

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 12867 - L2 Version 2  
Chandra X-Ray Center

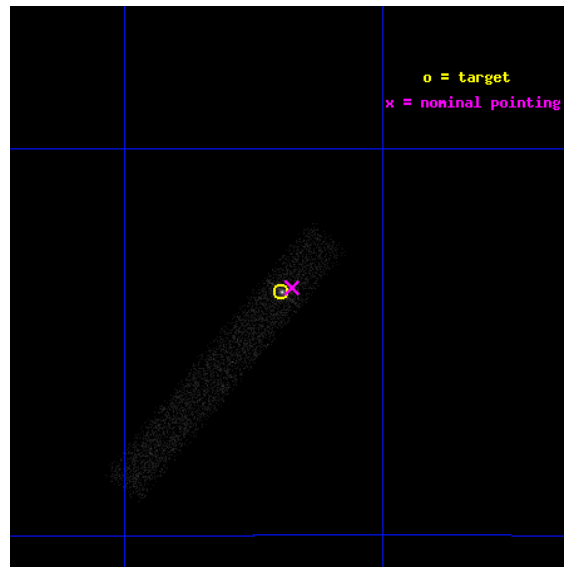
L2 Processing Date : Feb 19 2012

## 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

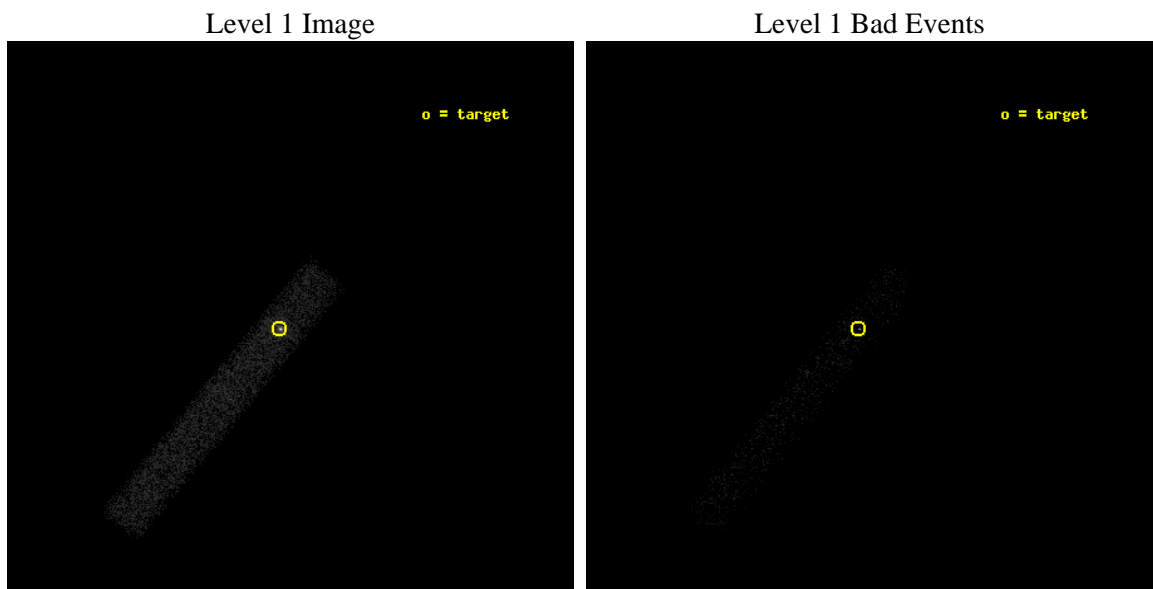
seq_num	702500	Sequence number
obs_id	12867	Observation id
title	Chandra Survey of Hard X-ray Selected Merging AGN Hosts	Proposal t
observer	Dr. Richard Mushotzky	Principal investigator
object	ESO 490-IG026	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	100.049167	Observer's specified target RA [deg]
dec_targ	-25.895	Observer's specified target Dec [deg]
ra_nom	100.04403462707	Nominal RA [deg]
dec_nom	-25.89348720135	Nominal Dec [deg]
roll_nom	129.69048291673	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10010.343797684	Sum of GTIs [s]
livetime	9078.8534352292	Livetime [s]
ontime7	10010.343797684	Sum of GTIs [s]
l2events	13117	Number of level 2 events



## 2 OBI

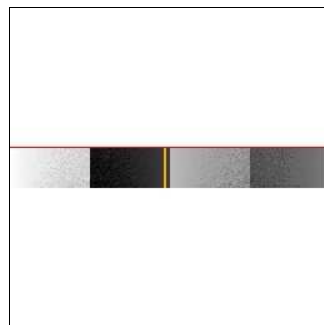
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	10010.343797684	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime7	10010.343797684	Sum of GTIs [s]
date	2012-02-19T23:37:37	Date and time of file creation	l1events	19471	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	19471
rejected events	6109
rejected %	31%

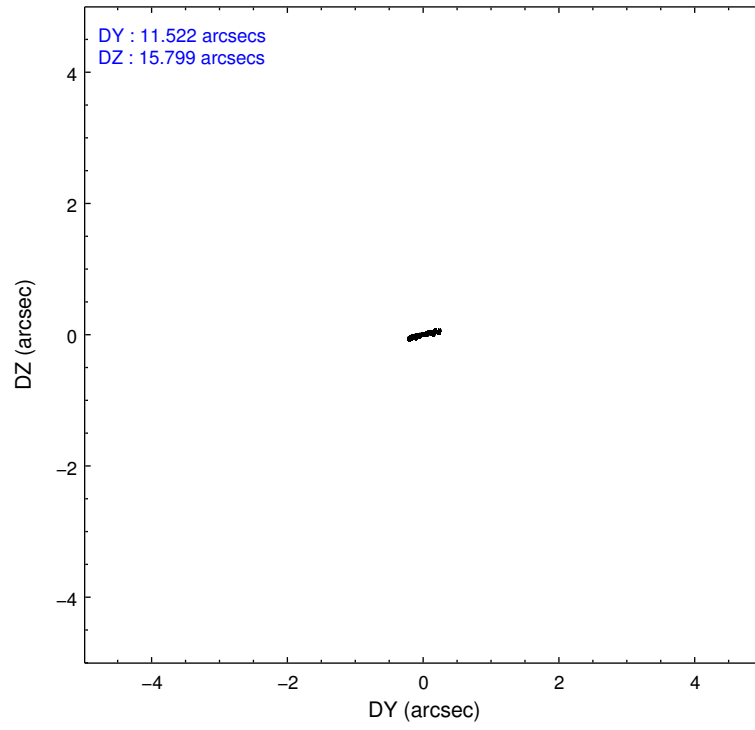
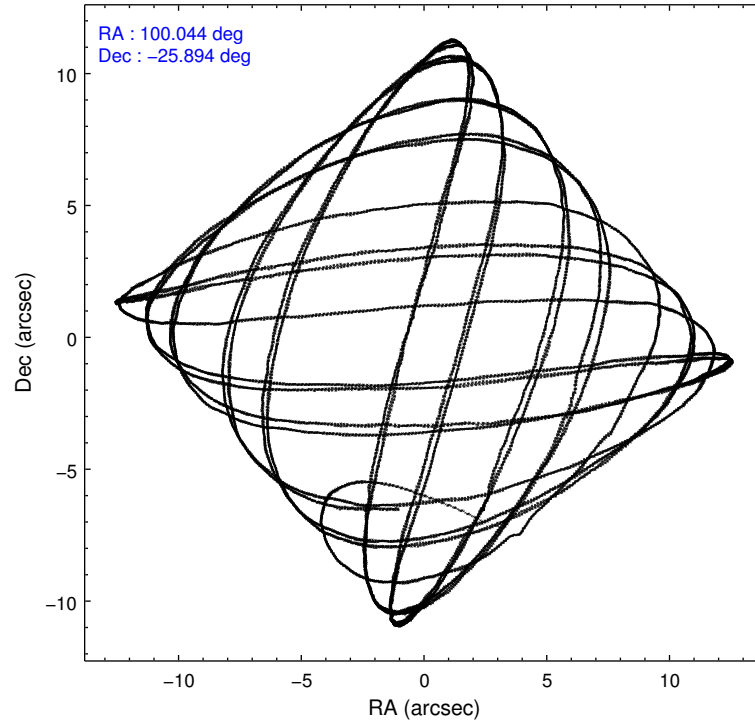
	<b>ccd 7</b>
grade 0 events	2313
	11%
grade 1 events	67
	0%
grade 2 events	3050
	15%
grade 3 events	1657
	8%
grade 4 events	1609
	8%
grade 5 events	1425
	7%
grade 6 events	4735
	24%
grade 7 events	4615
	23%

