

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 4599 - L2 Version 4  
Chandra X-Ray Center

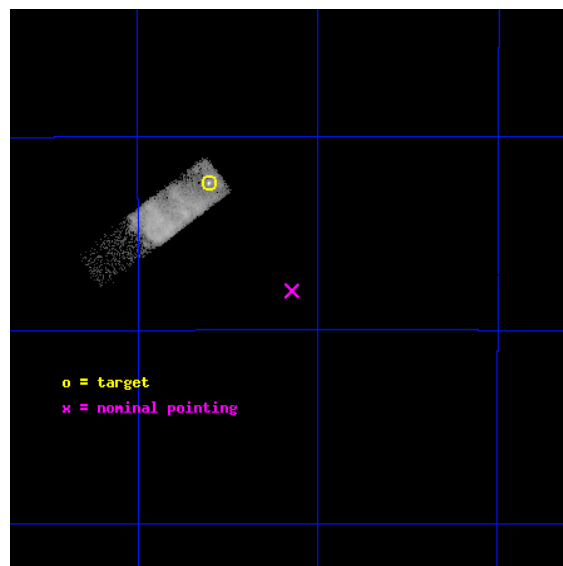
L2 Processing Date : Dec 10 2012

## 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

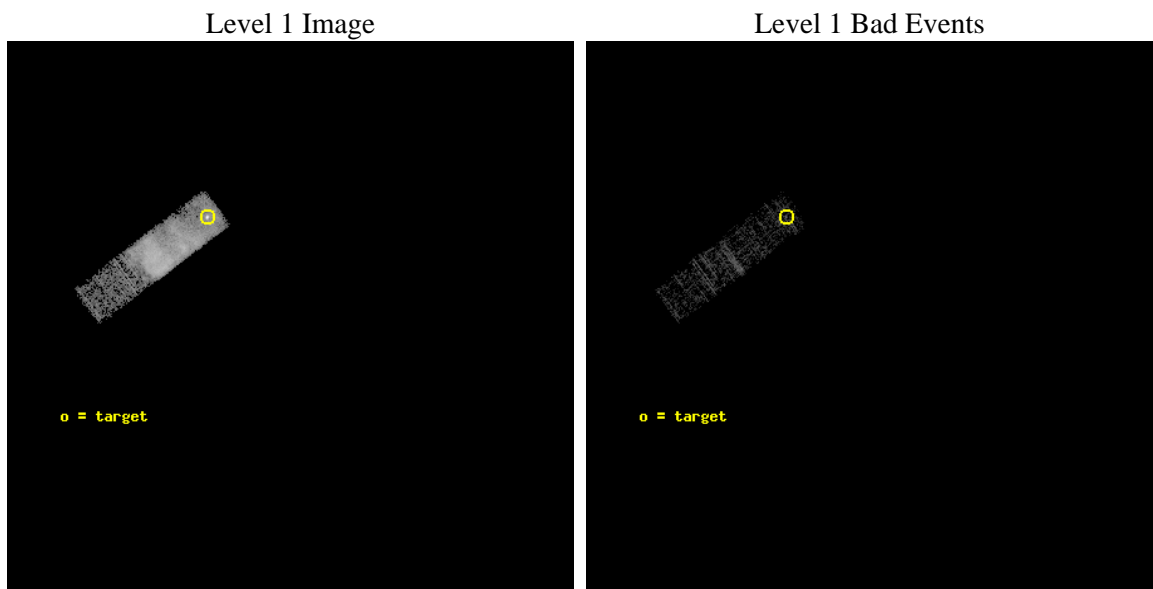
seq_num	500424	Sequence number
obs_id	4599	Observation id
title	Observation of SNR RCW103	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	RCW103	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	244.40125	Observer's specified target RA [deg]
dec_targ	-51.040278	Observer's specified target Dec [deg]
ra_nom	244.28596198149	Nominal RA [deg]
dec_nom	-51.133048840722	Nominal Dec [deg]
roll_nom	233.03580672262	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5144.0000766516	Sum of GTIs [s]
livetime	4892.9897047956	Livetime [s]
ontime3	5144.0000766516	Sum of GTIs [s]
l2events	33708	Number of level 2 events



## 2 OBI

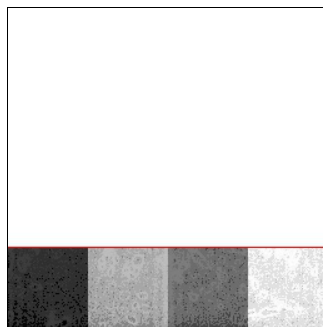
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 3



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	5144.0000766516	Sum of GTIs [s]
caldsver	4.5.4	&#160	ontime3	5144.0000766516	Sum of GTIs [s]
date	2012-12-10T09:37:06	Date and time of file creation	l1events	48395	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

	<b>ccd 3</b>
level 1 events	48395
rejected events	13336
rejected %	27%

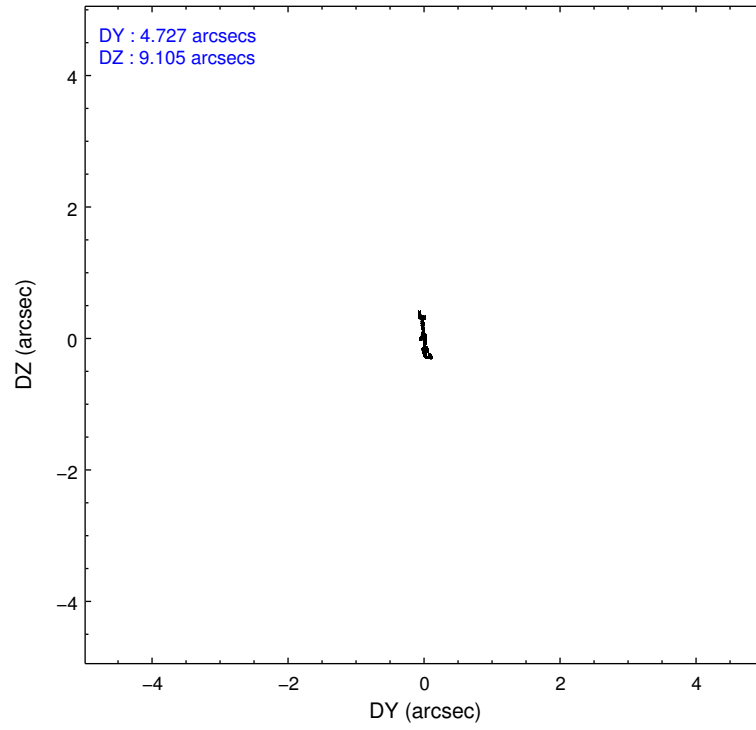
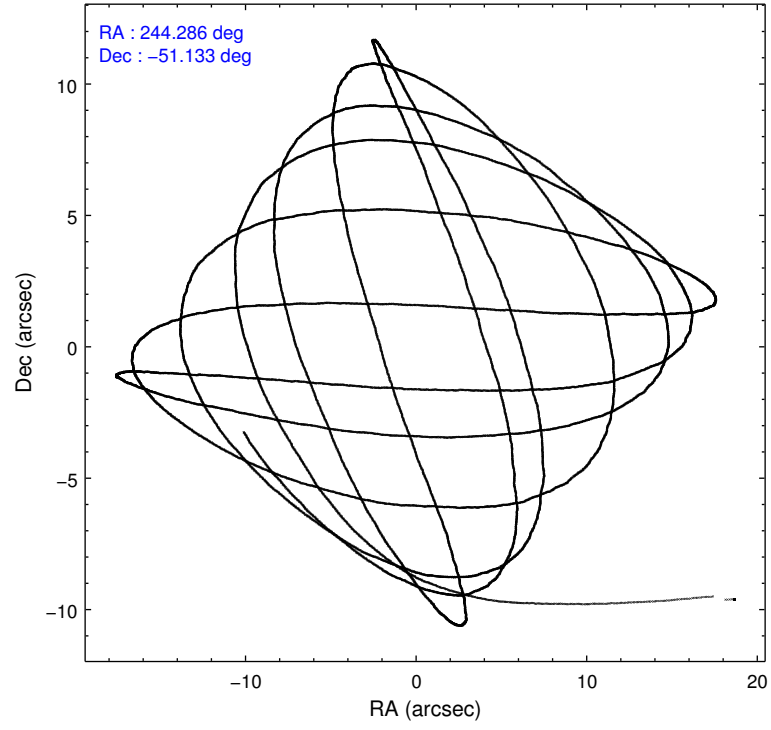
	<b>ccd 3</b>
grade 0 events	30925
	63%
grade 1 events	63
	0%
grade 2 events	3042
	6%
grade 3 events	902
	1%
grade 4 events	893
	1%
grade 5 events	211
	0%
grade 6 events	486
	1%
grade 7 events	11873
	24%

