

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 13171 - L2 Version 2  
Chandra X-Ray Center

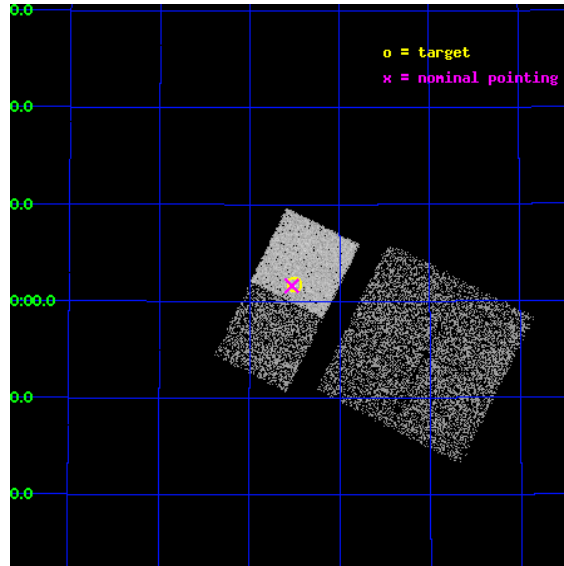
L2 Processing Date : Jul 6 2012

## 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

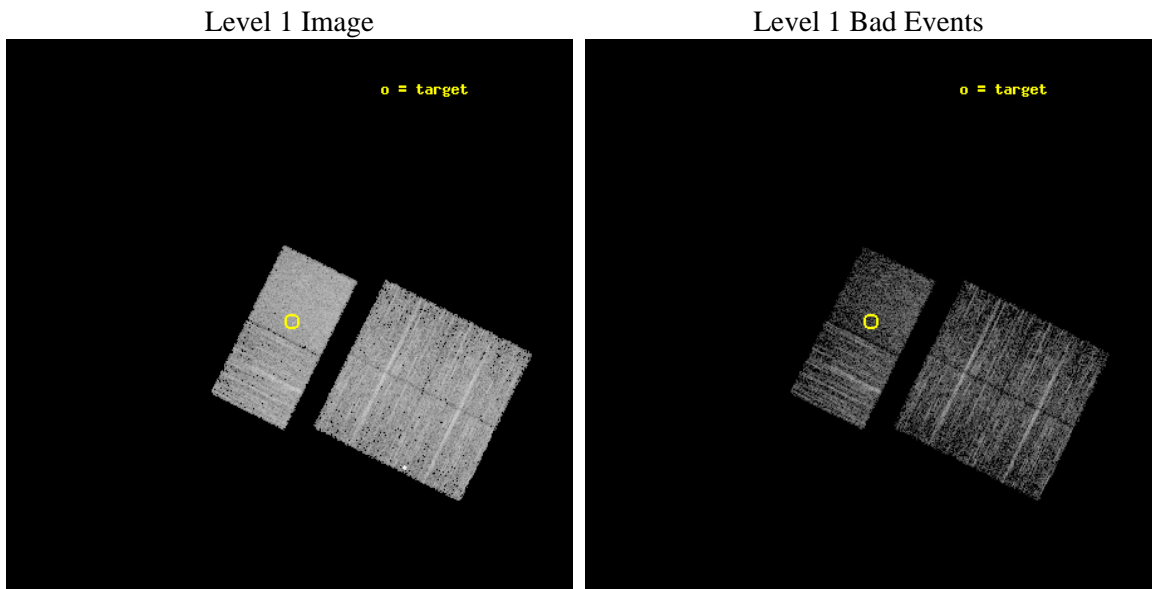
seq_num	401291	Sequence number
obs_id	13171	Observation id
title	Confirming the low-mass X-ray binaries in the Kepler field	Proposa
observer	Dr Jifeng Liu	Principal investigator
object	J192430.2+510146	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	291.125833	Observer's specified target RA [deg]
dec_targ	51.029444	Observer's specified target Dec [deg]
ra_nom	291.13247263672	Nominal RA [deg]
dec_nom	51.026861886896	Nominal Dec [deg]
roll_nom	296.54033563334	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3755.3479565382	Sum of GTIs [s]
livetime	3707.7954795134	Livetime [s]
ontime0	3755.3889965415	Sum of GTIs [s]
ontime1	3755.183796525	Sum of GTIs [s]
ontime2	3755.2248365283	Sum of GTIs [s]
ontime3	3755.2658765316	Sum of GTIs [s]
ontime6	3755.3069165349	Sum of GTIs [s]
ontime7	3755.3479565382	Sum of GTIs [s]
l2events	27522	Number of level 2 events



