

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2154 - L2 Version 3  
Chandra X-Ray Center

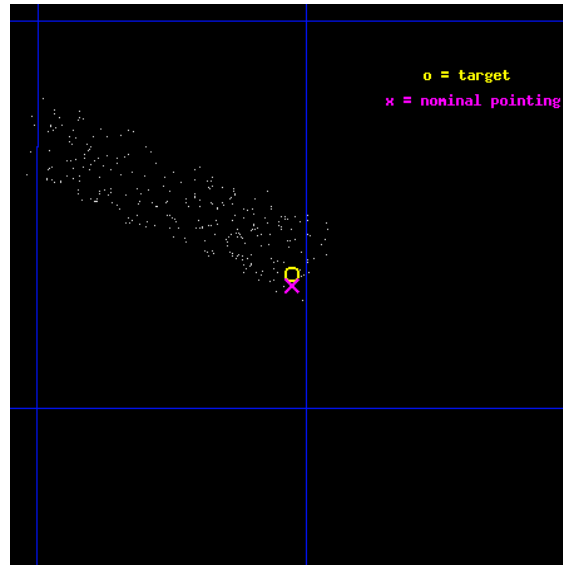
L2 Processing Date : Sep 7 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

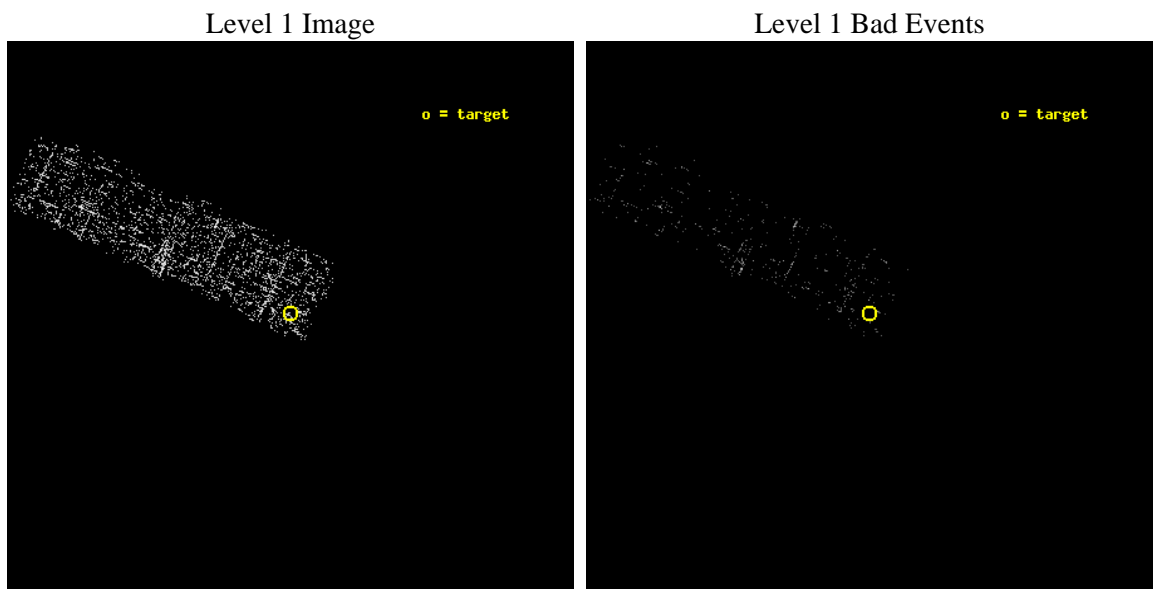
seq_num	700344	Sequence number
obs_id	2154	Observation id
title	RED QUASARS AND THE X-RAY BACKGROUND	Proposal title
observer	Dr. Belinda Wilkes	Principal investigator
object	2MASSJ012031+2003	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	20.131667	Observer's specified target RA [deg]
dec_targ	20.05775	Observer's specified target Dec [deg]
ra_nom	20.13185337193	Nominal RA [deg]
dec_nom	20.052868162718	Nominal Dec [deg]
roll_nom	294.58364800626	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1537.3266579956	Sum of GTIs [s]
livetime	1462.3101474323	Livetime [s]
ontime3	1537.3266579956	Sum of GTIs [s]
l2events	277	Number of level 2 events



## 2 OBI

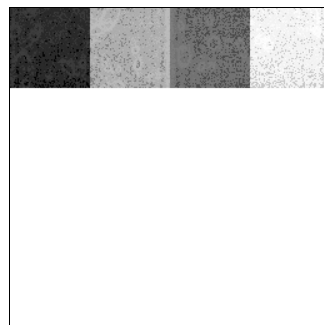
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 3



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1700.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1537.3266579956	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime3	1537.3266579956	Sum of GTIs [s]
date	2012-09-07T03:40:28	Date and time of file creation	l1events	3243	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

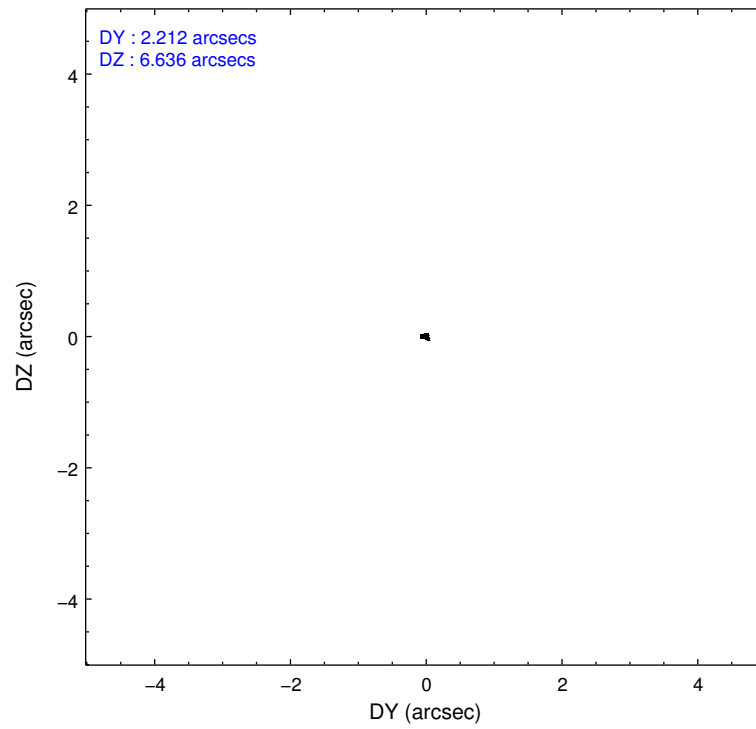
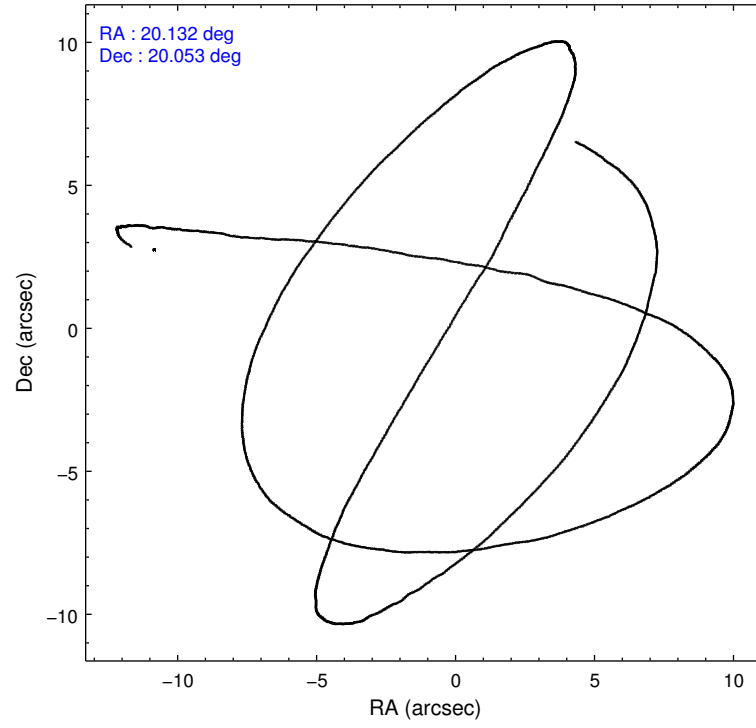
	<b>ccd 3</b>
level 1 events	3243
rejected events	2909
rejected %	89%

