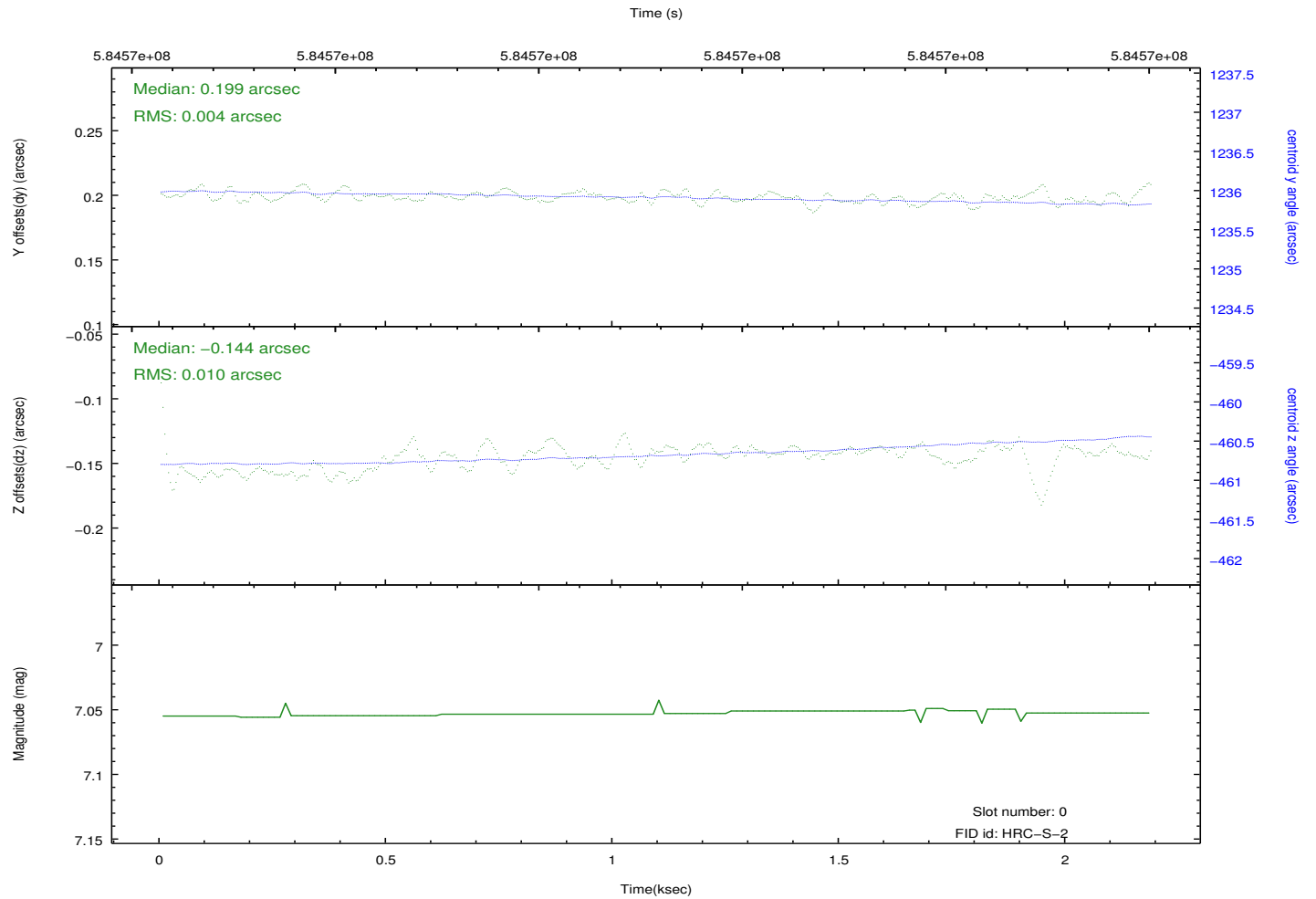
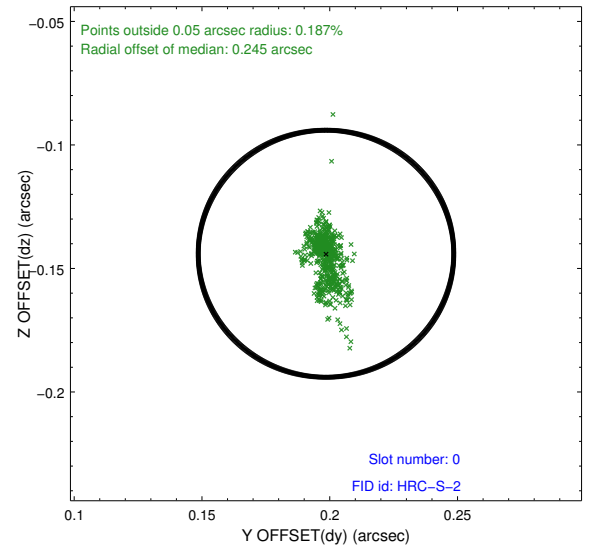
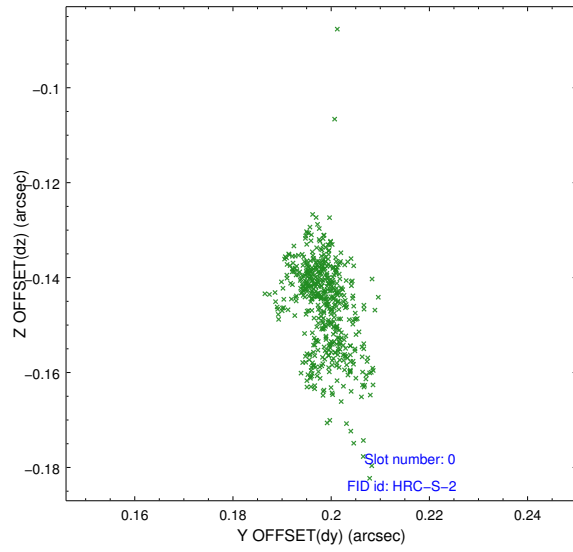