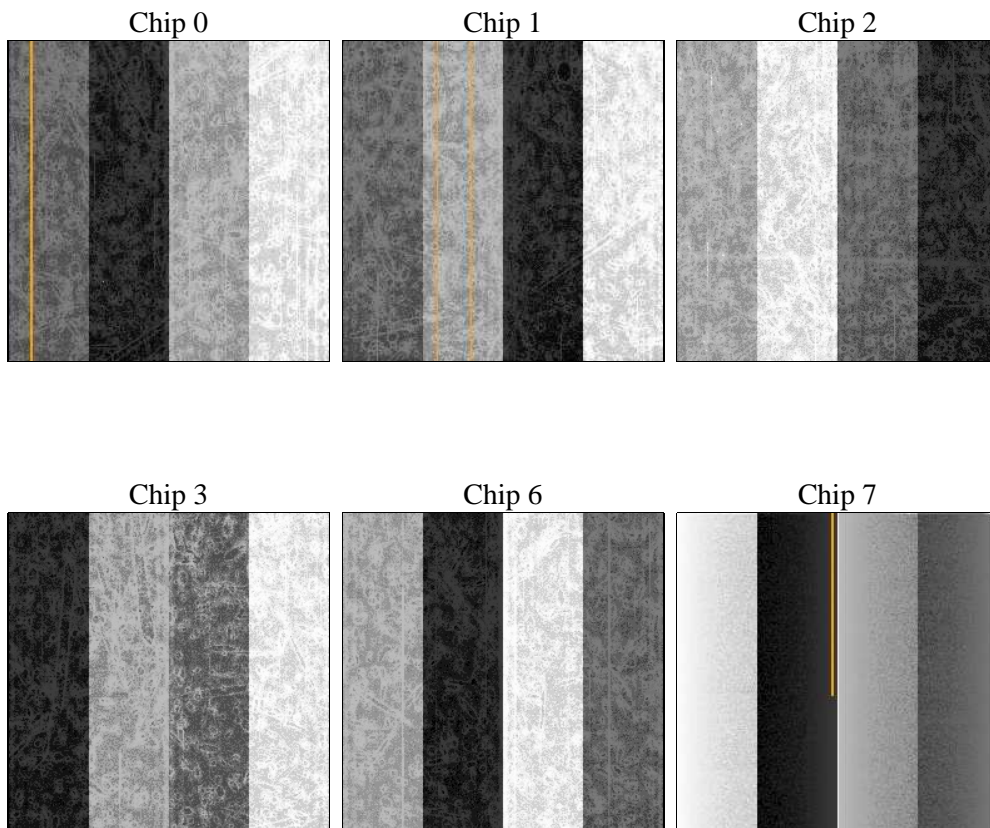
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3755.3479565382	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime0	3755.3889965415	Sum of GTIs [s]
date	2012-07-06T12:28:54	Date and time of file creation	ontime1	3755.183796525	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	3755.2248365283	Sum of GTIs [s]
			ontime3	3755.2658765316	Sum of GTIs [s]
			ontime6	3755.3069165349	Sum of GTIs [s]
			ontime7	3755.3479565382	Sum of GTIs [s]
			l1events	169179	Number of level 1 events

### 2.1.4 Events

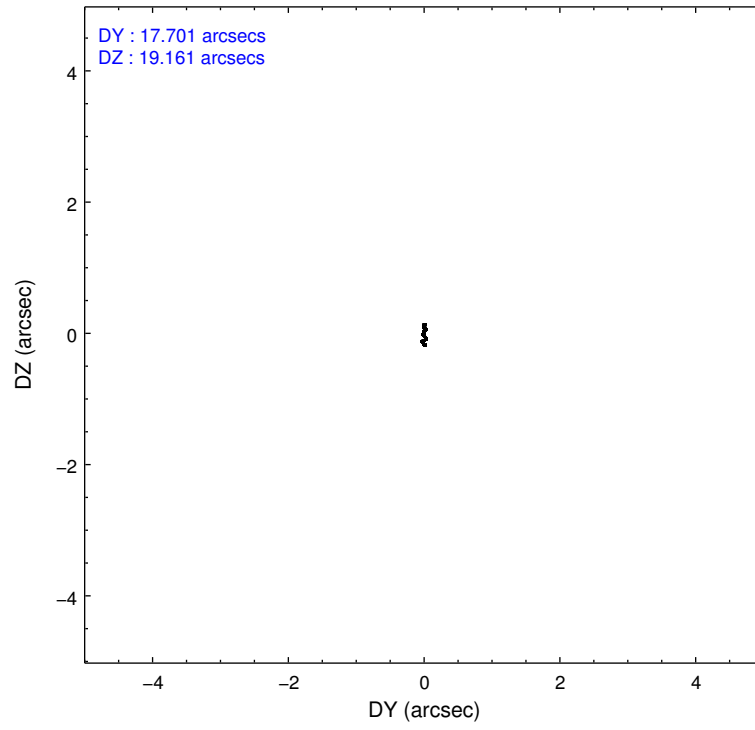
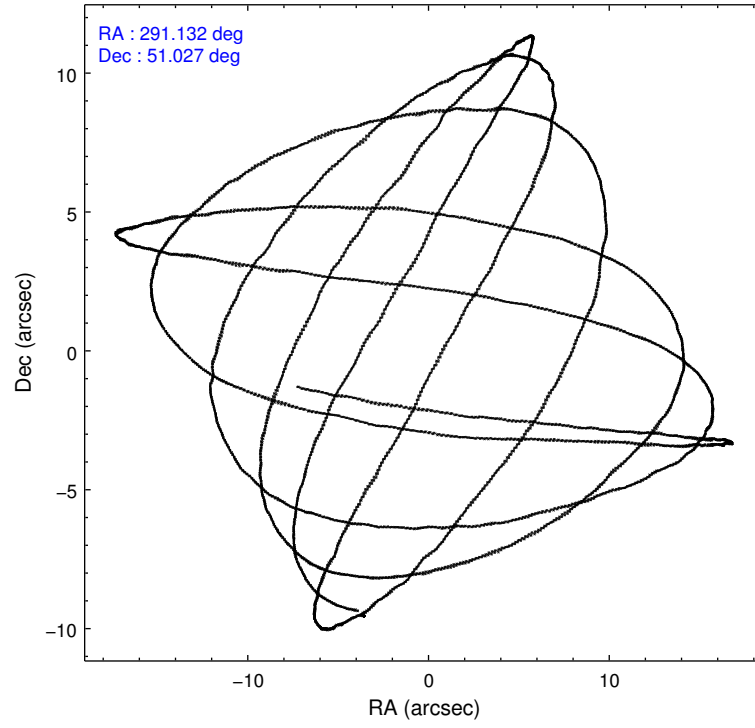
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	28355	26590	26722	24911	28780	33821	grade 0 events	2145	1169	1016	995	1046	1360
rejected events	24156	23307	23894	22152	25711	18457		7%	4%	3%	3%	3%	4%
rejected %	85%	87%	89%	88%	89%	54%	grade 1 events	24	20	21	14	13	46
								0%	0%	0%	0%	0%	0%
							grade 2 events	780	776	664	564	679	3136
								2%	2%	2%	2%	2%	9%
							grade 3 events	338	358	304	334	336	1388
								1%	1%	1%	1%	1%	4%
							grade 4 events	312	333	301	293	319	1372
								1%	1%	1%	1%	1%	4%
							grade 5 events	1219	1151	1069	1250	1245	3458
								4%	4%	4%	5%	4%	10%
							grade 6 events	627	653	549	578	689	8125
								2%	2%	2%	2%	2%	24%
							grade 7 events	22910	22130	22798	20883	24453	14936
								80%	83%	85%	83%	84%	44%