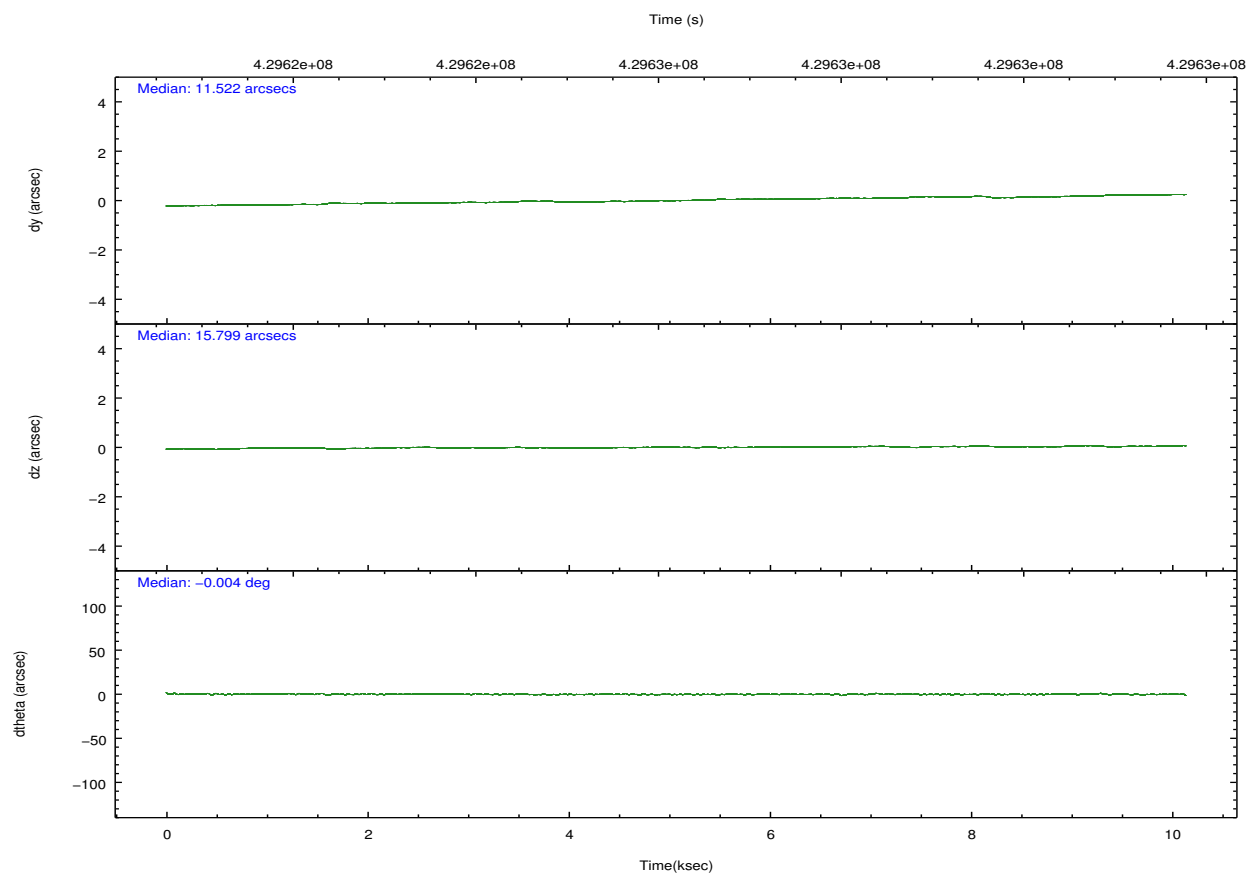
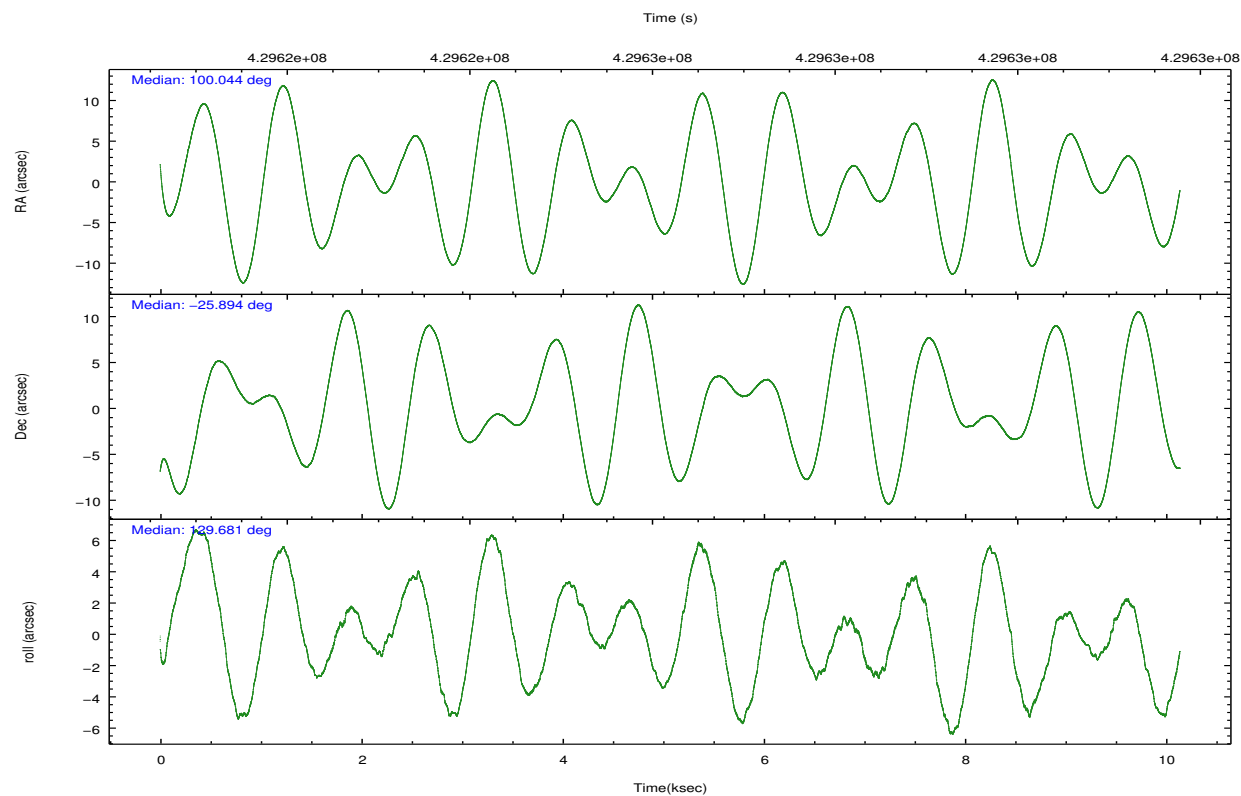