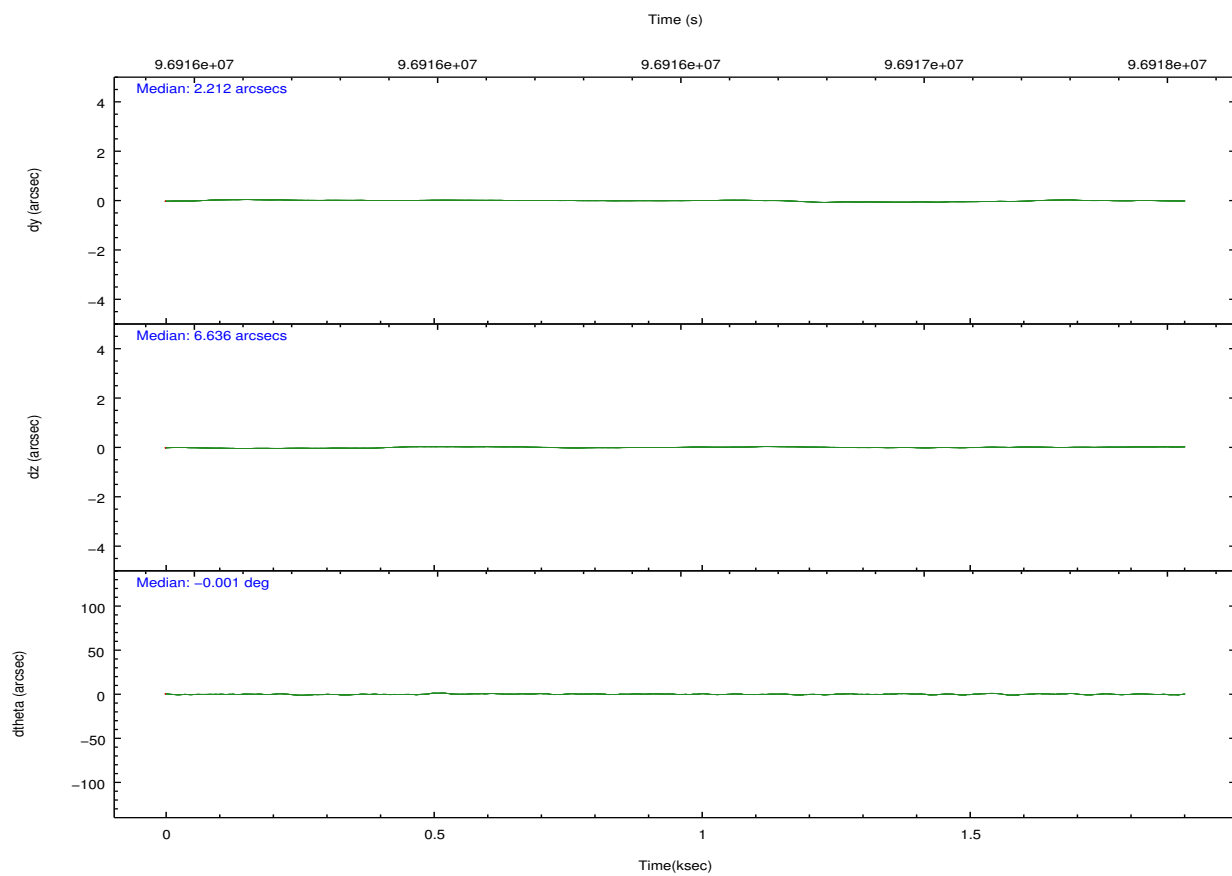
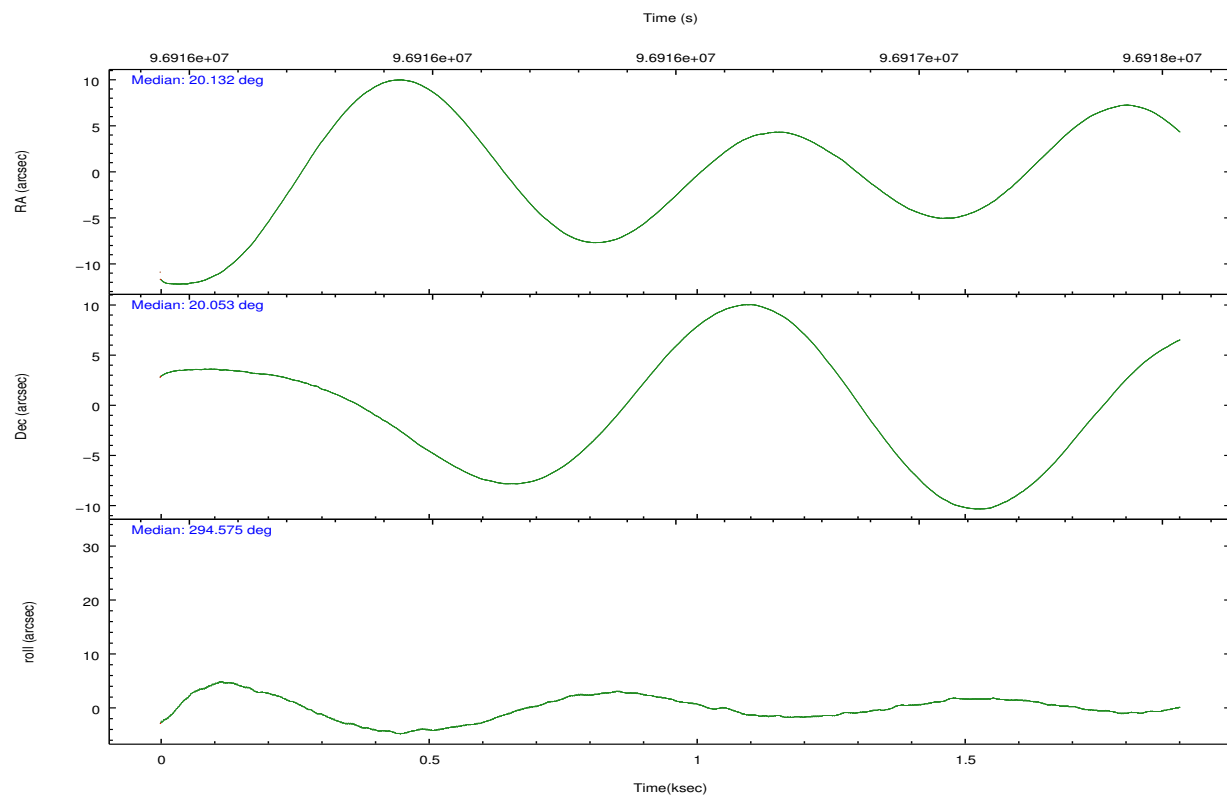
	<b>ccd 3</b>
grade 0 events	129
	3%
grade 1 events	1
	0%
grade 2 events	64
	1%
grade 3 events	43
	1%
grade 4 events	48
	1%
grade 5 events	83
	2%
grade 6 events	50
	1%
grade 7 events	2825
	87%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3	ACIS-3	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	20.107978	20.13185337192987	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	20.068898	20.05286816271811	Subarray start row	769	769
[deg] Pointing Roll	294.383159	294.5836480062607	Subarray row count	256	256
[mm] SIM focus pos	-0.782348	-0.7809083437167272	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001439871863259334	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	96915737.184000	96915285.224038			
Observation start date	2001-01-26T17:01:13	2001-01-26T16:54:45			
[s] Observation end time (MET)	96917437.184000	96917754.44913299			
Observation end date	2001-01-26T17:29:33	2001-01-26T17:35:54			
Read mode	TIMED	TIMED			

