

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4920 - L2 Version 4  
Chandra X-Ray Center

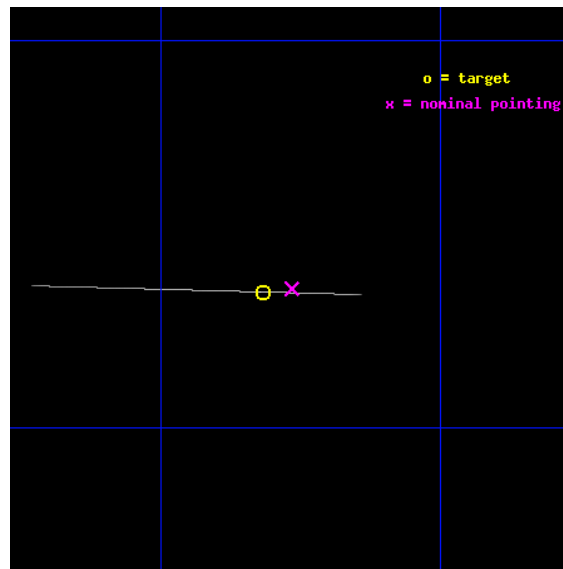
L2 Processing Date : Nov 13 2012

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# 1 Front

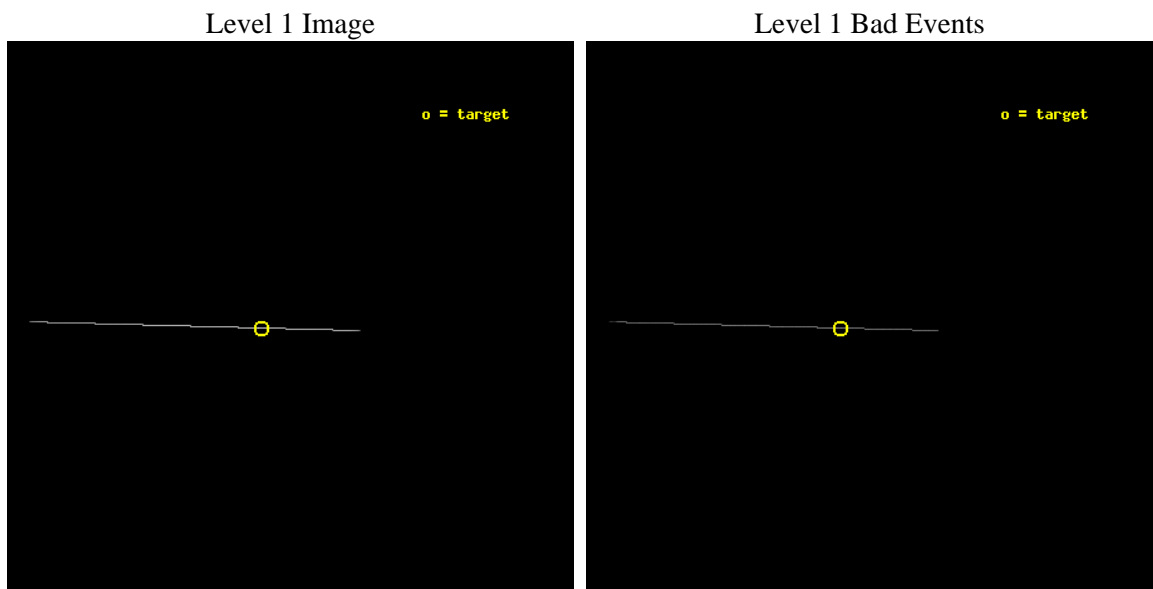
seq_num	701001	Sequence number
obs_id	4920	Observation id
title	HST/Chandra Monitoring of a Dramatic Flare in the M87 Jet	Proposal
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.69151706619	Nominal RA [deg]
dec_nom	12.392968910657	Nominal Dec [deg]
roll_nom	181.47802539063	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5232.5	Sum of GTIs [s]
livetime	5212.060546875	Livetime [s]
ontime7	5232.5	Sum of GTIs [s]
l2events	212513	Number of level 2 events



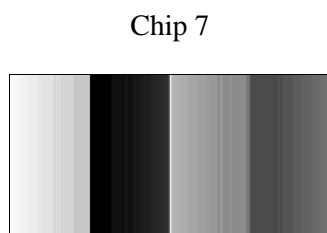
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5045.985000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5232.5	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime7	5232.5	Sum of GTIs [s]
date	2012-11-14T00:43:58	Date and time of file creation	l1events	234986	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	234986
rejected events	17923
rejected %	7%

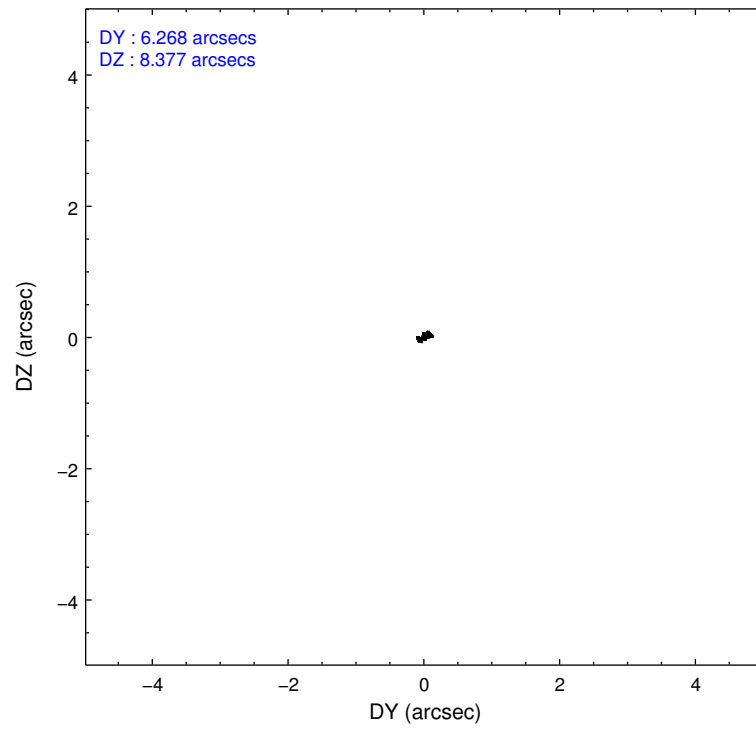
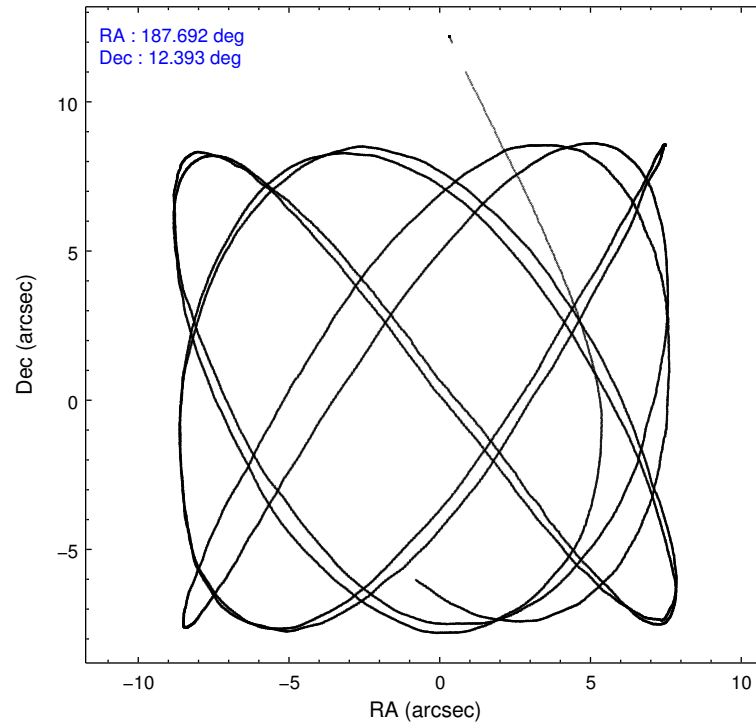
	<b>ccd 7</b>
grade 0 events	61328
	26%
grade 1 events	116
	0%
grade 2 events	59278
	25%
grade 3 events	22601
	9%
grade 4 events	22541
	9%
grade 5 events	5790
	2%
grade 6 events	63332
	26%
grade 7 events	0
	0%