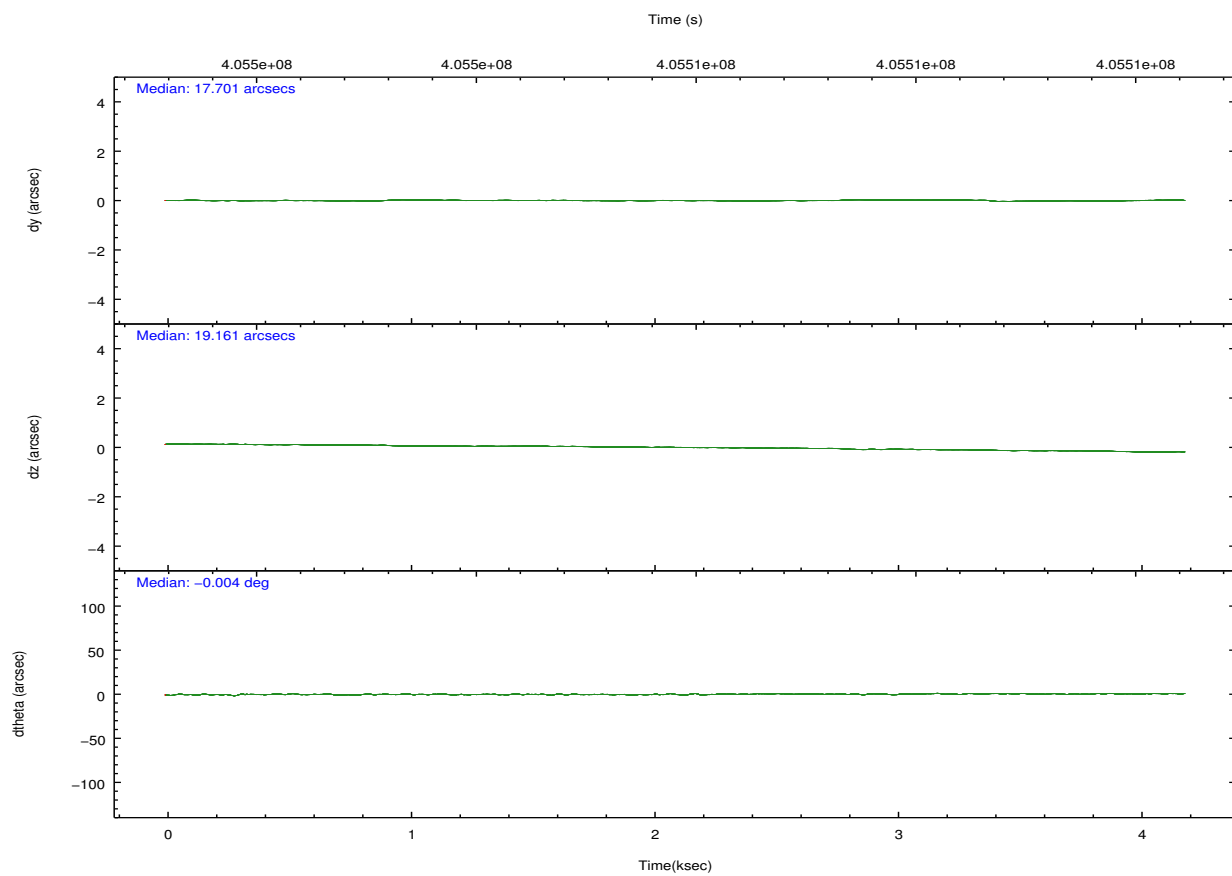
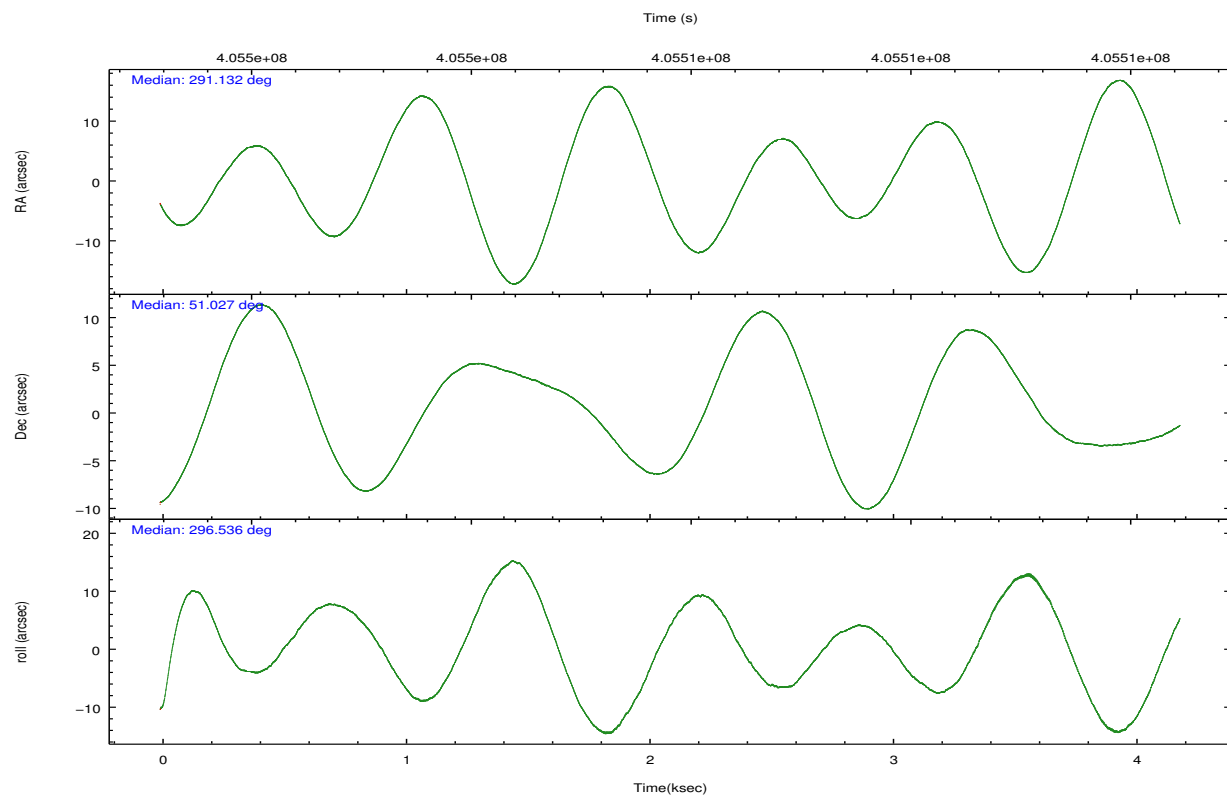


