

# V&V Reference Report

## L2 ASCDS Version : 8.5.1

Observation 5738 - L2 Version 3  
Chandra X-Ray Center

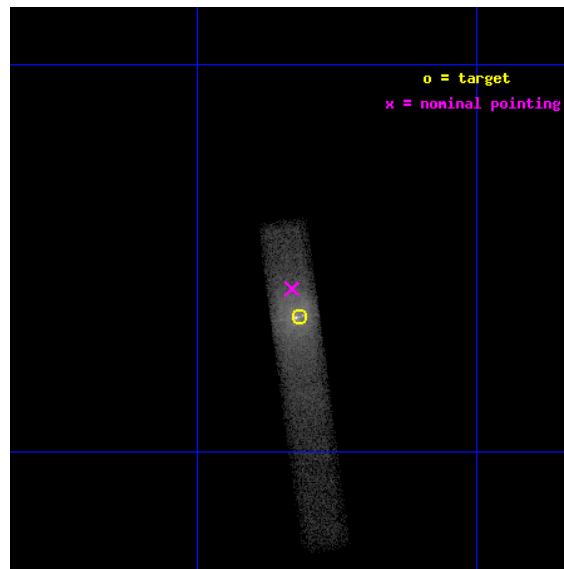
L2 Processing Date : Dec 16 2012

## 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

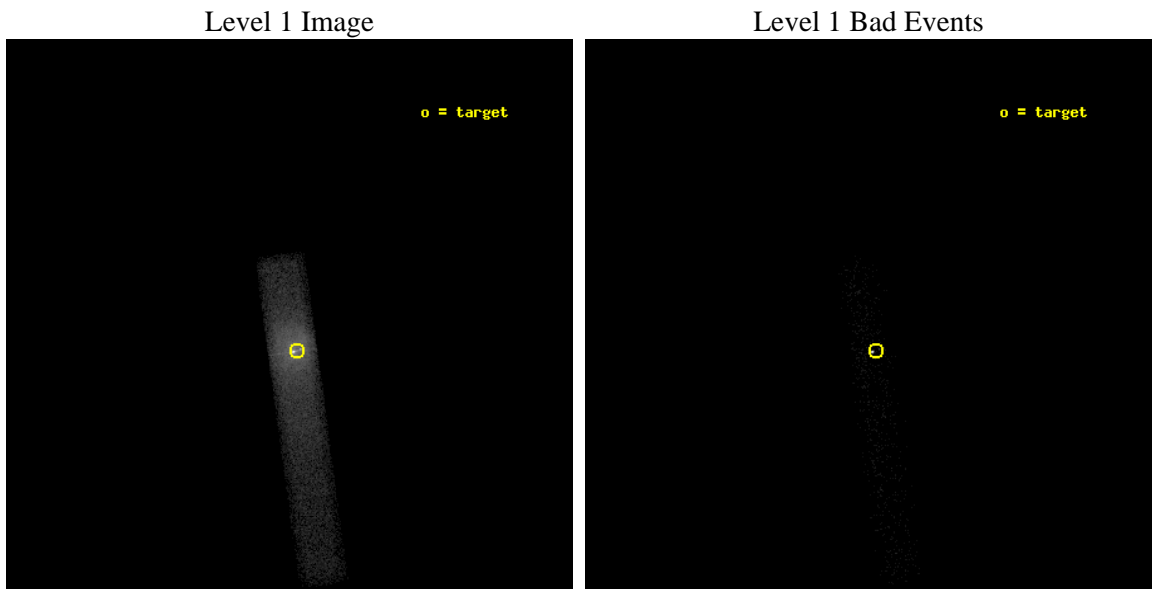
seq_num	701160	Sequence number
obs_id	5738	Observation id
title	The X-ray Flares of Knot 'HST-1' in the M87 Jet (monitoring)	Pro
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.7076414	Nominal RA [deg]
dec_nom	12.403654736539	Nominal Dec [deg]
roll_nom	82.155921024976	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5144.8000766337	Sum of GTIs [s]
livetime	4666.0621046923	Livetime [s]
ontime7	5144.8000766337	Sum of GTIs [s]
l2events	60288	Number of level 2 events



## 2 OBI

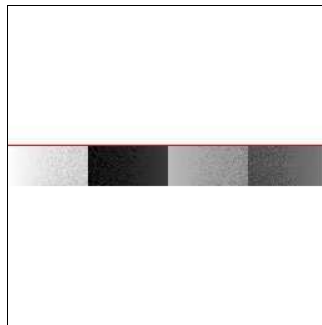
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1	Processing system revision	ontime	5144.8000766337	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime7	5144.8000766337	Sum of GTIs [s]
date	2012-12-16T11:50:19	Date and time of file creation	l1events	75809	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	75809
rejected events	14795
rejected %	19%

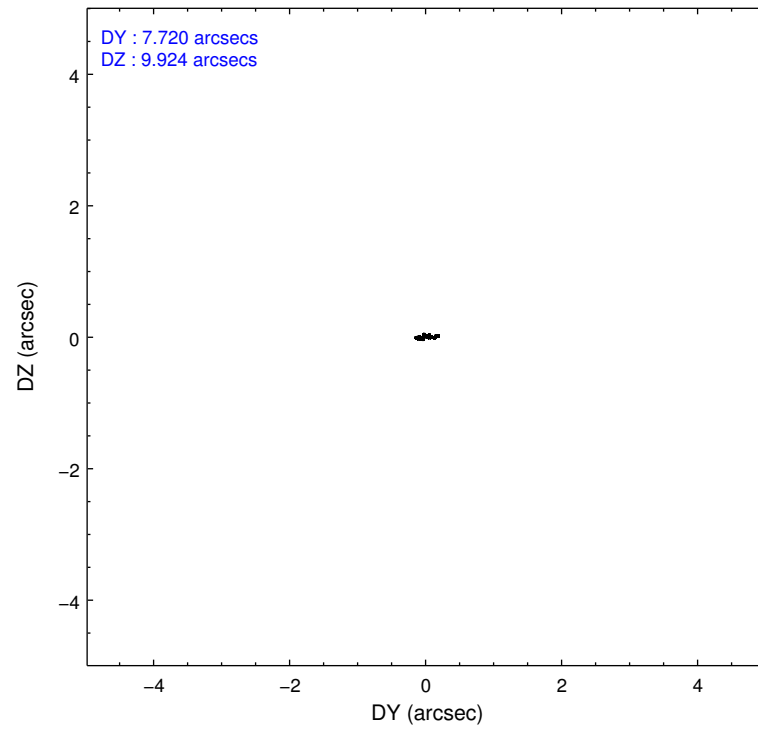
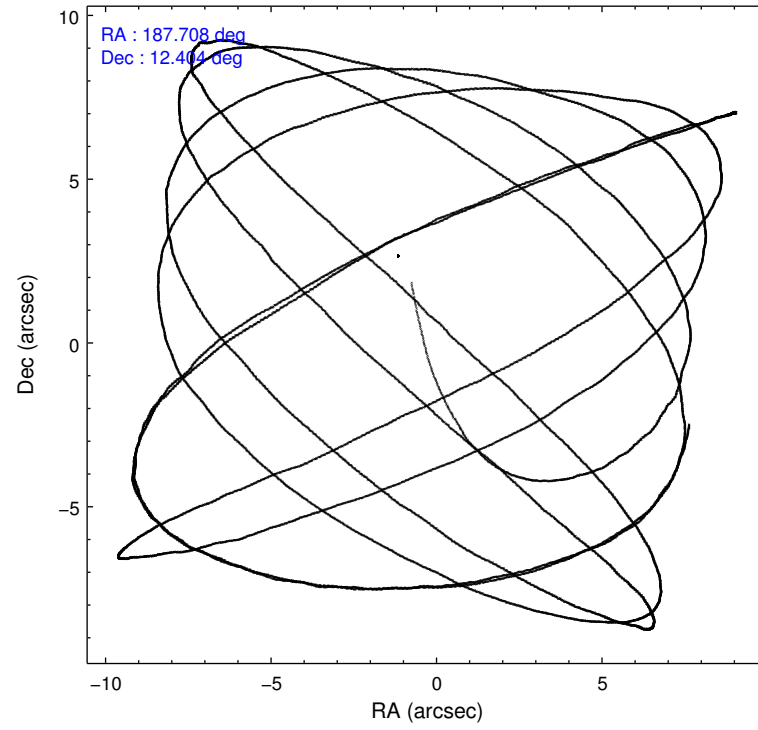
	<b>ccd 7</b>
grade 0 events	18901
	24%
grade 1 events	439
	0%
grade 2 events	15977
	21%
grade 3 events	7347
	9%
grade 4 events	7131
	9%
grade 5 events	3021
	3%
grade 6 events	14387
	18%
grade 7 events	8606
	11%