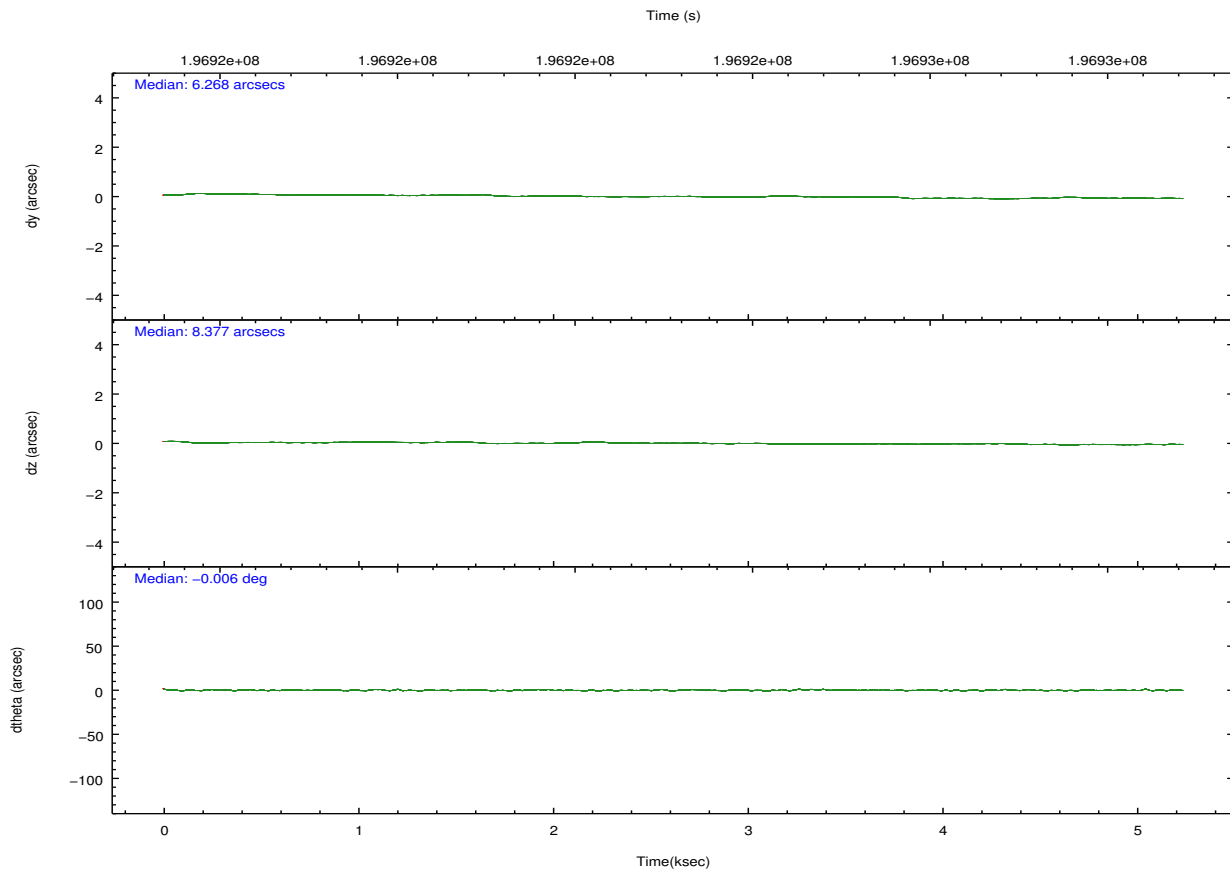
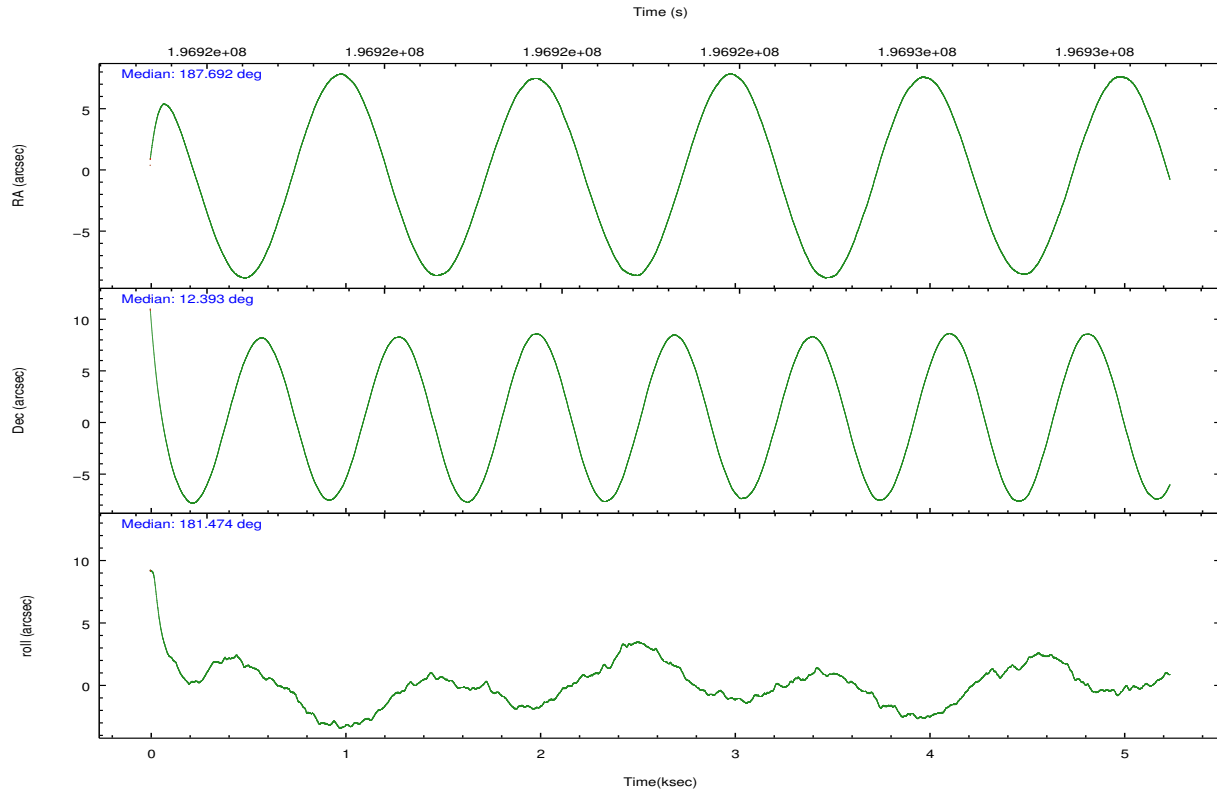


