

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3995 - L2 Version 3  
Chandra X-Ray Center

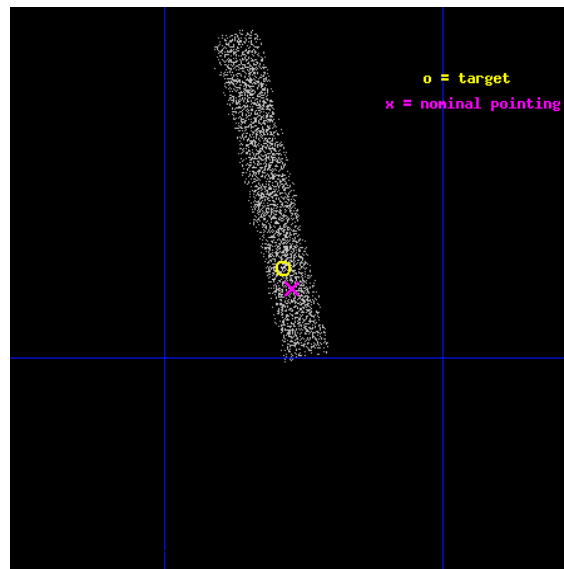
L2 Processing Date : Nov 1 2012

## 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

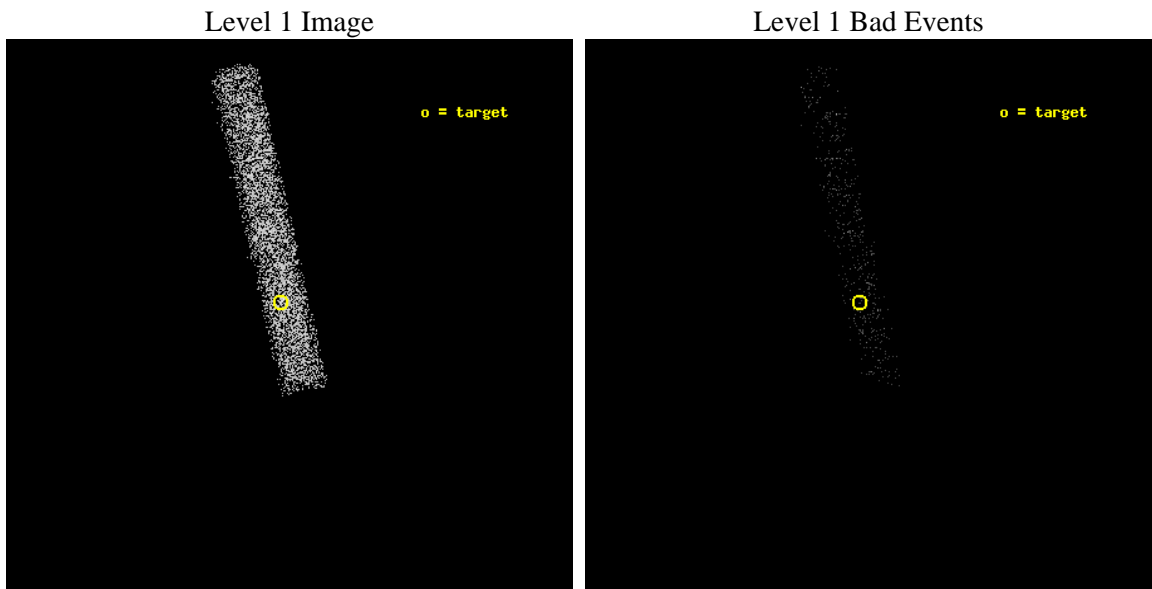
seq_num	700674	Sequence number
obs_id	3995	Observation id
title	AN X-RAY SURVEY OF RADIO-SELECTED LOW-LUMINOSITY AGNS	Proposal tit
observer	Dr. Yuichi Terashima	Principal investigator
object	NGC 4168	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	183.071667	Observer's specified target RA [deg]
dec_targ	13.205194	Observer's specified target Dec [deg]
ra_nom	183.06785274478	Nominal RA [deg]
dec_nom	13.196190307131	Nominal Dec [deg]
roll_nom	257.26671209678	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5136.2359463871	Sum of GTIs [s]
livetime	4658.2948906104	Livetime [s]
ontime7	5136.2359463871	Sum of GTIs [s]
l2events	3734	Number of level 2 events



## 2 OBI

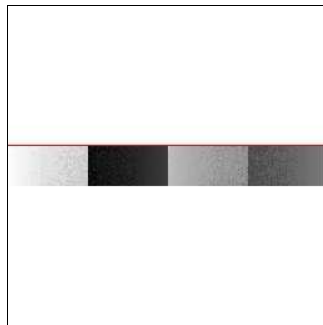
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4942.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5136.2359463871	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime7	5136.2359463871	Sum of GTIs [s]
date	2012-11-01T10:31:18	Date and time of file creation	l1events	7821	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	7821
rejected events	3969
rejected %	50%

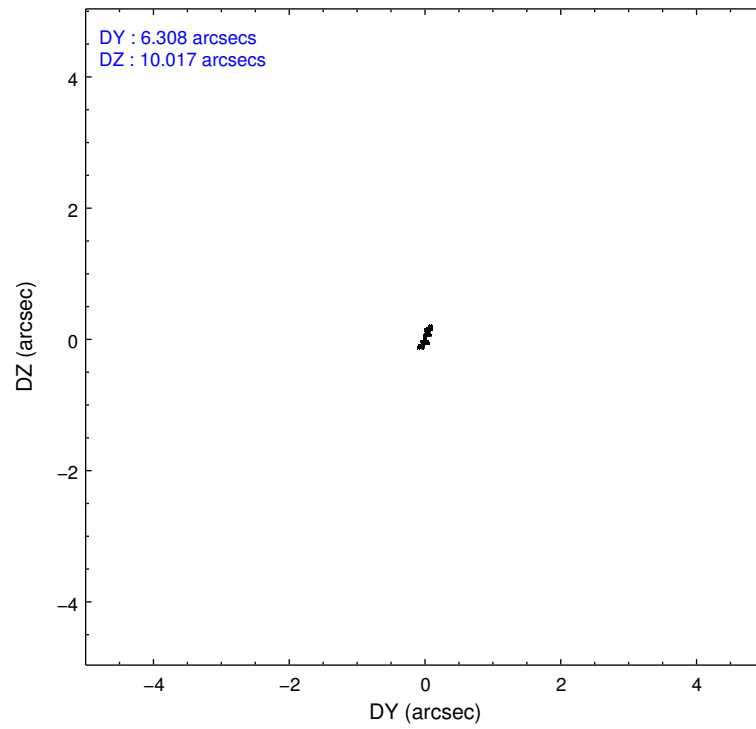
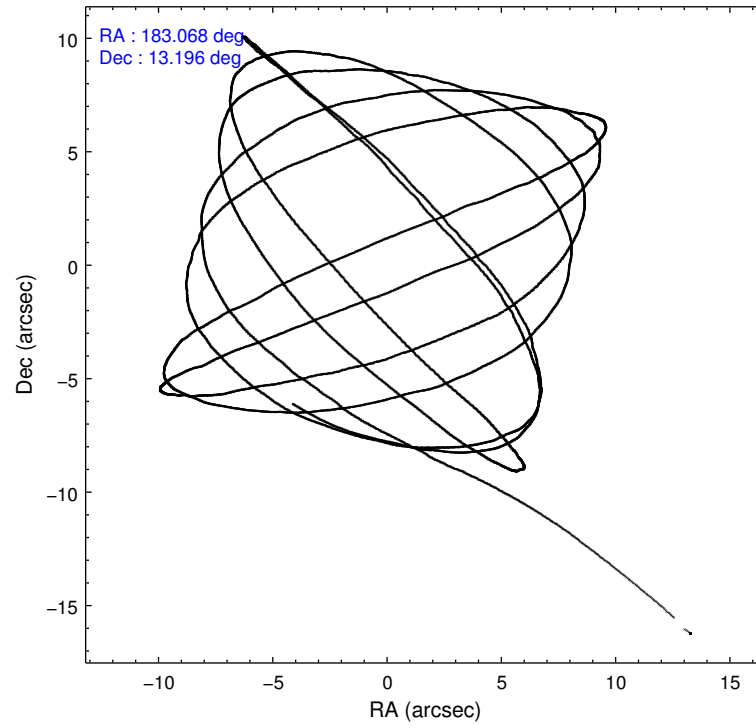
	<b>ccd 7</b>
grade 0 events	487
	6%
grade 1 events	8
	0%
grade 2 events	855
	10%
grade 3 events	481
	6%
grade 4 events	452
	5%
grade 5 events	623
	7%
grade 6 events	2154
	27%
grade 7 events	2761
	35%