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	291.095785	291.1324726367181	Subarray requested	NONE	NONE
[deg] Pointing Dec	51.041643	51.02686188689599	Alternating exposures requested	N	N
[deg] Pointing Roll	296.412271	296.5403356333417	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	405503984.184000	405503389.39149			
Observation start date	2010-11-07T07:58:38	2010-11-07T07:49:49			
[s] Observation end time (MET)	405507984.184000	405508837.77927			
Observation end date	2010-11-07T09:05:18	2010-11-07T09:20:37			
Read mode	TIMED	TIMED			

## 2.3 Aspect



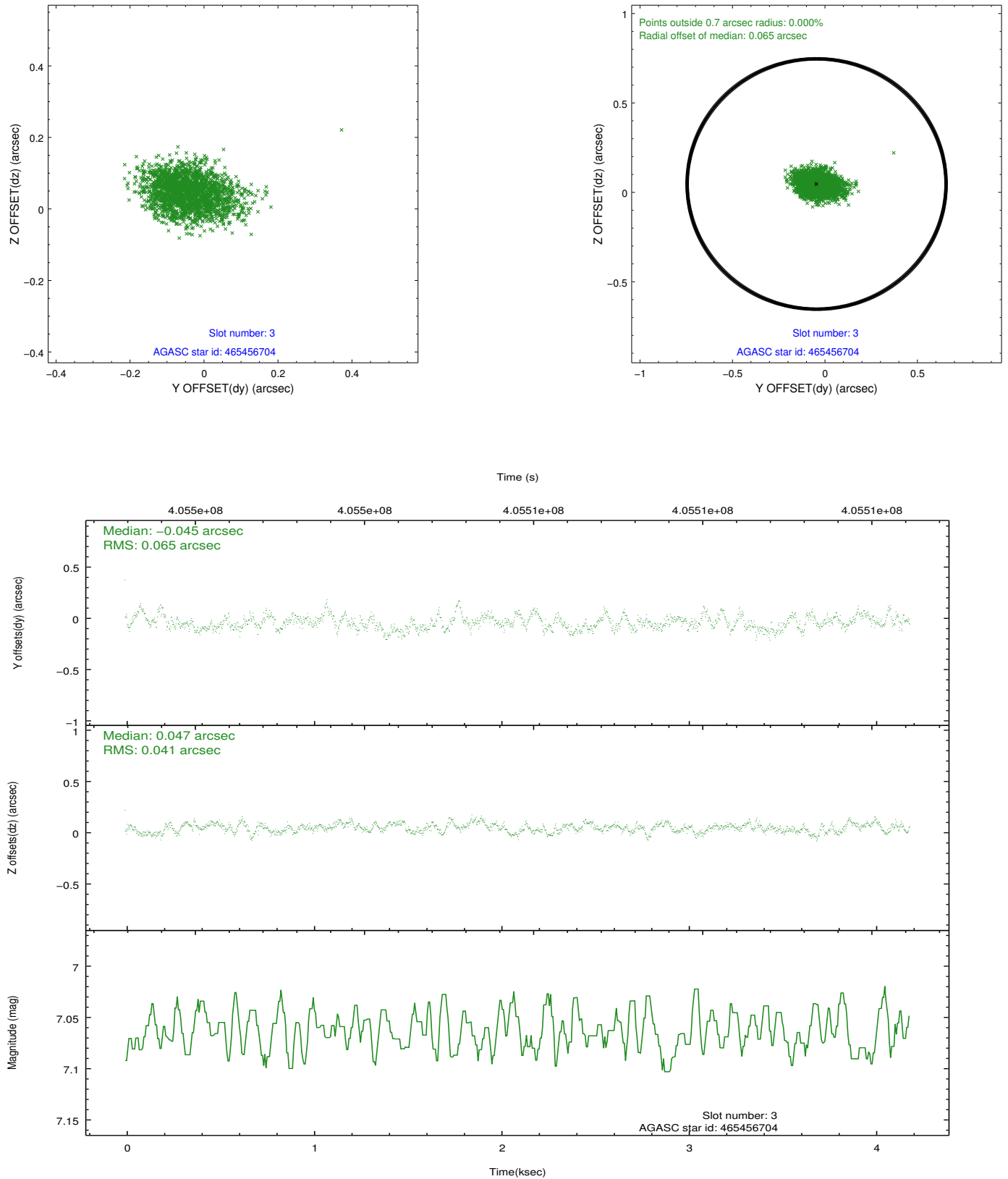


### Slot Statistics

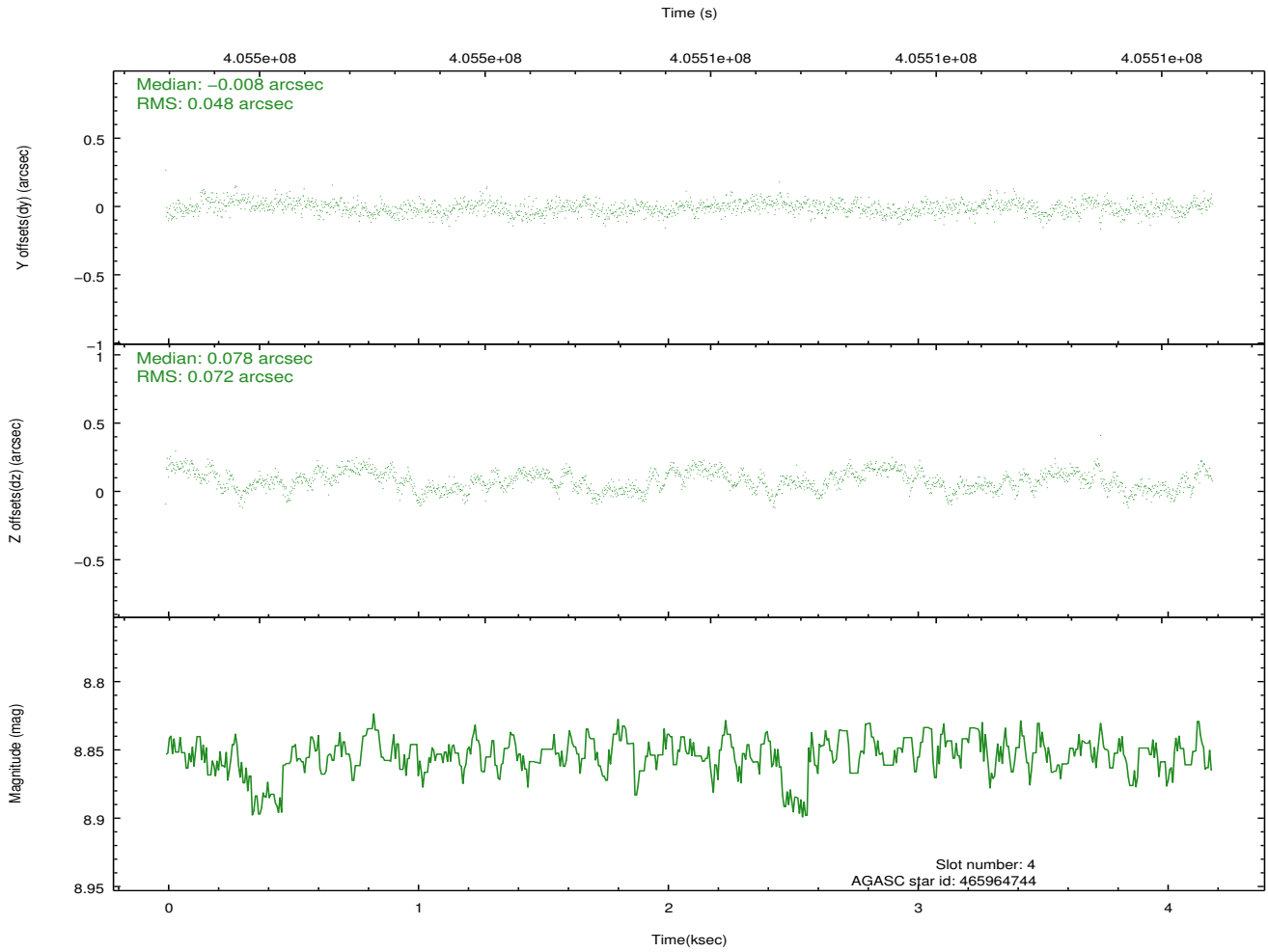
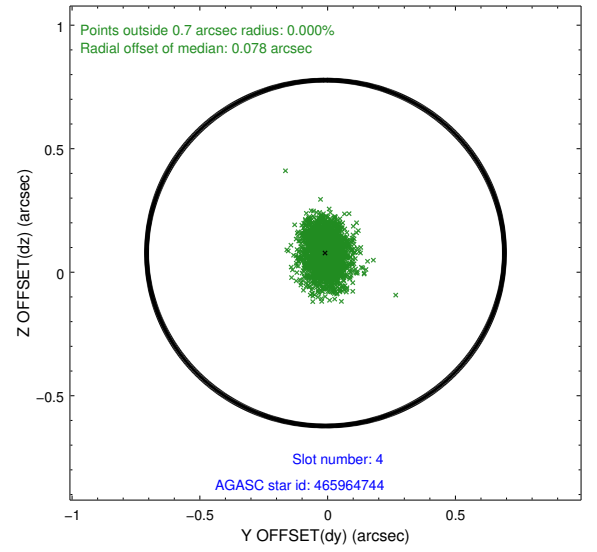
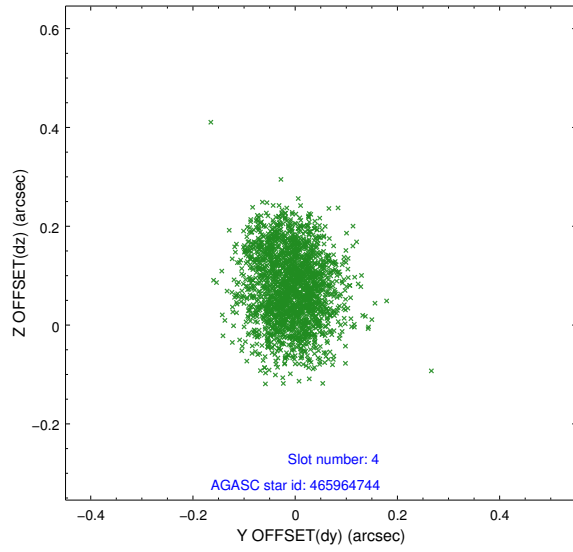
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.90	1022	-0.082	-0.035	0.007	0.012	0.000000	0.000000	-770.84	-1740.62
1	FID	ACIS-S-4	6.98	1022	0.200	0.049	0.005	0.010	0.000000	0.000000	2142.05	166.39
2	FID	ACIS-S-5	7.01	1022	-0.150	-0.005	0.007	0.012	0.000000	0.000000	-1821.84	161.72
3	GUIDE	465456704	7.07	2044	-0.045	0.047	0.080	0.132	290.849115	50.271291	2230.88	-1741.40
4	GUIDE	465964744	8.85	2041	-0.008	0.078	0.094	0.147	289.959076	51.335520	-2100.97	-1811.31
5	GUIDE	465965336	9.35	2030	0.130	0.067	0.104	0.167	290.022904	50.939695	-770.25	-2336.03
6	GUIDE	465965488	9.34	2042	0.035	-0.050	0.109	0.173	291.807349	50.849037	1333.33	1142.76
7	GUIDE	465965936	8.25	2042	-0.116	-0.140	0.084	0.132	291.592051	50.987315	672.18	923.02