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	187.715053	187.6915170661907	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.407578	12.39296891065665	Alternating exposures requested	N	N
[deg] Pointing Roll	181.316315	181.4780253906325	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-182.132523	-182.1370004450064			
[mm] SIM translation stage offset	-8	-7.995522138001405			
[s] Observation start time (MET)	196922122.184000	196921055.36867			
Observation start date	2004-03-29T04:34:18	2004-03-29T04:17:35			
[s] Observation end time (MET)	196927168.184000	196927482.63145			
Observation end date	2004-03-29T05:58:24	2004-03-29T06:04:42			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Aspect



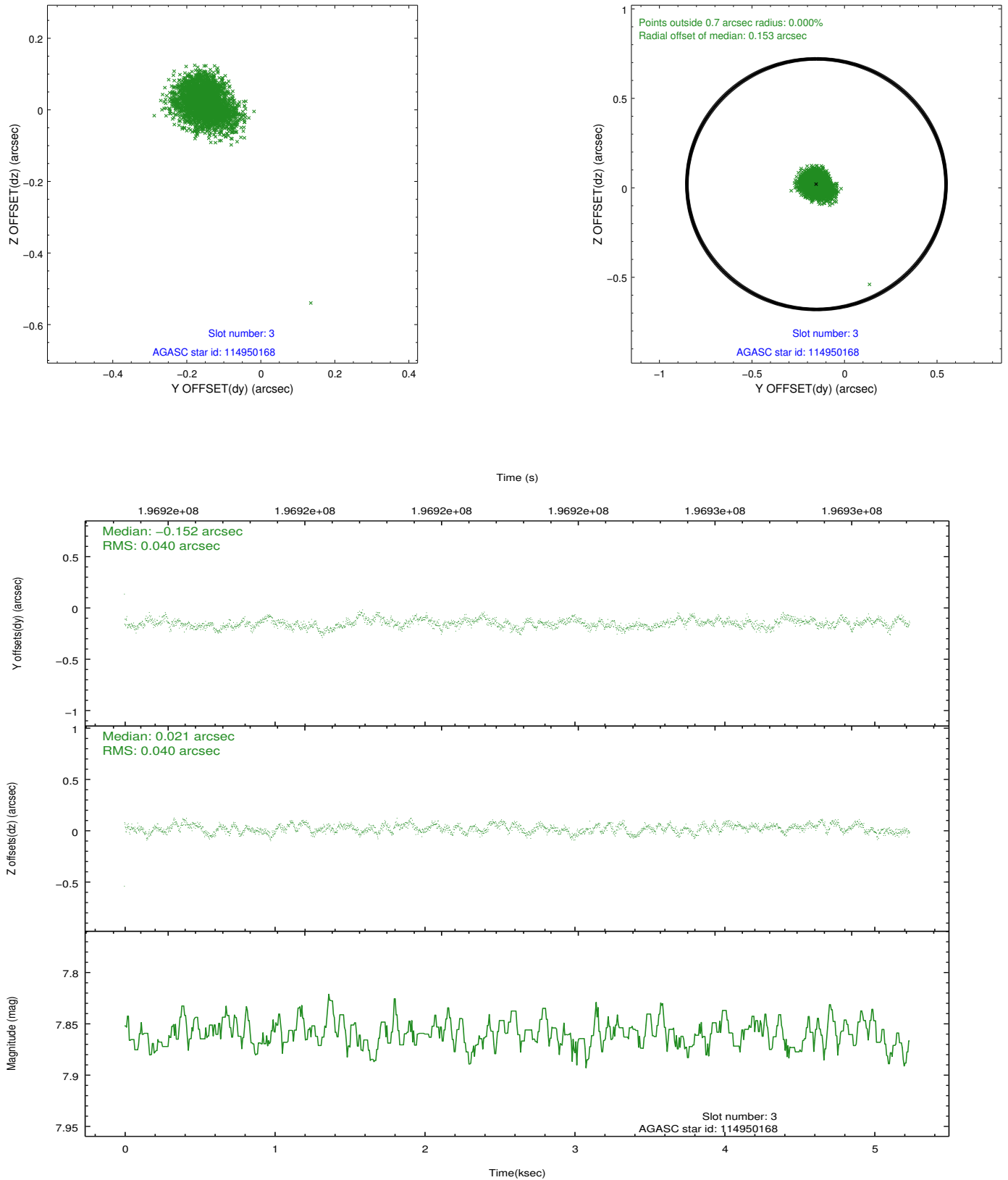


### Slot Statistics

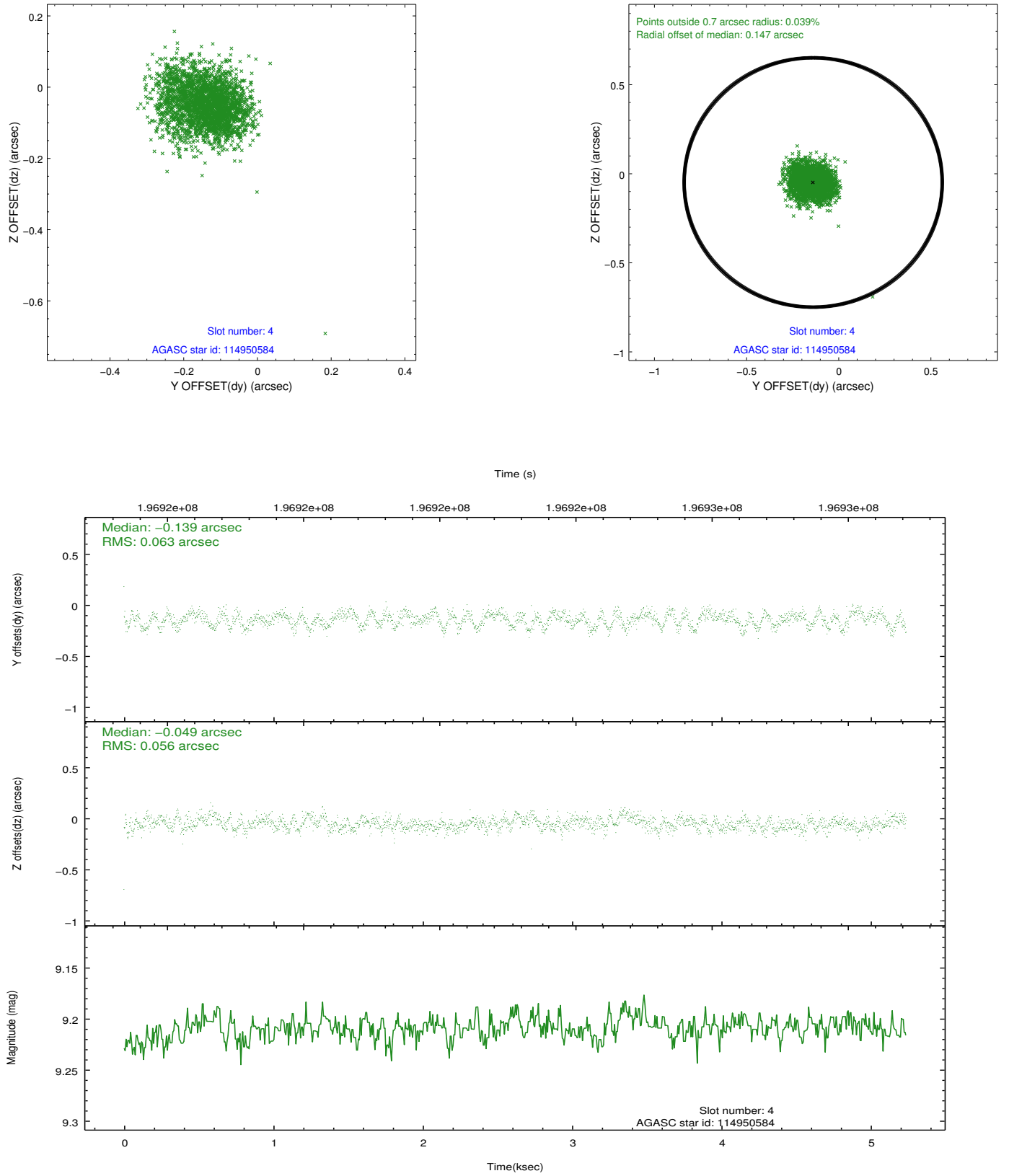
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	1278	0.029	0.117	0.006	0.011	0.000000	0.000000	937.64	-1889.81
1	FID	ACIS-S-5	7.23	1278	-0.110	0.042	0.006	0.011	0.000000	0.000000	-1810.84	6.34
2	FID	ACIS-S-6	7.42	1278	0.059	-0.148	0.007	0.011	0.000000	0.000000	401.98	651.42
3	GUIDE	114950168	7.86	2555	-0.152	0.021	0.060	0.094	187.143398	12.117441	2035.63	995.84
4	GUIDE	114950584	9.21	2555	-0.139	-0.049	0.090	0.141	187.487323	11.827248	851.21	2070.01
5	GUIDE	114952792	9.52	2553	-0.009	-0.071	0.090	0.142	187.070263	12.344747	2273.14	172.09
6	GUIDE	114955056	8.33	2555	0.163	0.026	0.054	0.087	187.914001	12.127854	-675.57	1022.31
7	GUIDE	114955568	7.52	2555	0.133	0.074	0.048	0.077	187.061916	11.826551	2348.98	2035.93