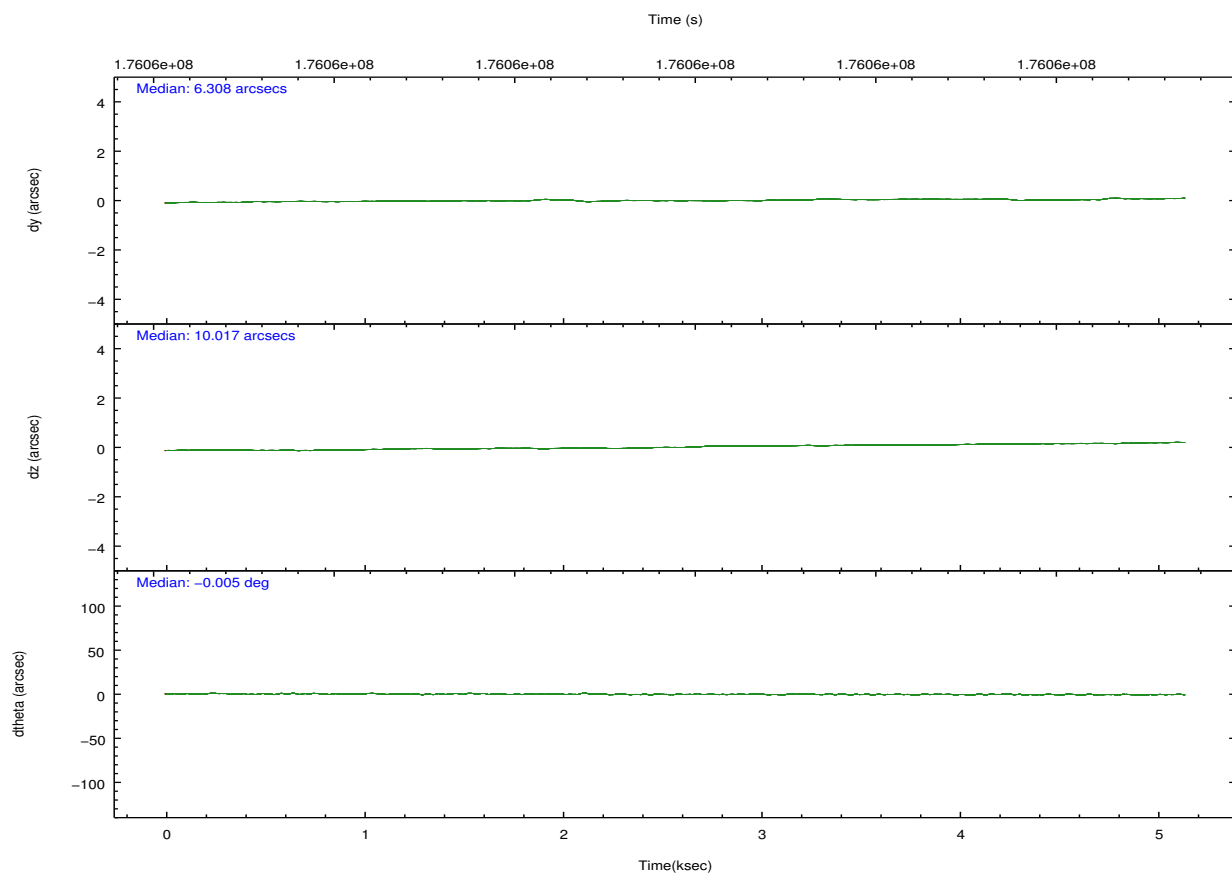
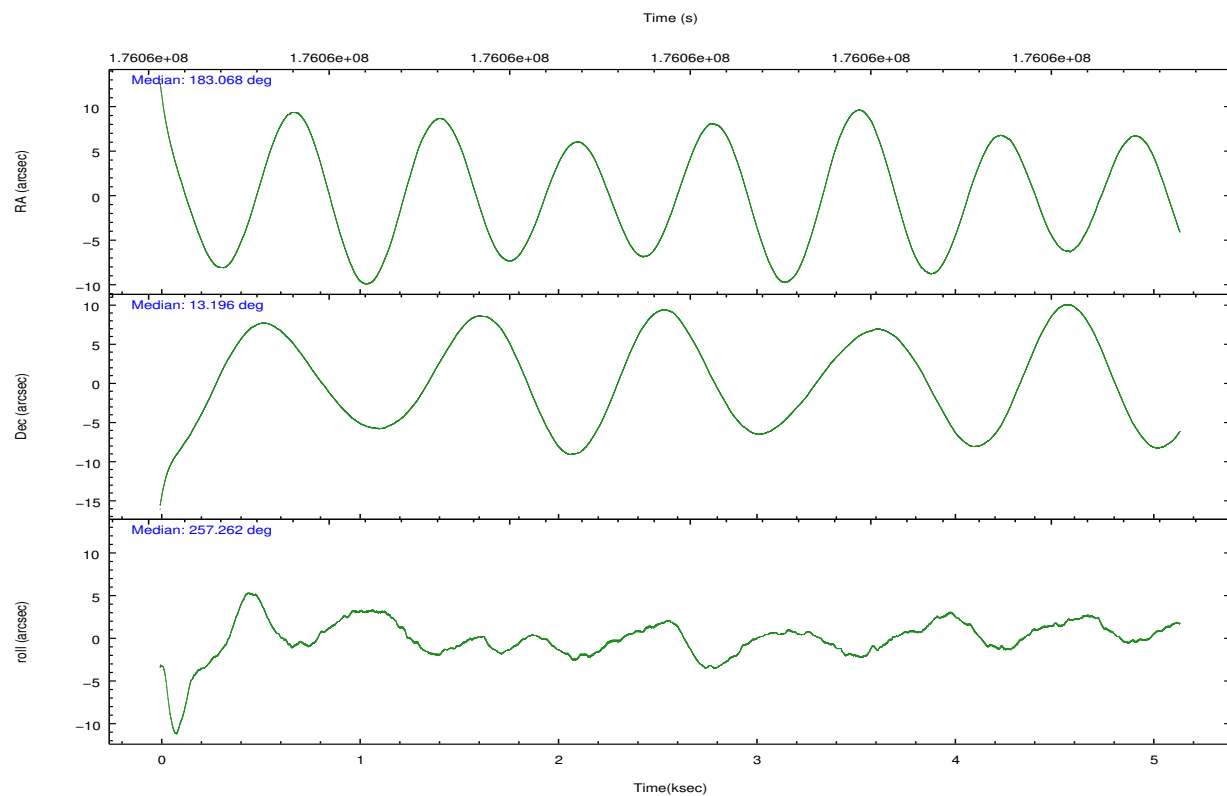