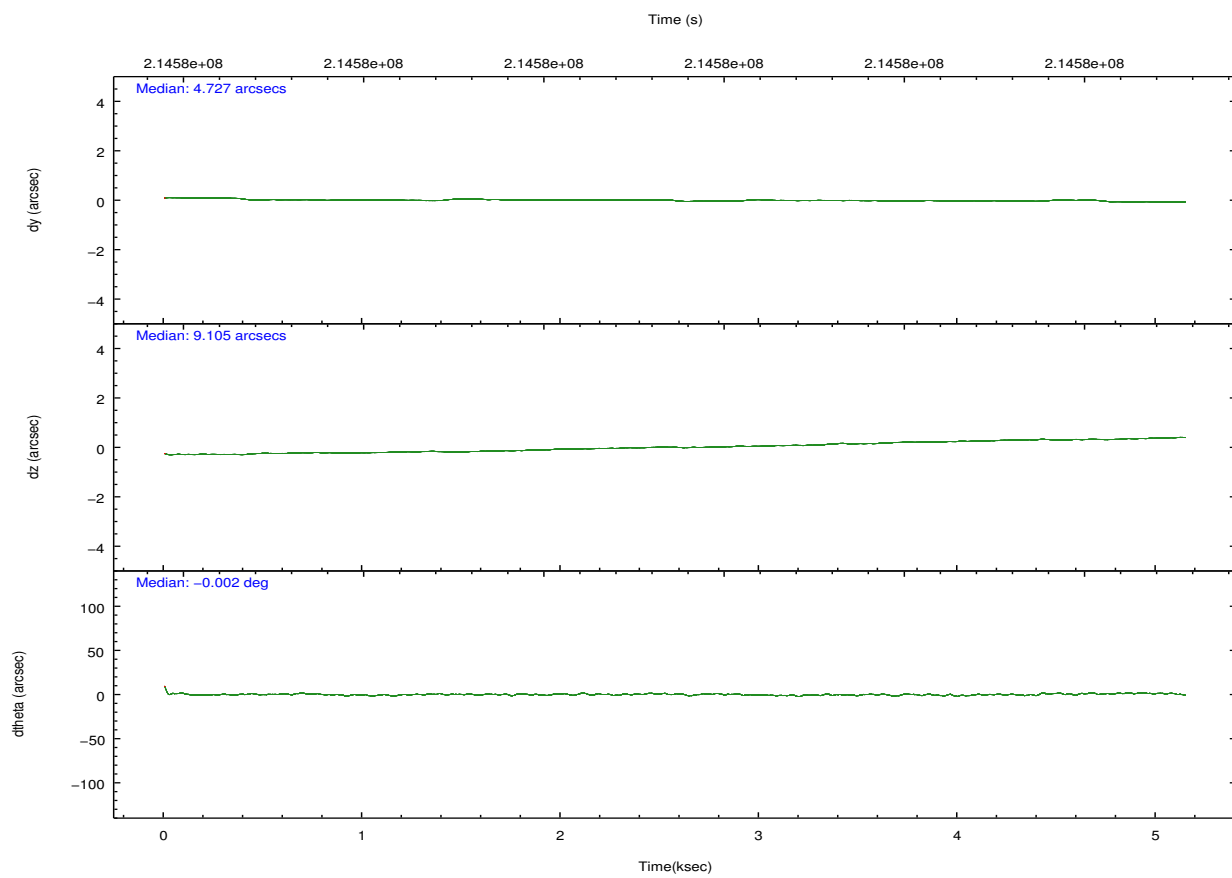
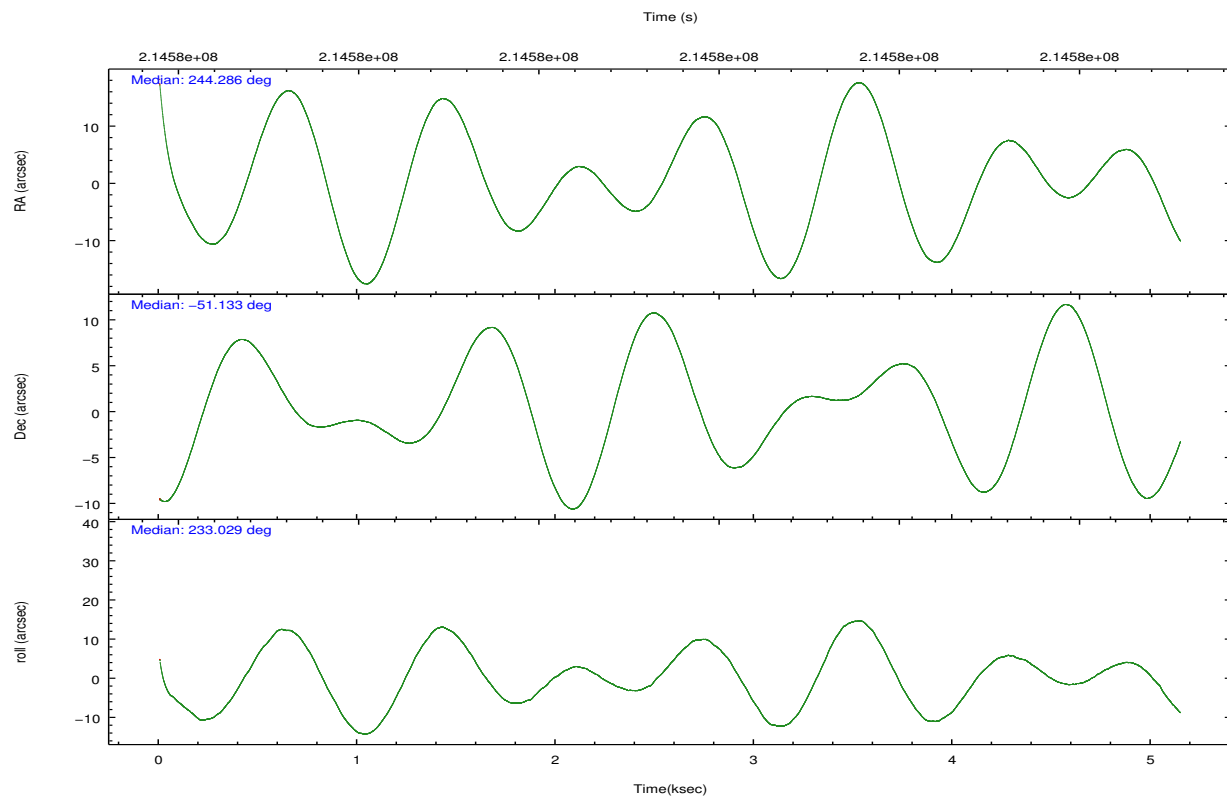


