

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2441 - L2 Version 5  
Chandra X-Ray Center

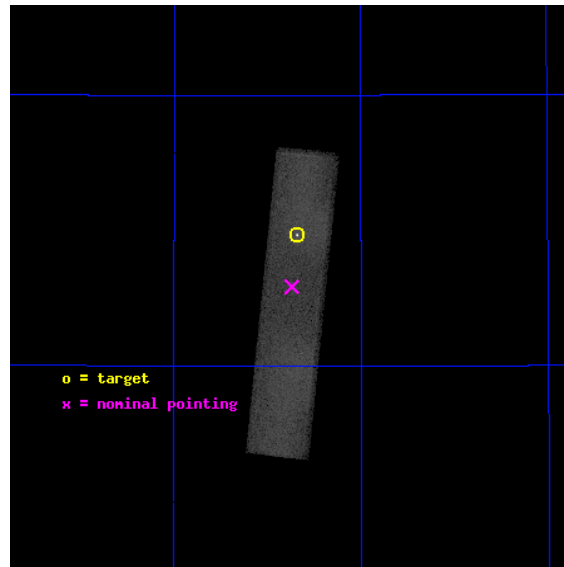
L2 Processing Date : Sep 18 2012

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# 1 Front

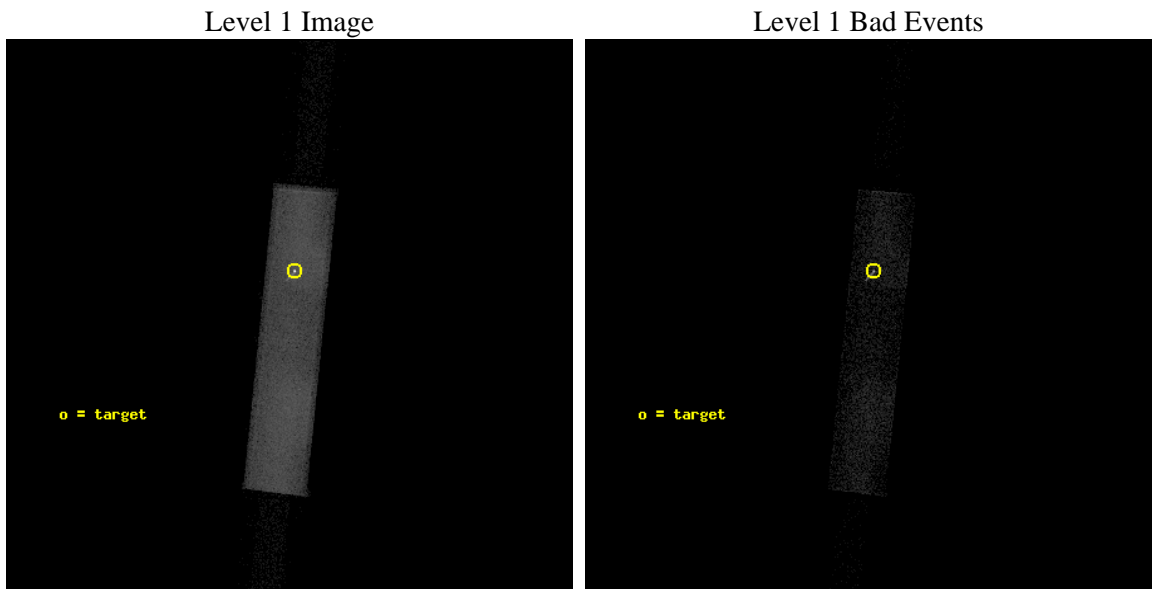
seq_num	290078	Sequence number
obs_id	2441	Observation id
title	HRC-I CALIBRATION OBSERVATIONS OF ARLAC	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.18443752249	Nominal RA [deg]
dec_nom	45.646922587952	Nominal Dec [deg]
roll_nom	95.789698664108	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1375.8063034564	[s]
livetime	1353.9561601222	Ontime multiplied by DTCOR
l2events	112843	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	1234.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1375.8063034564	[s]
caldsver	4.5.1.1	&#160	l1events	168660	Number of level 1 events
date	2012-09-18T22:54:51	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

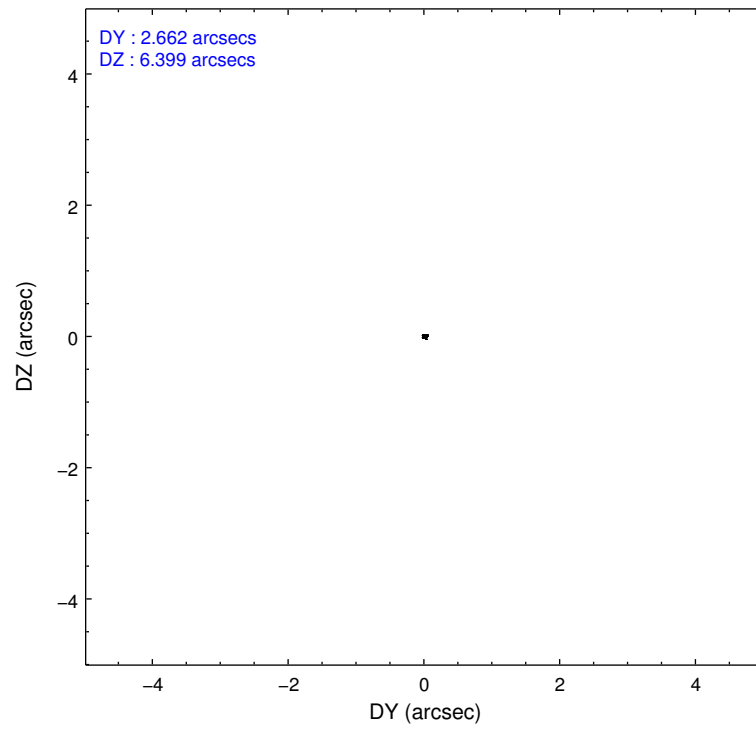
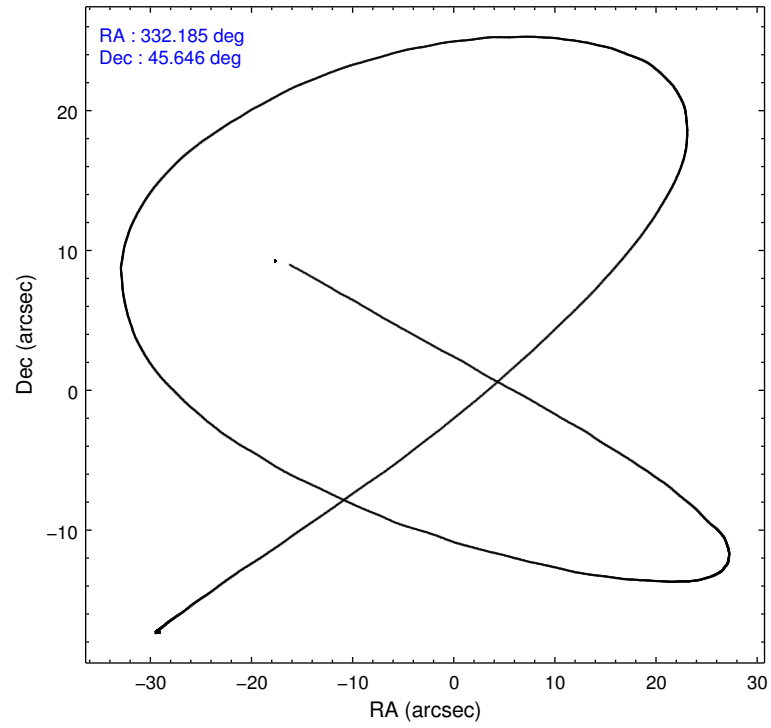
Level 1 Events