## 2.2 Compared Parameters

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	183.059155	183.0678527447849	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	13.222172	13.19619030713135	Subarray start row	449	449
[deg] Pointing Roll	257.112049	257.2667120967824	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	176056509.184000	176055527.16481			
Observation start date	2003-07-31T16:34:05	2003-07-31T16:18:47			
[s] Observation end time (MET)	176061451.184000	176062394.1526			
Observation end date	2003-07-31T17:56:27	2003-07-31T18:13:14			
Read mode	TIMED	TIMED			

## 2.3 Aspect



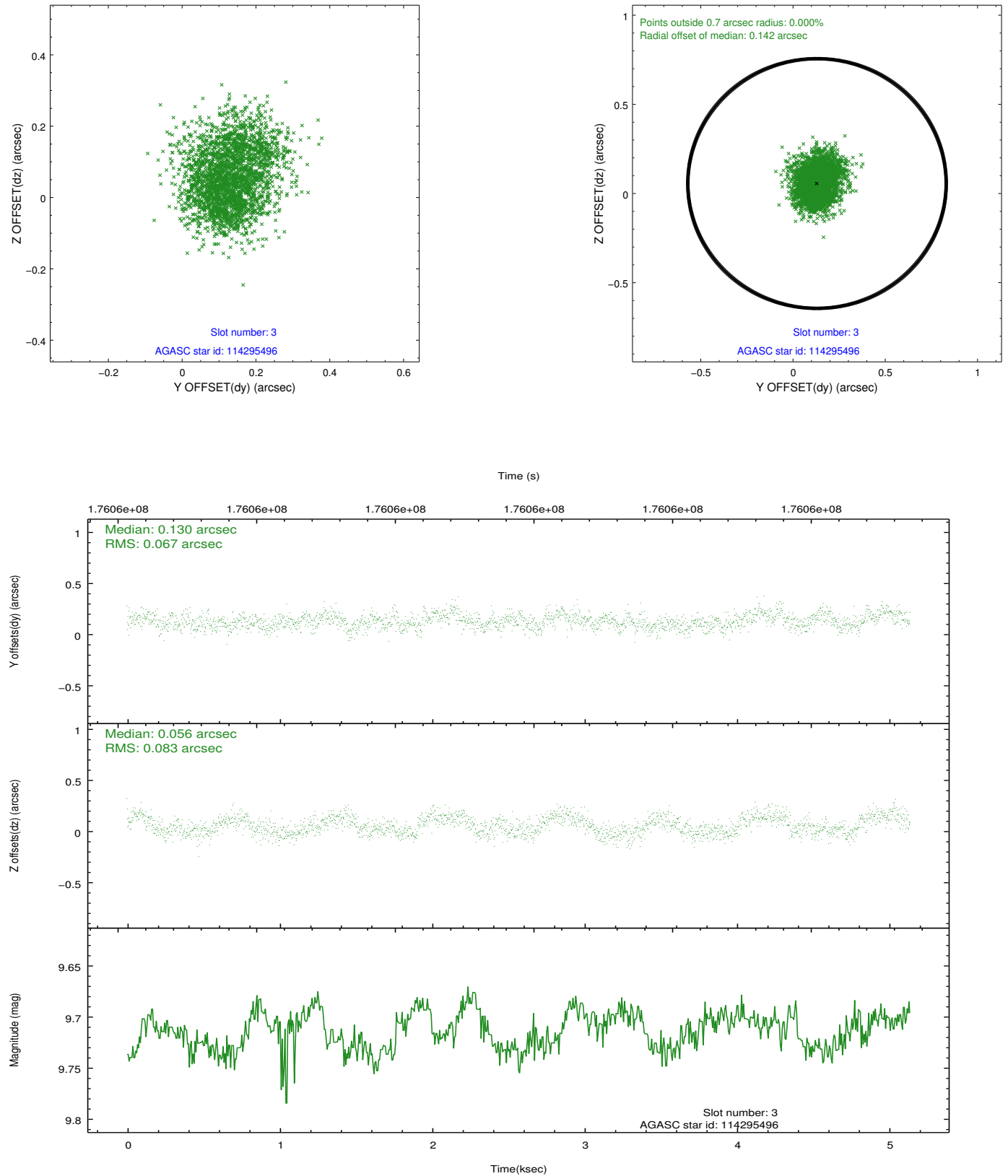


### Slot Statistics

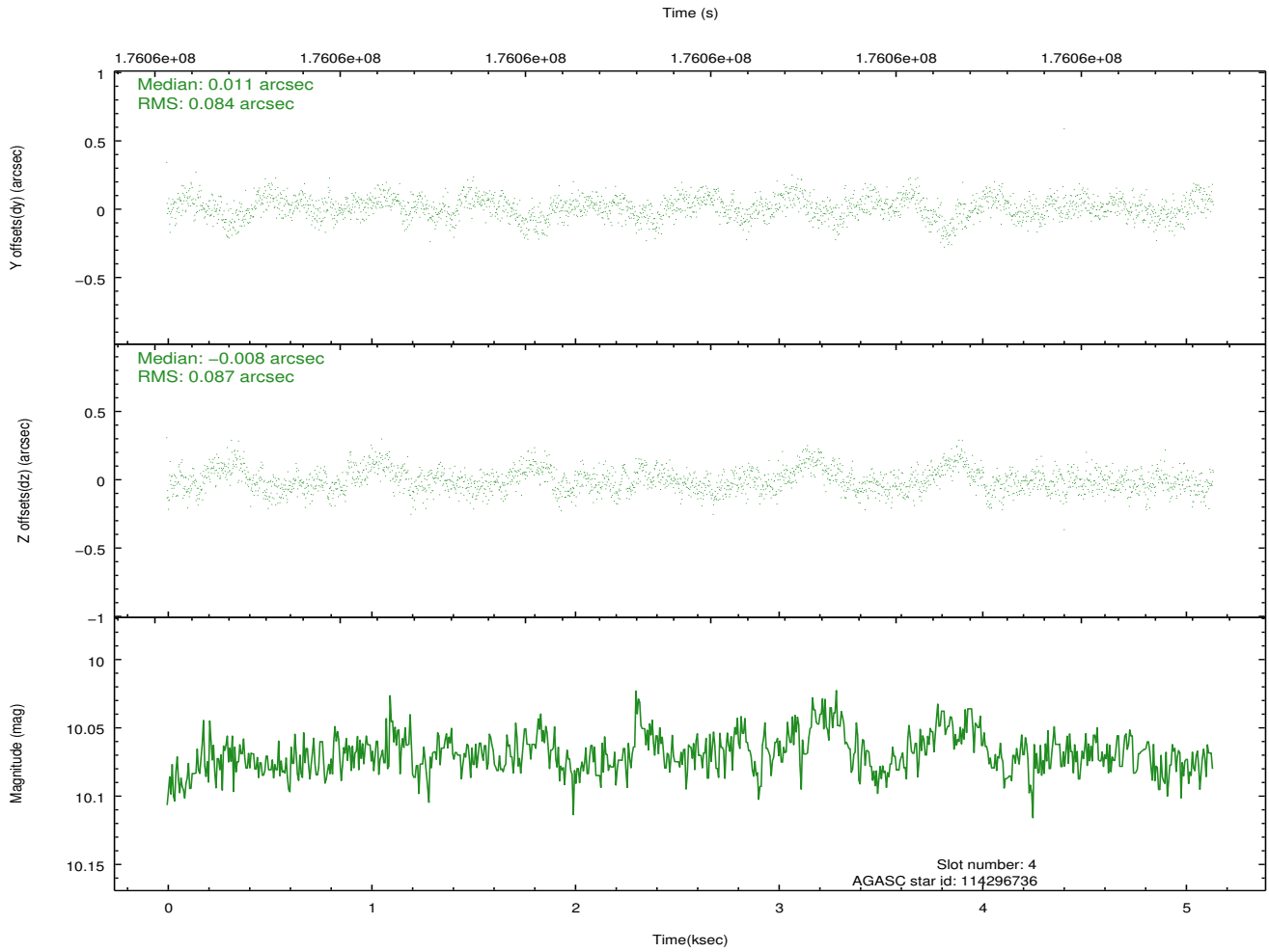
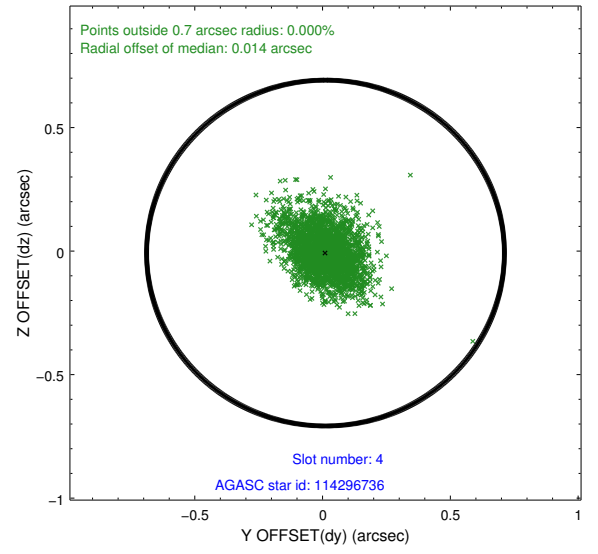
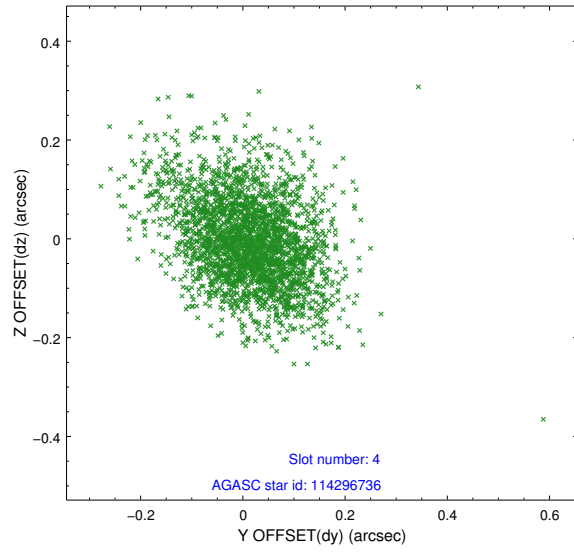
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1252	-0.059	-0.016	0.007	0.011	0.000000	0.000000	-759.08	-1731.31
1	FID	ACIS-S-4	7.20	1252	0.068	0.033	0.005	0.009	0.000000	0.000000	2153.76	176.04
2	FID	ACIS-S-5	7.23	1252	-0.040	-0.008	0.006	0.011	0.000000	0.000000	-1810.41	170.96
3	GUIDE	114295496	9.71	2504	0.130	0.056	0.114	0.181	183.211405	12.908034	983.16	773.08
4	GUIDE	114296736	10.07	2506	0.011	-0.008	0.124	0.216	182.549729	12.936724	1399.32	-1513.16
5	GUIDE	114297560	9.49	2504	-0.083	-0.201	0.096	0.150	182.810843	13.553506	-968.65	-1114.16
6	GUIDE	114299584	10.01	2501	-0.054	0.062	0.120	0.194	182.944088	13.572183	-1138.77	-674.01
7	GUIDE	114300512	9.08	2502	-0.005	0.084	0.083	0.129	183.274843	13.061330	395.01	866.21