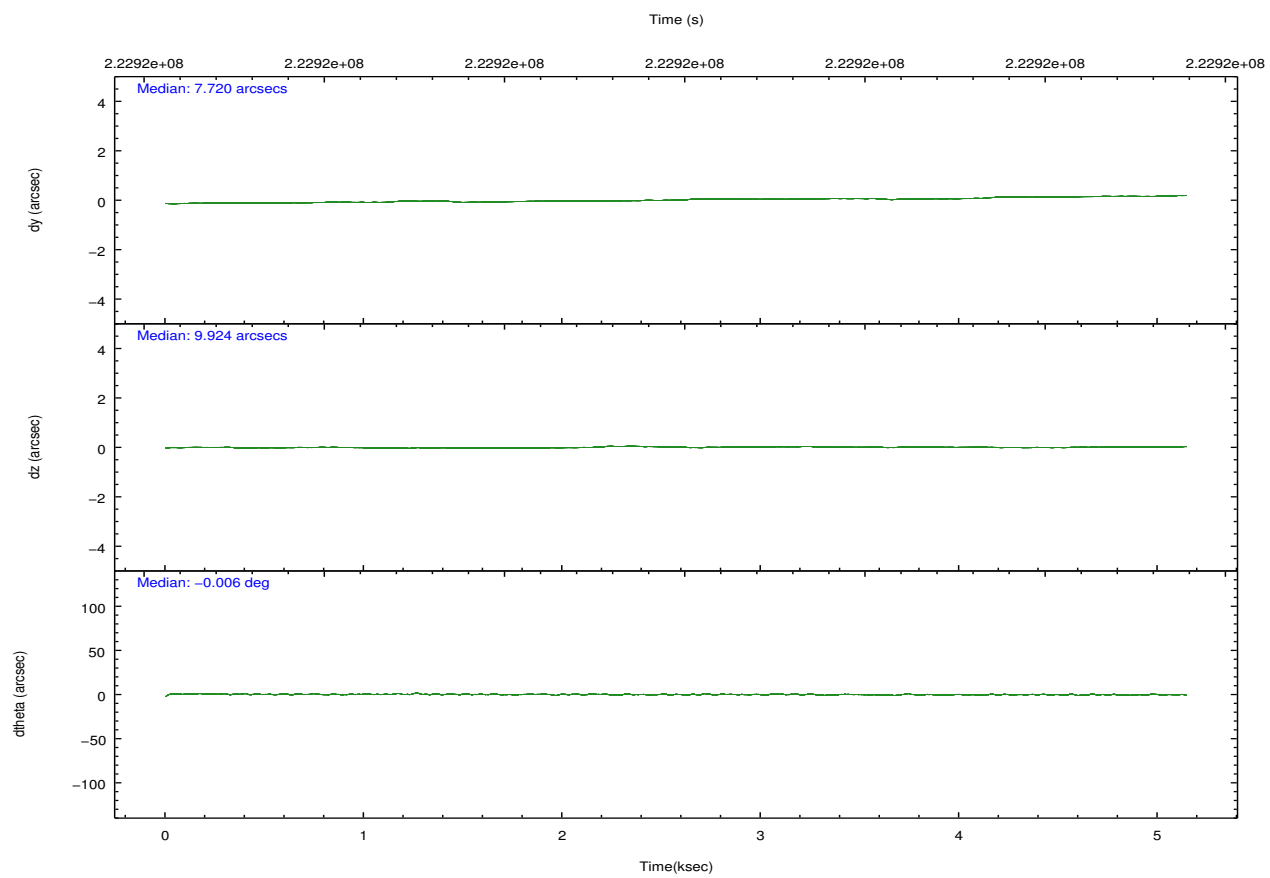
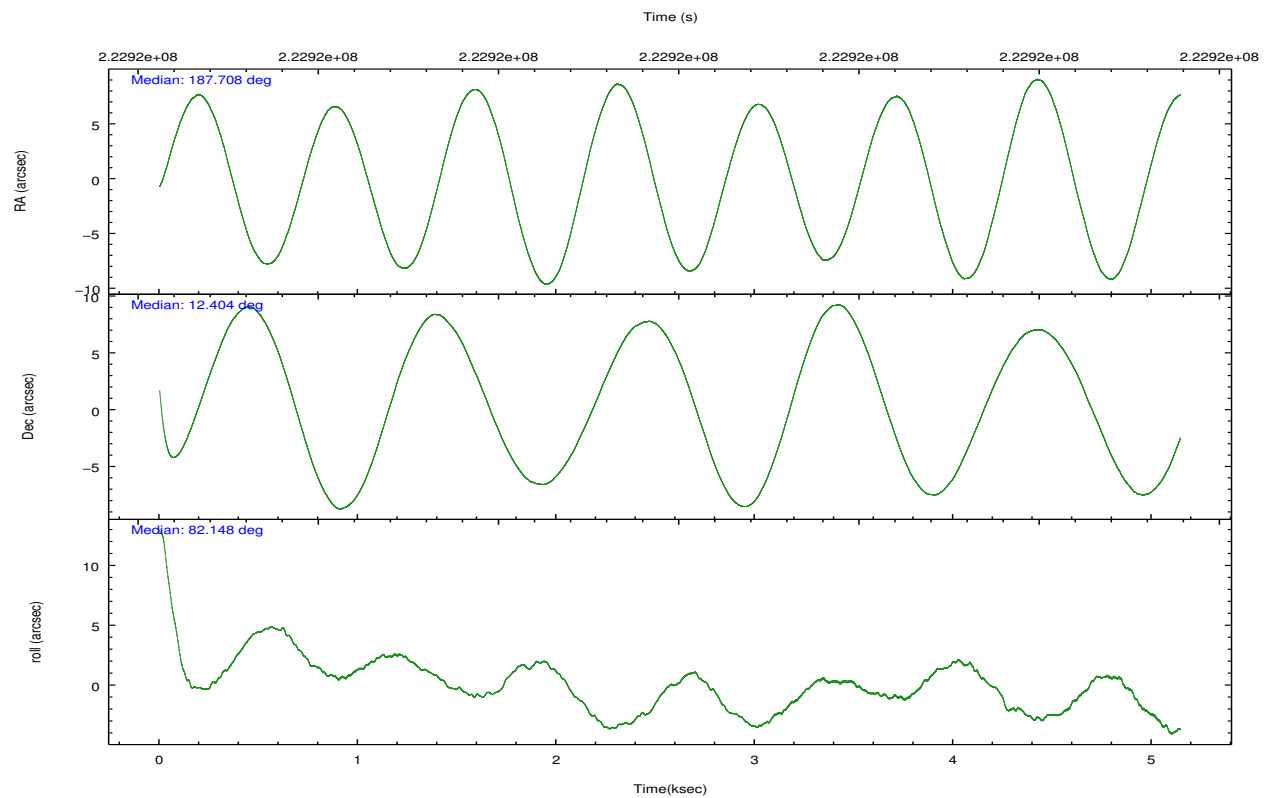