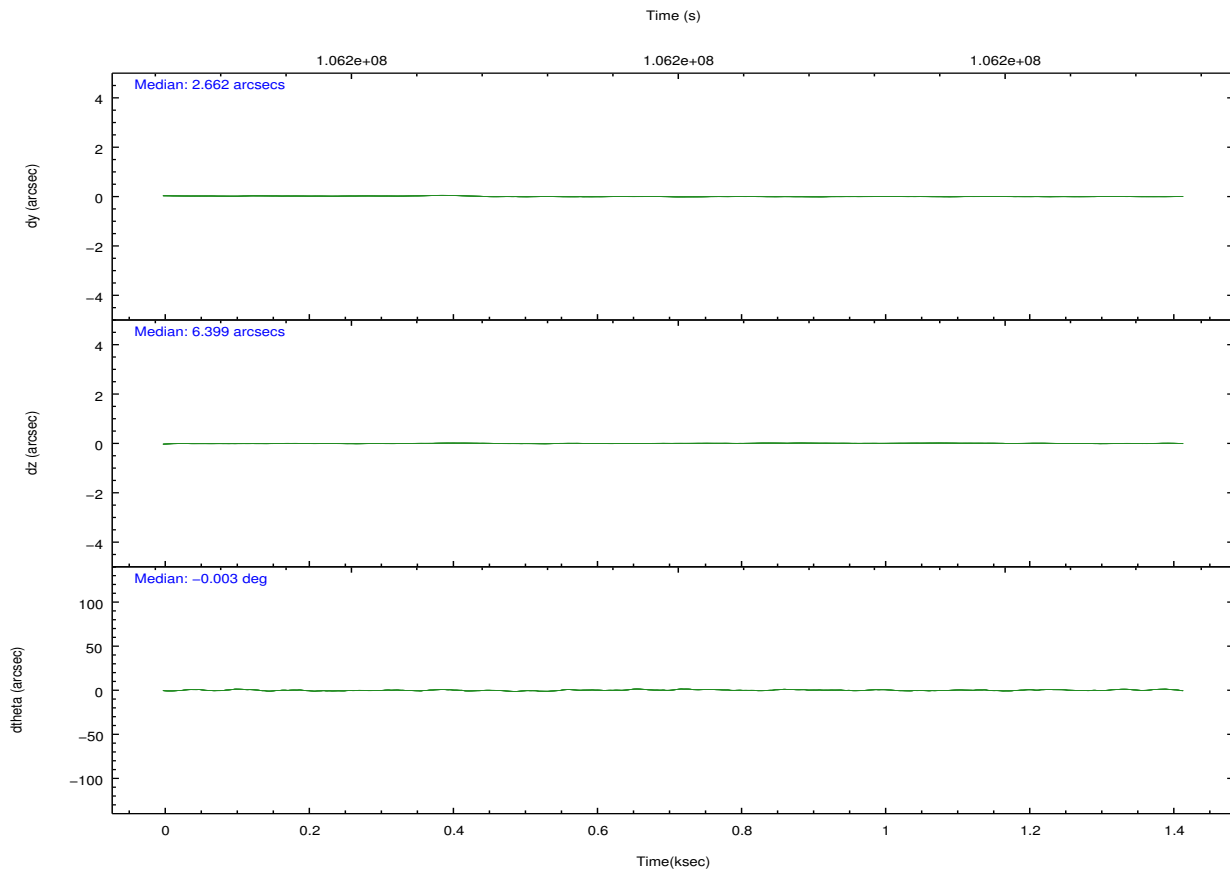
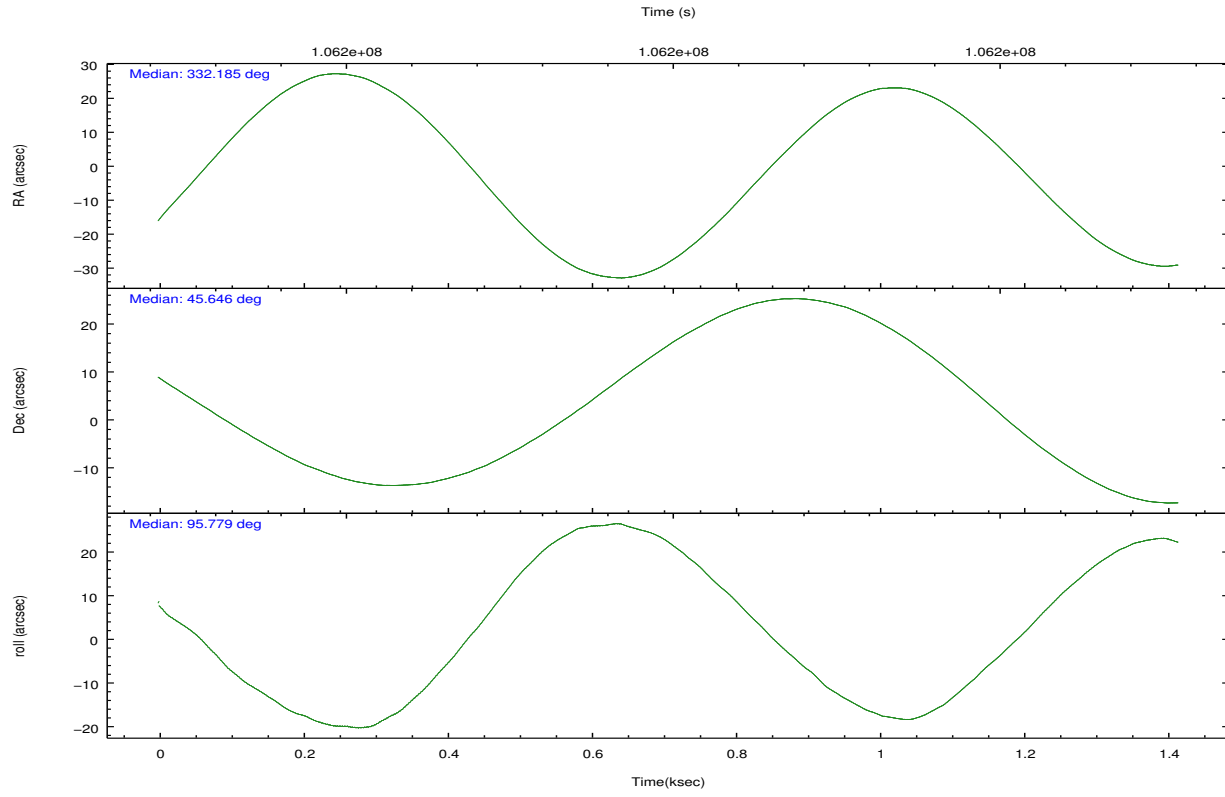
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	2502	163929	2229
rejected events	2502	38606	2229
rejected %	100%	23%	100%