## 2.4 Star Slots

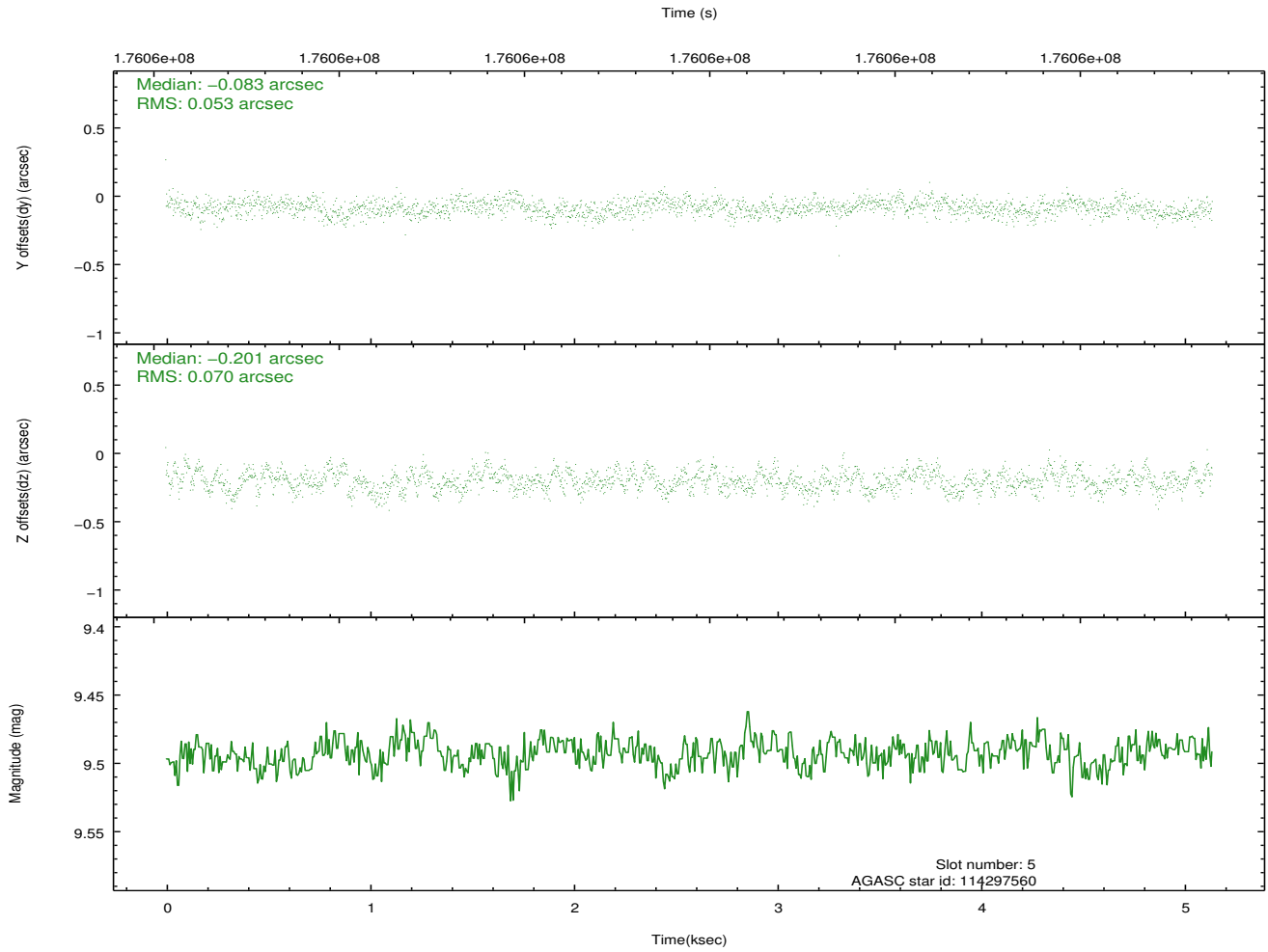
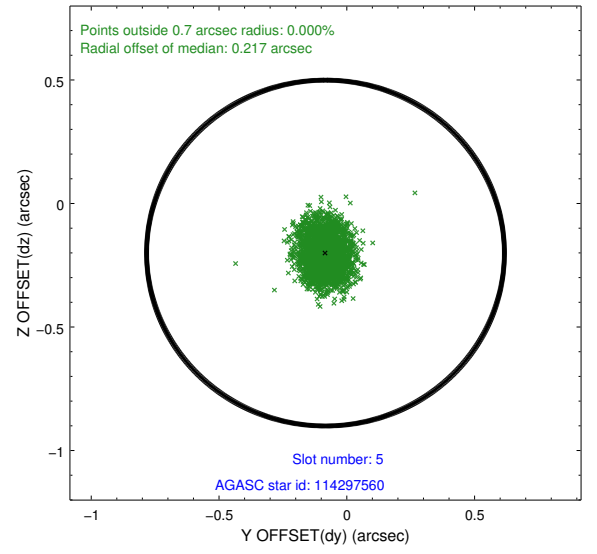
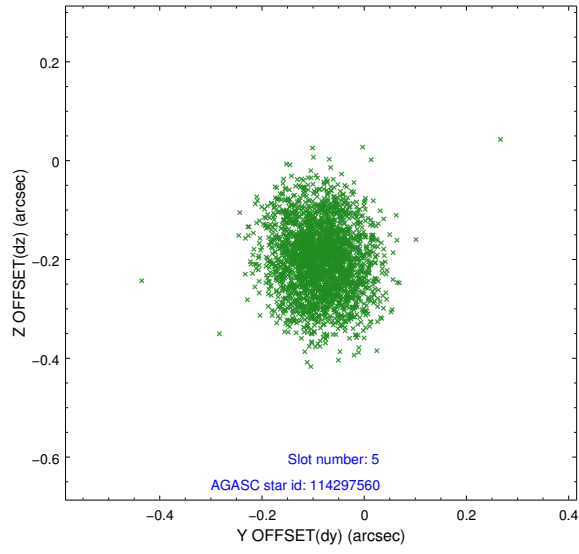
### 2.4.1 Slot 3