## 2.2 Compared Parameters

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	244.291064	244.2859619814861	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-51.105766	-51.13304884072195	Subarray start row	1	1
[deg] Pointing Roll	232.831114	233.0358067226184	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)	214579306.184000	214577914.73939			
Observation start date	2004-10-19T13:20:42	2004-10-19T12:58:34			
[s] Observation end time (MET)	214584306.184000	214585053.35221			
Observation end date	2004-10-19T14:44:02	2004-10-19T14:57:33			
Read mode	TIMED	TIMED			

## 2.3 Aspect



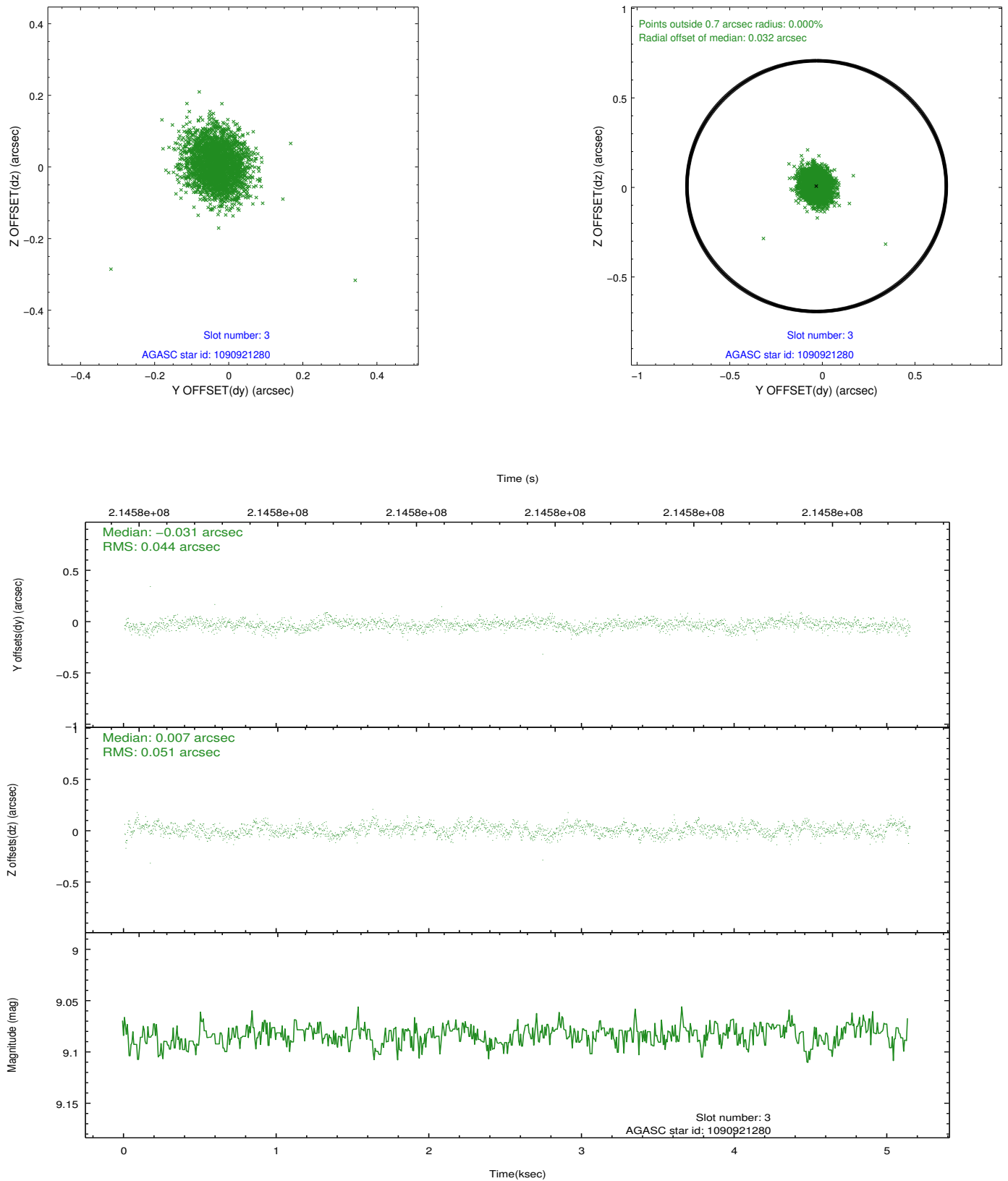


### Slot Statistics

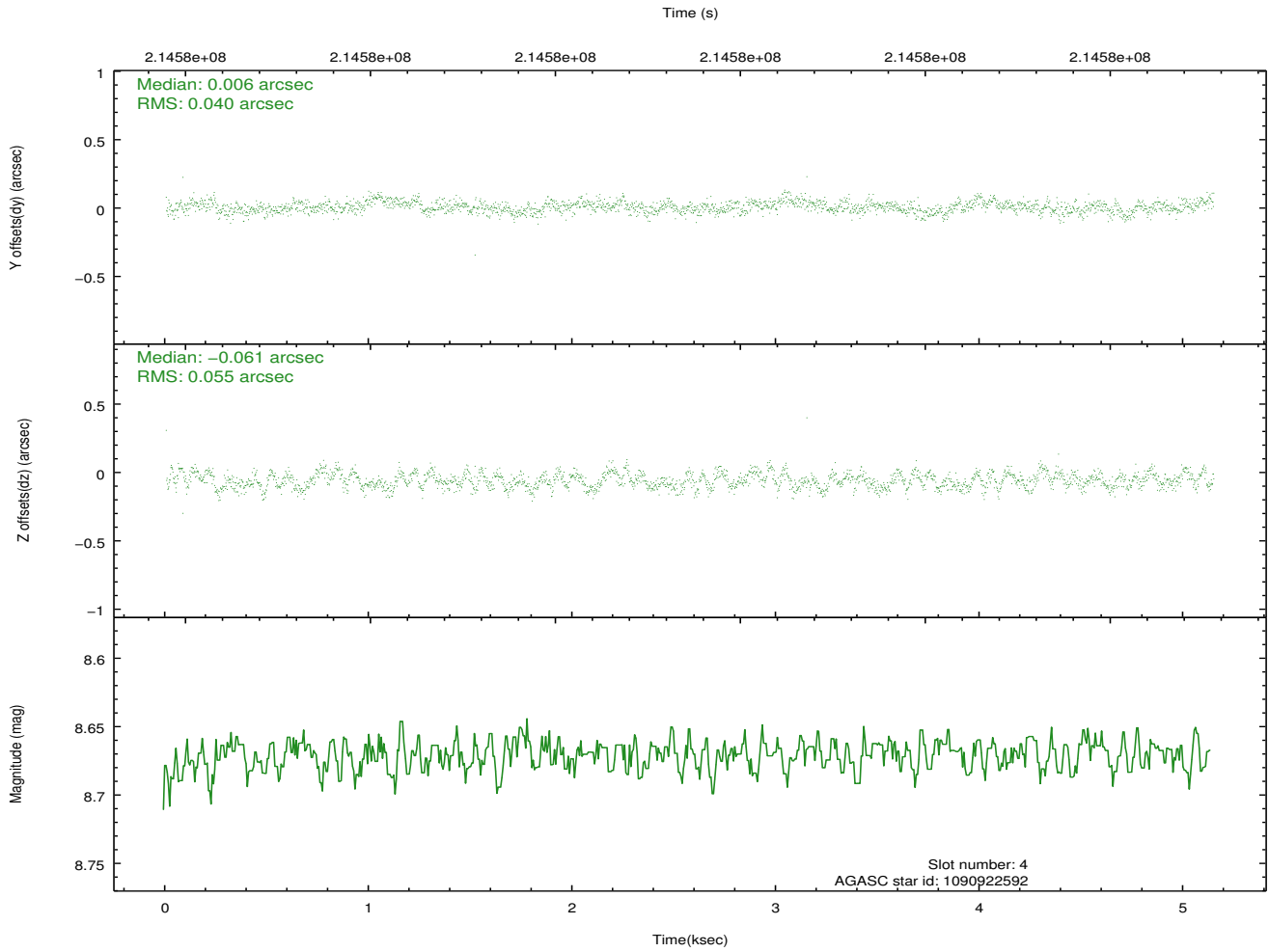
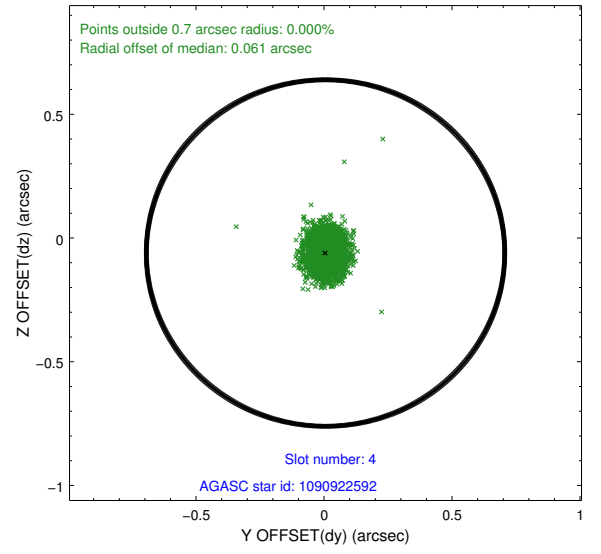
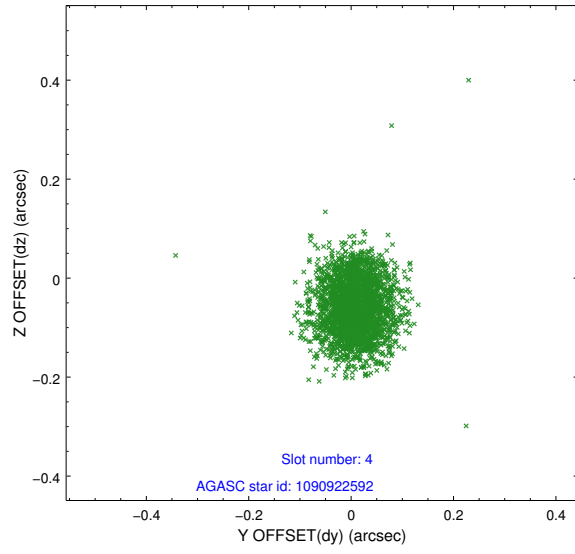
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1256	-0.013	0.037	0.012	0.023	0.000000	0.000000	935.01	-832.53
1	FID	ACIS-I-4	7.17	1256	0.107	0.004	0.012	0.023	0.000000	0.000000	2155.82	1066.67
2	FID	ACIS-I-5	7.22	1256	-0.191	0.029	0.009	0.016	0.000000	0.000000	-1811.66	1065.86
3	GUIDE	1090921280	9.08	2508	-0.031	0.007	0.070	0.114	244.365071	-50.638328	-1442.72	-882.03
4	GUIDE	1090922592	8.67	2507	0.006	-0.061	0.072	0.112	243.541382	-50.784876	118.73	-2051.29
5	GUIDE	1090924096	8.05	2511	0.081	0.028	0.058	0.096	243.849549	-51.016855	351.86	-988.99
6	GUIDE	1090924384	8.06	2511	-0.016	0.001	0.053	0.085	243.330505	-50.934017	835.99	-2101.82
7	GUIDE	1091059112	9.07	2510	-0.042	0.027	0.069	0.116	245.180420	-50.736664	-2272.87	818.28