## 2.3 Aspect





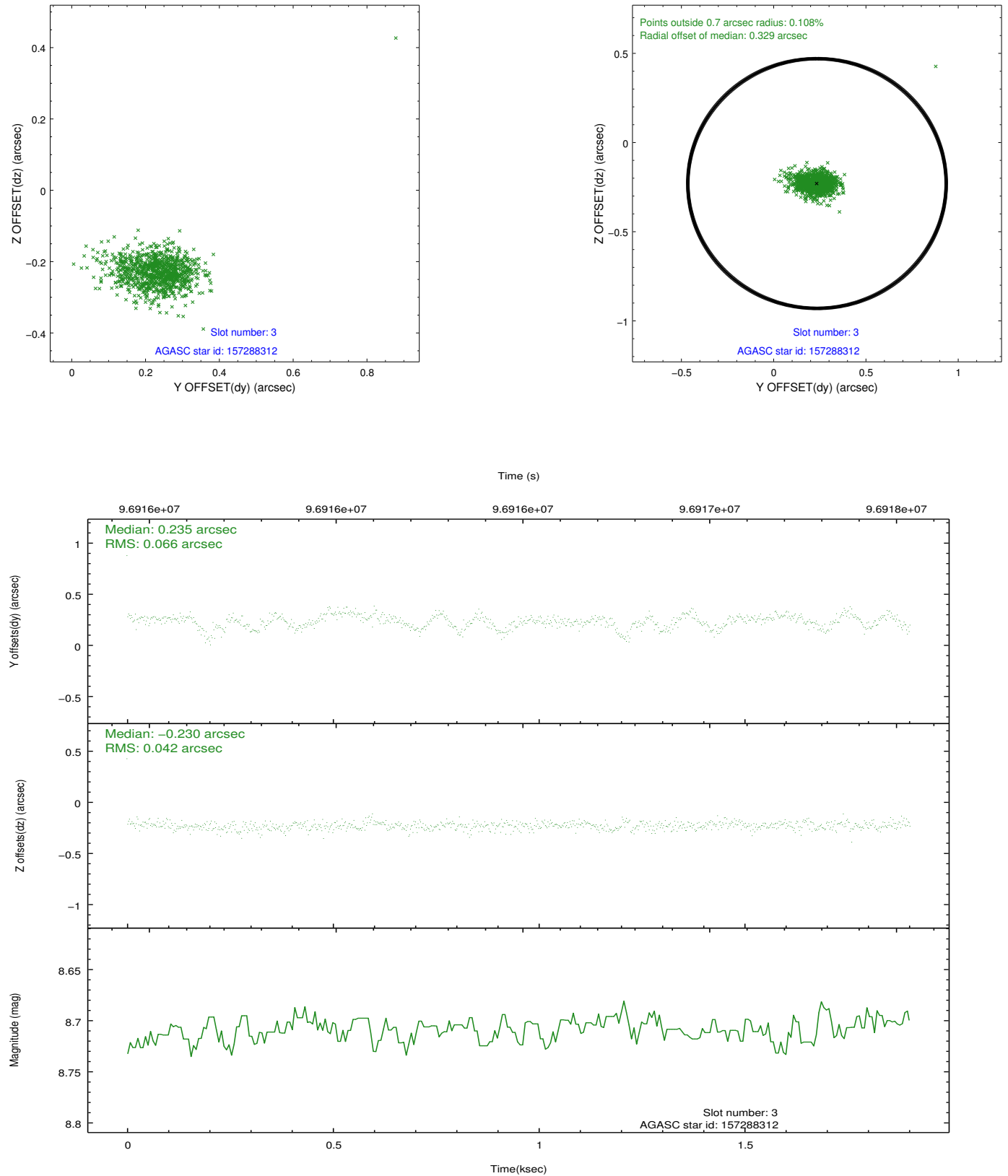
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	465	-0.016	0.030	0.006	0.013	0.000000	0.000000	937.57	-830.01
1	FID	ACIS-I-5	7.23	465	-0.013	0.048	0.006	0.011	0.000000	0.000000	-1808.56	1065.85
2	FID	ACIS-I-6	7.26	465	-0.063	-0.009	0.007	0.012	0.000000	0.000000	399.41	1714.15
3	GUIDE	157288312	8.71	929	0.235	-0.230	0.074	0.131	19.706255	19.288860	1991.87	-2402.65
4	GUIDE	157689696	8.87	928	-0.033	0.044	0.074	0.117	20.676088	20.258732	166.98	2027.78
5	GUIDE	157692544	9.04	929	-0.149	0.072	0.076	0.122	19.789453	20.423886	-1609.94	-449.49
6	GUIDE	157690680	9.02	929	-0.040	0.045	0.083	0.135	20.449687	20.628435	-1364.04	1879.33
7	GUIDE	157691632	9.58	927	-0.015	0.066	0.095	0.149	20.564337	20.358448	-318.69	1835.44