## 2.4 Star Slots

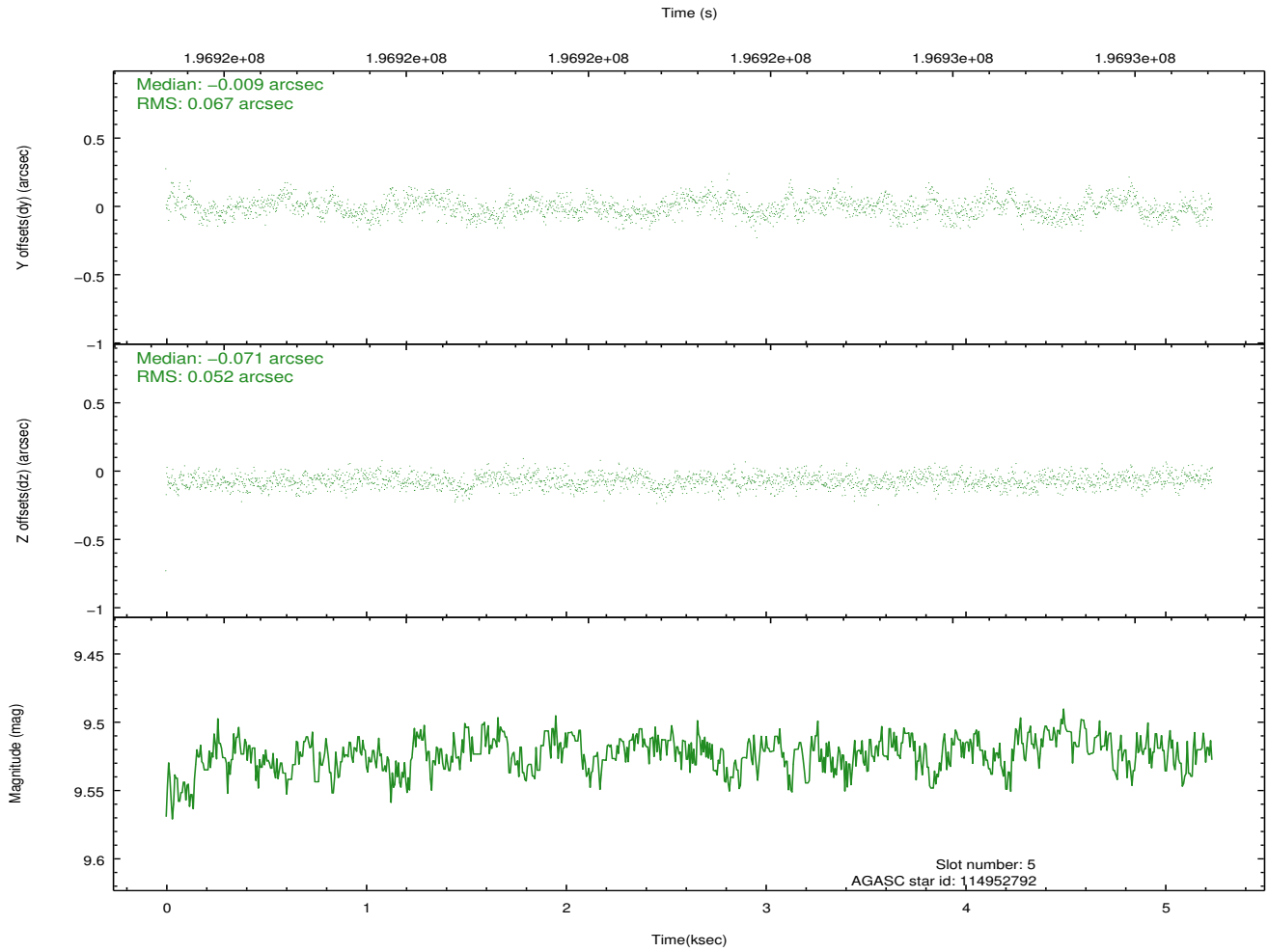
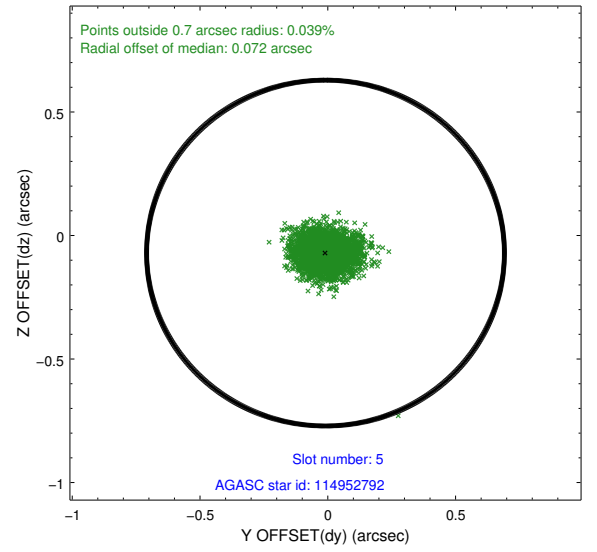
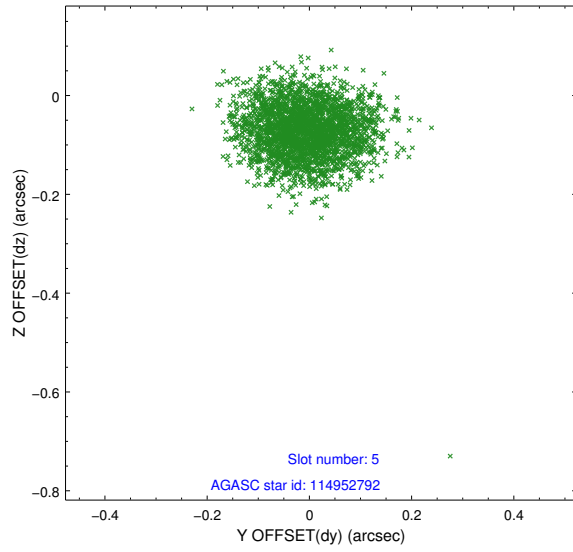