## 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	332.209333	332.1844375224924			
[deg] Pointing Dec	45.625129	45.64692258795233			
[deg] Pointing Roll	95.704621	95.78969866410822			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	106203963.184000	106203587.02079			
Observation start date	2001-05-14T05:04:59	2001-05-14T04:59:47			
[s] Observation end time (MET)	106205197.184000	106205330.54586			
Observation end date	2001-05-14T05:25:33	2001-05-14T05:28:50			

## 2.3 Aspect





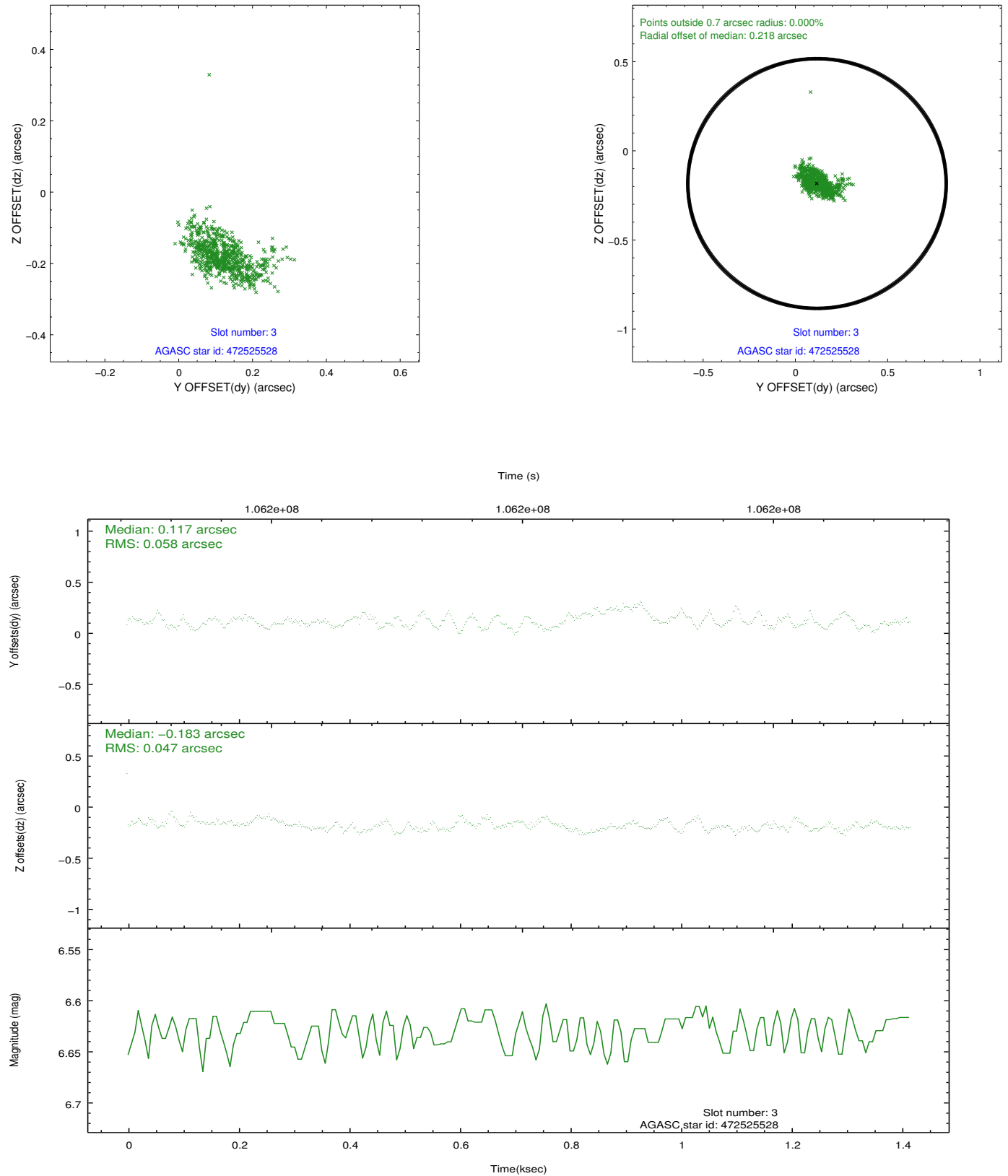
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.97	346	0.138	-0.110	0.007	0.012	0.000000	0.000000	-1156.70	-454.91
1	FID	HRC-S-2	6.98	346	0.119	-0.099	0.005	0.011	0.000000	0.000000	1239.62	-448.87
2	FID	HRC-S-3	7.00	346	0.133	-0.093	0.008	0.015	0.000000	0.000000	-1155.84	573.34
3	GUIDE	472525528	6.63	692	0.117	-0.183	0.075	0.134	331.551102	45.248694	-1173.86	1794.29
4	GUIDE	472527720	7.01	692	0.170	-0.169	0.079	0.131	331.460205	45.112509	-1638.05	2079.13
5	GUIDE	472523760	8.23	692	0.023	0.001	0.063	0.110	331.645363	45.403260	-648.53	1500.84
6	GUIDE	472665256	9.01	692	-0.152	0.222	0.080	0.141	332.808125	46.195041	1900.25	-1685.96
7	GUIDE	472659832	9.46	691	-0.135	0.110	0.105	0.416	332.780399	46.098139	1562.87	-1589.69