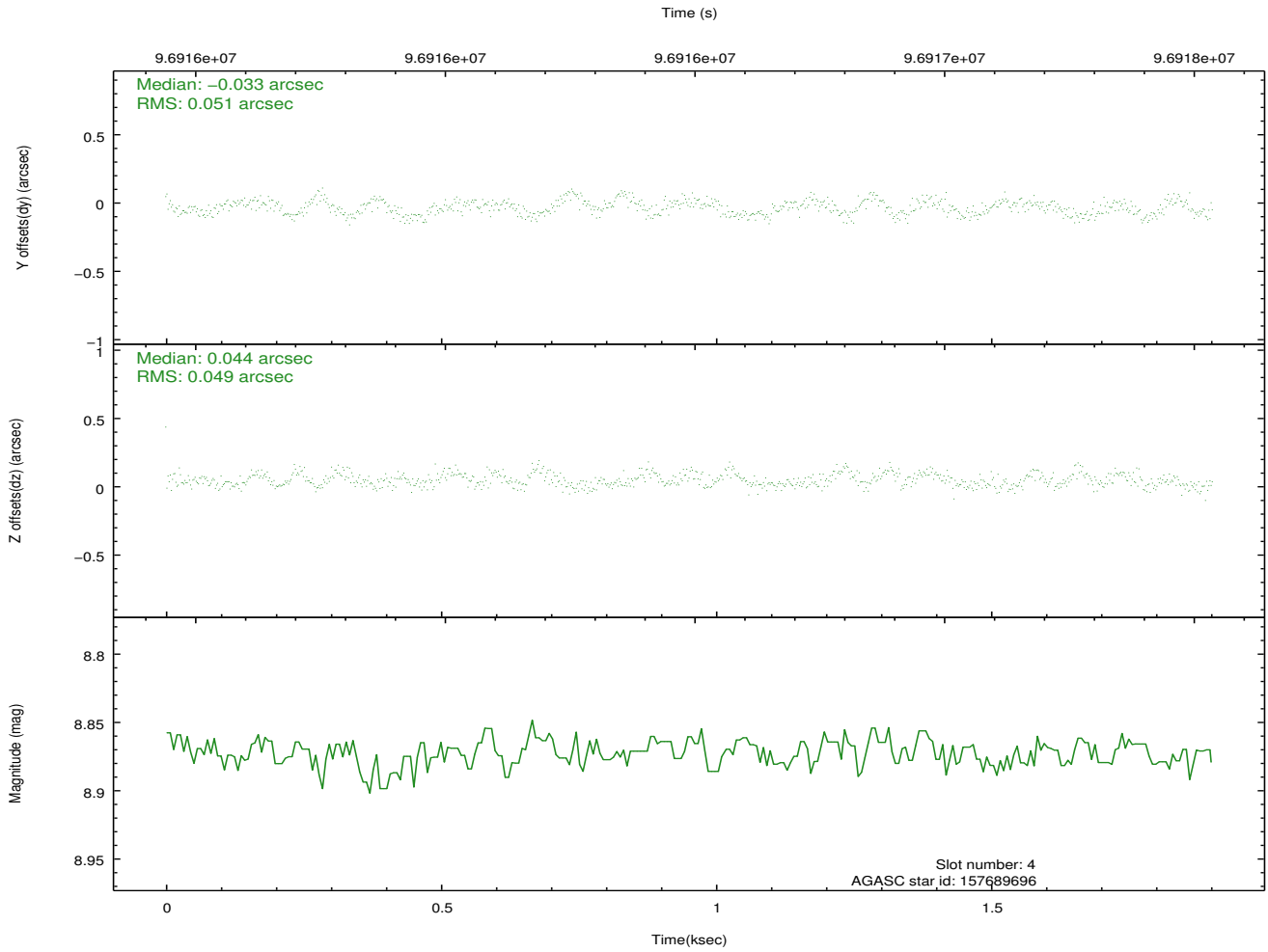
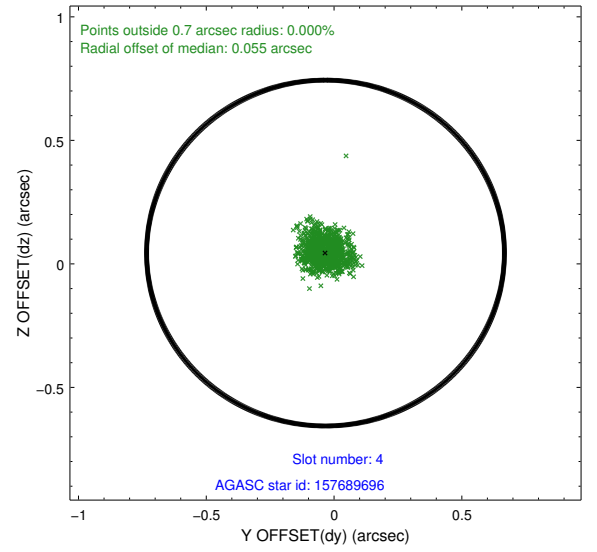
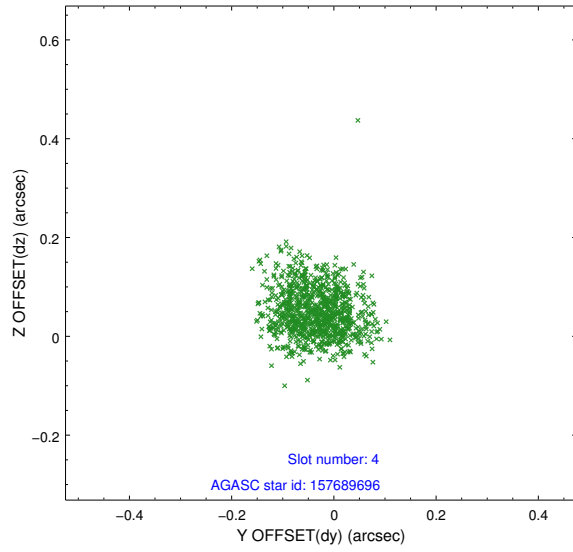