## 2.4 Star Slots

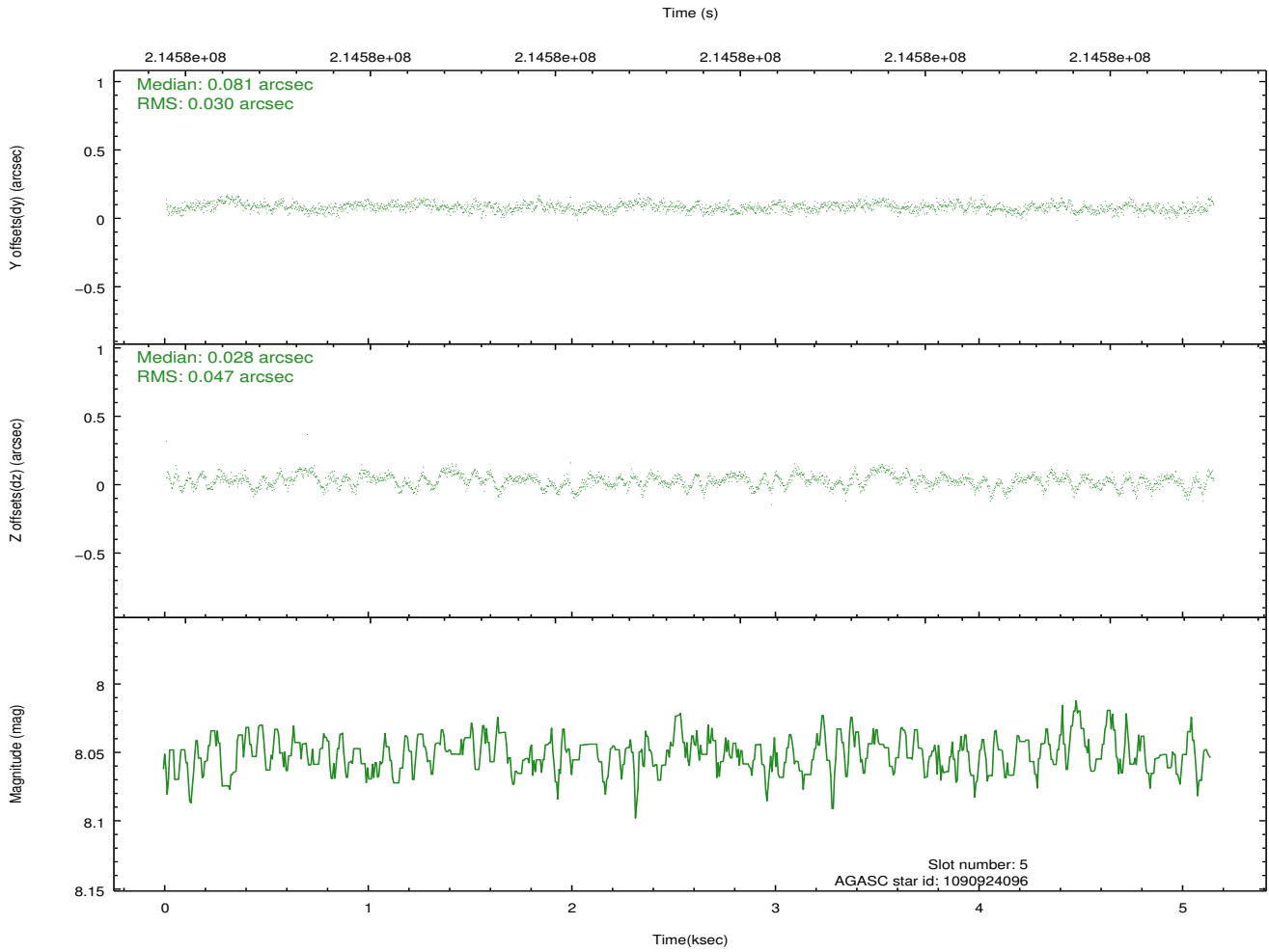
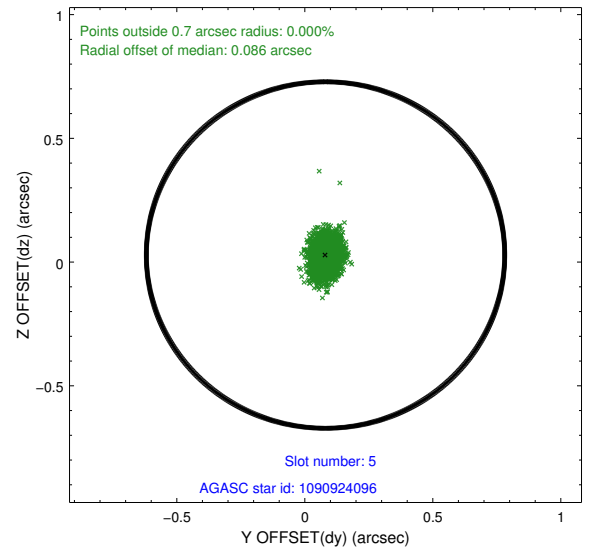
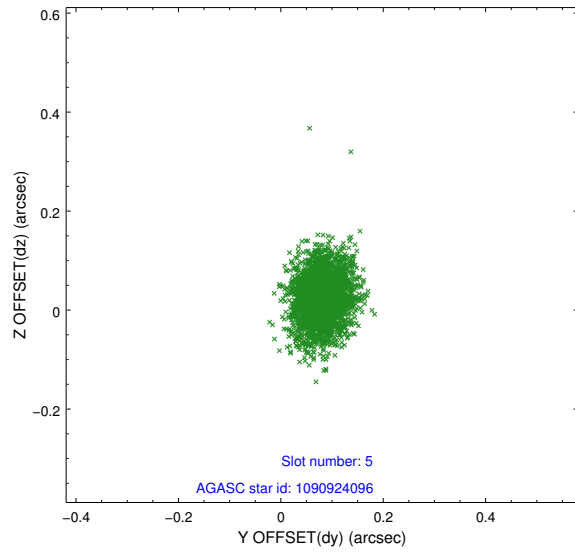
### 2.4.1 Slot 3