## 2.2 Compared Parameters

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	187.718484	187.7076414000043	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.378596	12.40365473653878	Subarray start row	449	449
[deg] Pointing Roll	81.996927	82.15592102497602	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)	222919525.184000	222918178.67687			
Observation start date	2005-01-24T02:04:21	2005-01-24T01:42:58			
[s] Observation end time (MET)	222924525.184000	222925086.66469			
Observation end date	2005-01-24T03:27:41	2005-01-24T03:38:06			
Read mode	TIMED	TIMED			

## 2.3 Aspect



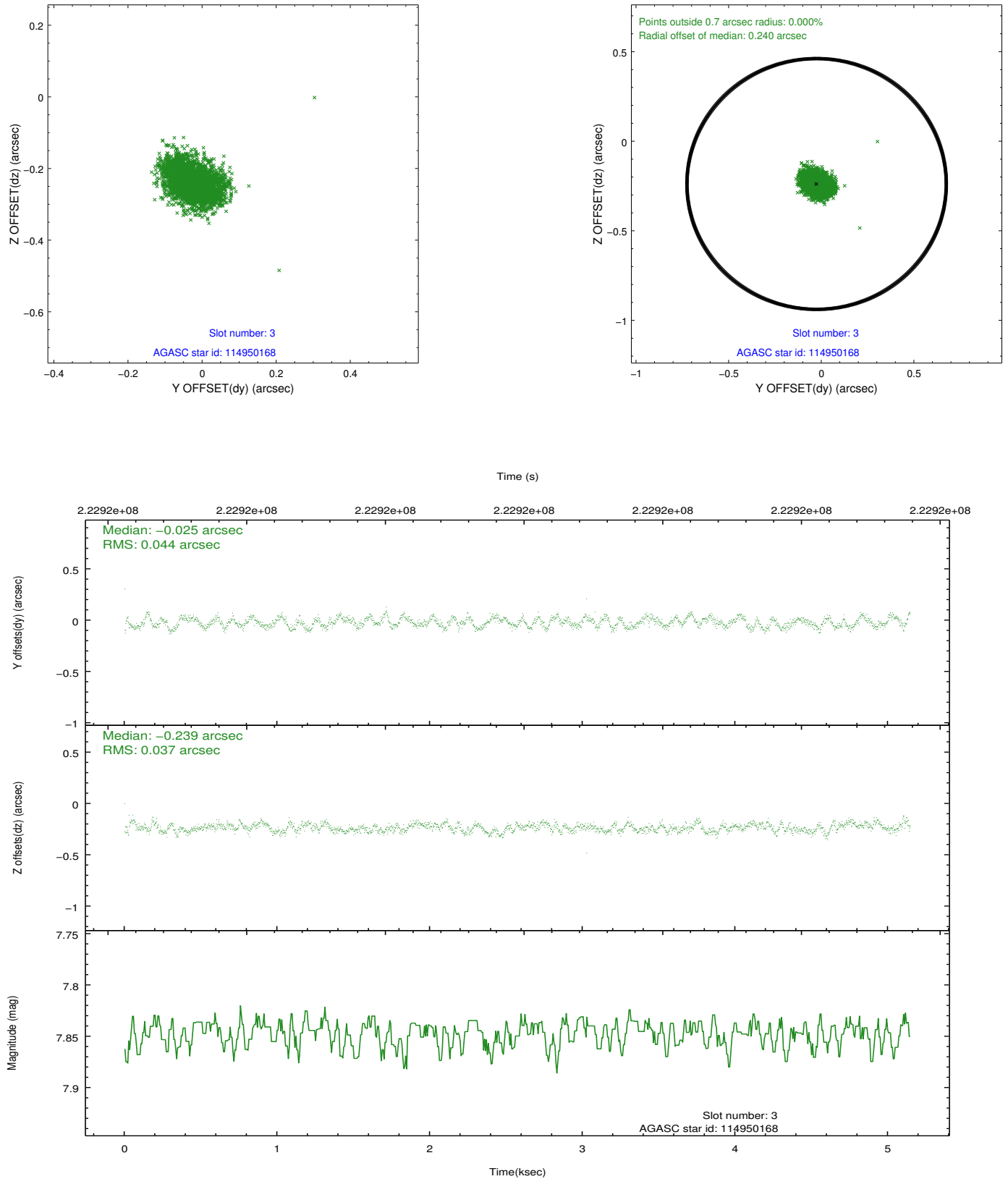


### Slot Statistics

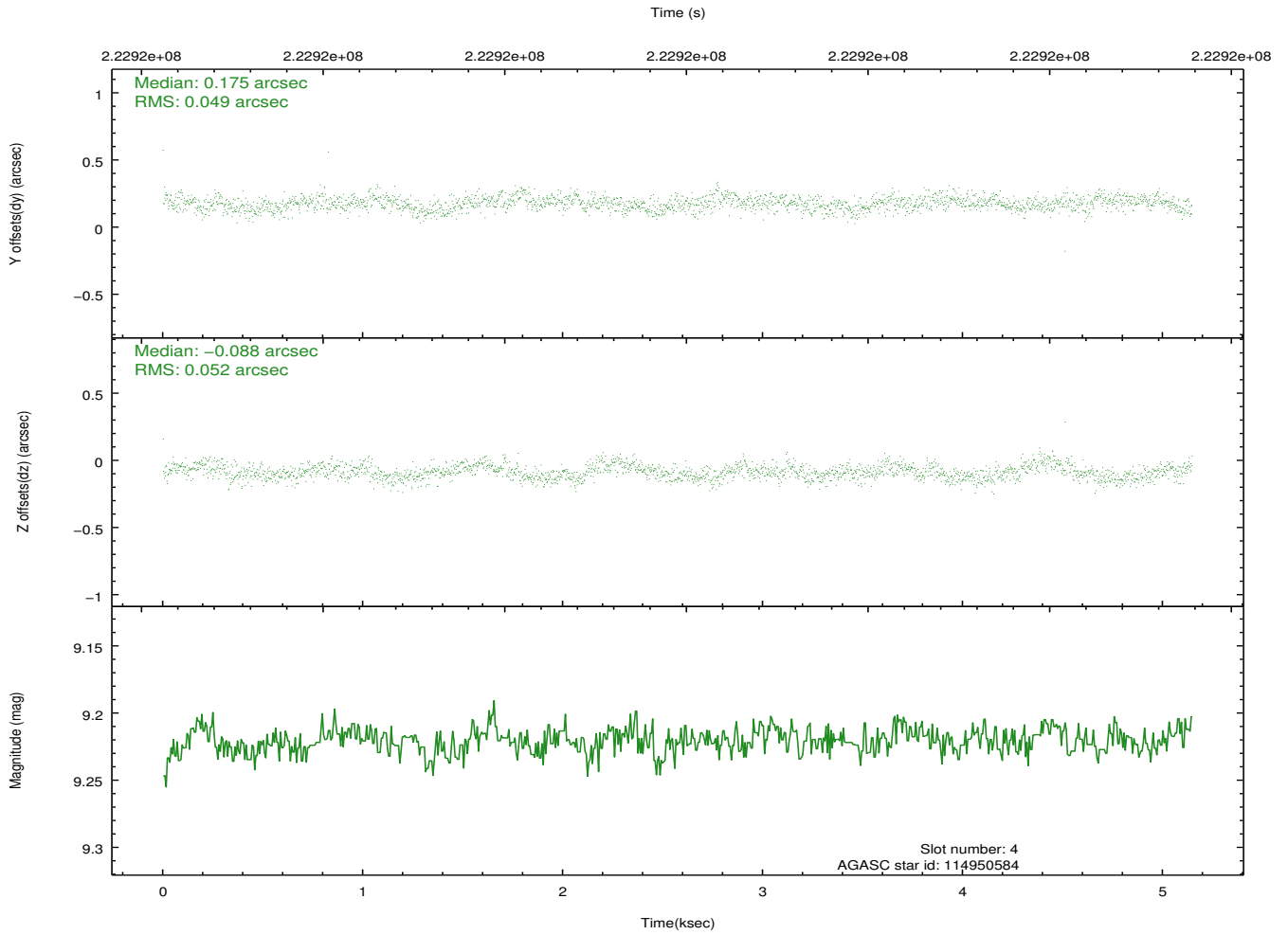
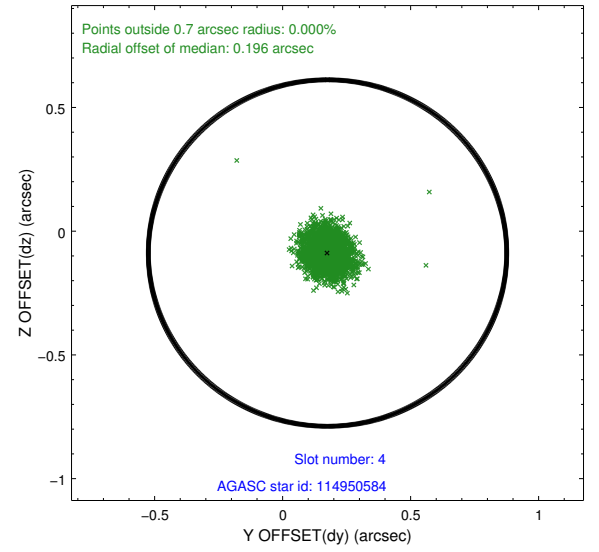
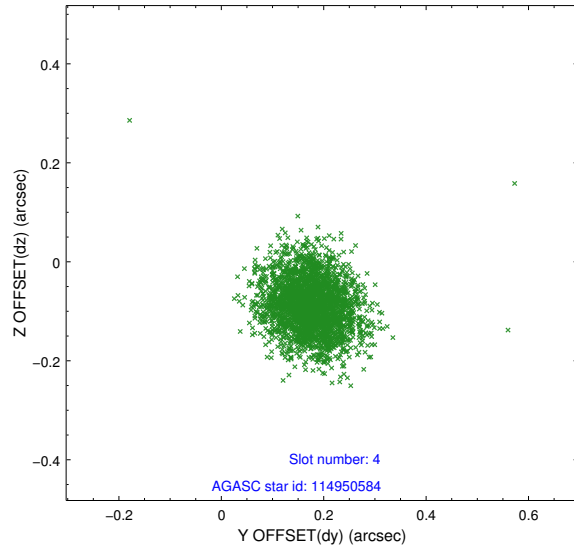
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1255	-0.043	-0.031	0.007	0.011	0.000000	0.000000	-760.49	-1731.22
1	FID	ACIS-S-4	7.21	1255	0.111	0.029	0.006	0.011	0.000000	0.000000	2152.35	176.18
2	FID	ACIS-S-5	7.23	1255	-0.099	0.011	0.007	0.012	0.000000	0.000000	-1811.93	171.07
3	GUIDE	114950168	7.85	2510	-0.025	-0.239	0.062	0.094	187.143398	12.117441	-1210.94	1873.96
4	GUIDE	114950584	9.22	2506	0.175	-0.088	0.075	0.121	187.487323	11.827248	-2078.88	531.35
5	GUIDE	114952824	8.56	2510	-0.131	-0.115	0.070	0.112	187.703904	12.486727	377.46	105.77
6	GUIDE	114955056	8.35	2511	0.021	0.348	0.064	0.105	187.914001	12.127854	-797.41	-806.26
7	GUIDE	114955568	7.52	2510	-0.041	0.095	0.063	0.104	187.061916	11.826551	-2287.88	2014.78