## 2.4 Star Slots

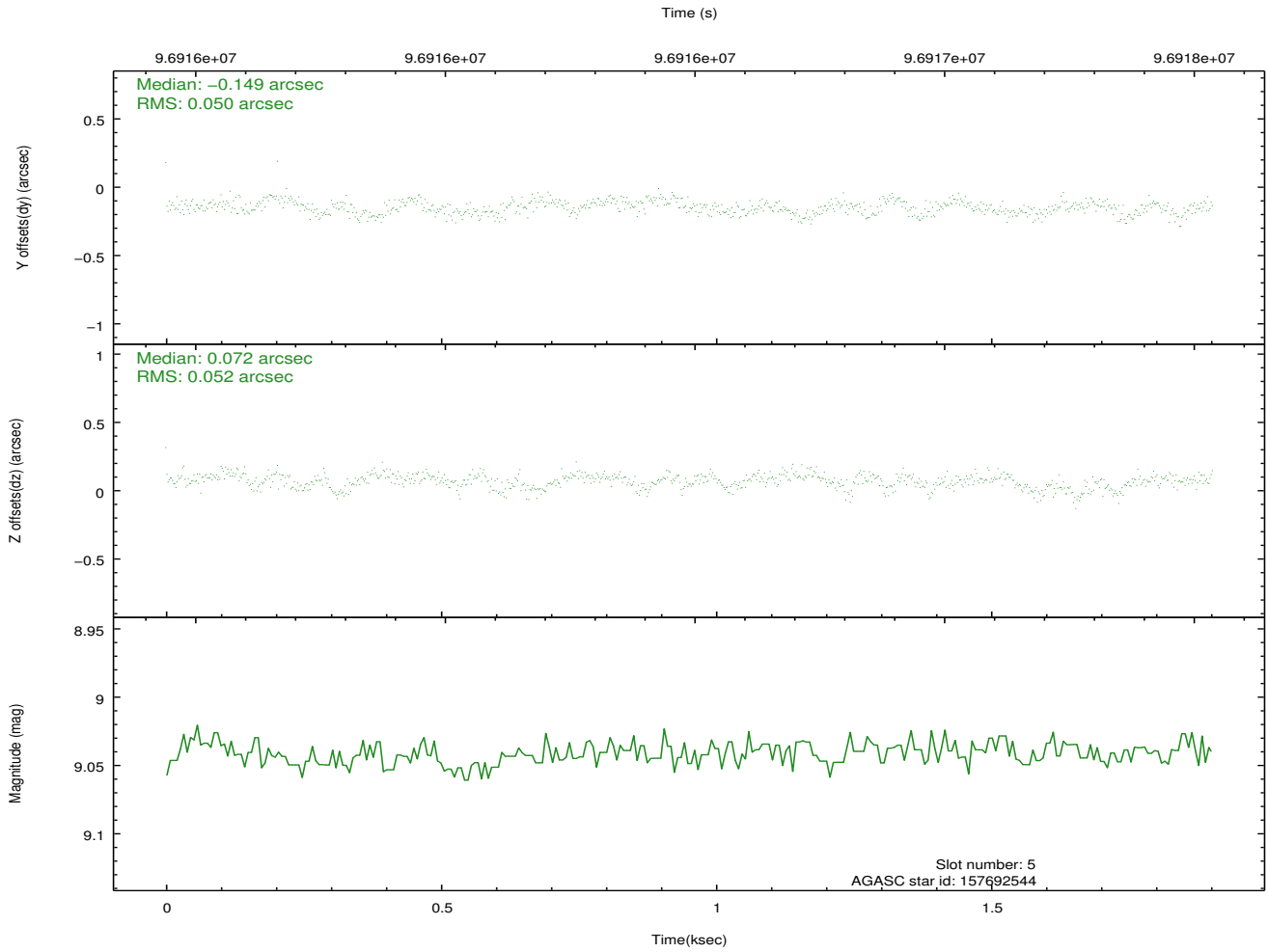
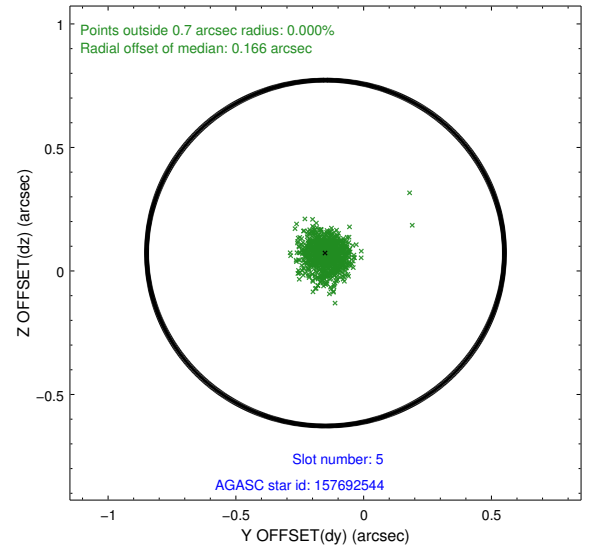
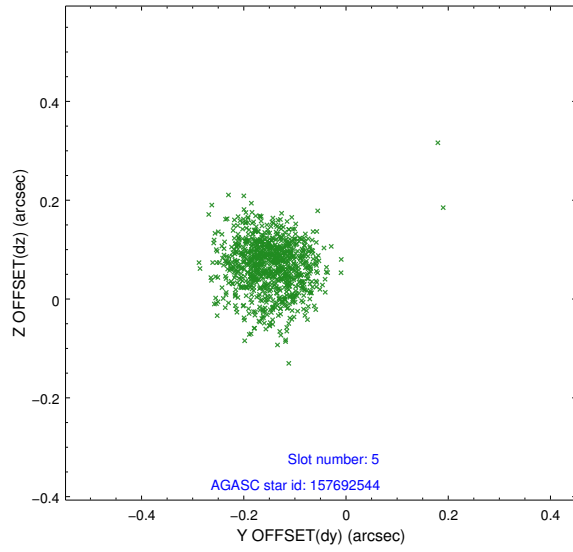
### 2.4.1 Slot 3