## 2.2 Compared Parameters

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	100.072708	100.0440346270728	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-25.902588	-25.8934872013498	Subarray start row	449	449
[deg] Pointing Roll	129.546385	129.6904829167337	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)	429621251.184000	429619634.85749			
Observation start date	2011-08-13T11:13:05	2011-08-13T10:47:14			
[s] Observation end time (MET)	429631251.184000	429632158.30814			
Observation end date	2011-08-13T13:59:45	2011-08-13T14:15:58			
Read mode	TIMED	TIMED			

## 2.3 Aspect



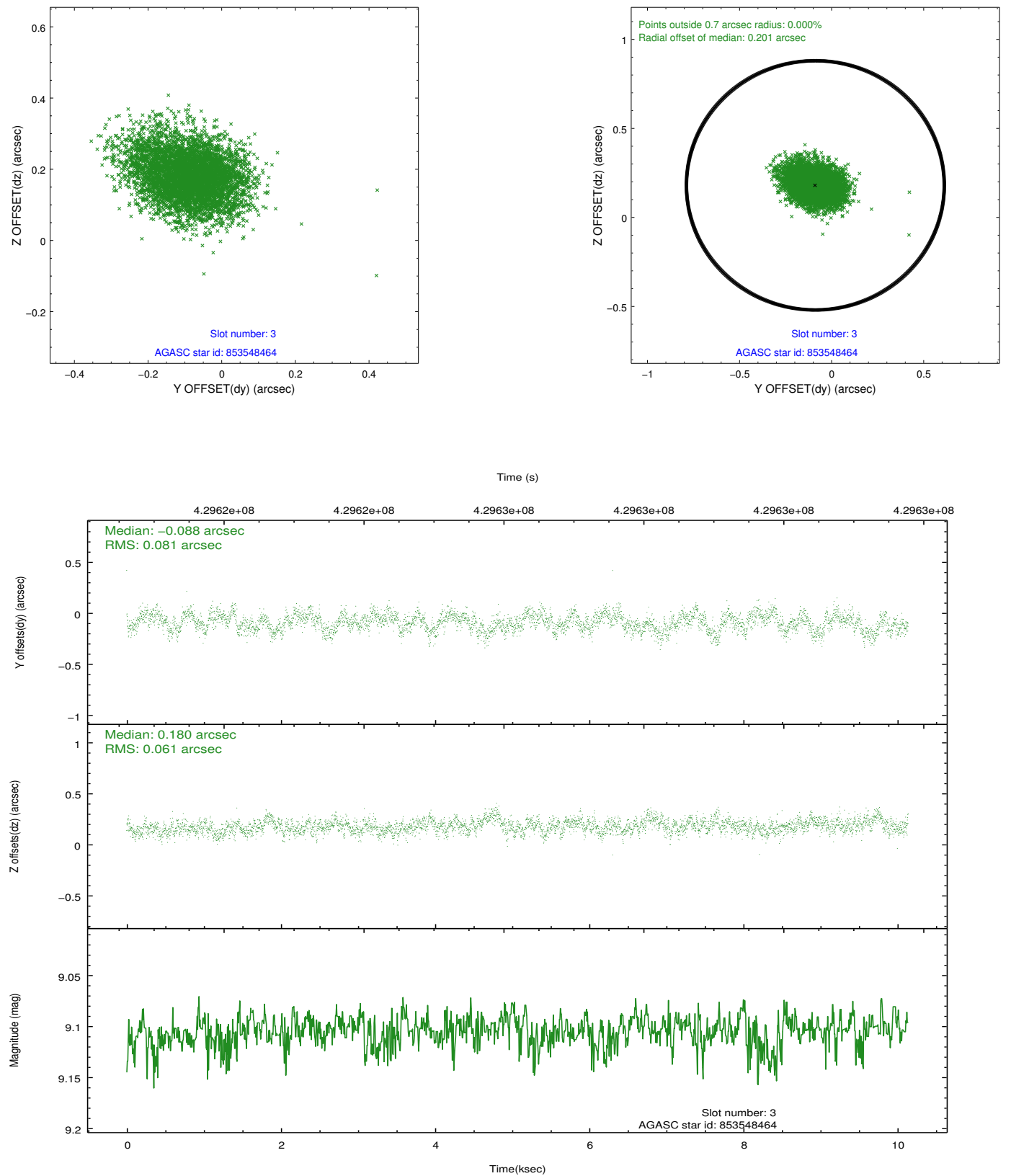


### Slot Statistics

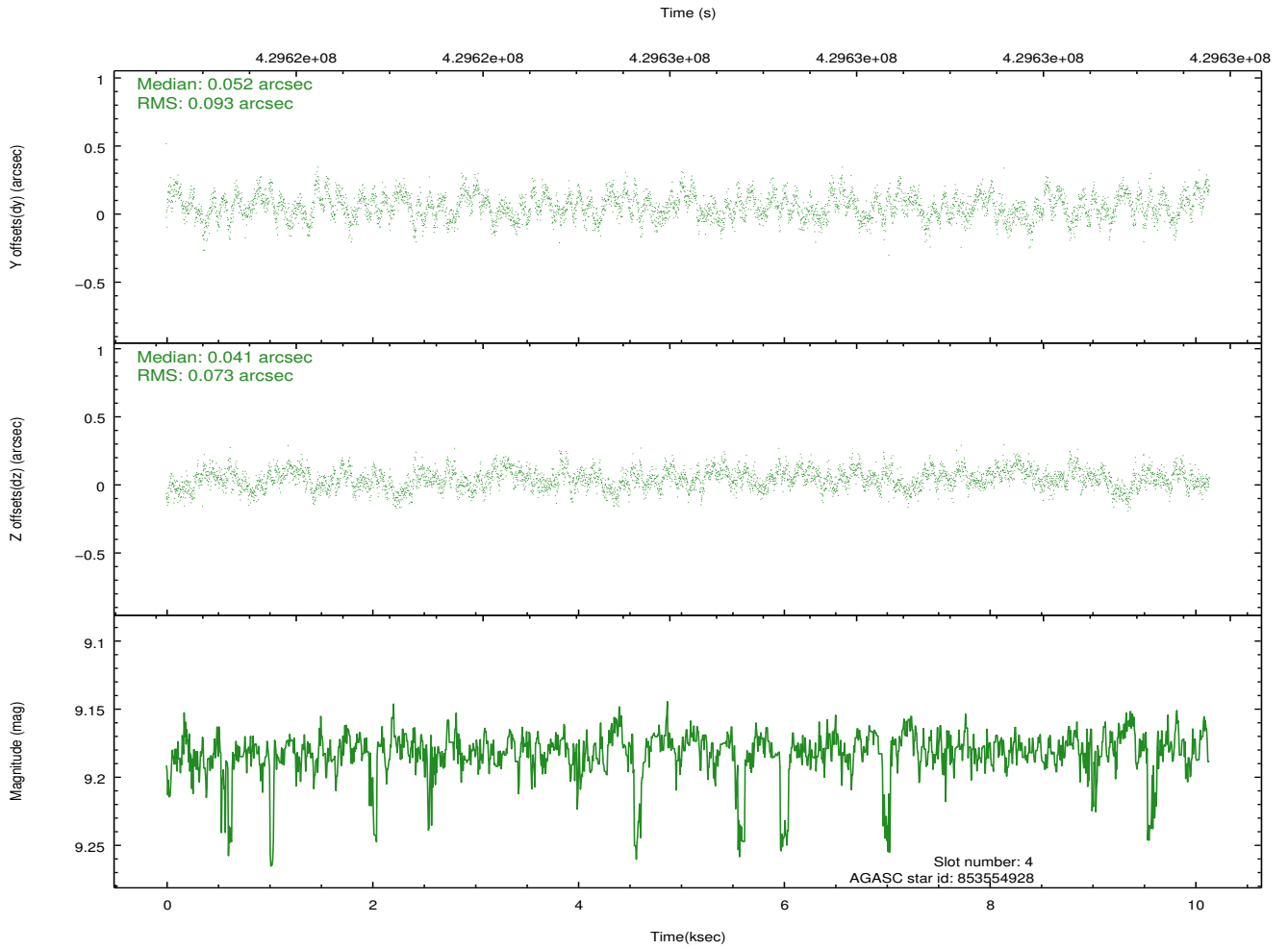
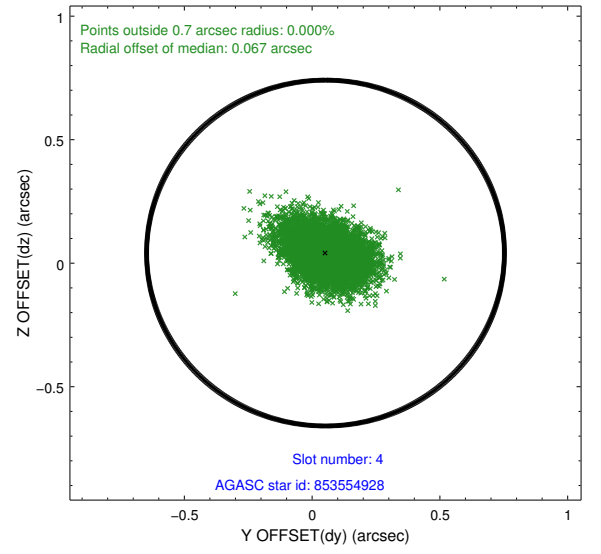
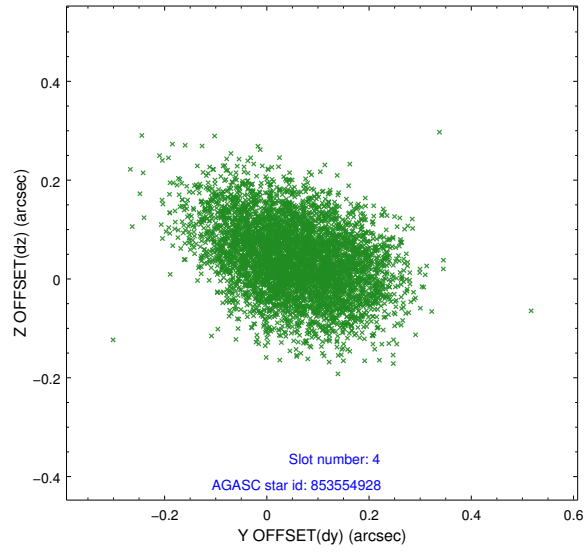
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.89	2473	-0.060	-0.014	0.010	0.016	0.000000	0.000000	-764.47	-1737.21
1	FID	ACIS-S-4	6.97	2473	0.188	0.032	0.010	0.022	0.000000	0.000000	2148.82	170.77
2	FID	ACIS-S-5	7.01	2473	-0.161	-0.010	0.009	0.015	0.000000	0.000000	-1816.74	165.00
3	GUIDE	853548464	9.10	4945	-0.088	0.180	0.106	0.173	100.315282	-25.245722	1320.58	-2113.96
4	GUIDE	853554928	9.18	4923	0.052	0.041	0.126	0.202	100.231036	-25.100157	1899.93	-2237.32
5	GUIDE	853557360	9.10	4946	0.061	0.086	0.106	0.167	100.038629	-25.625879	839.25	-549.32
6	GUIDE	853548056	7.77	4941	-0.157	-0.311	0.074	0.115	99.266544	-26.017122	1336.40	2278.50
7	GUIDE	854083840	8.72	4945	0.128	0.003	0.098	0.162	99.975120	-26.787891	-2257.81	2271.21