## 2.4.5 Slot 7

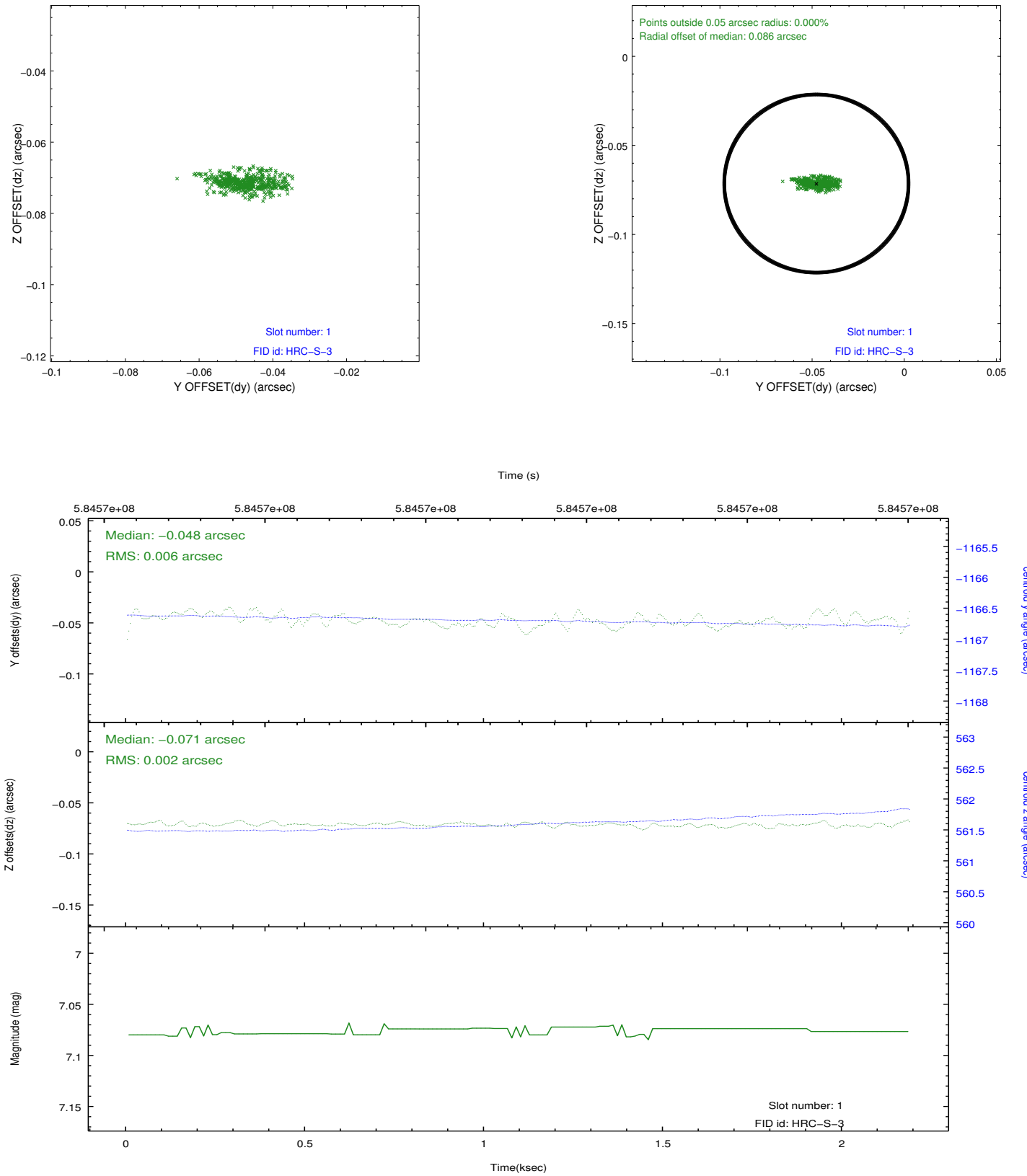


## 2.5 FID Slots

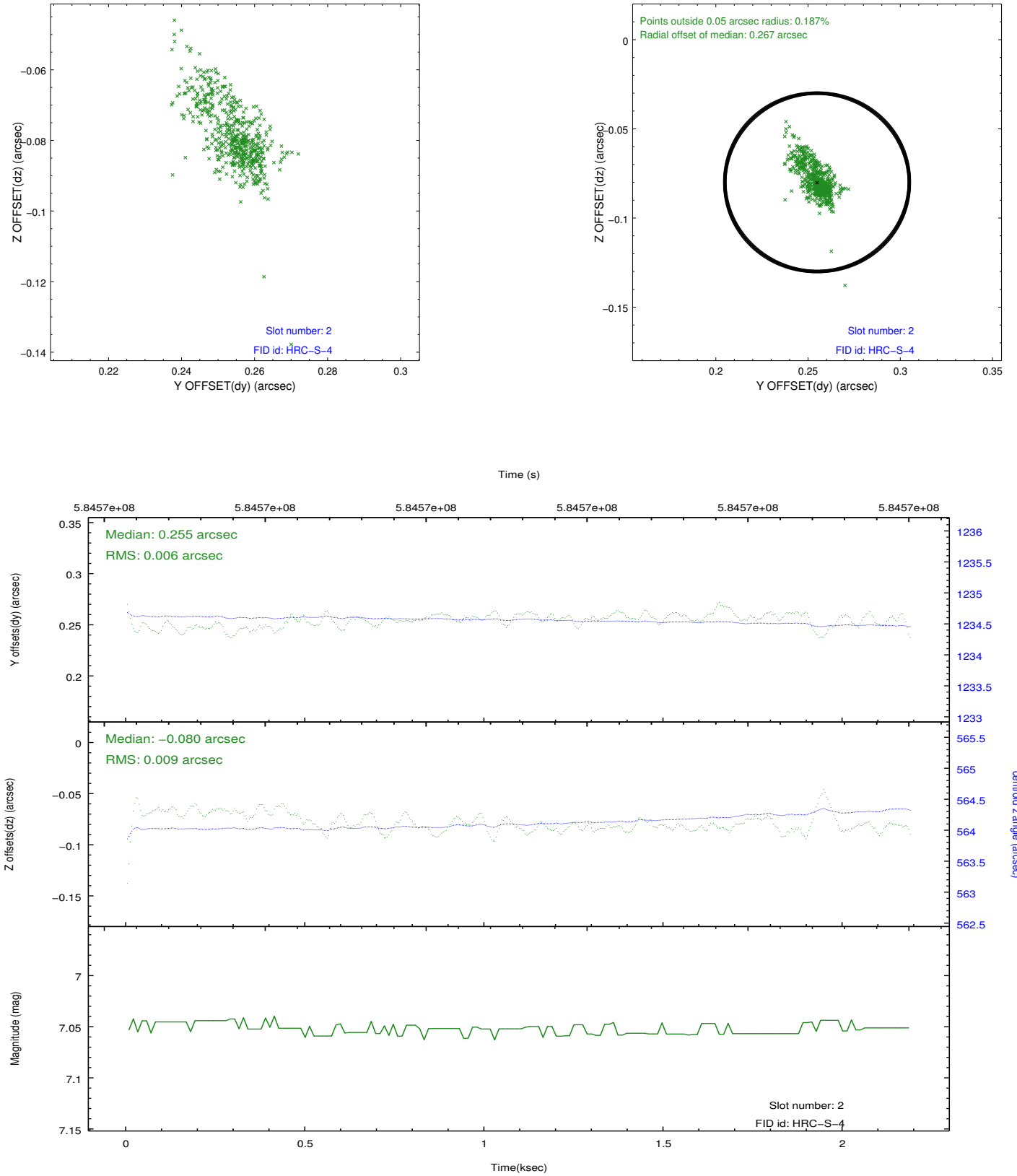
### 2.5.1 Slot 0



## 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)	2016.07.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.1865813755989

### A.2 Comments