## 2.4 Star Slots

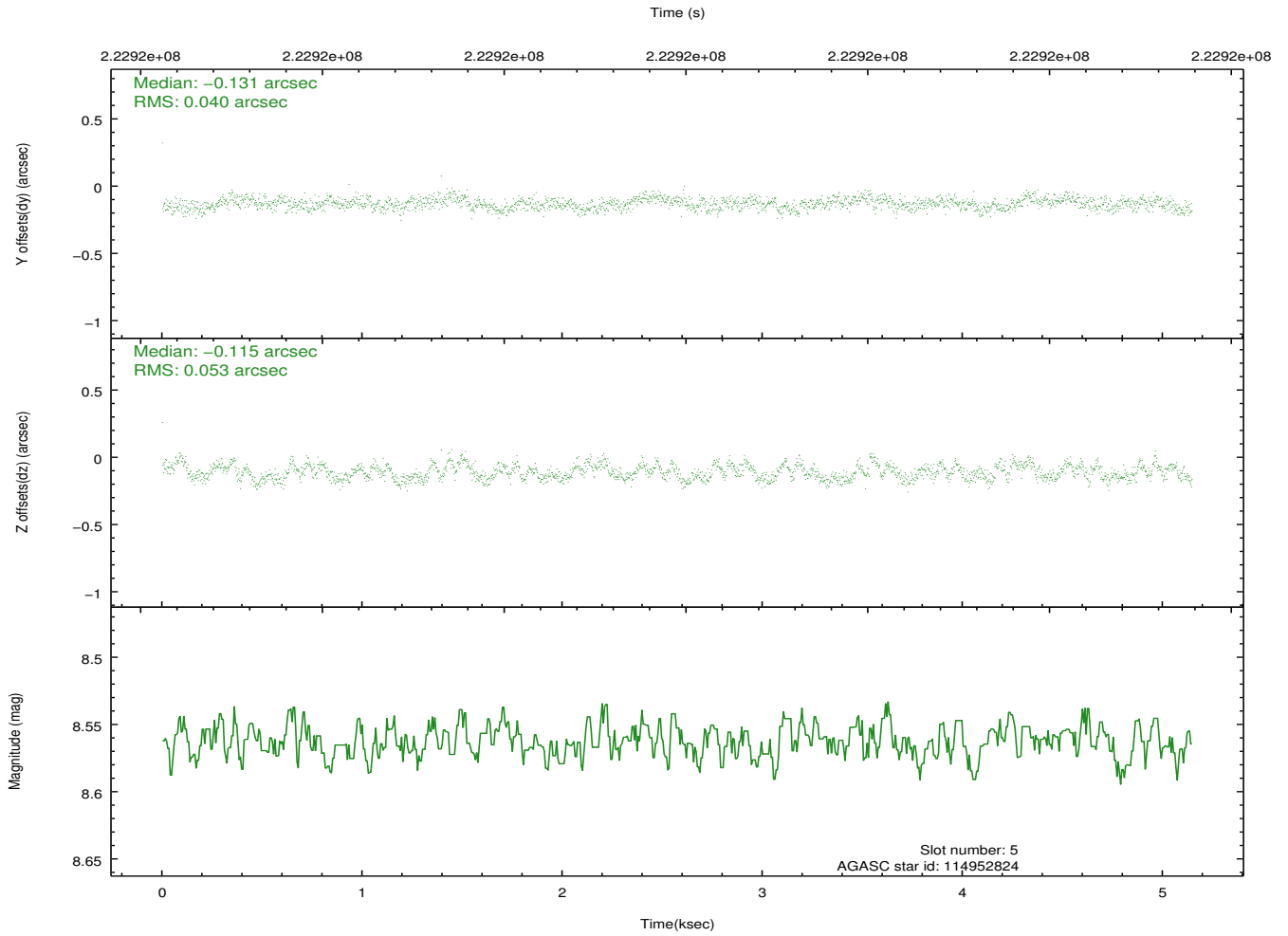
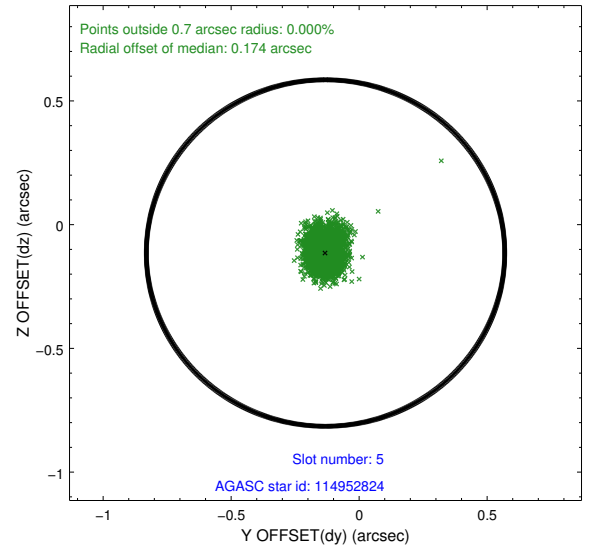
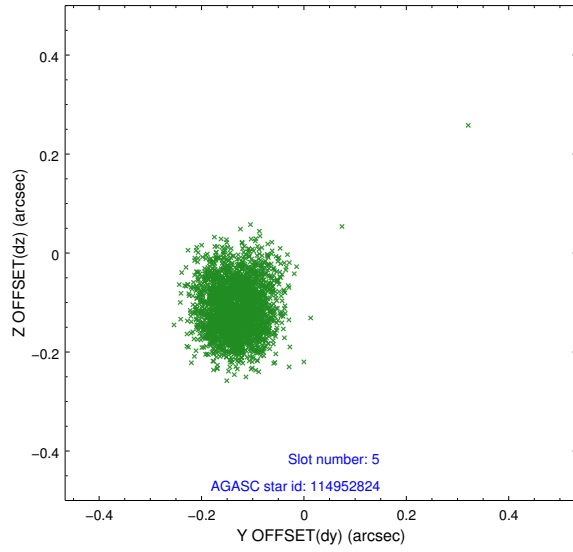
### 2.4.1 Slot 3