## 2.4 Star Slots

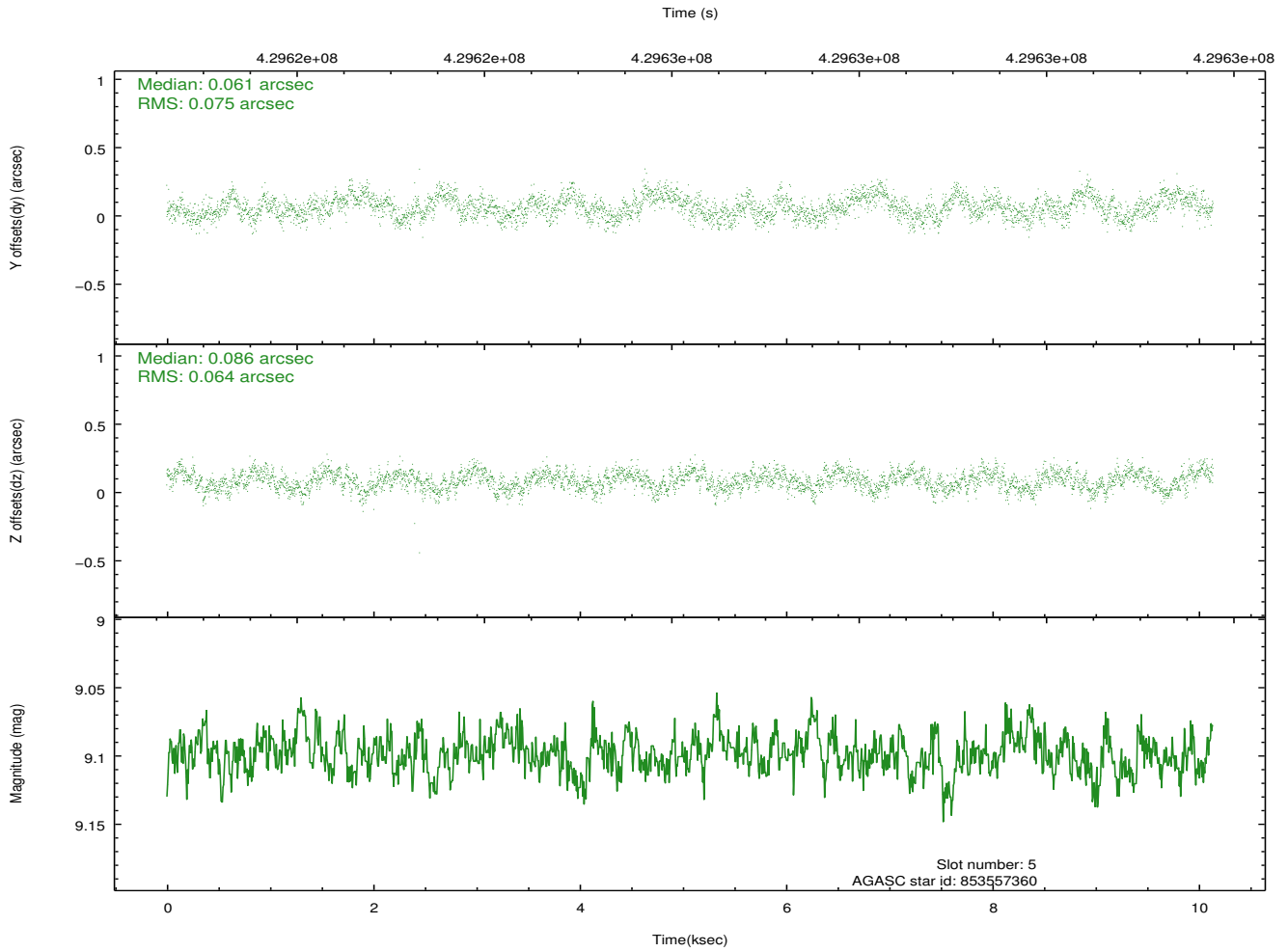
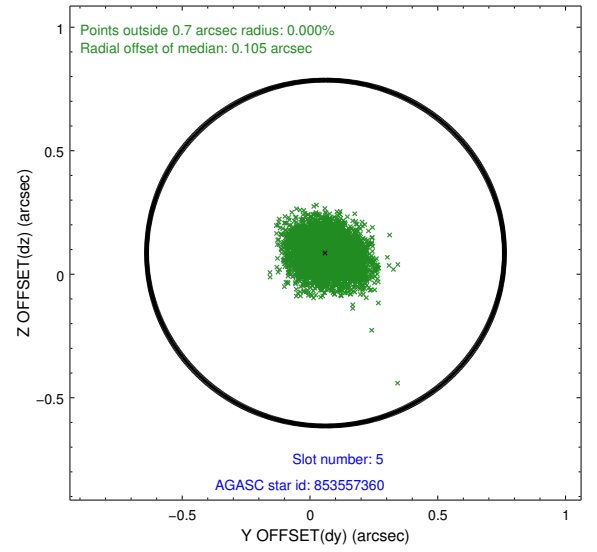
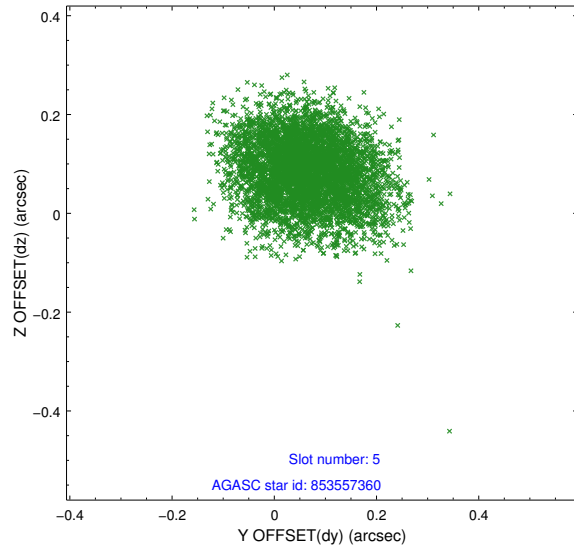
### 2.4.1 Slot 3