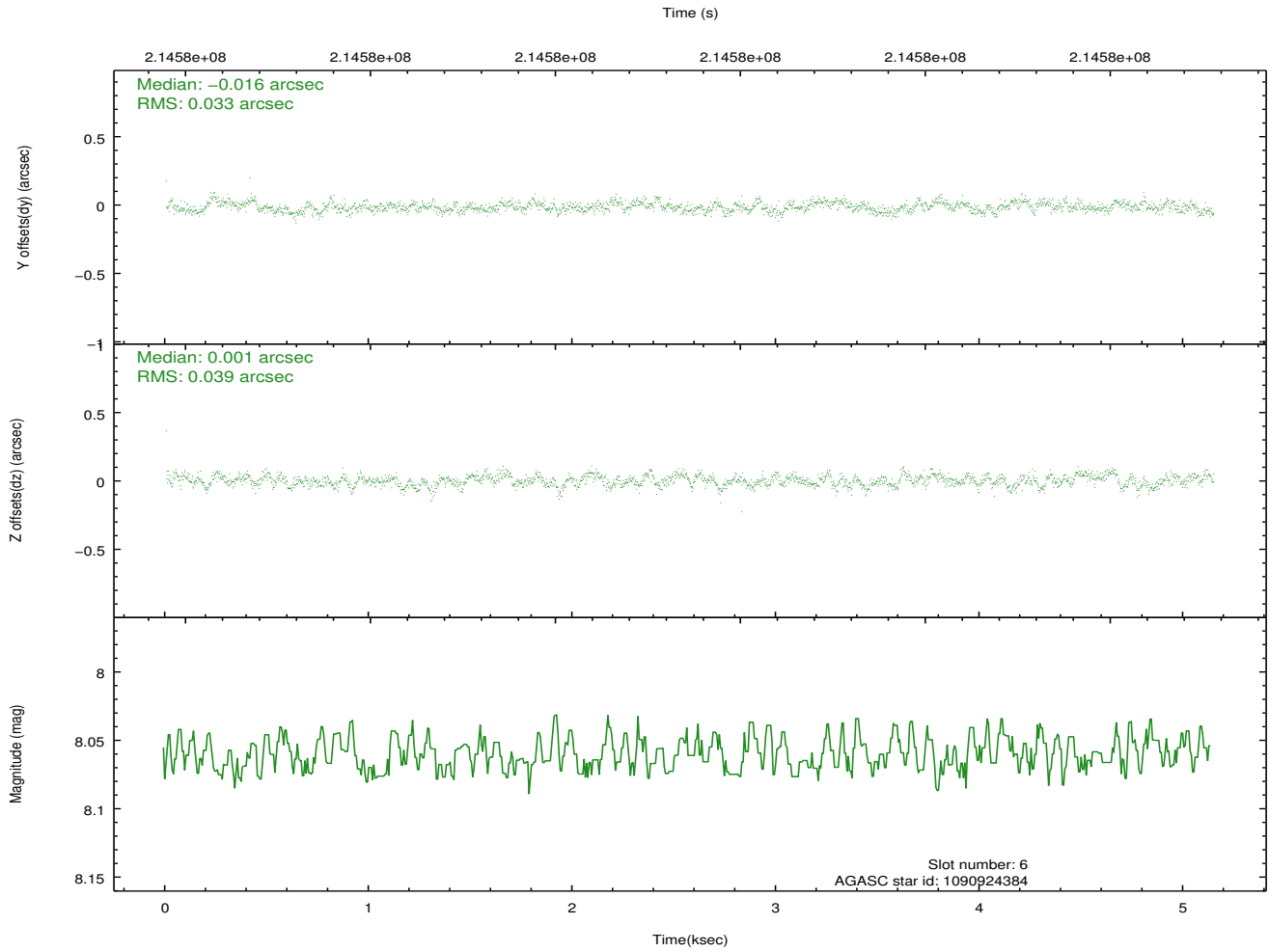
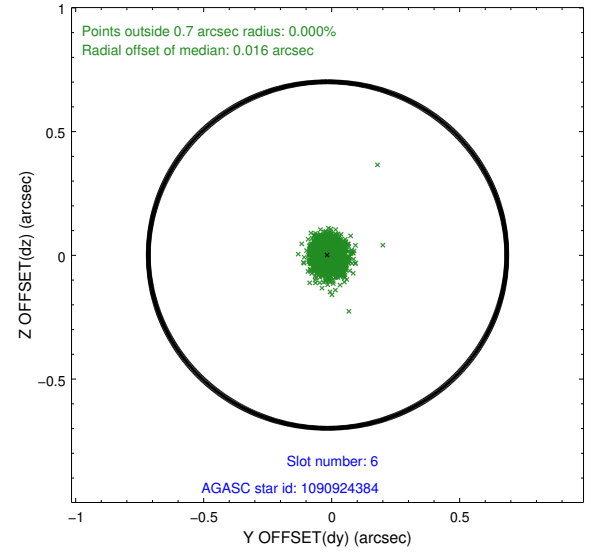
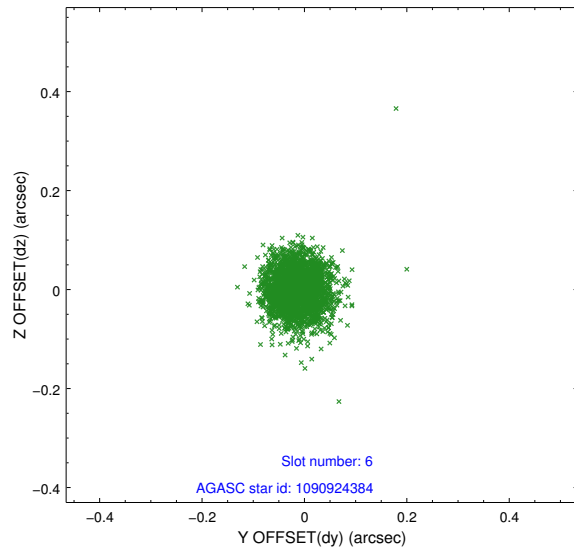