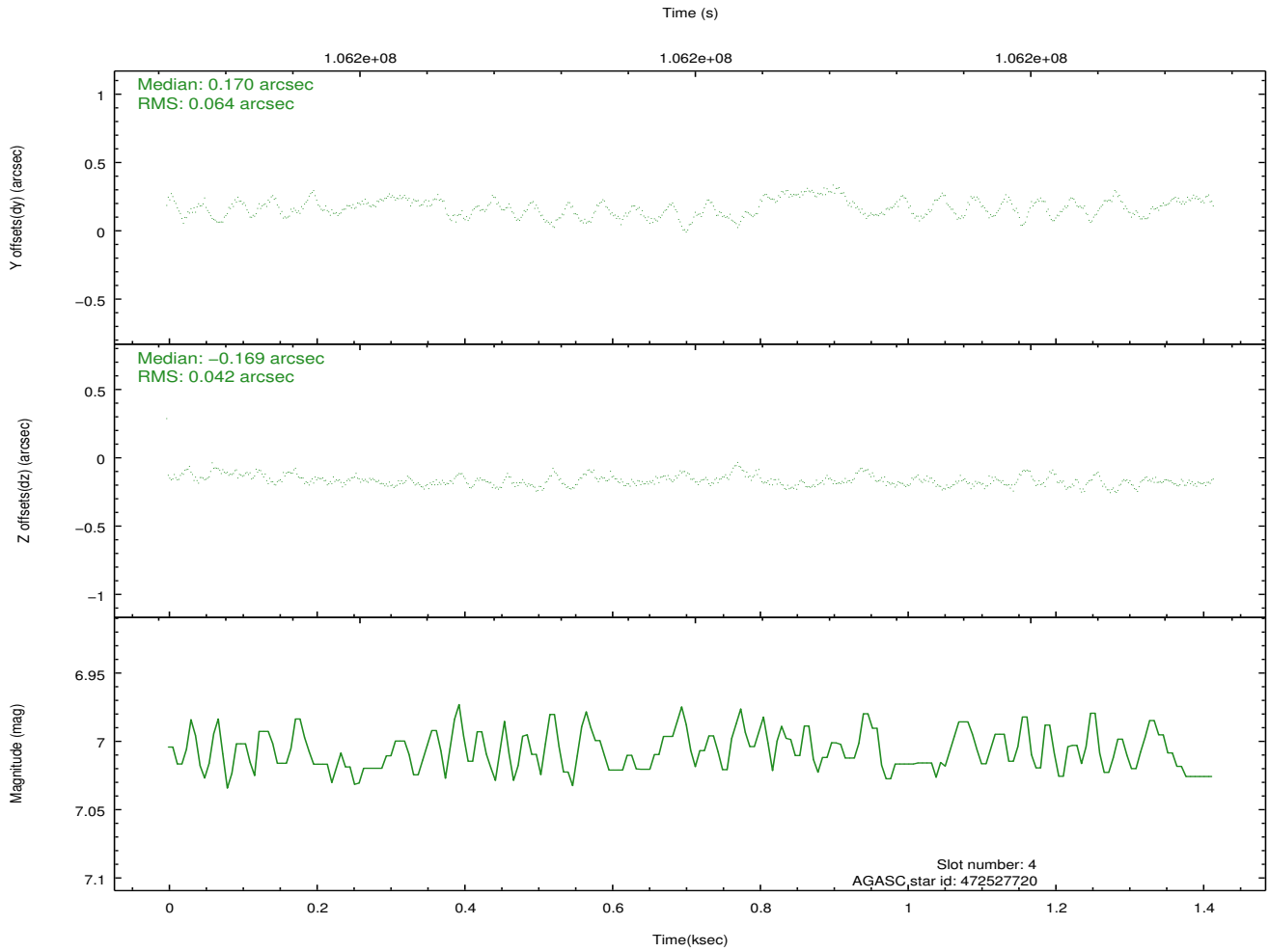
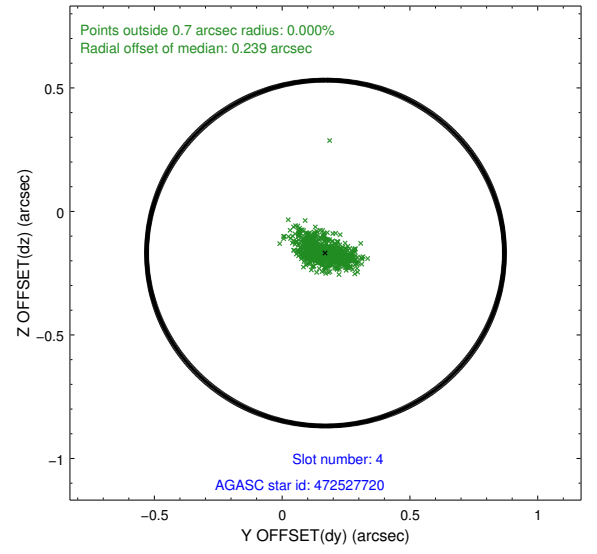
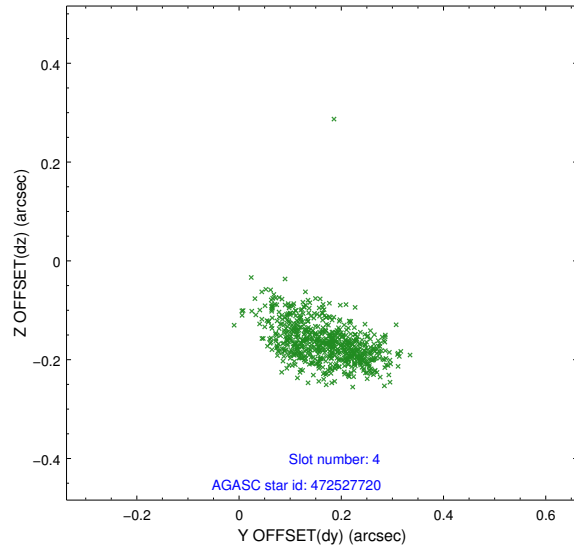


## 2.4 Star Slots

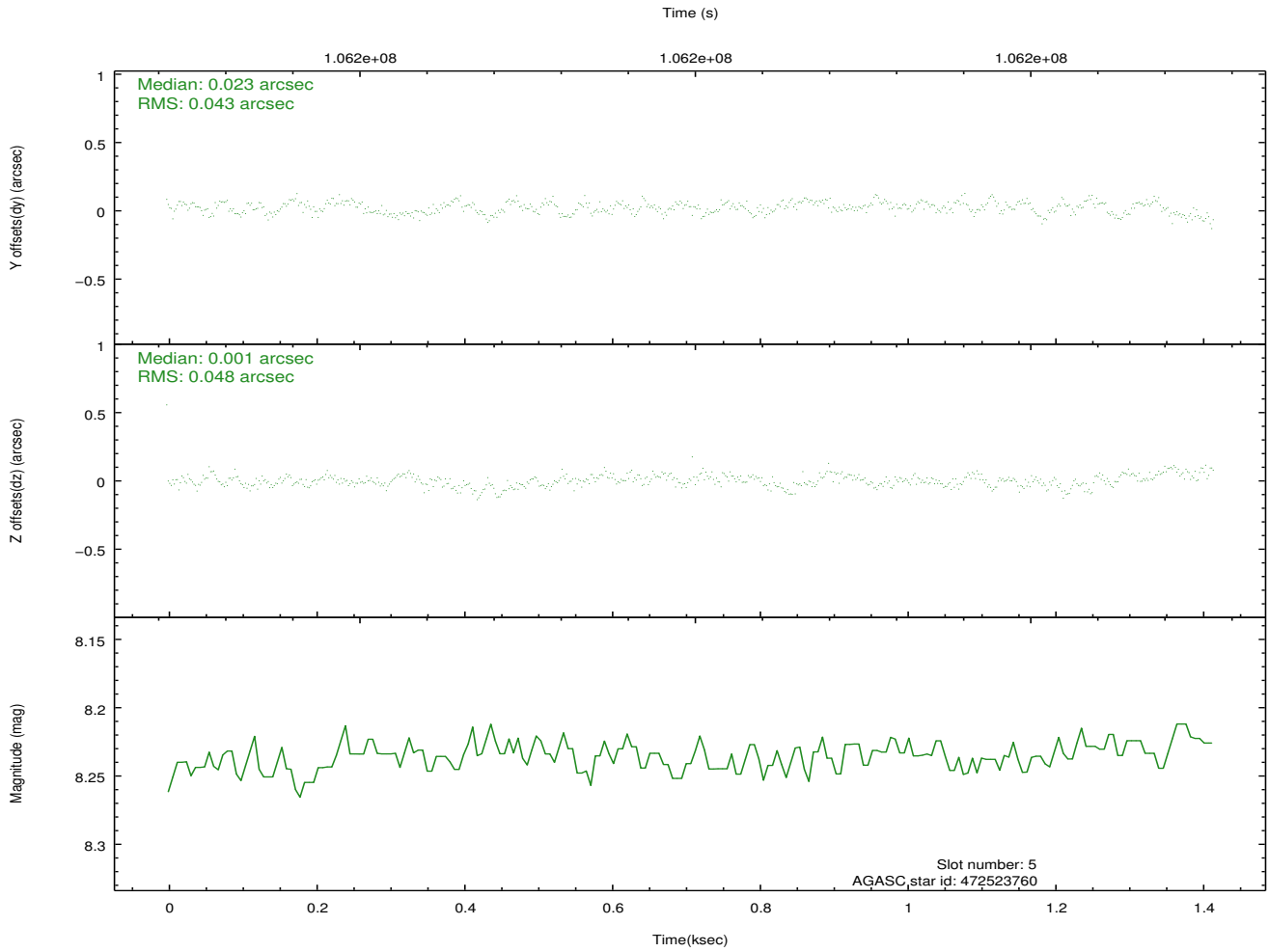
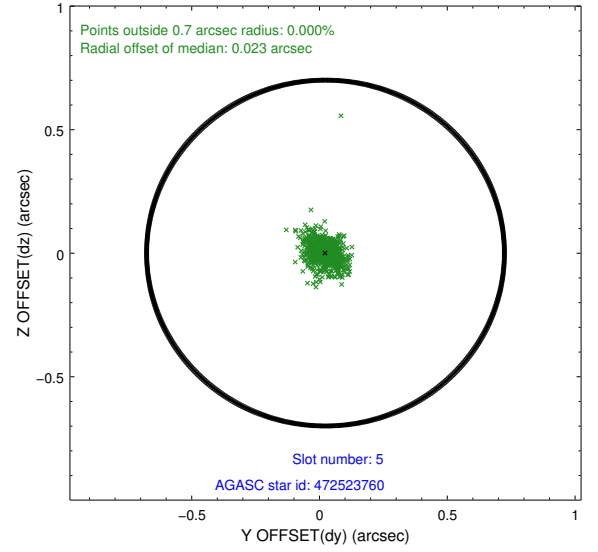
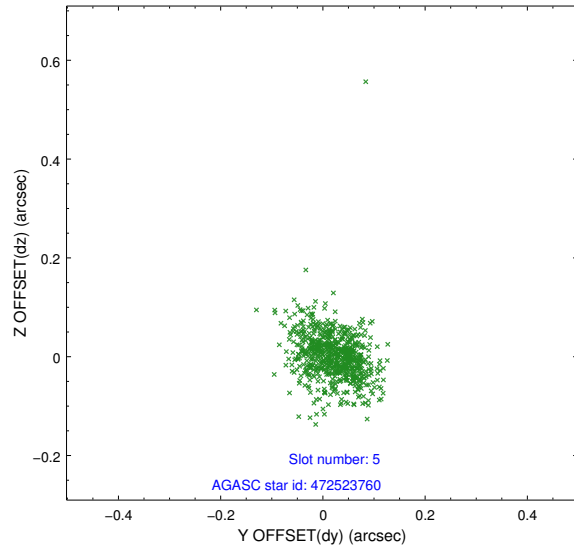
### 2.4.1 Slot 3