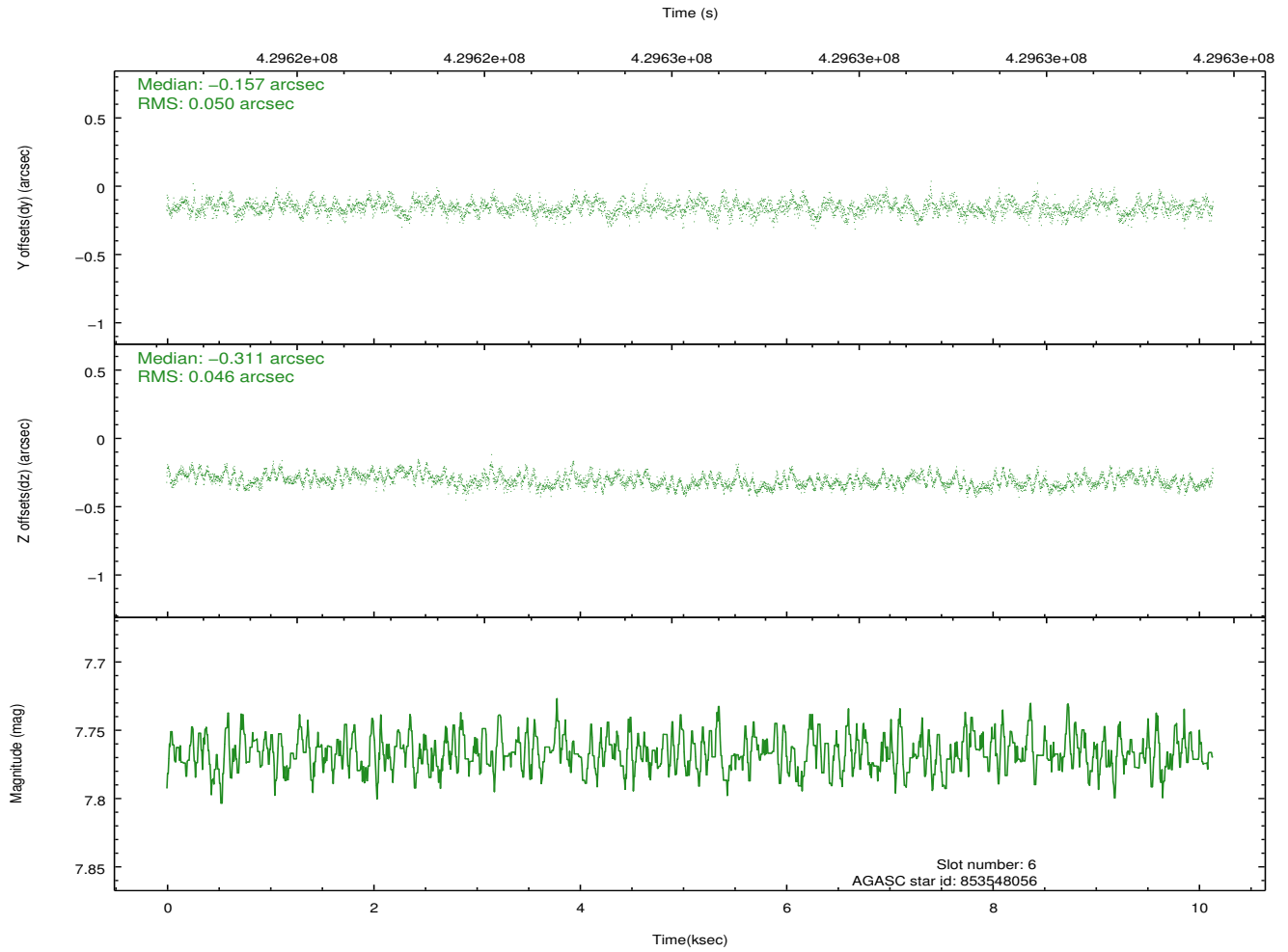
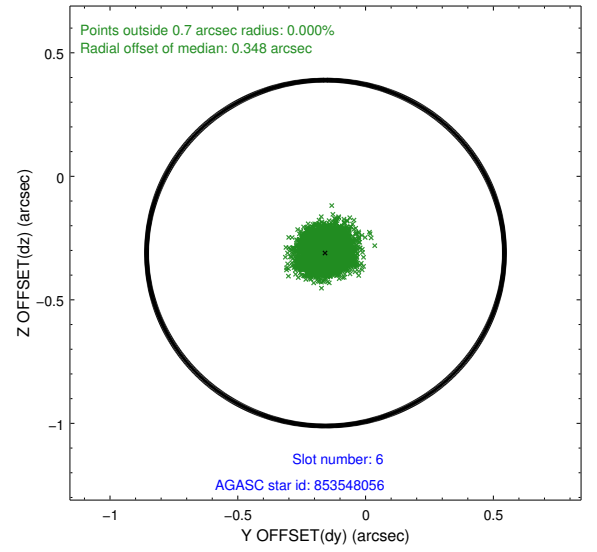
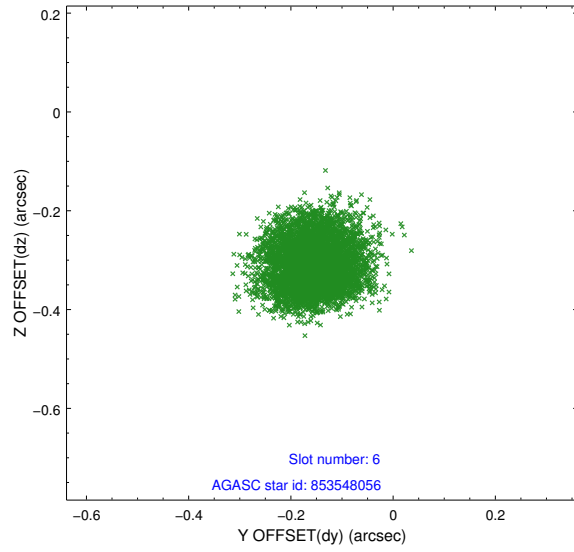