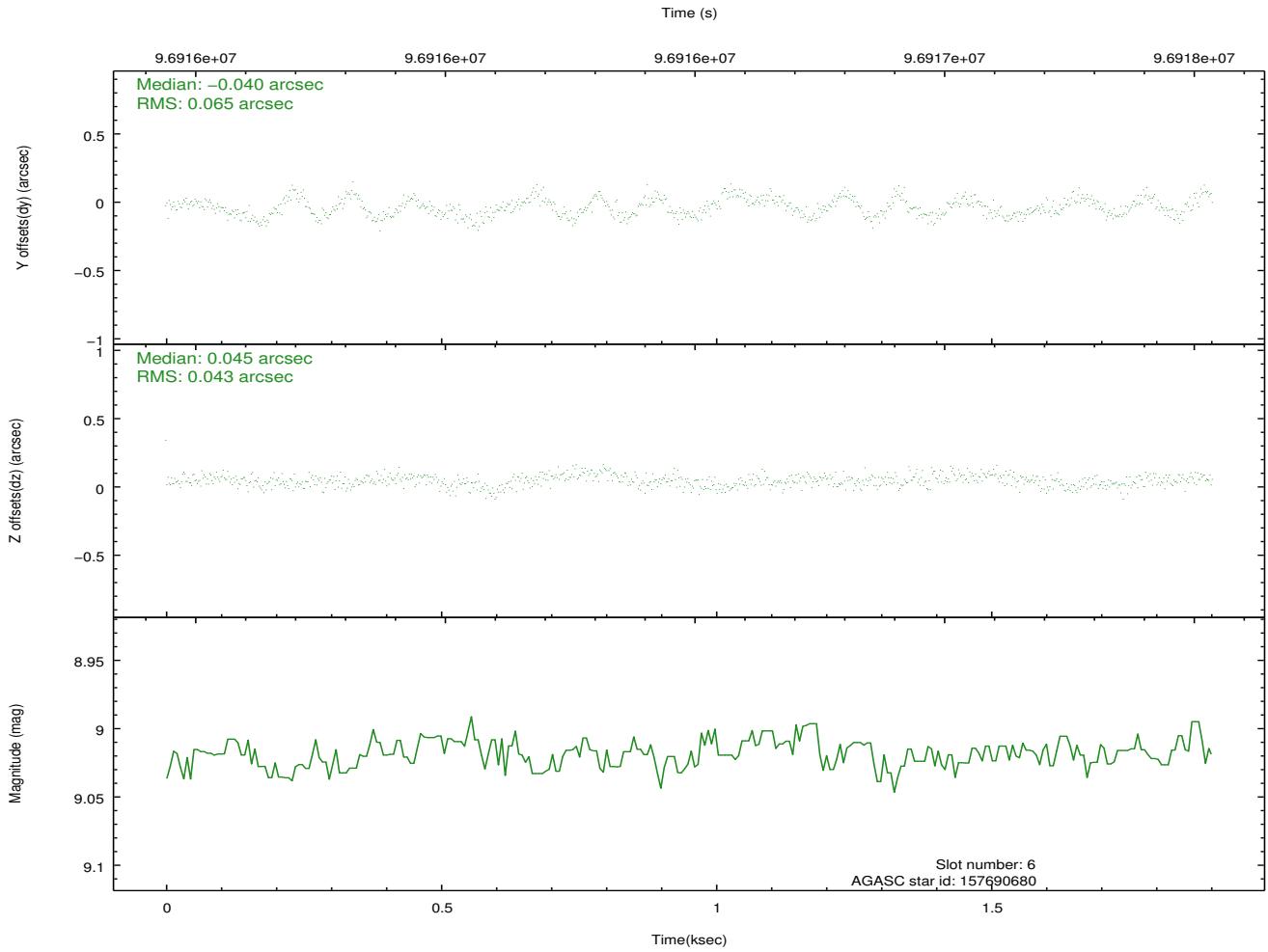
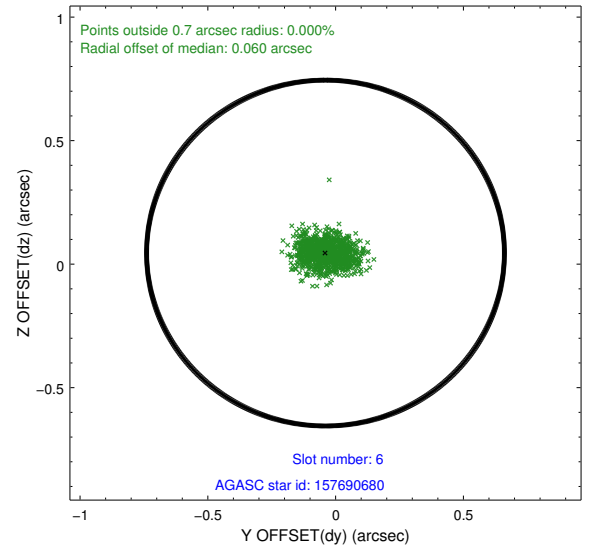
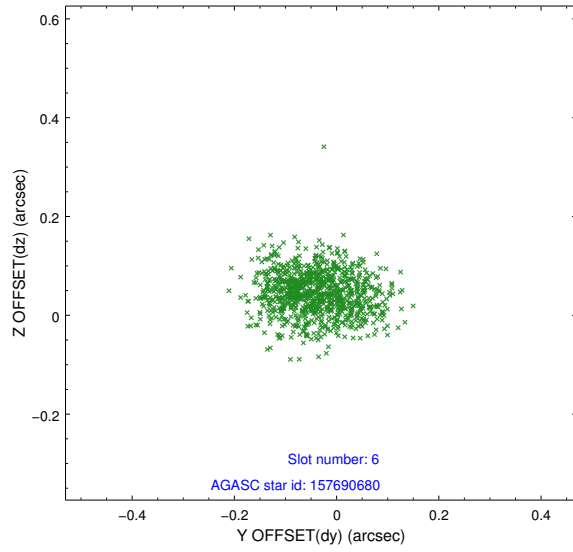