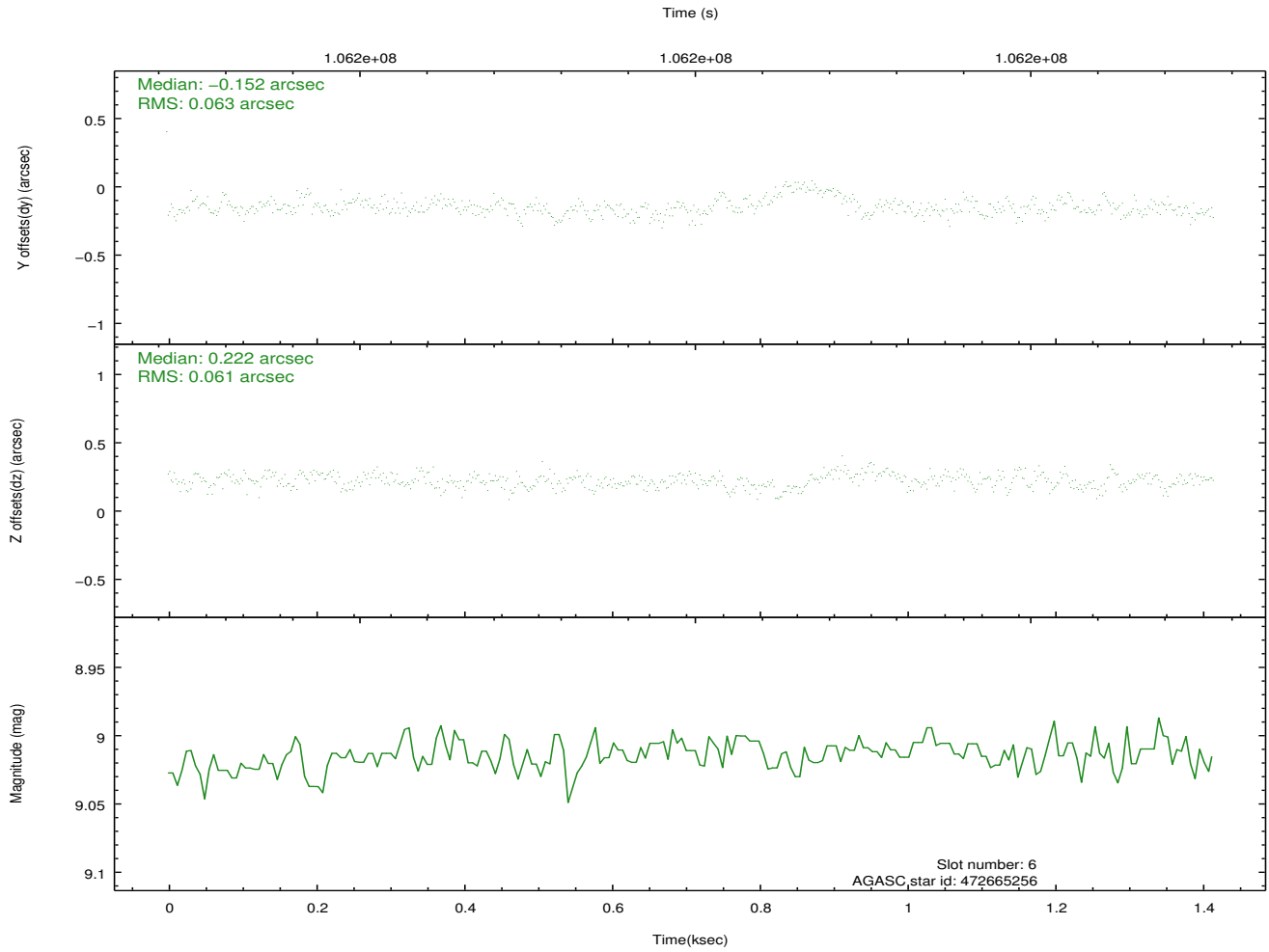
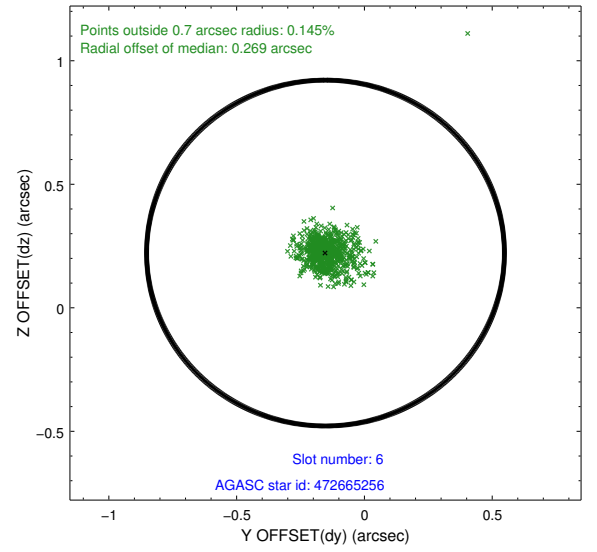
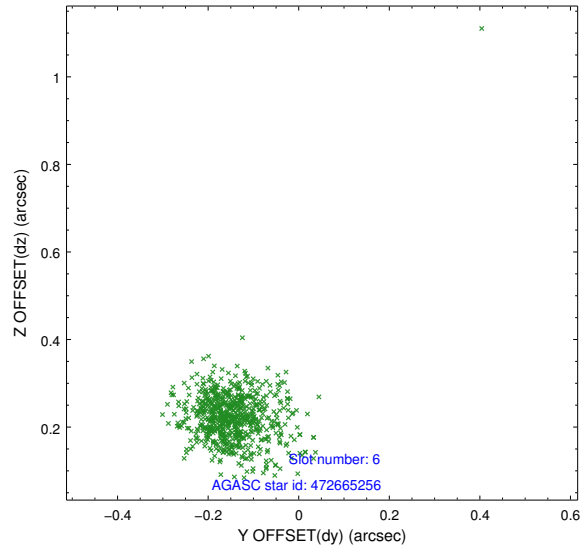
## 2.4.2 Slot 4