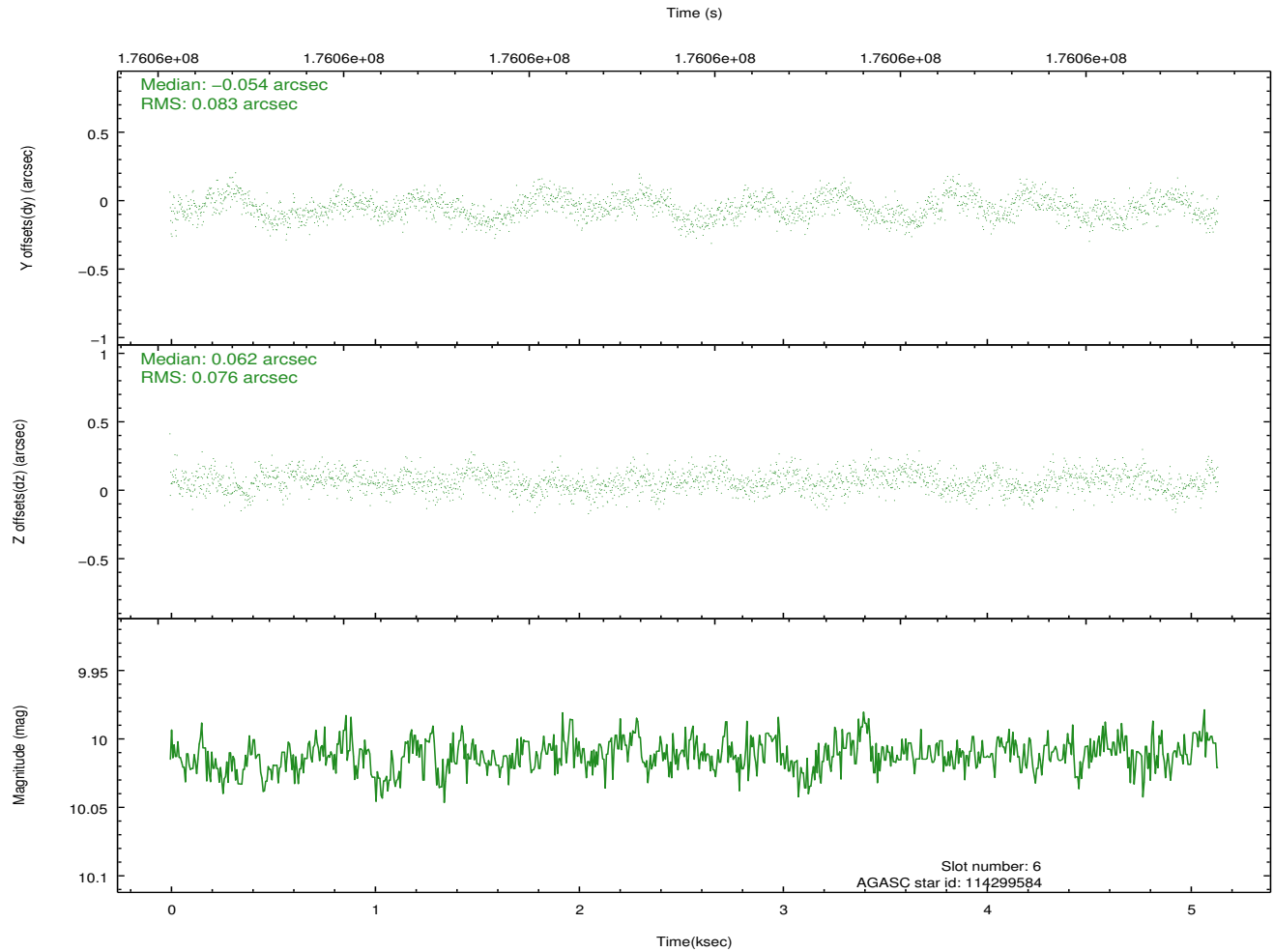
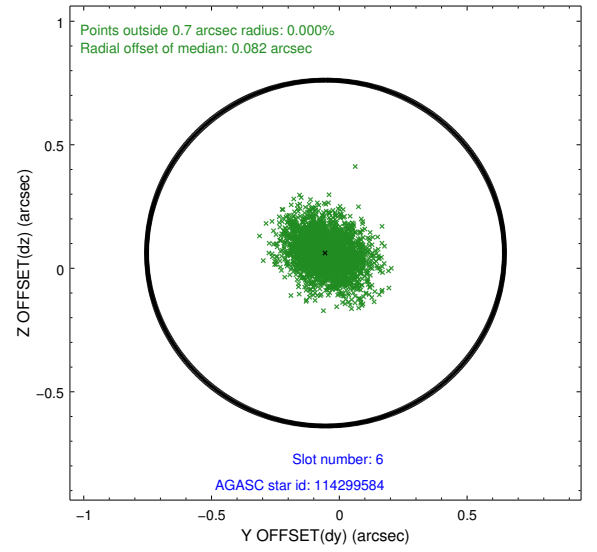
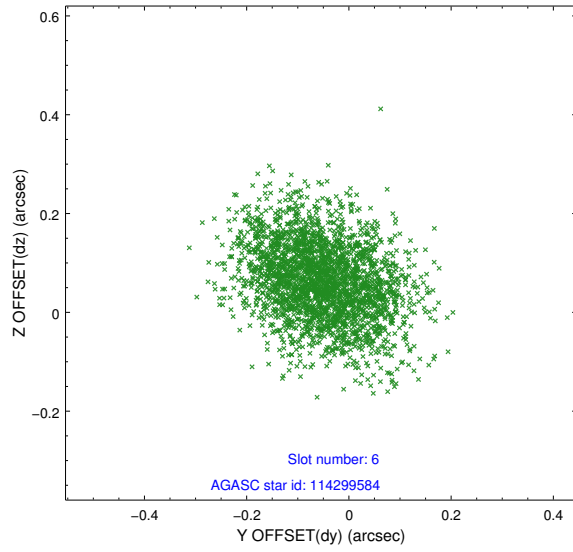