### 2.4.1 Slot 3



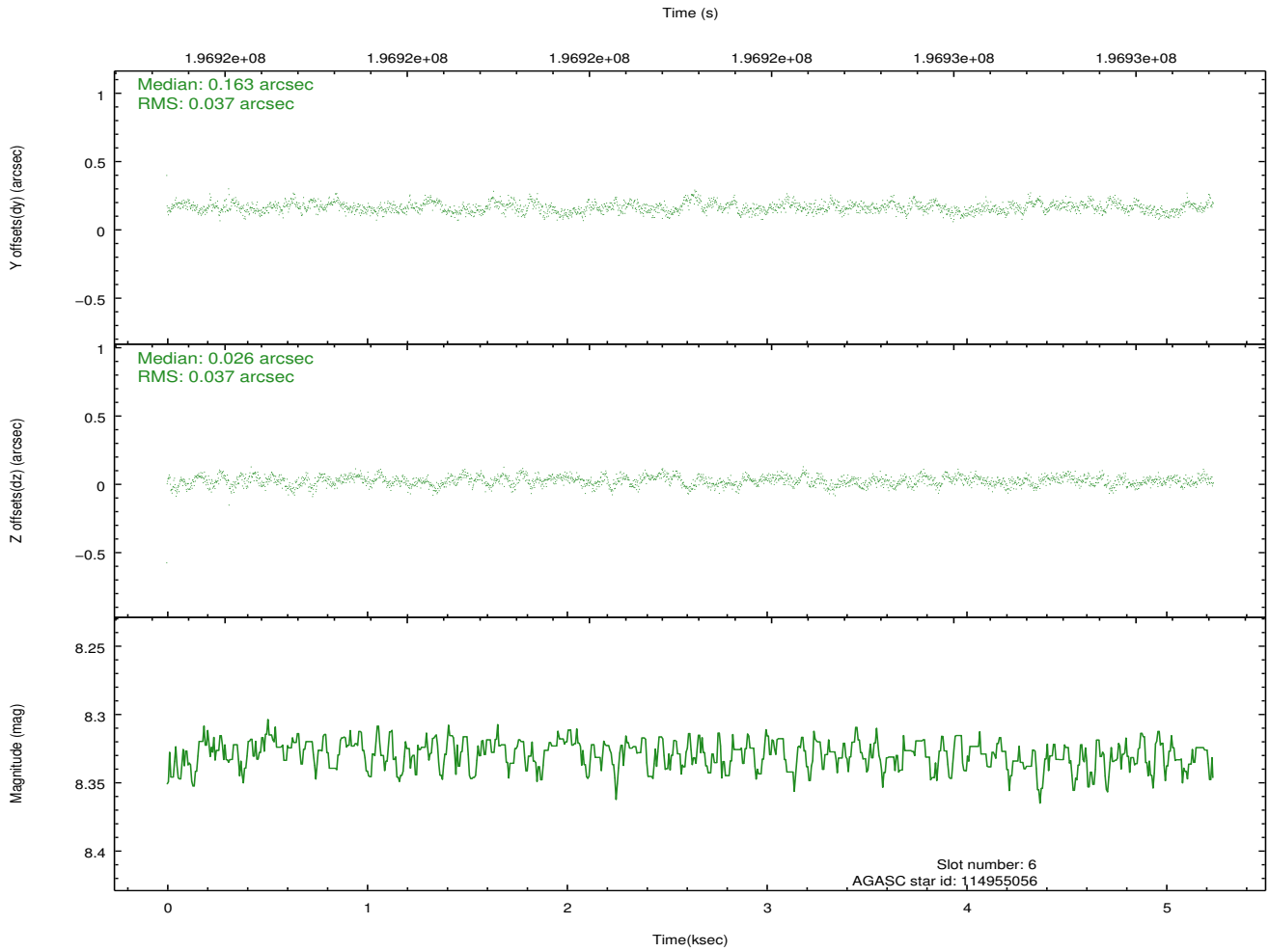
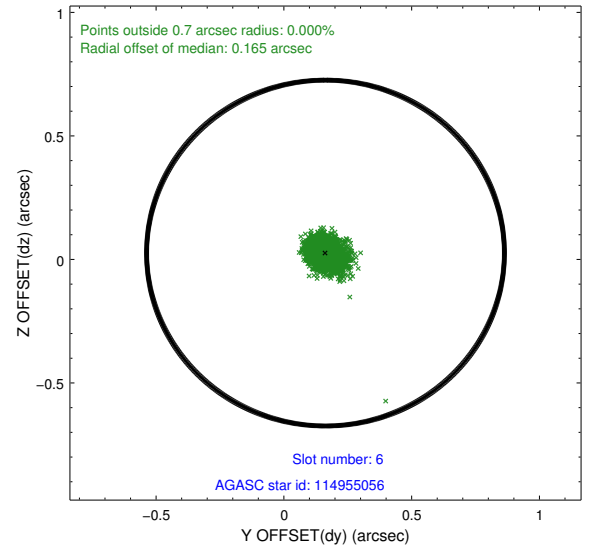
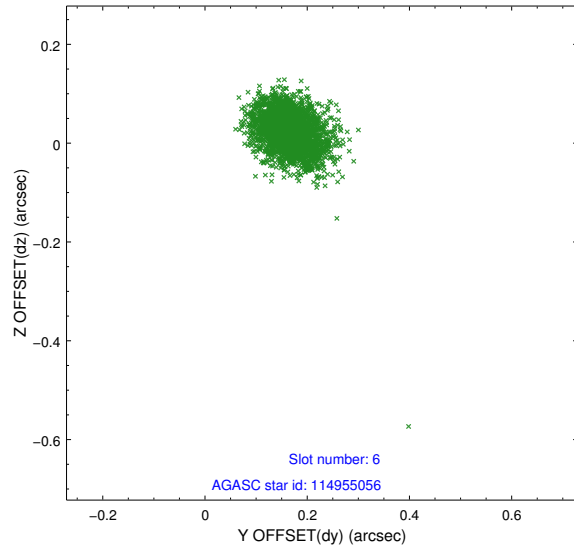
## 2.4.2 Slot 4