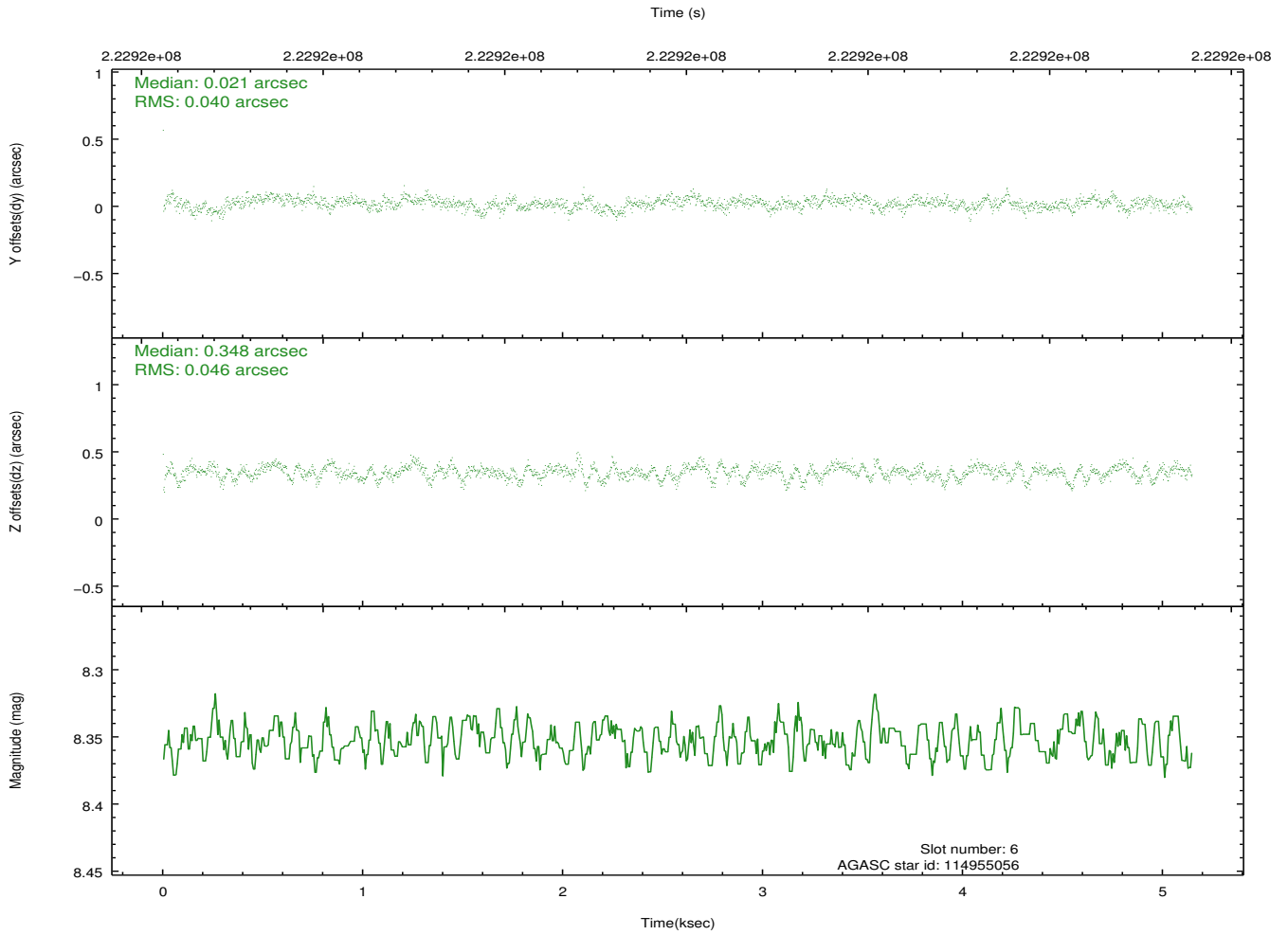
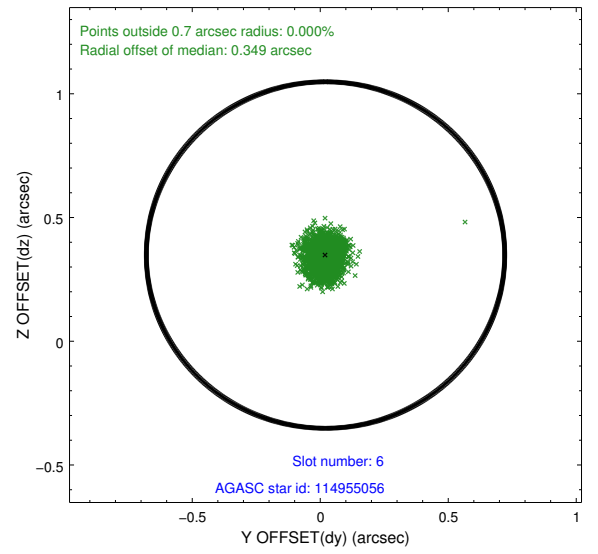
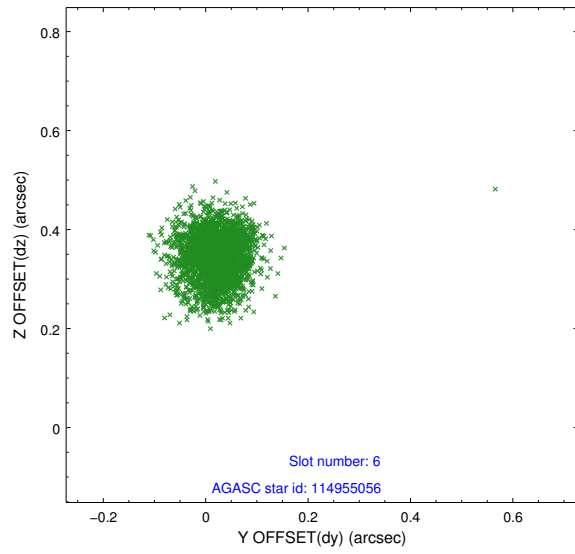