## 2.4.2 Slot 4



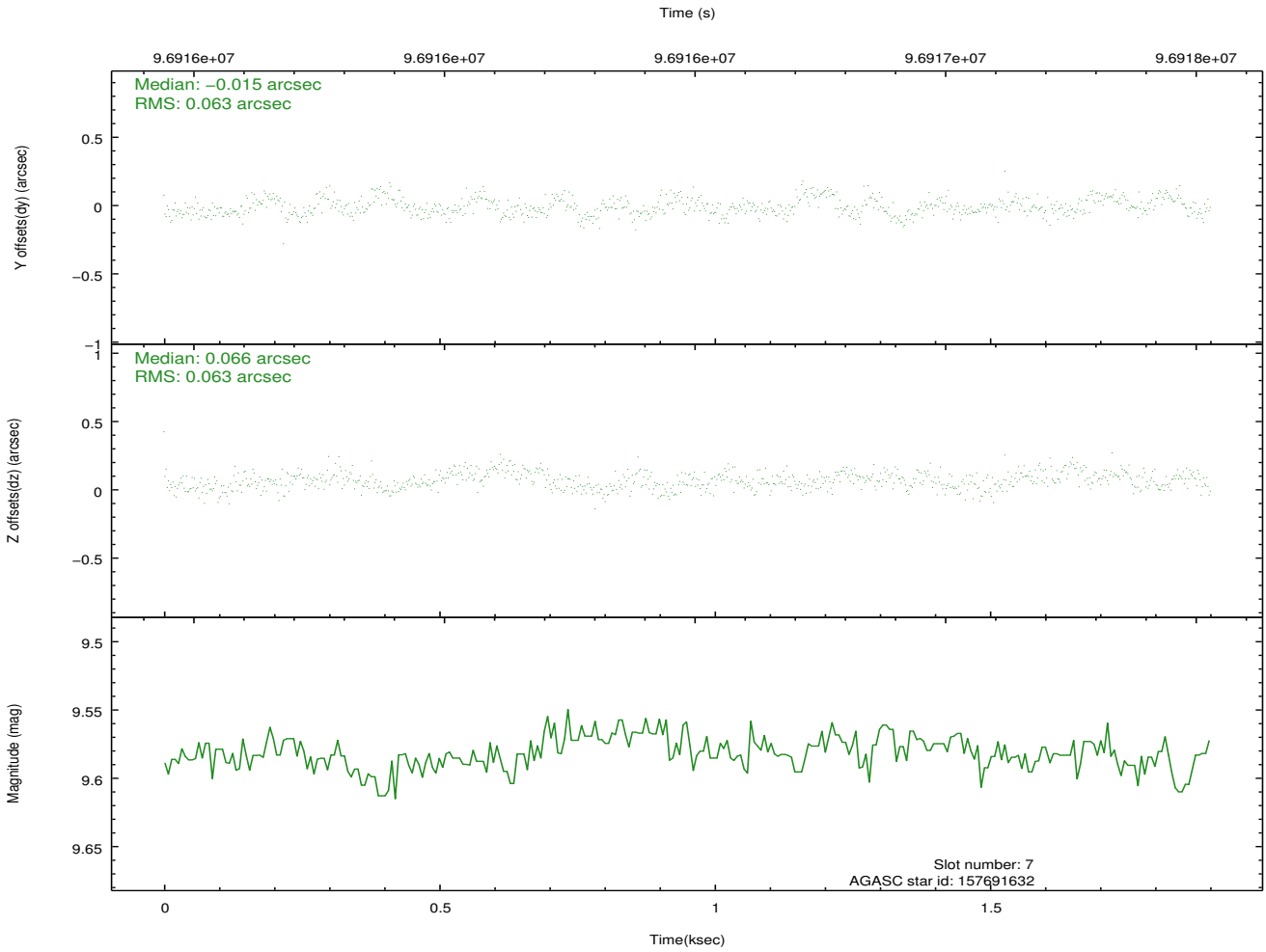
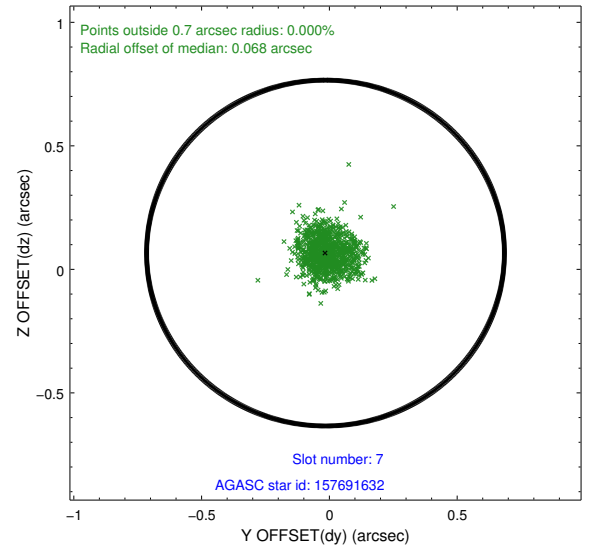
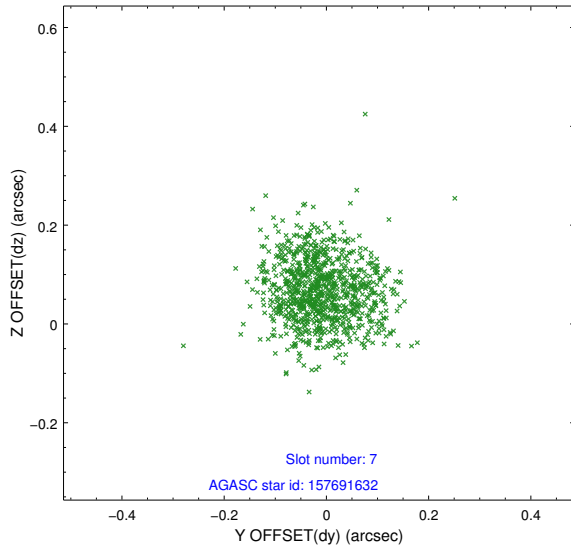
### 2.4.3 Slot 5