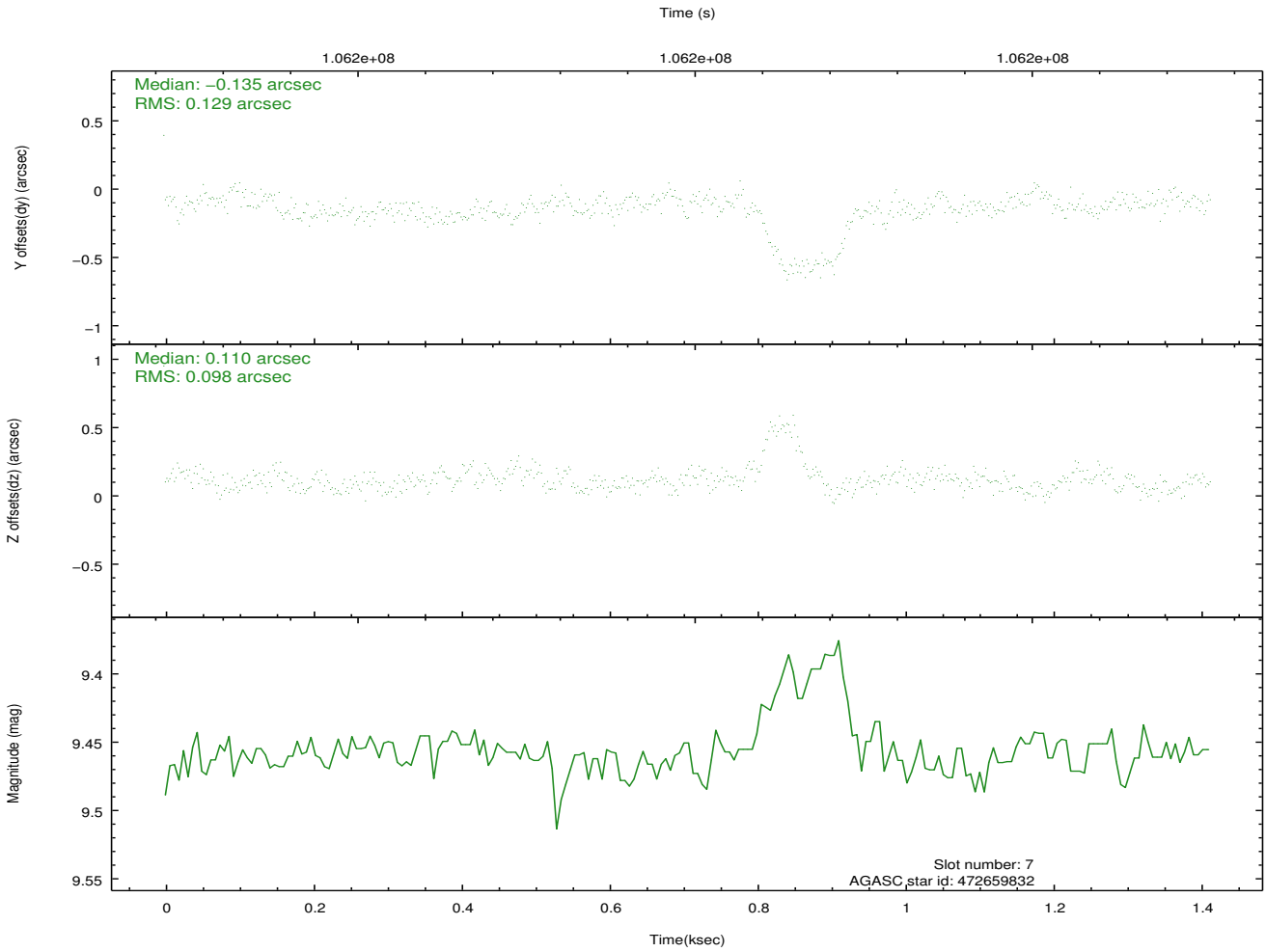
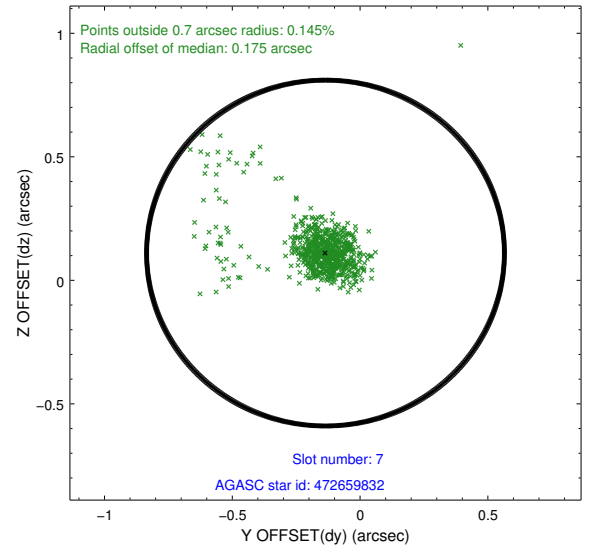
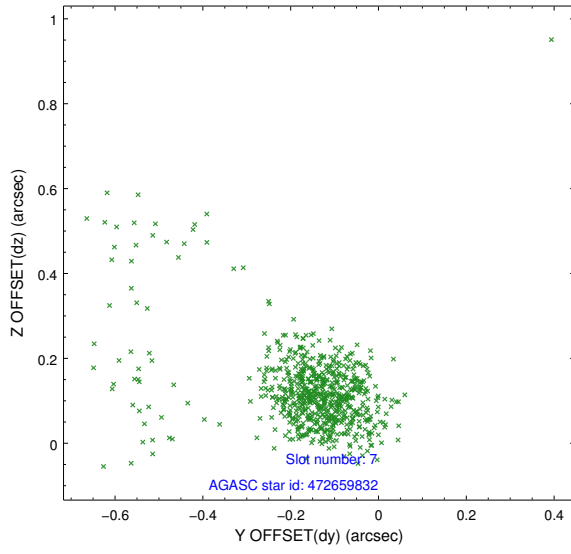
### 2.4.3 Slot 5