## 2.4.2 Slot 4



### 2.4.3 Slot 5

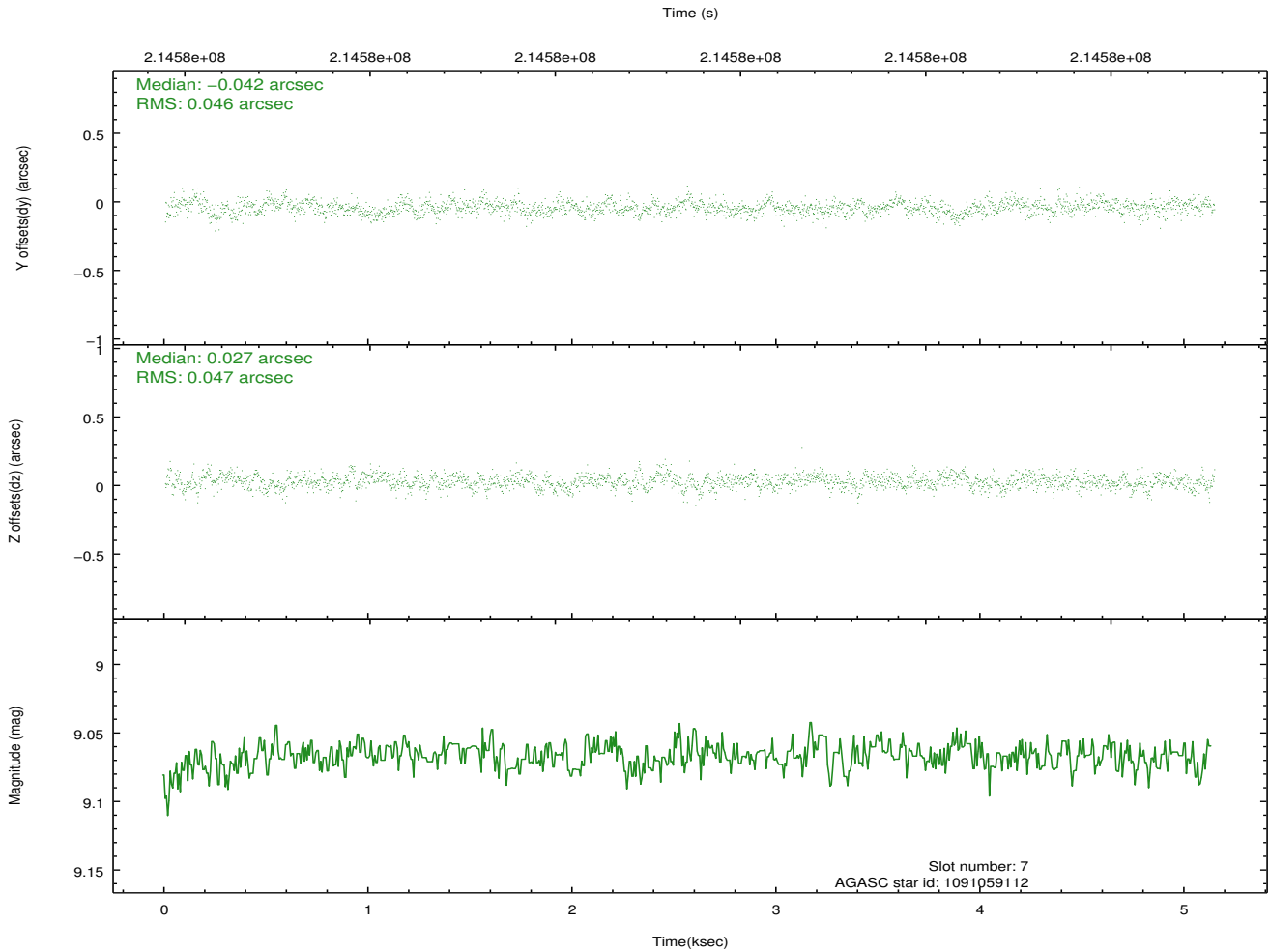
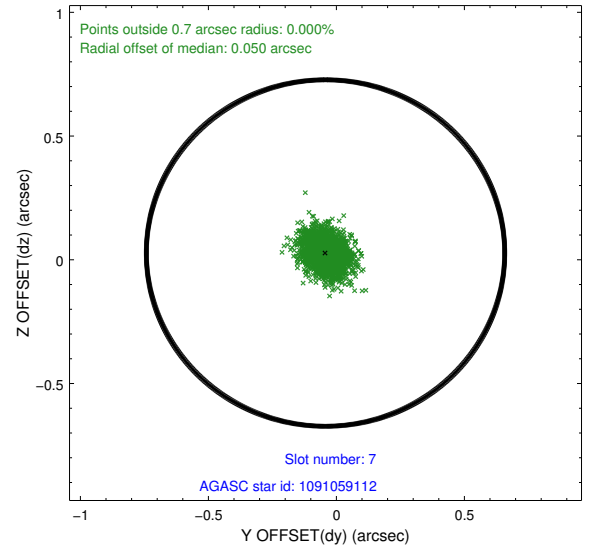
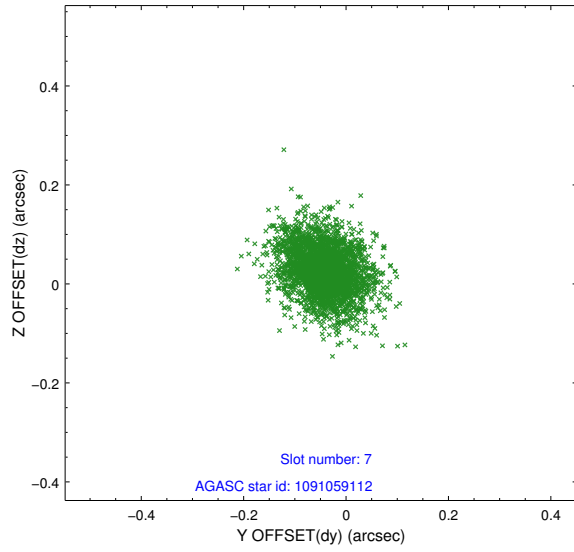