## 2.4.4 Slot 6

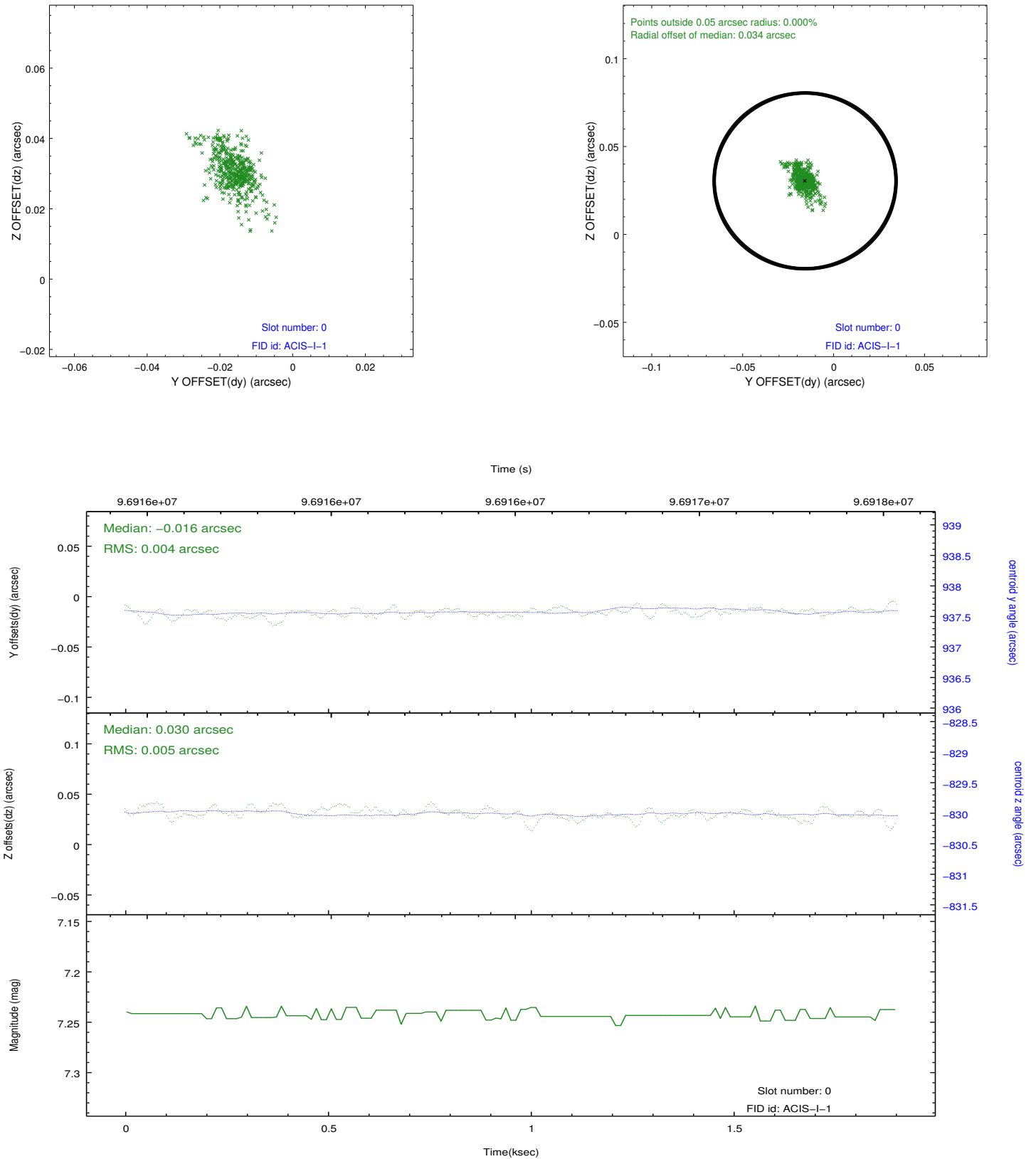


### 2.4.5 Slot 7

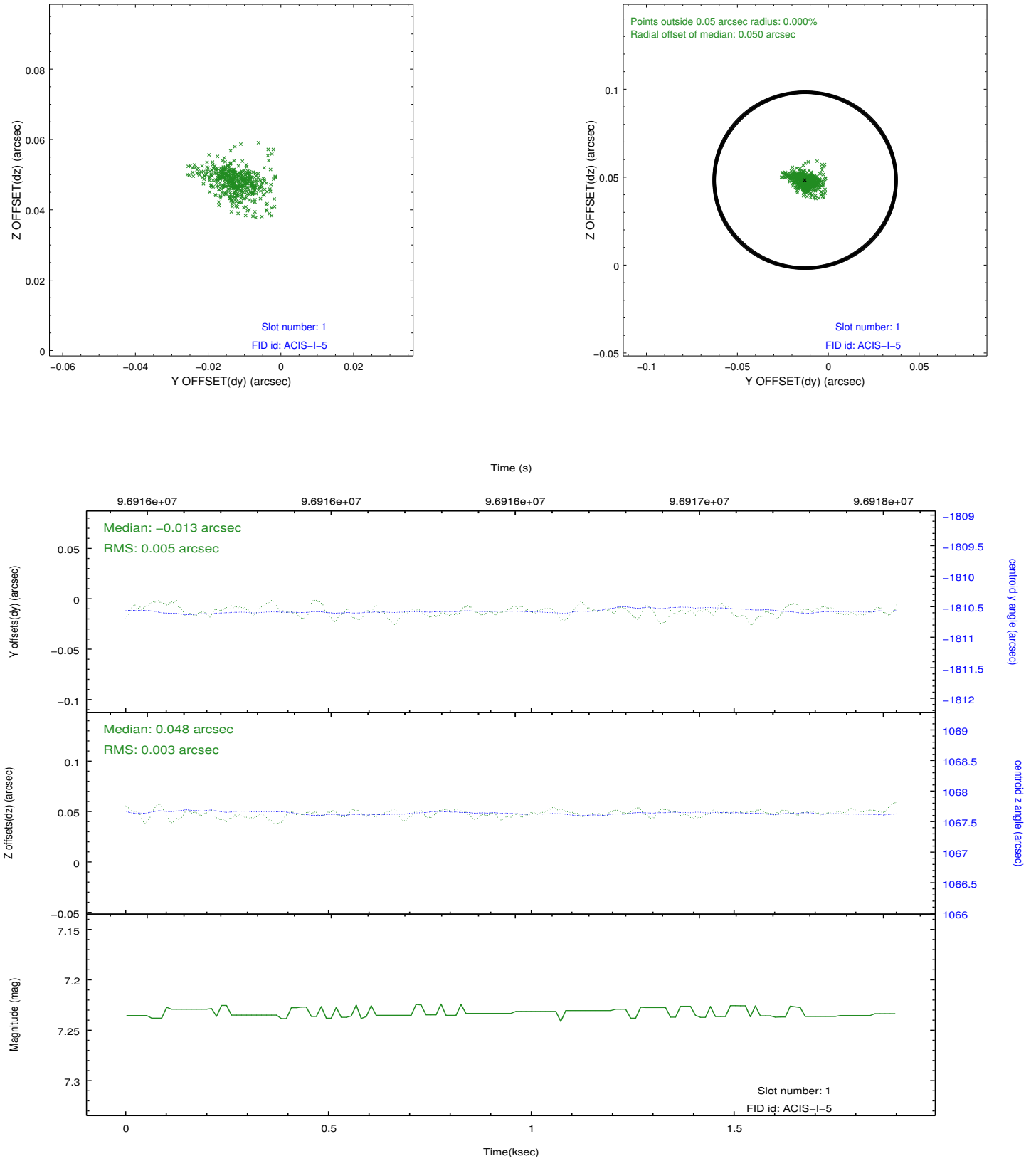


## 2.5 FID Slots

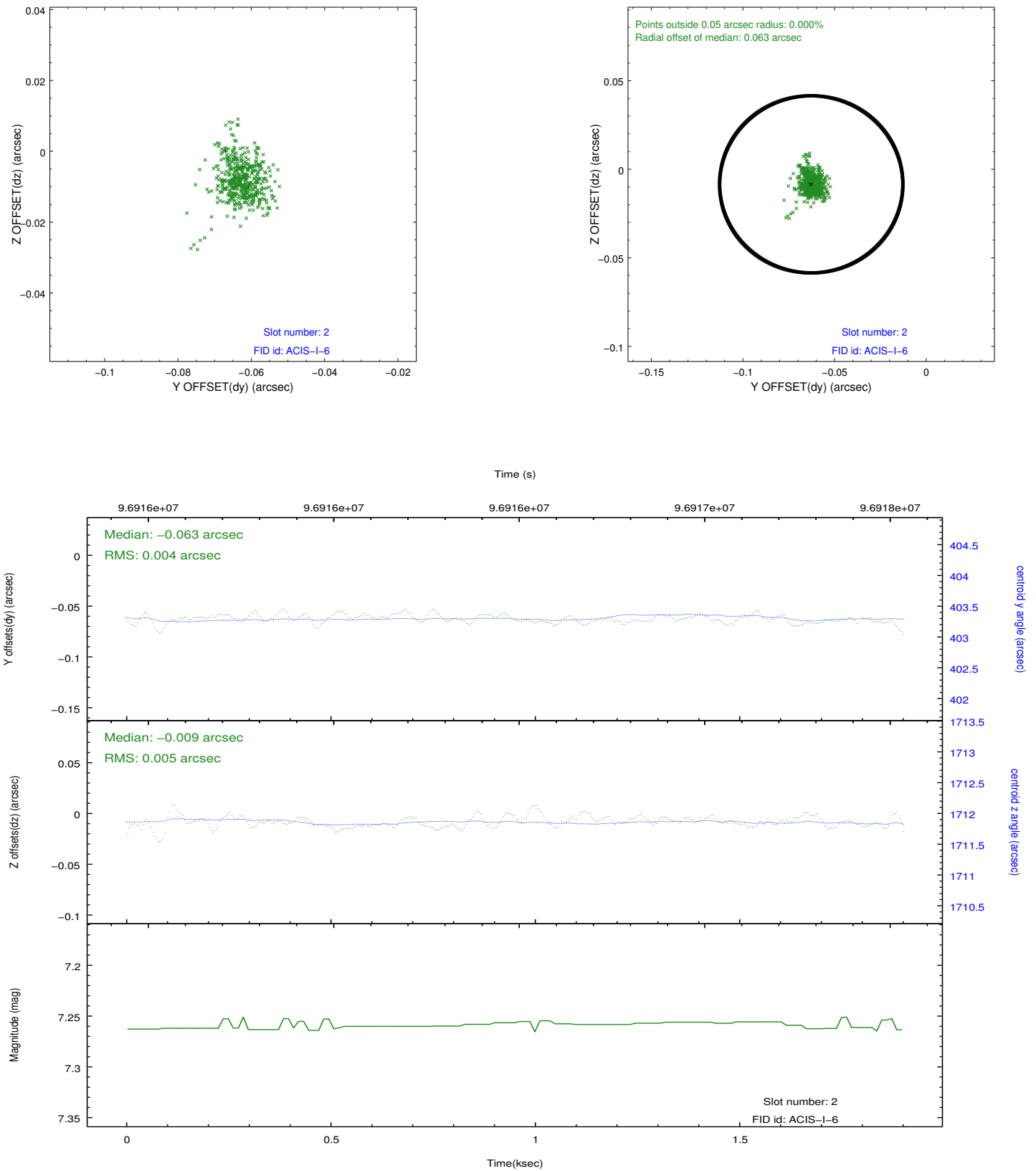
### 2.5.1 Slot 0



## 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)	2012.09.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.537

### A.2 Comments