## 2.4.2 Slot 4



### 2.4.3 Slot 5

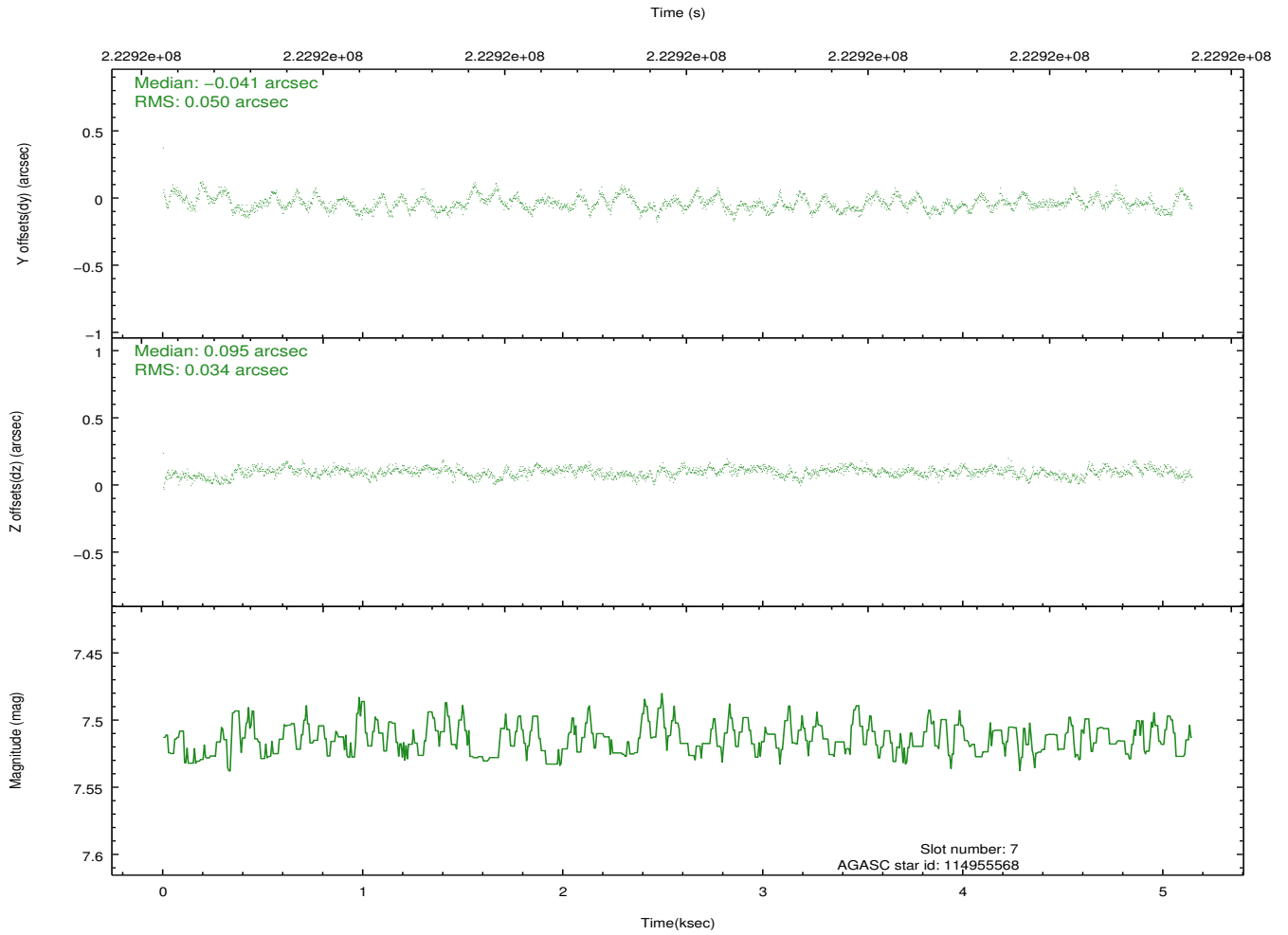
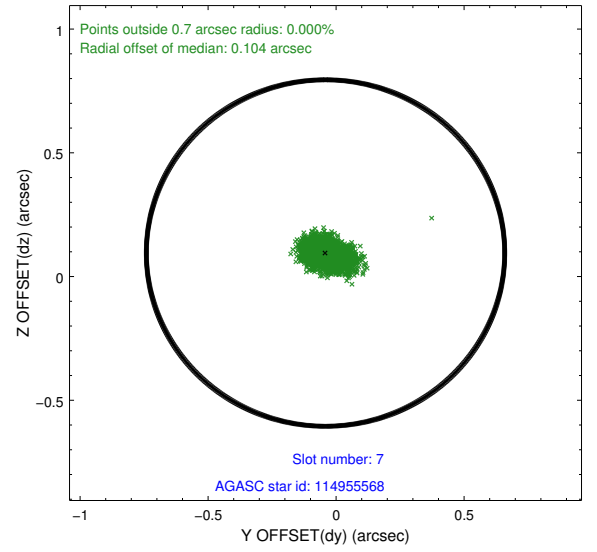
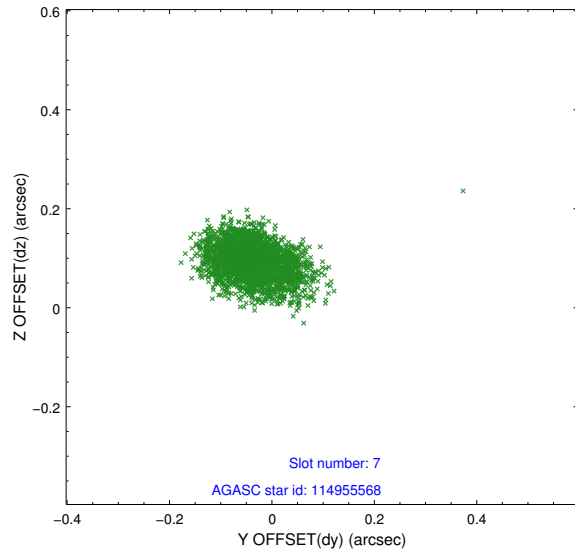