## 2.4.2 Slot 4



### 2.4.3 Slot 5

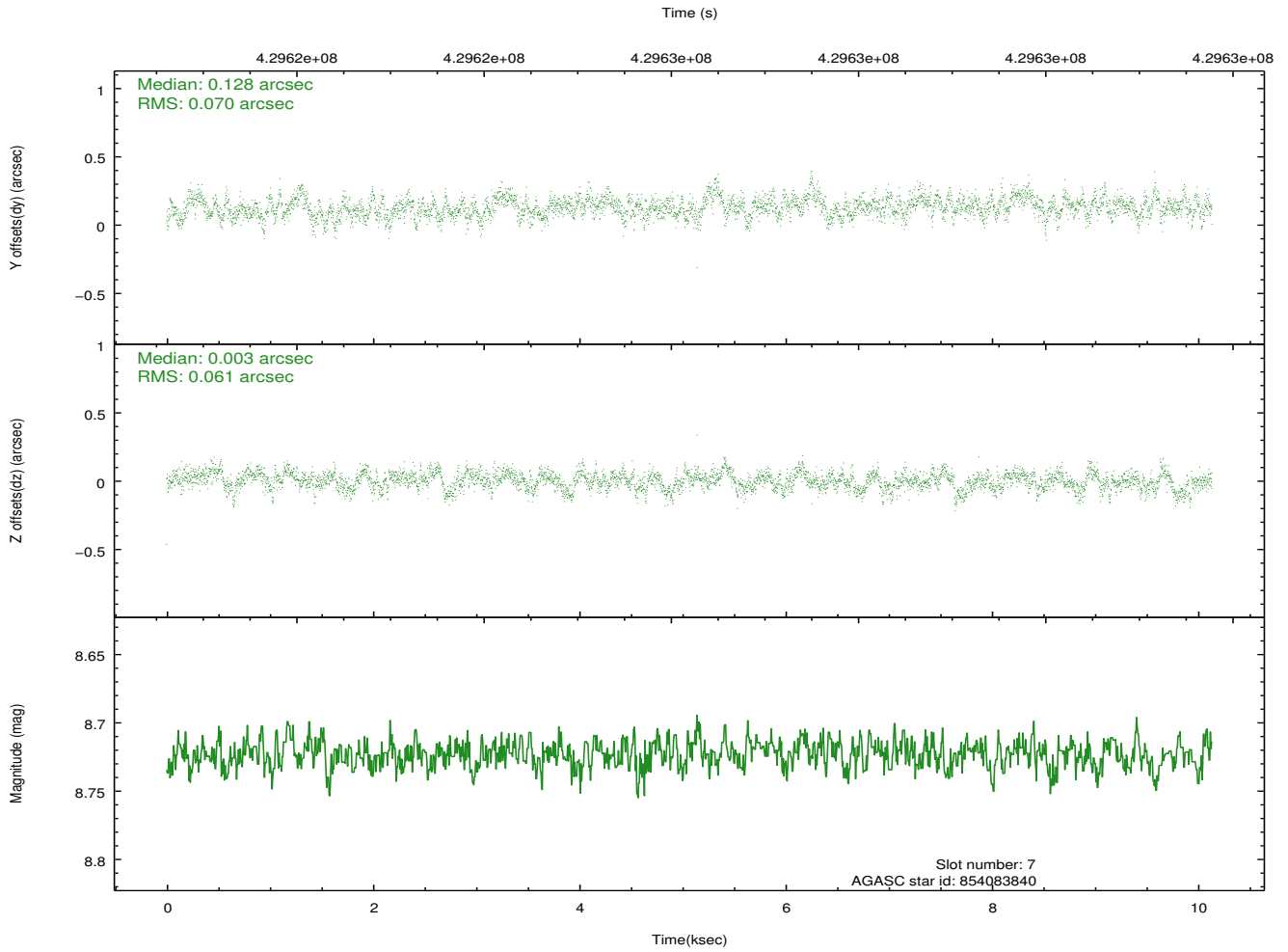
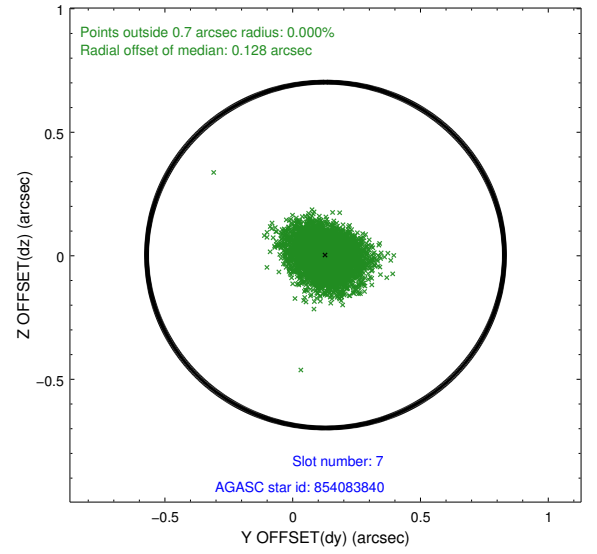
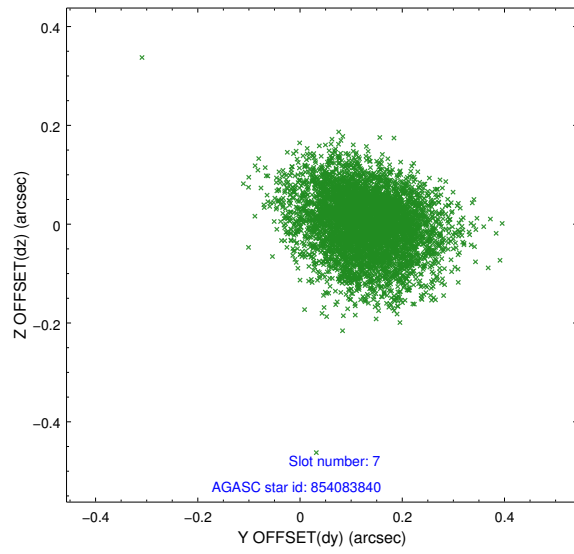