## 2.4.4 Slot 6

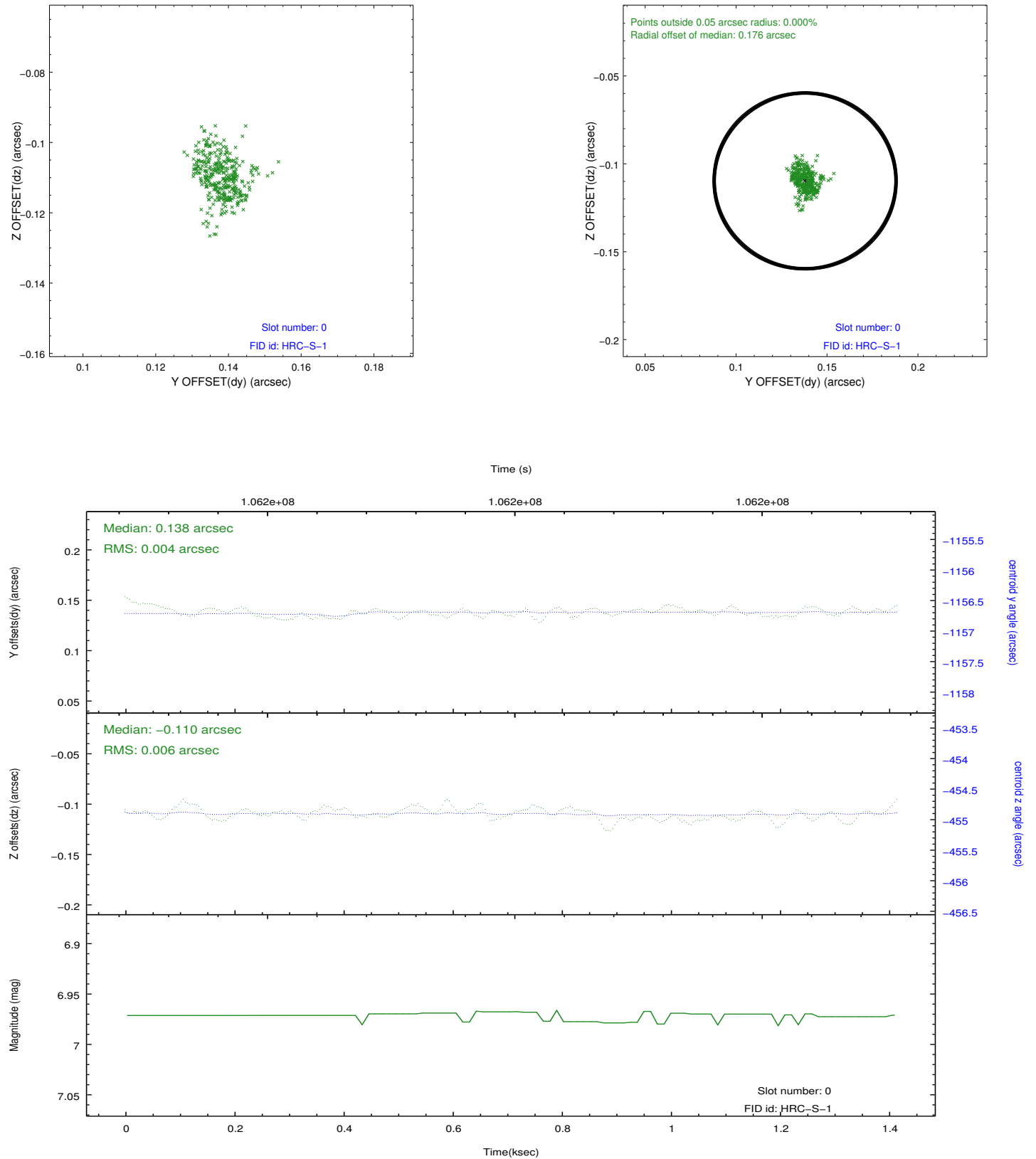


## 2.4.5 Slot 7

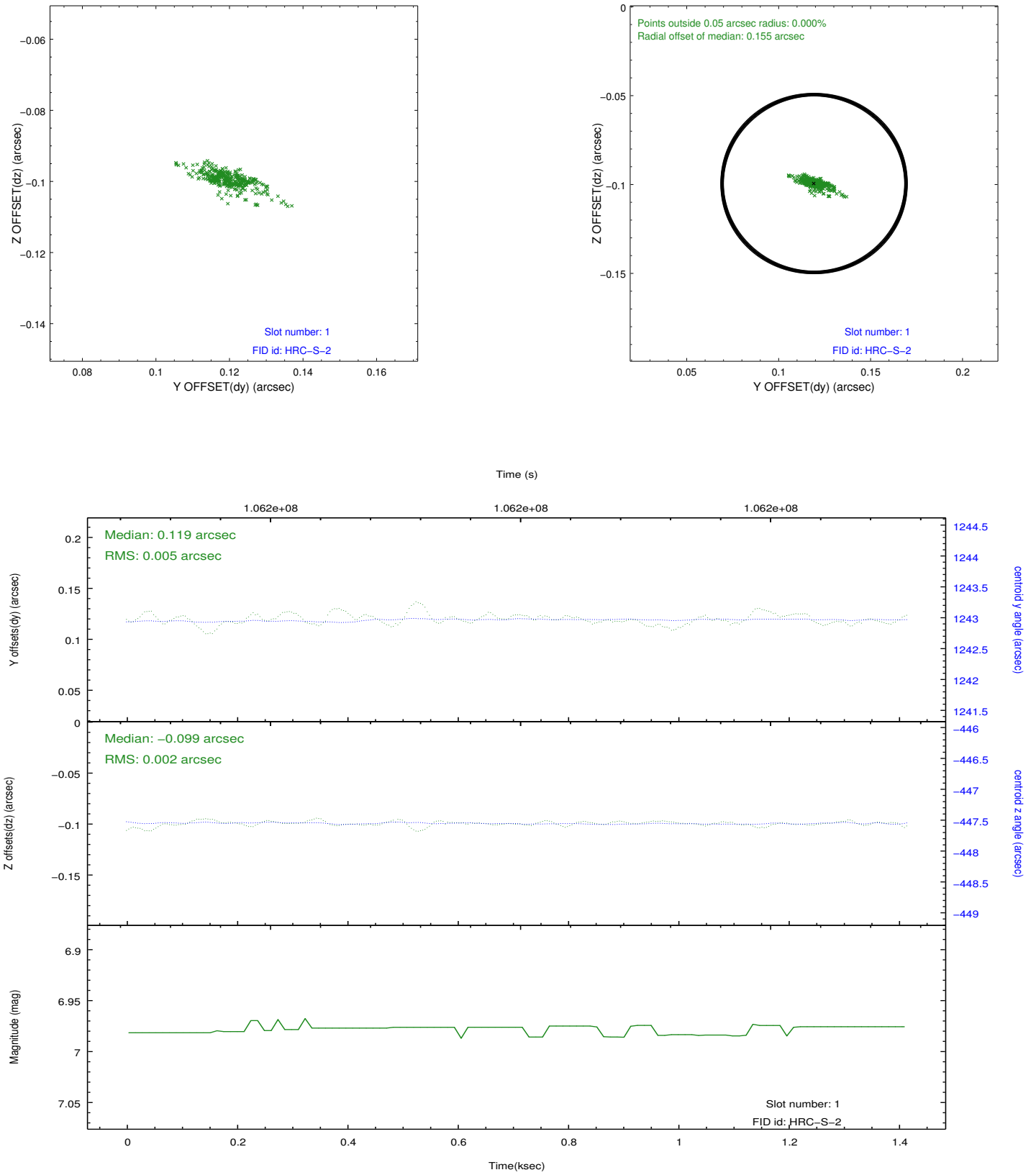


## 2.5 FID Slots

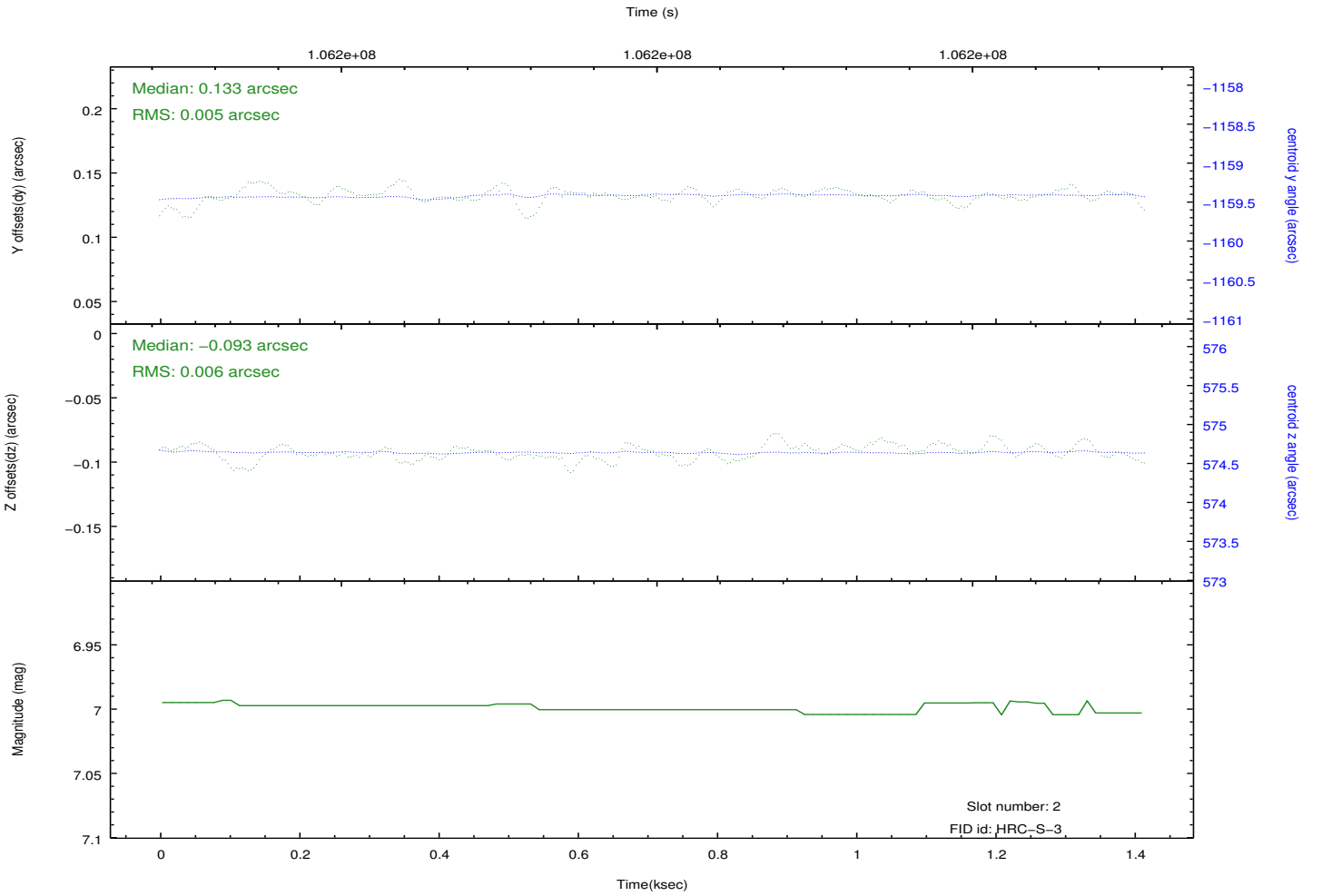
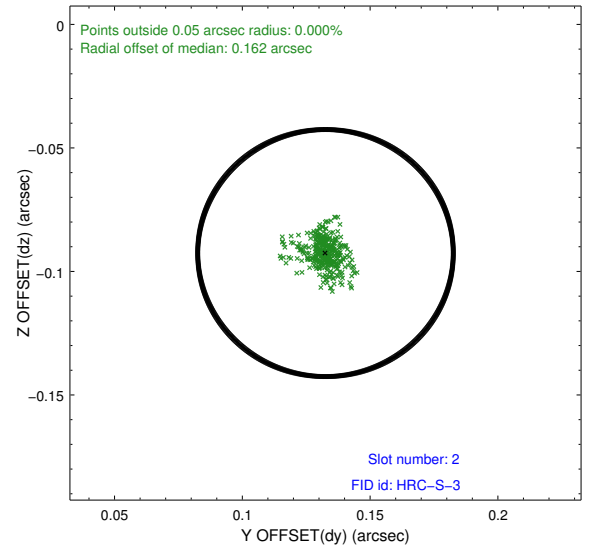
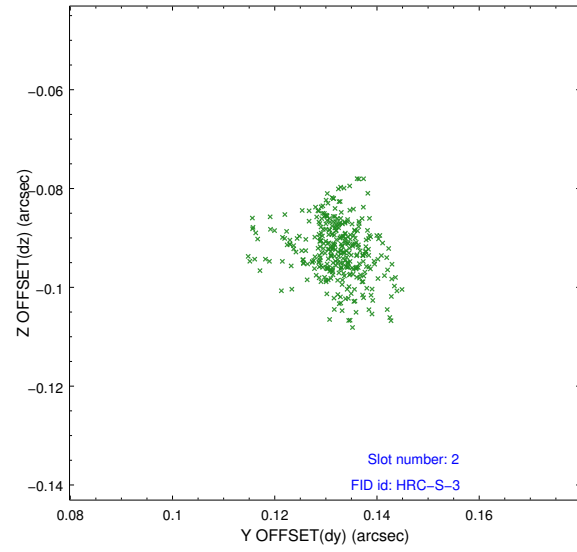
### 2.5.1 Slot 0



## 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)	2012.09.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.415

### A.2 Comments

Charge time for this observation remains at previous value of 1.415 ksec.