## 2.4.4 Slot 6



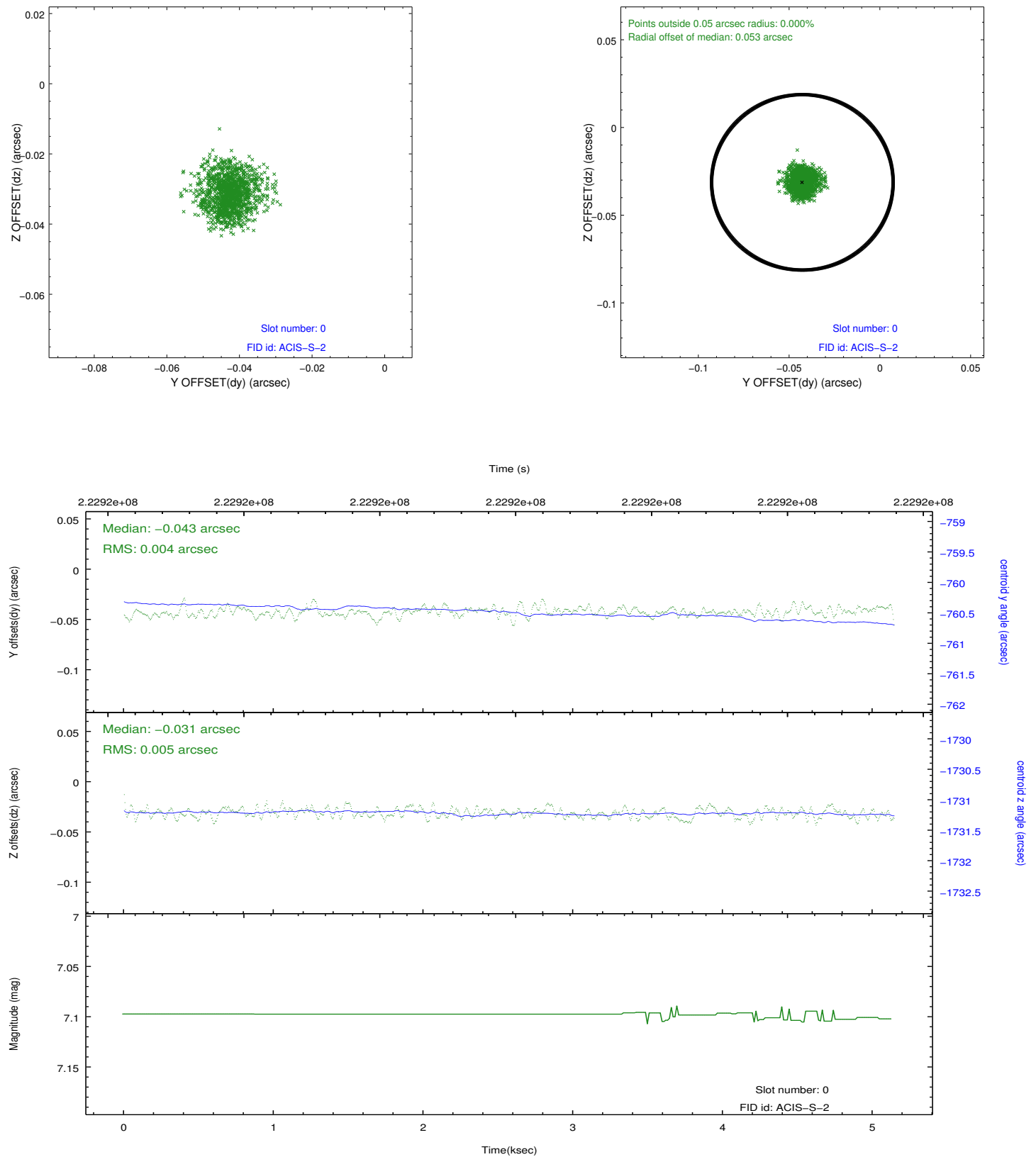


## 2.4.5 Slot 7

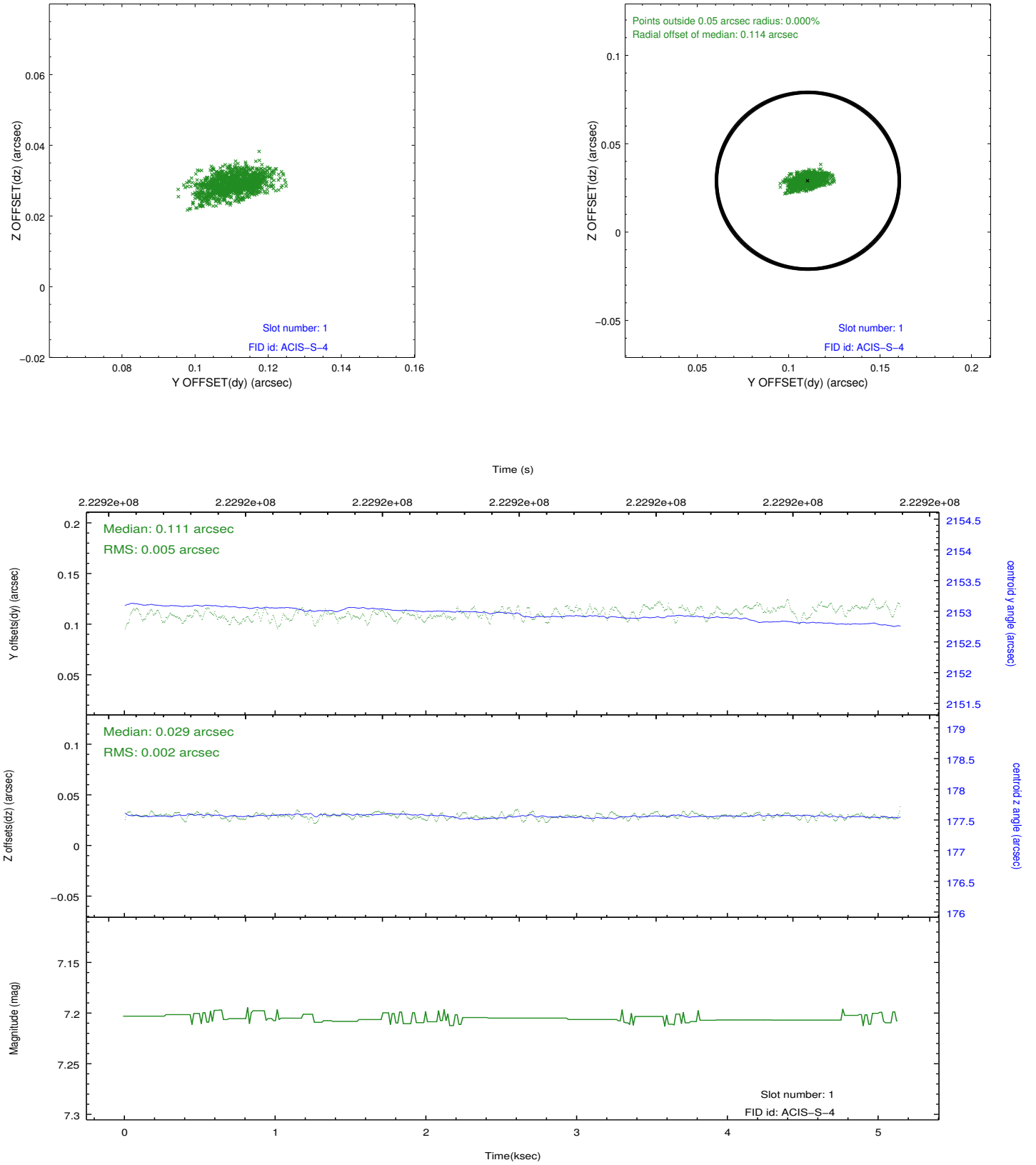


## 2.5 FID Slots

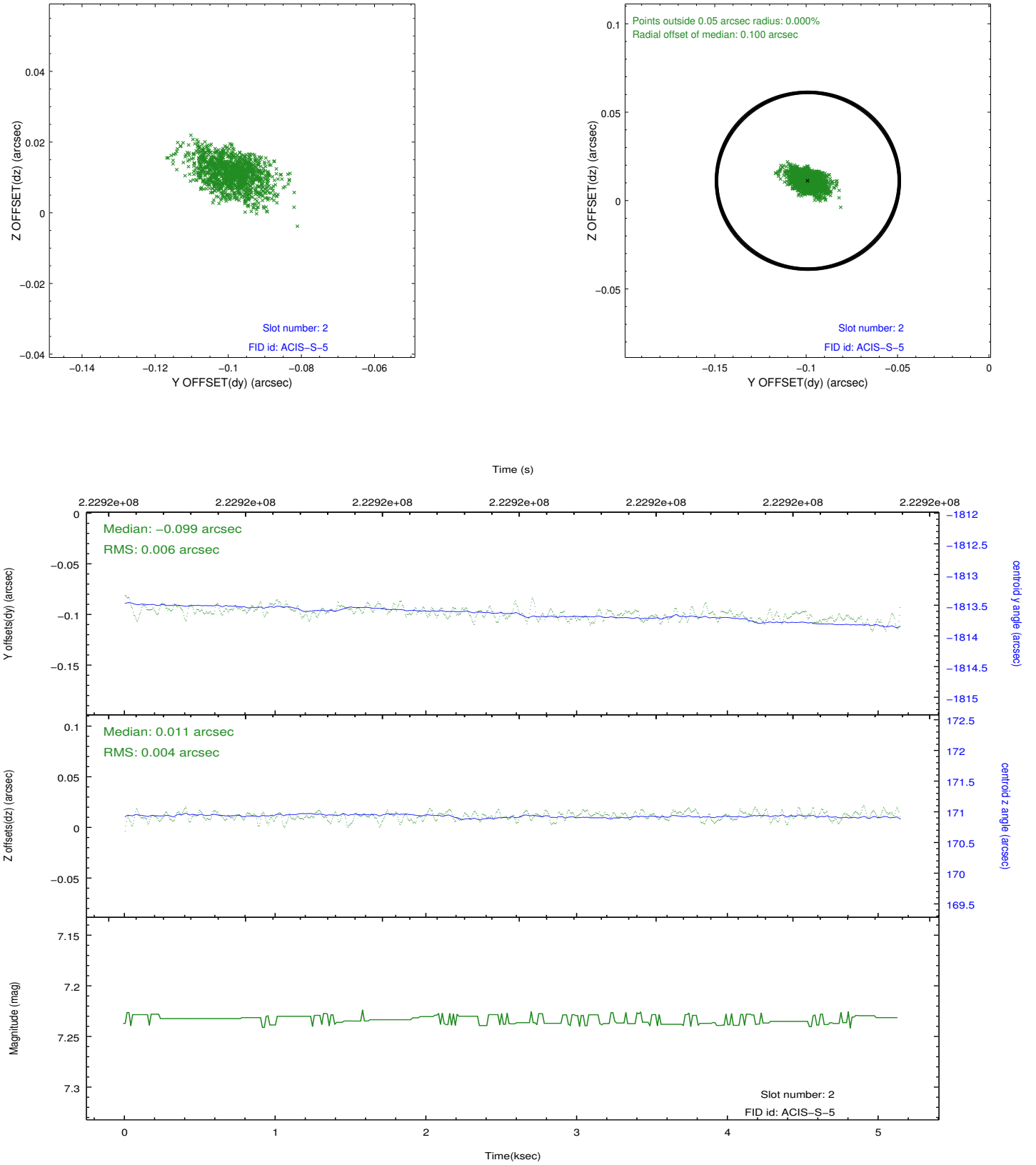
### 2.5.1 Slot 0



## 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)	2013.01.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1448

### A.2 Comments

Joint Proposal: CX0-HST