## 2.4.4 Slot 6



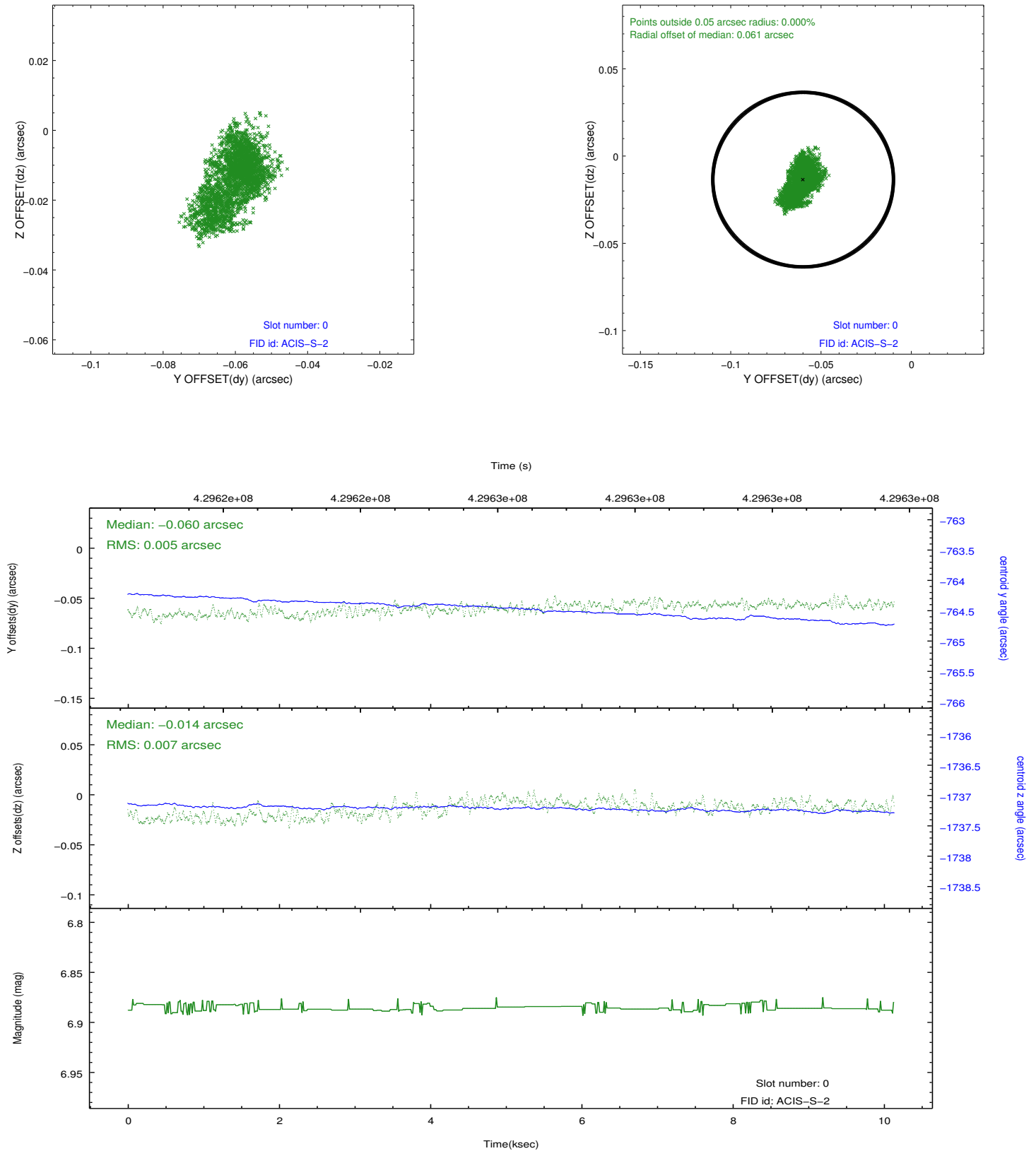


## 2.4.5 Slot 7

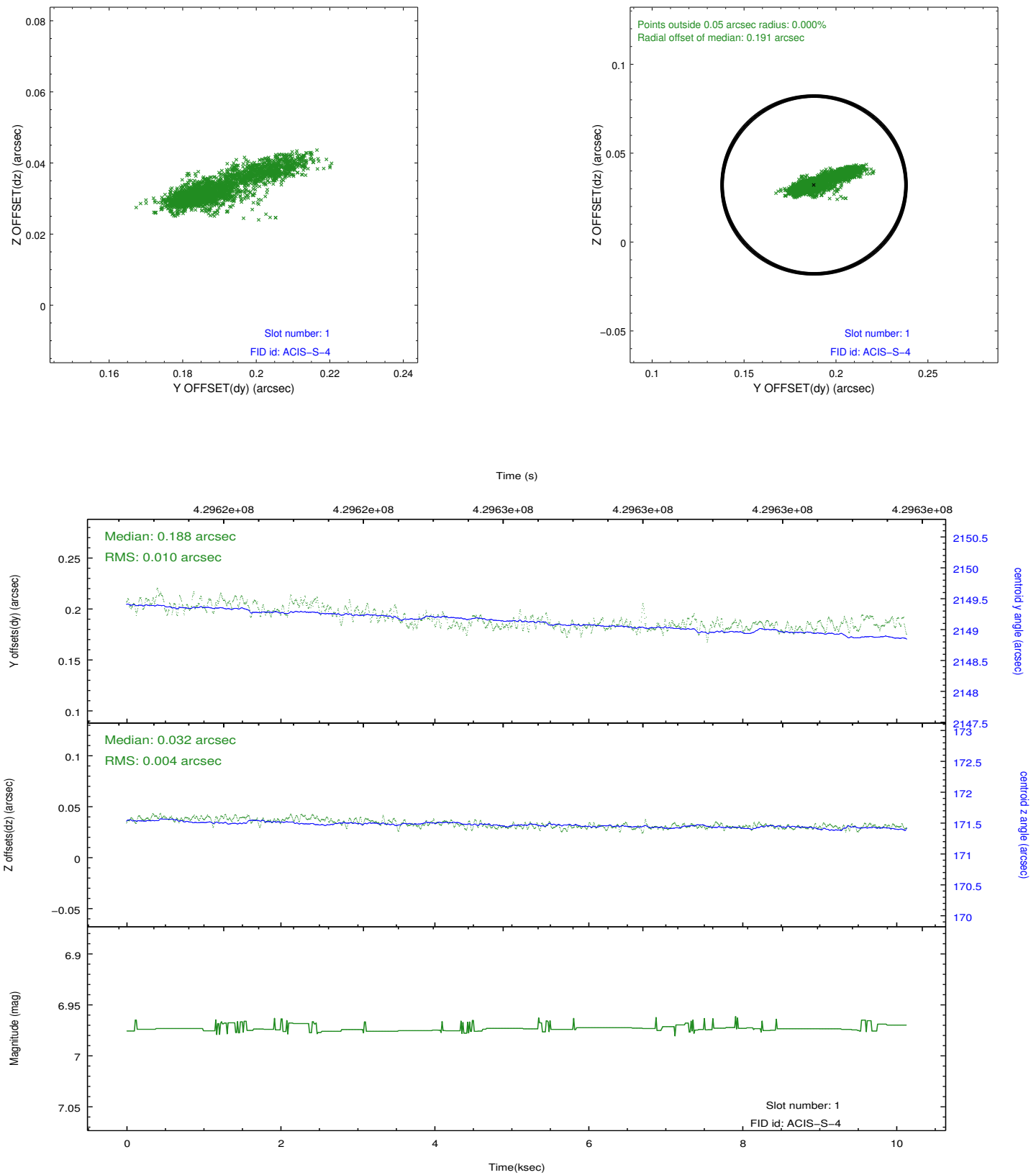


## 2.5 FID Slots

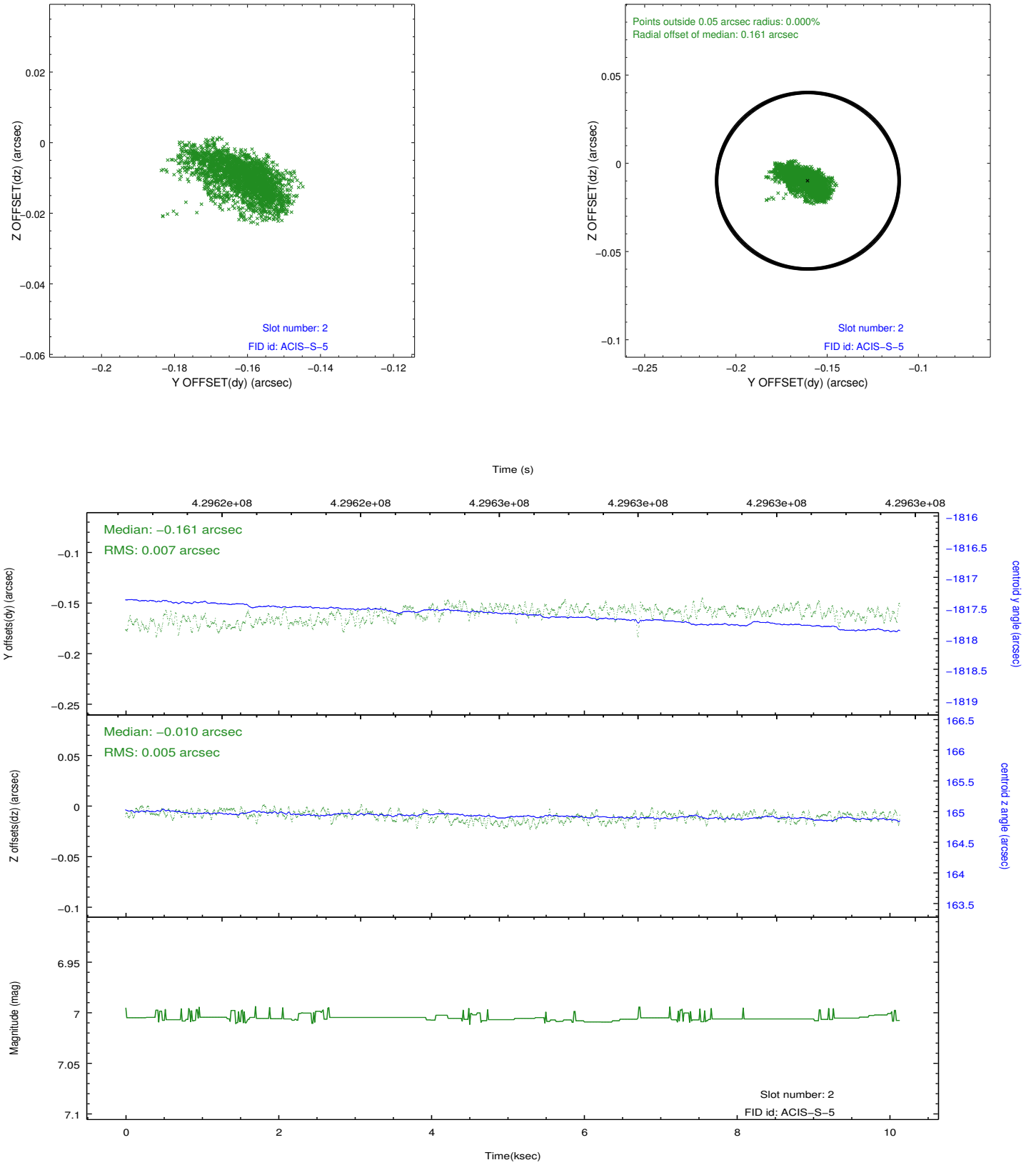
### 2.5.1 Slot 0



## 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)	2012.02.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.010343795121

### A.2 Comments