## 2.4 Star Slots

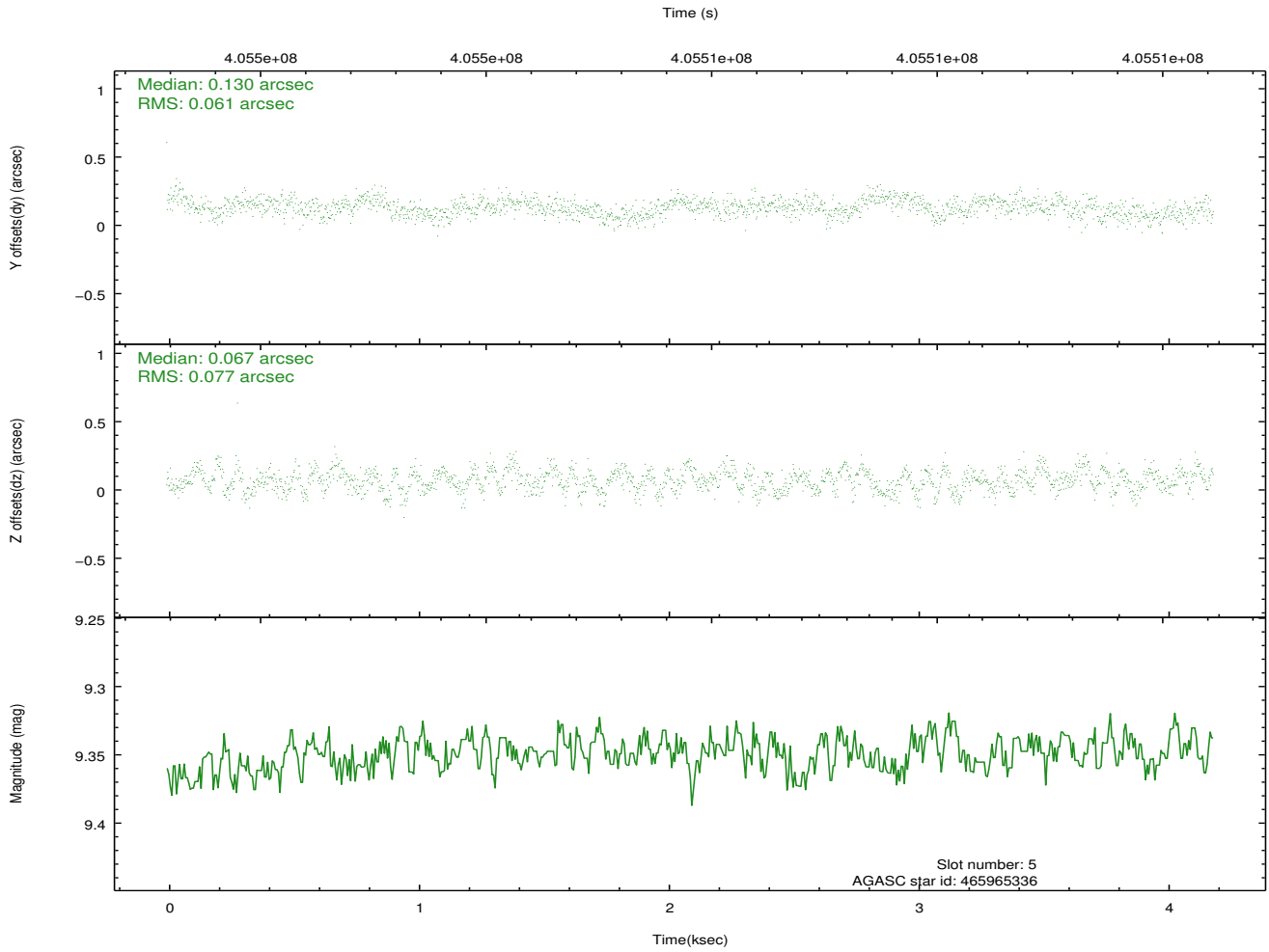
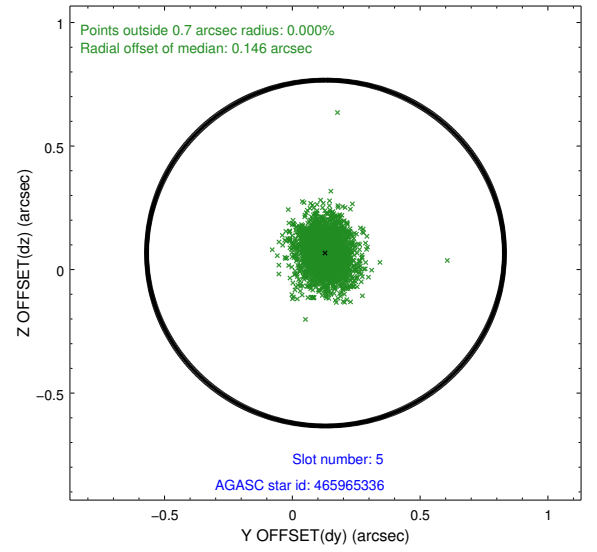
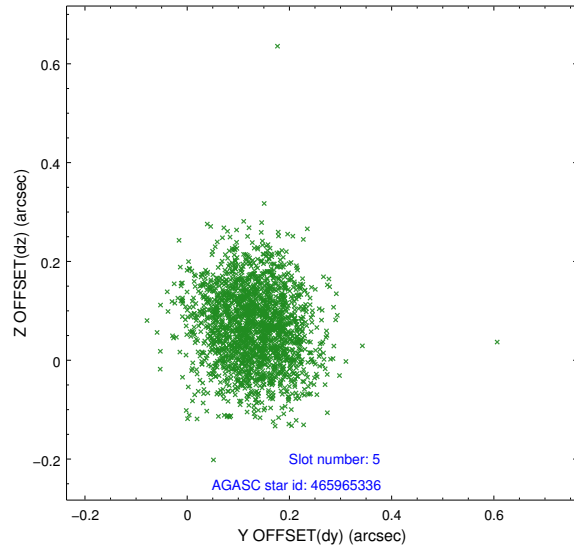
### 2.4.1 Slot 3