### 2.4.3 Slot 5

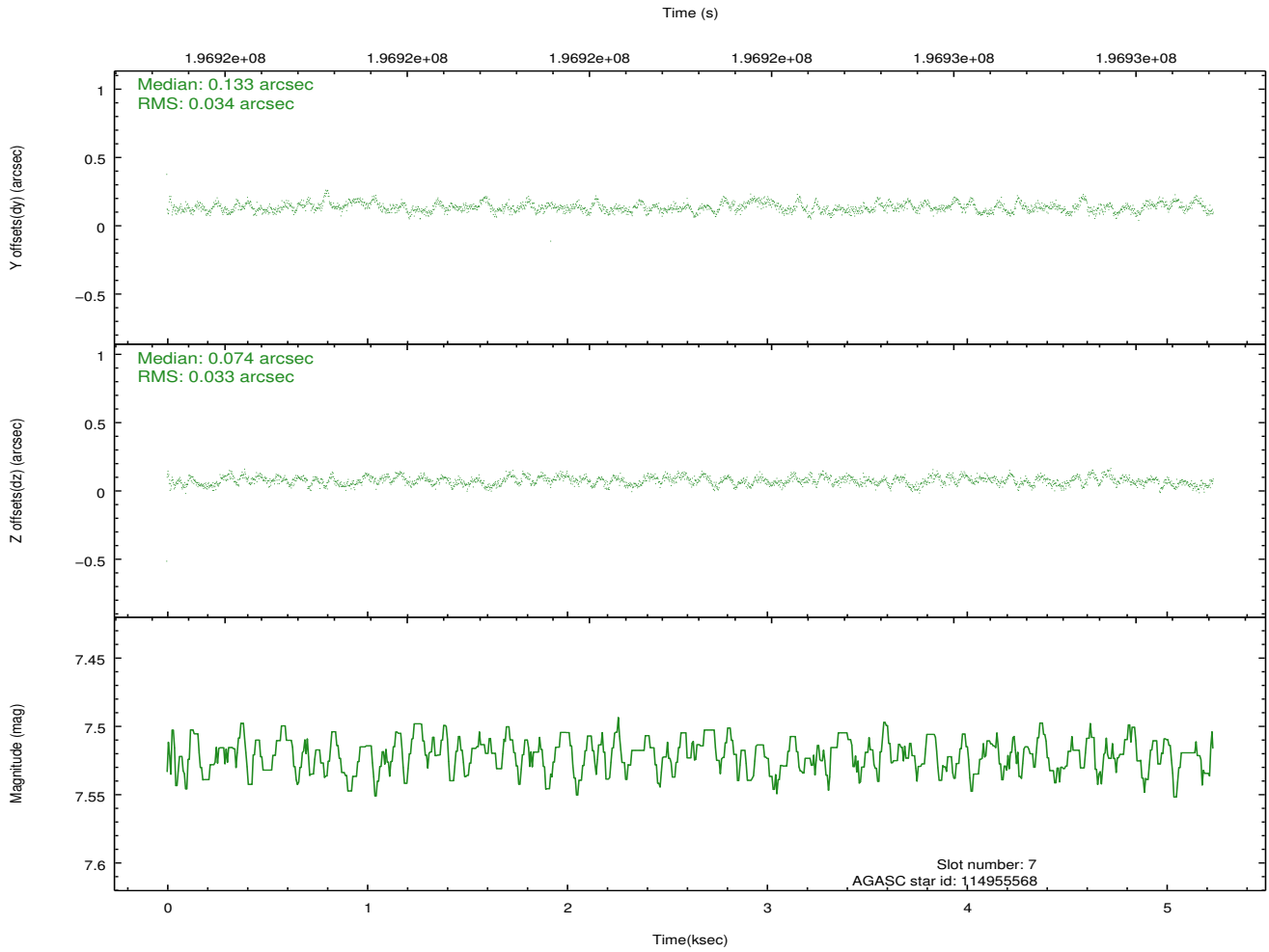
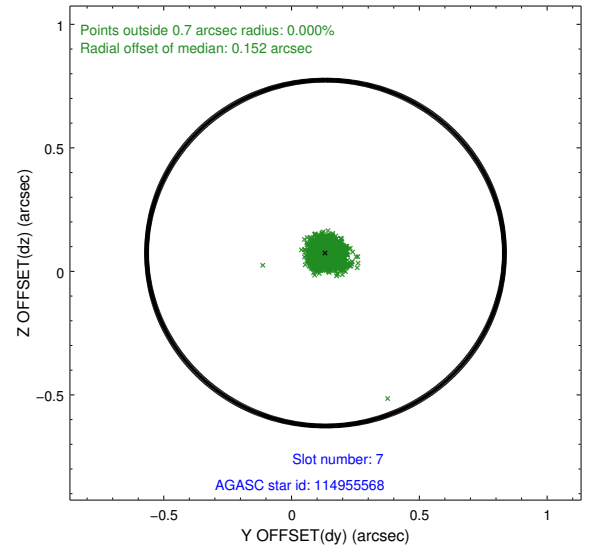
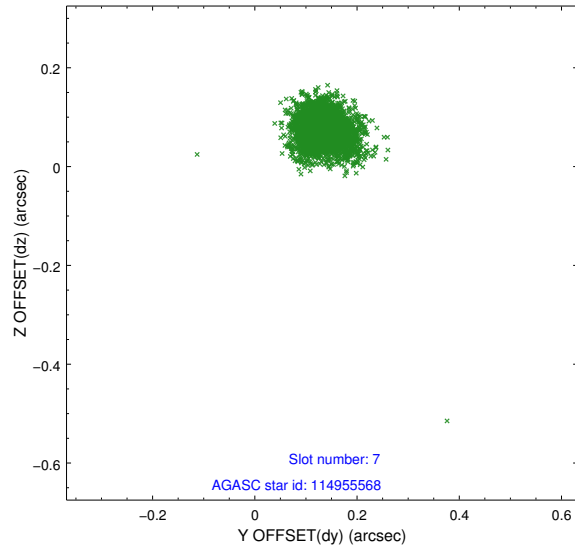