## 2.4.2 Slot 4



### 2.4.3 Slot 5

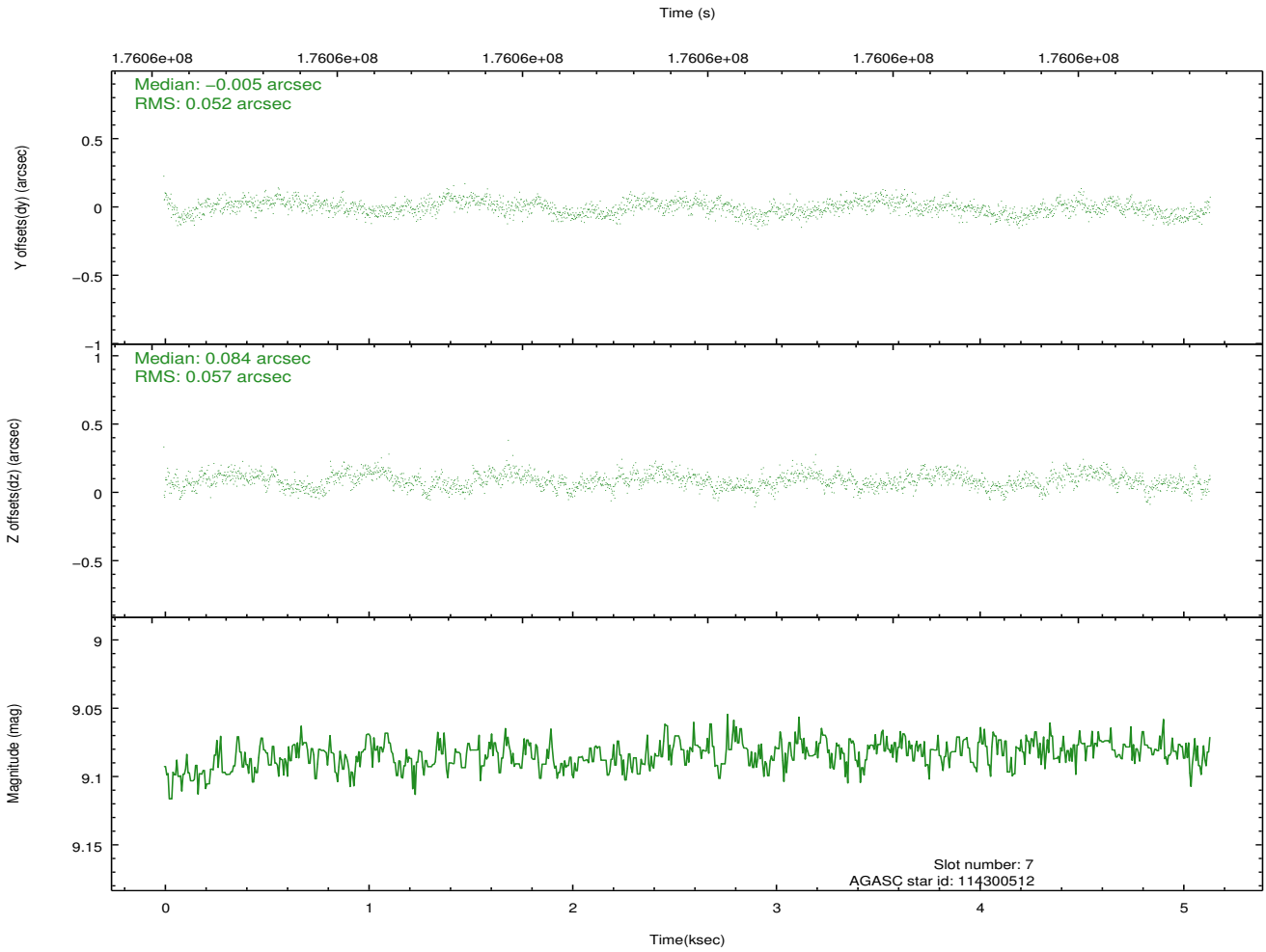
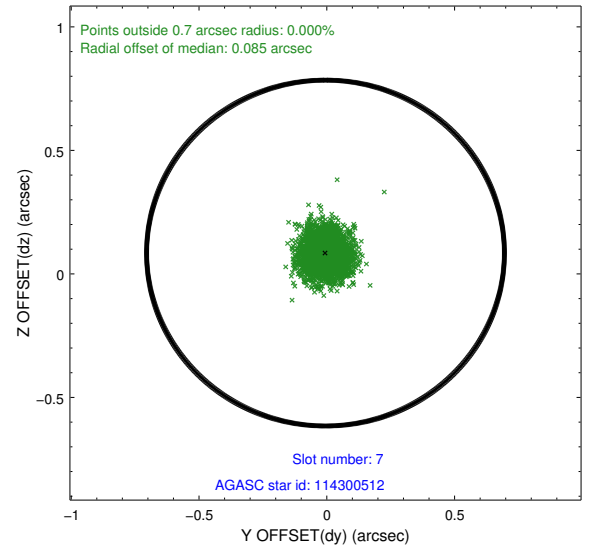
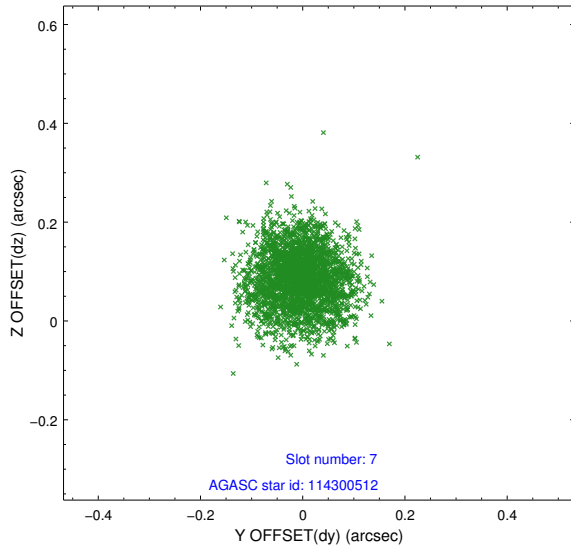