## 2.4.4 Slot 6



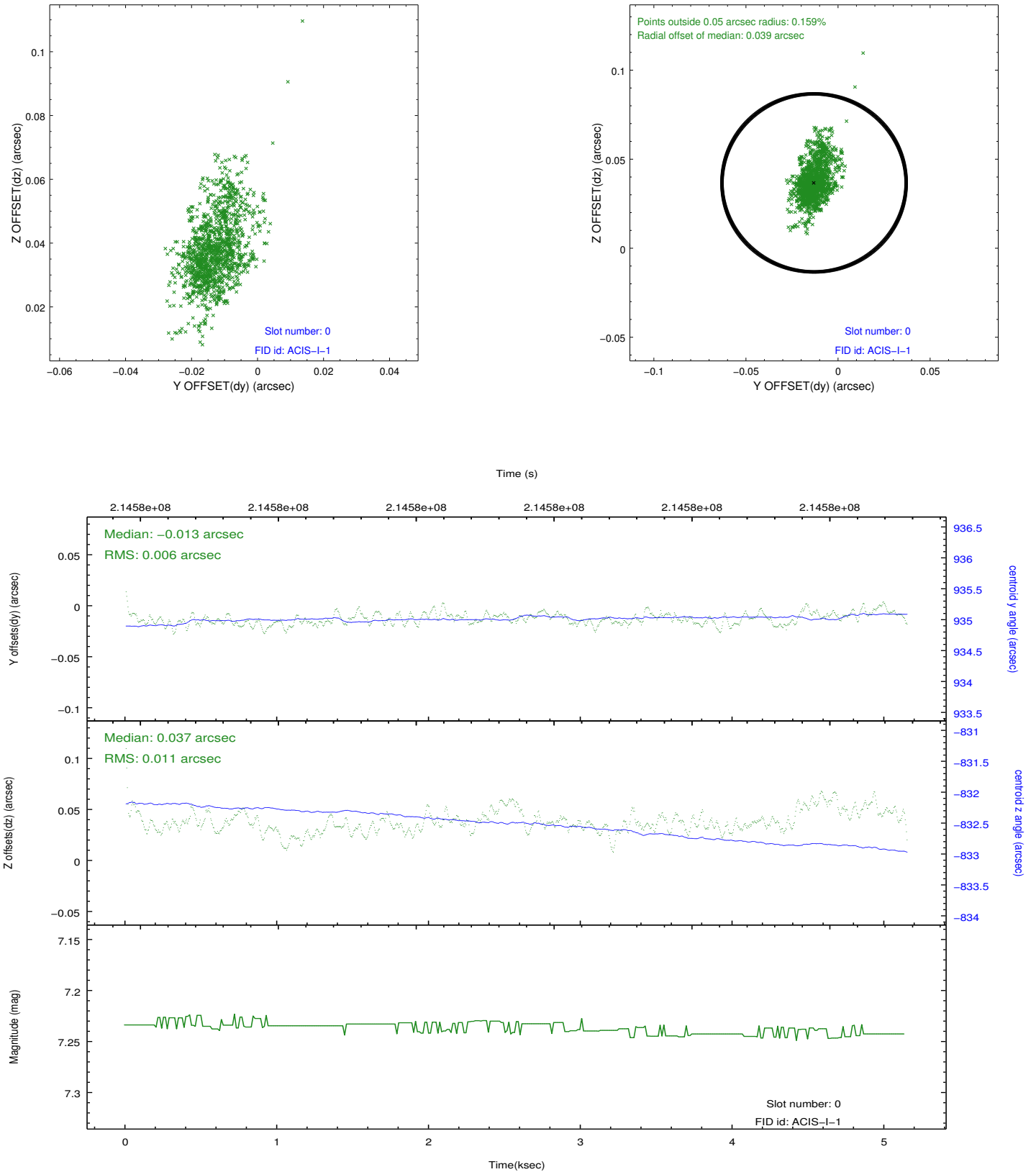


## 2.4.5 Slot 7

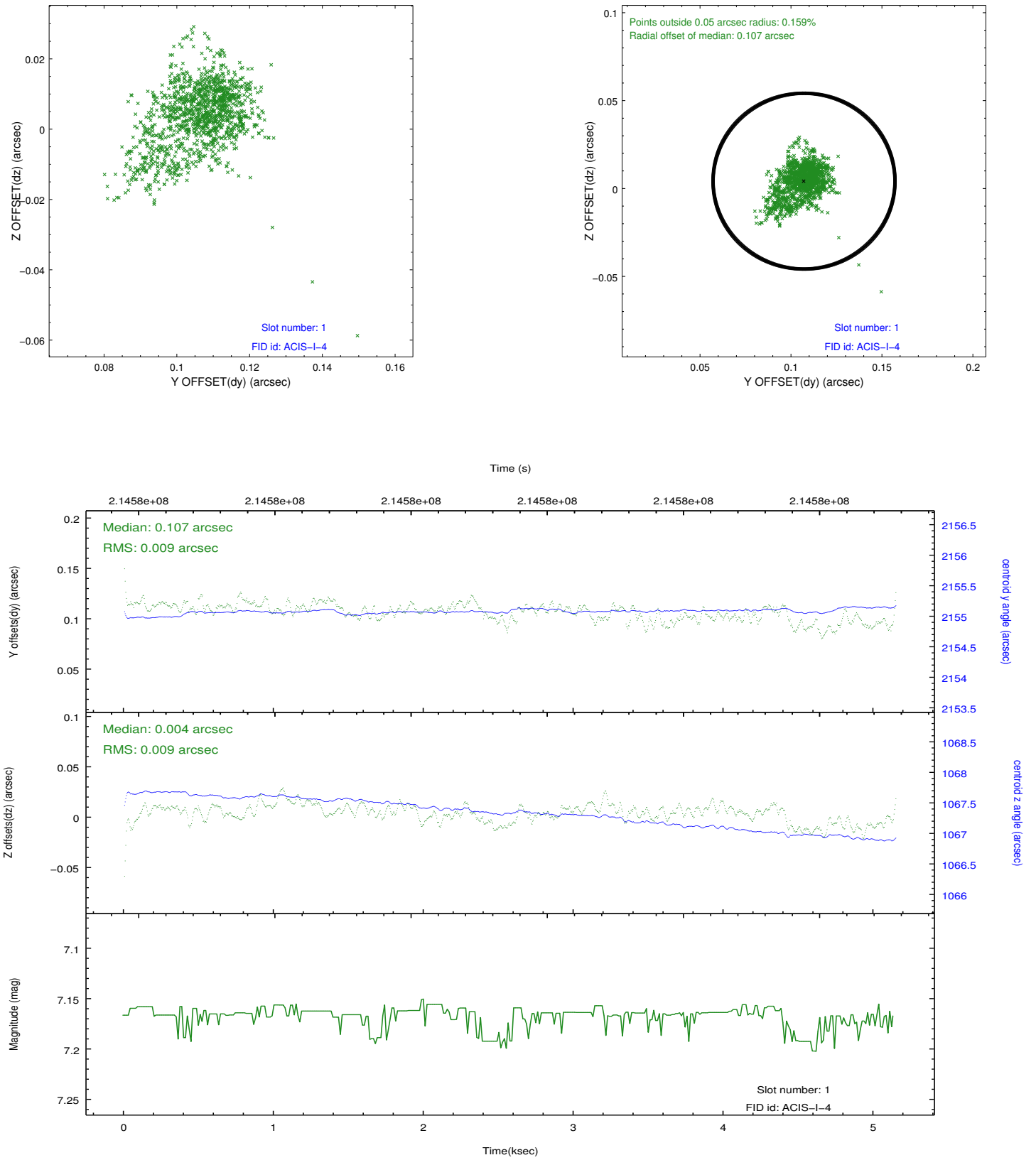


## 2.5 FID Slots

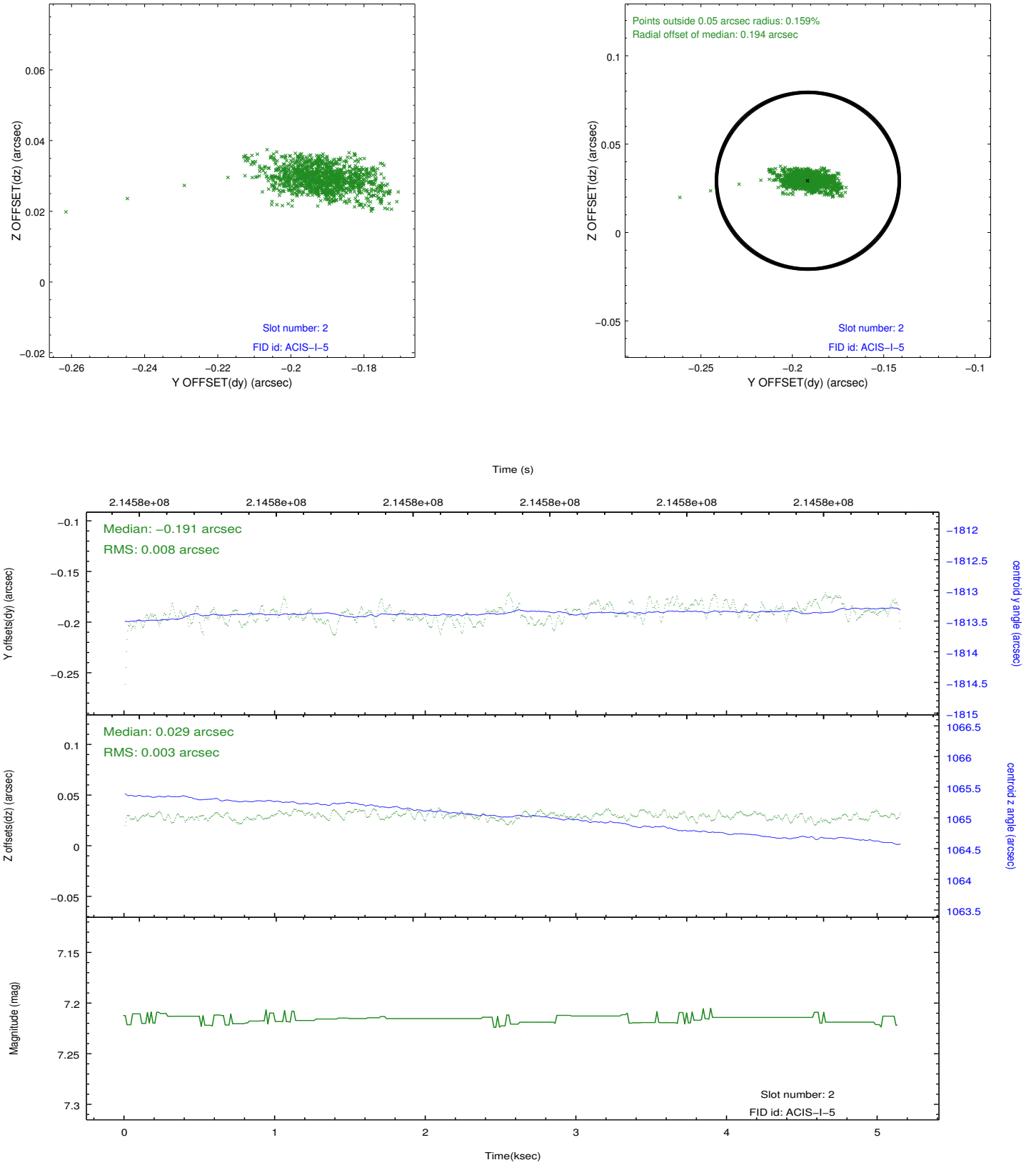
### 2.5.1 Slot 0



## 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)	2013.01.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.144

### **A.2 Comments**