## 2.4.4 Slot 6



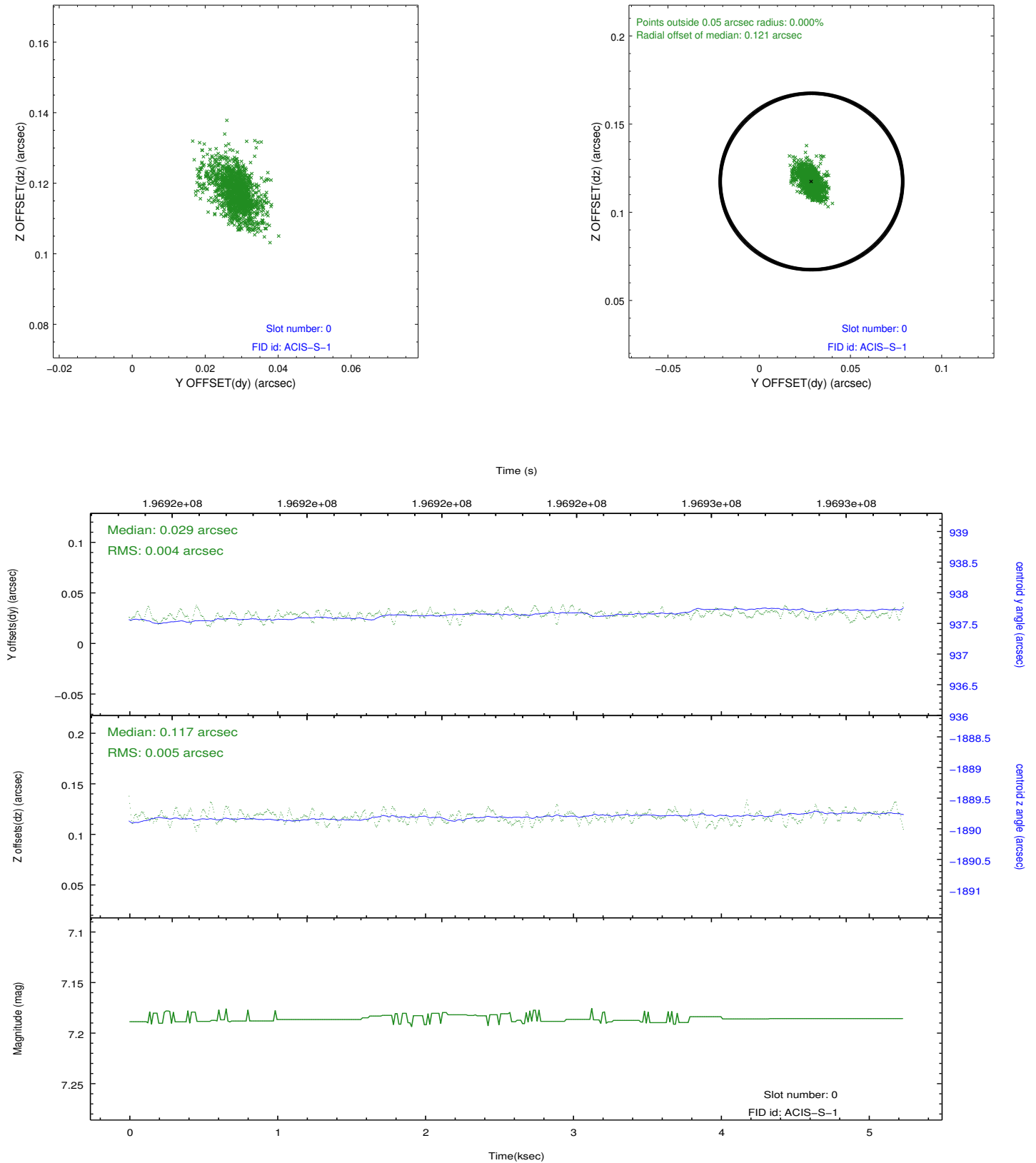


## 2.4.5 Slot 7

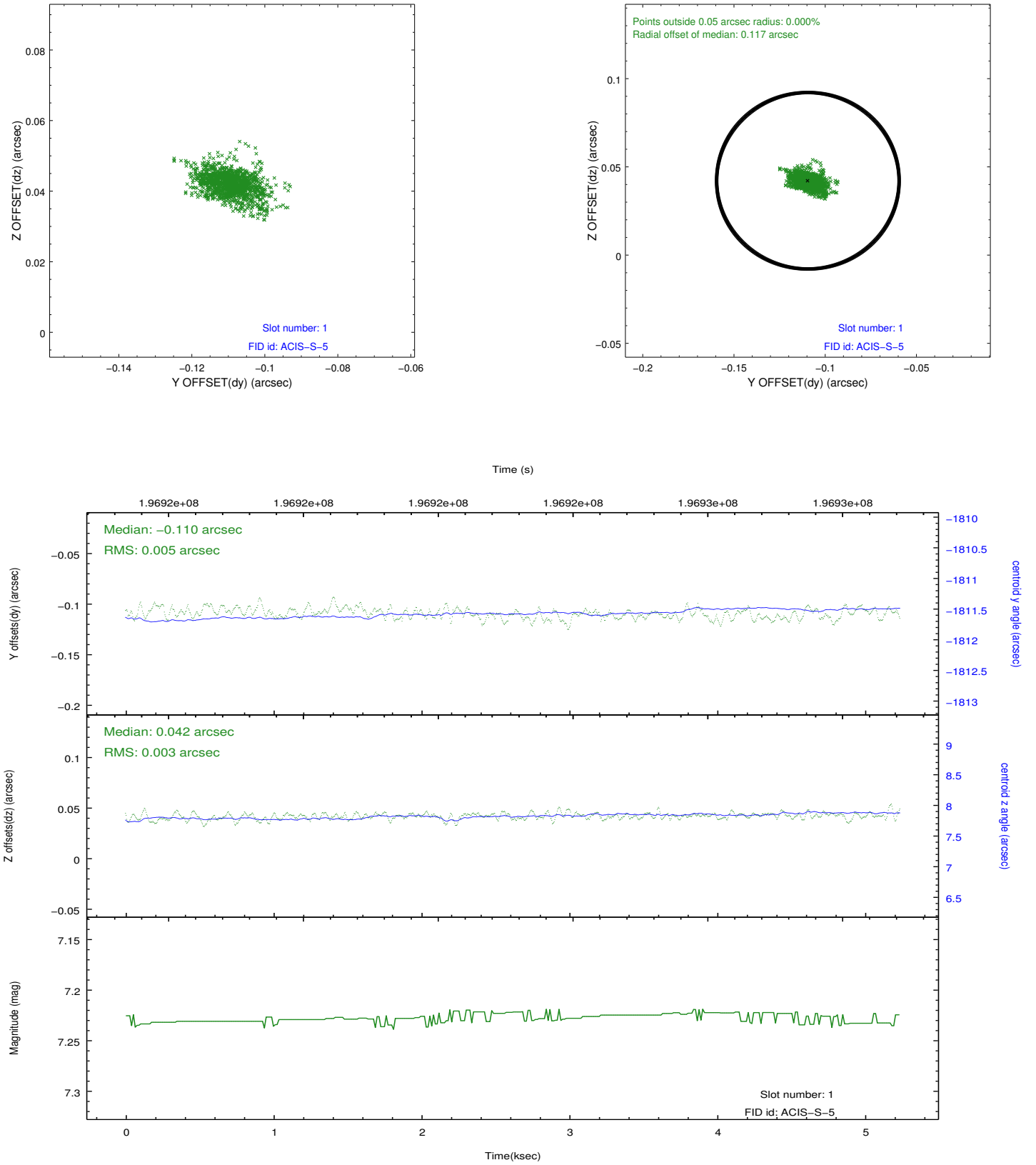


## 2.5 FID Slots

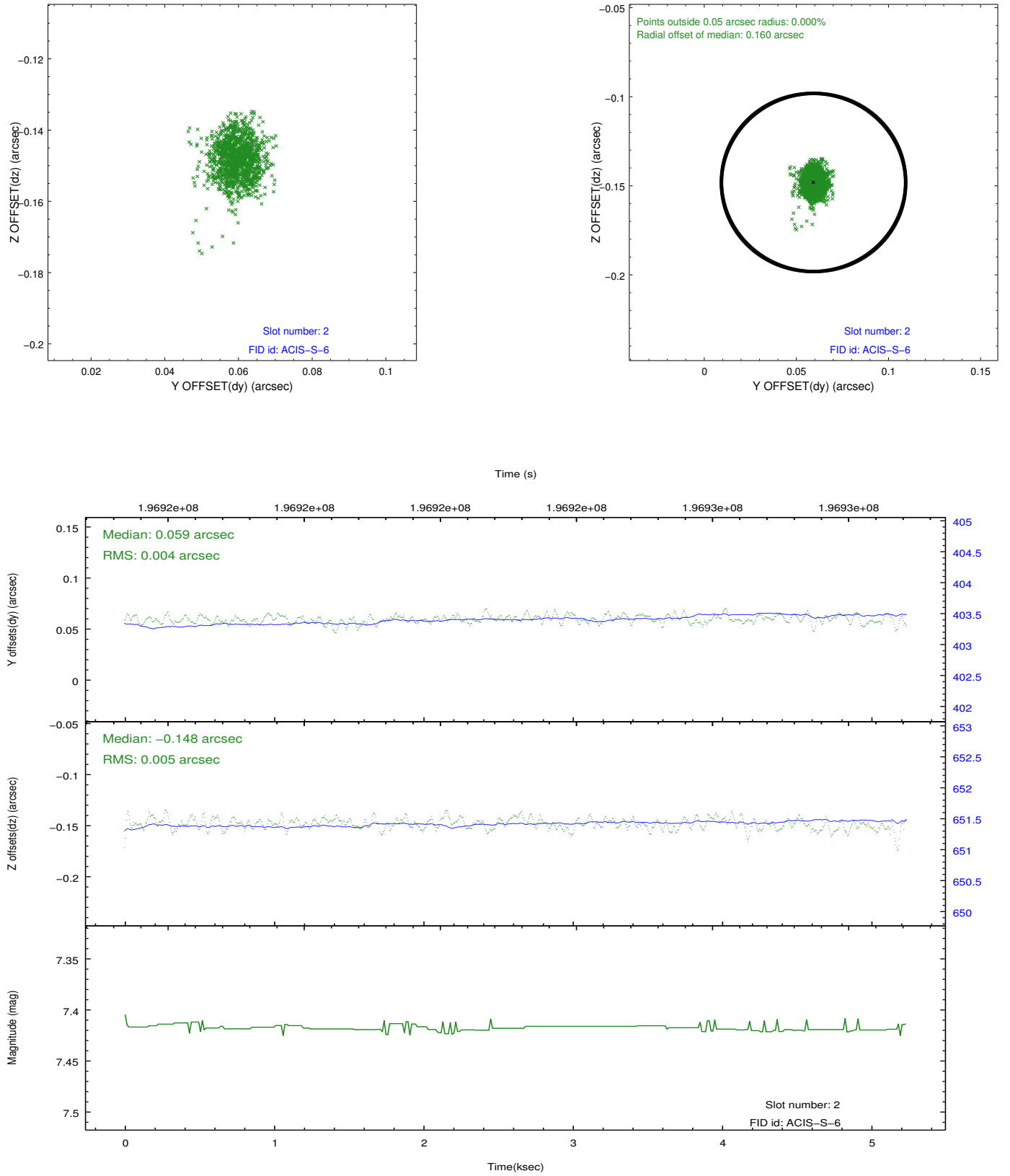
### 2.5.1 Slot 0



## 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)	2012.12.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.235

### A.2 Comments