## 2.4.4 Slot 6



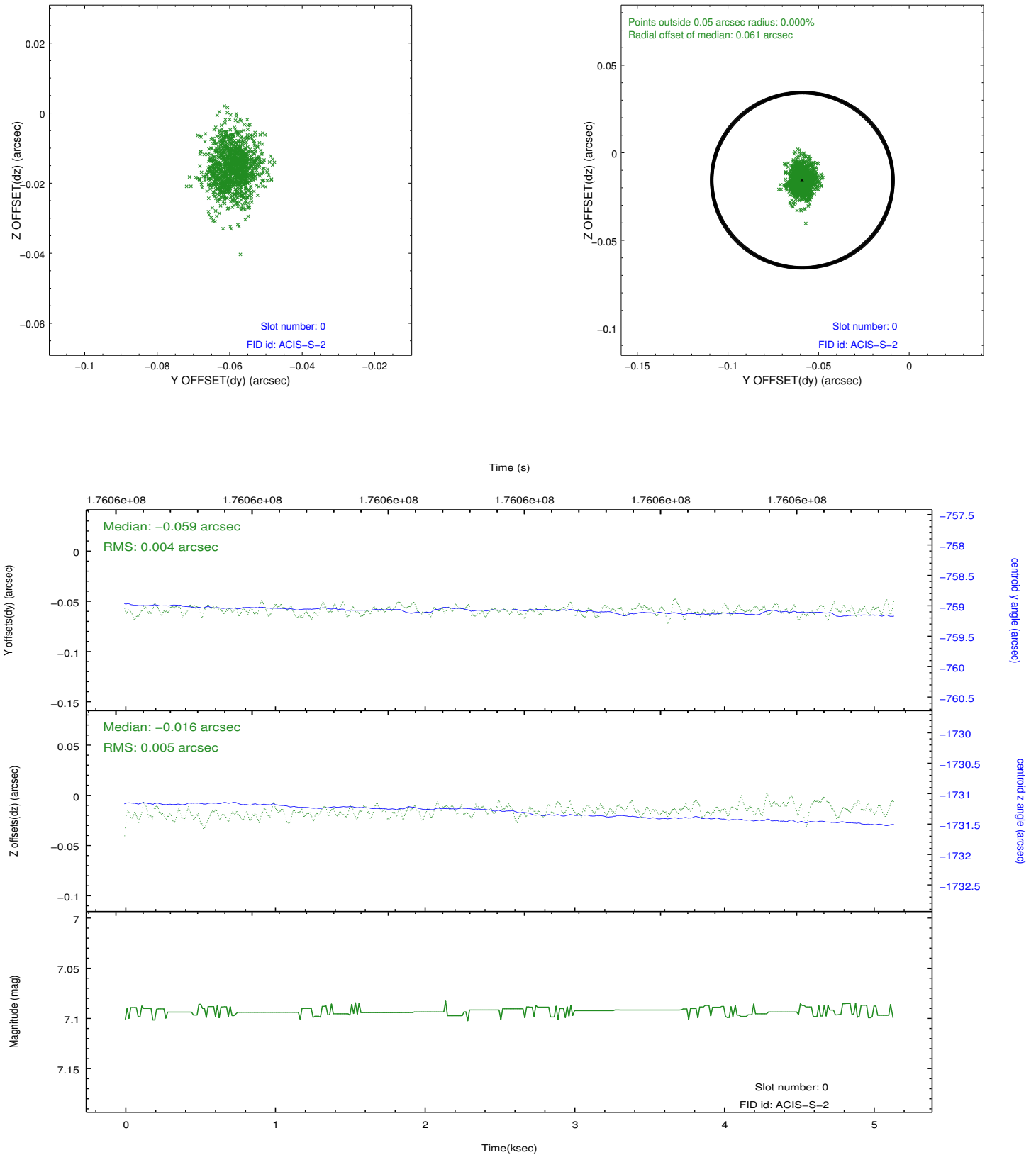


## 2.4.5 Slot 7

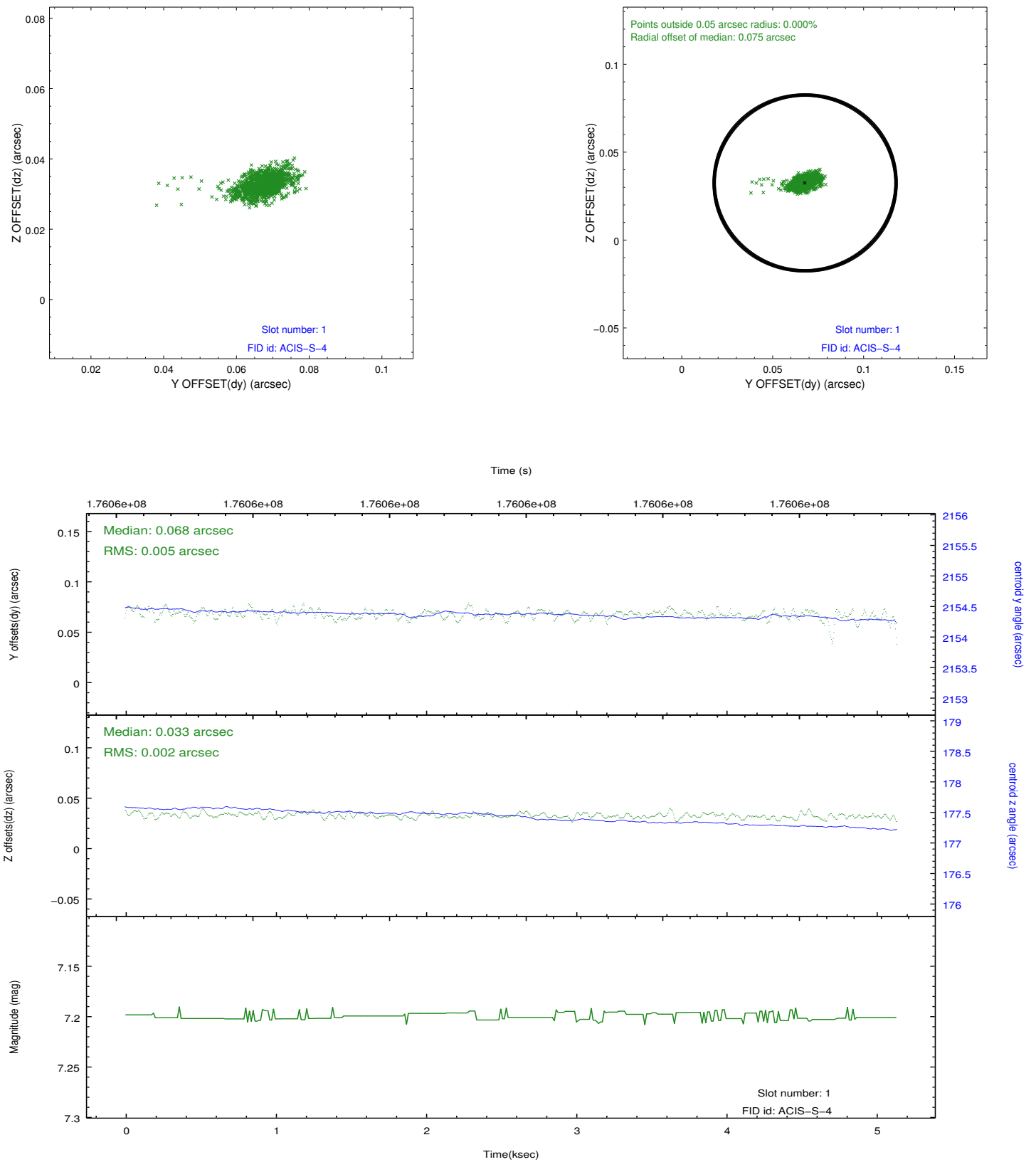


## 2.5 FID Slots

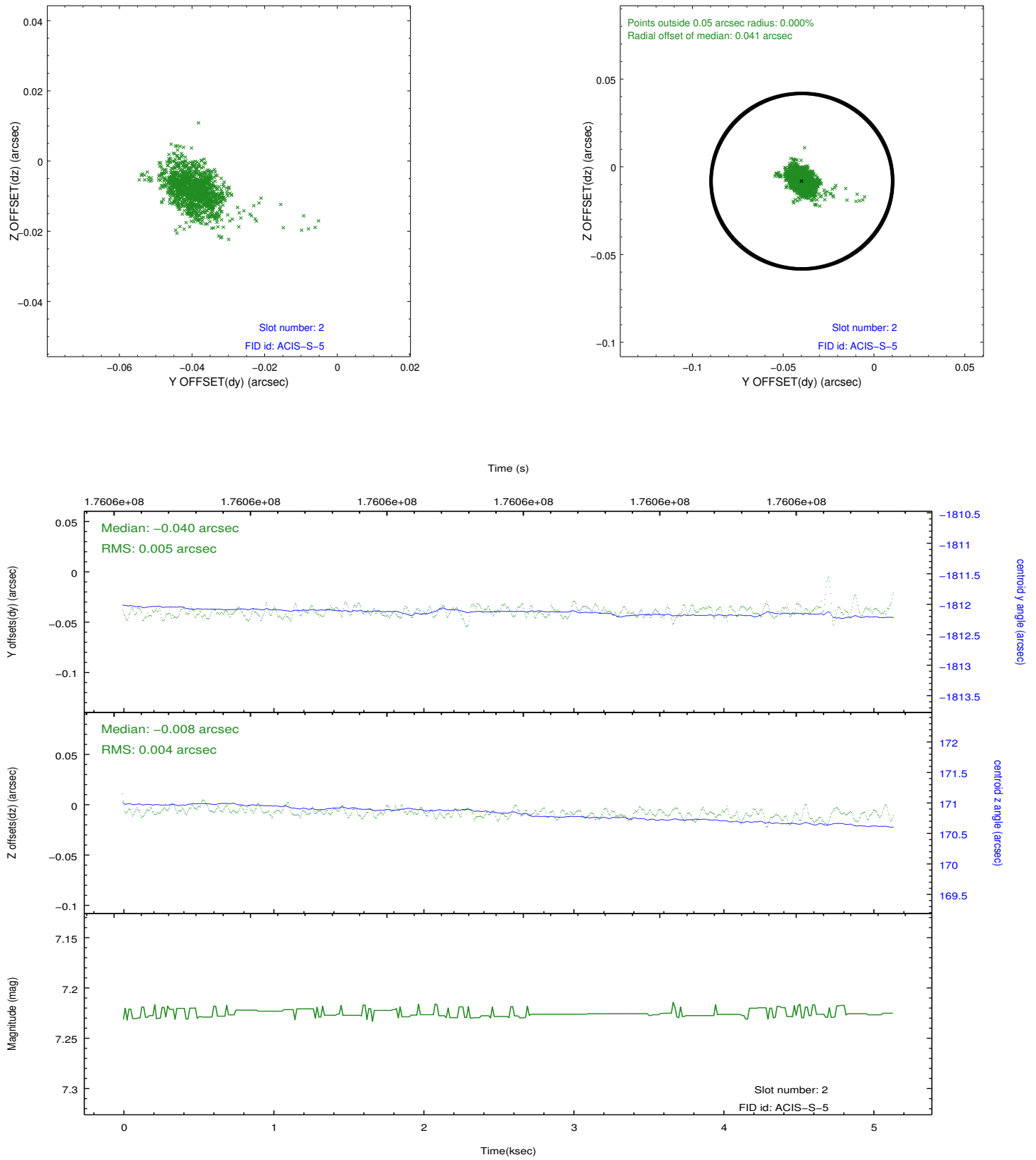
### 2.5.1 Slot 0



## 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)	2012.11.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.129

### A.2 Comments