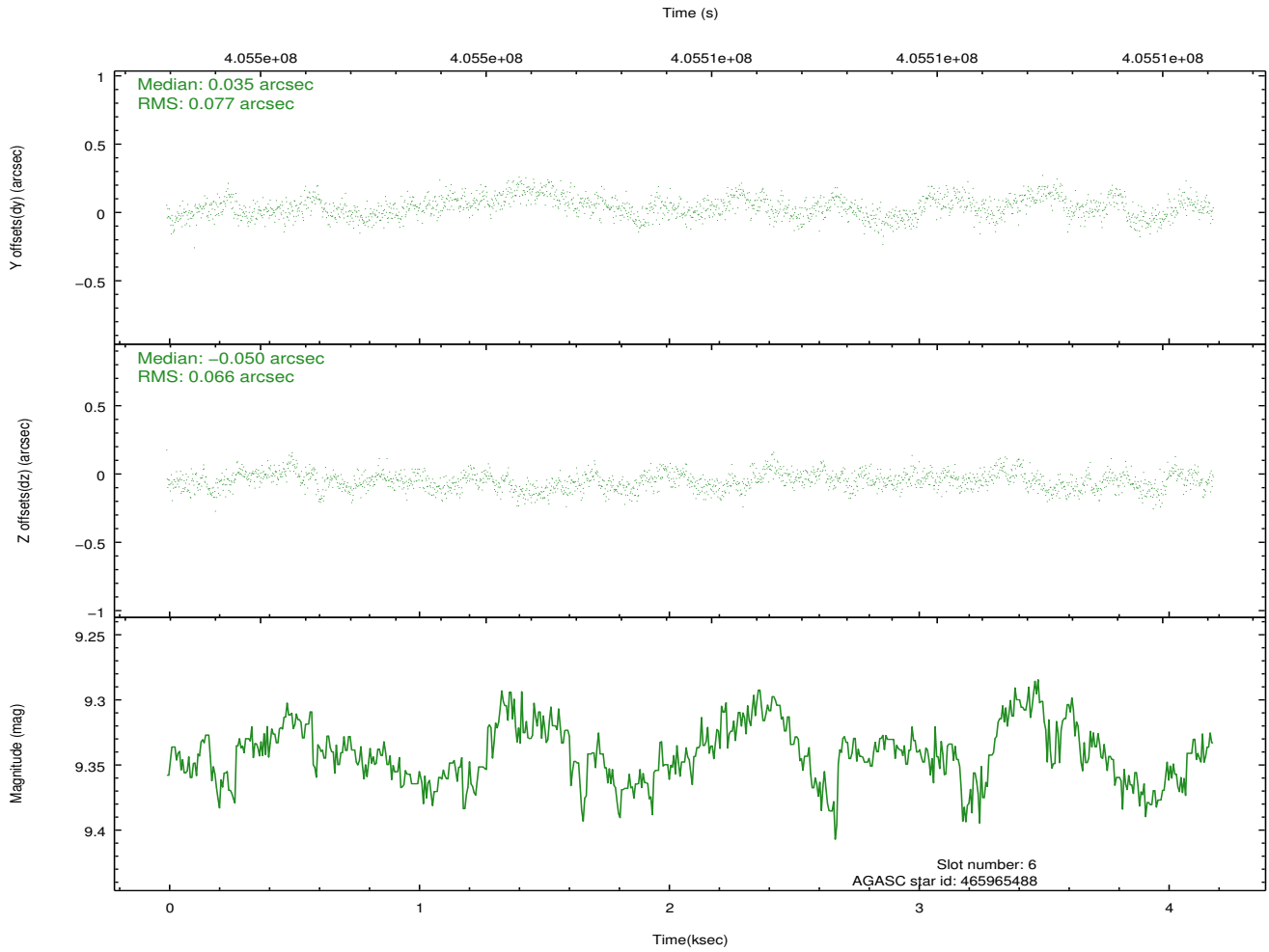
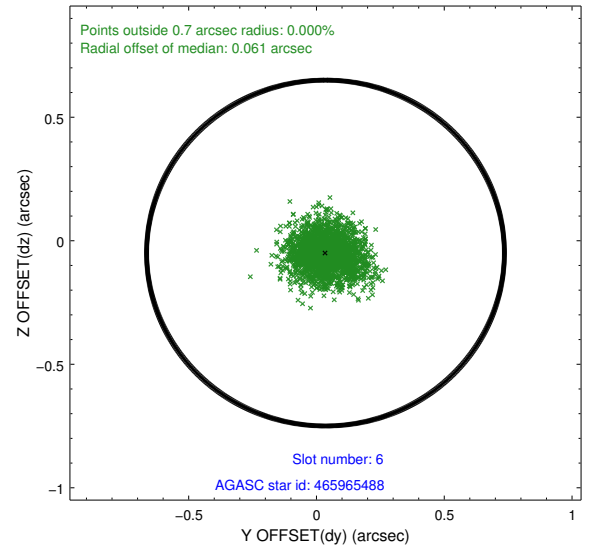
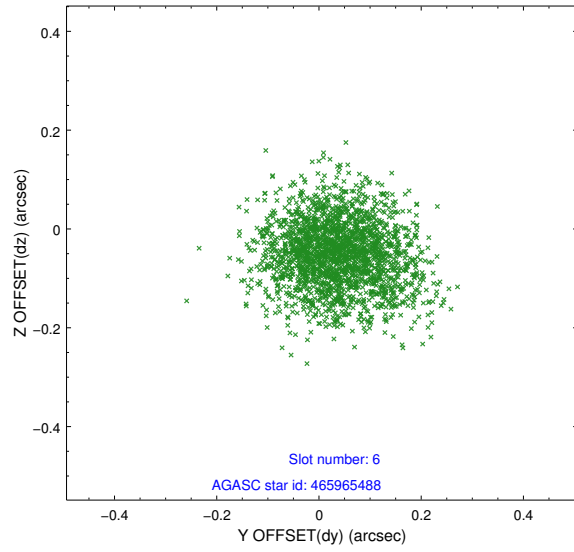
## 2.4.2 Slot 4



### 2.4.3 Slot 5

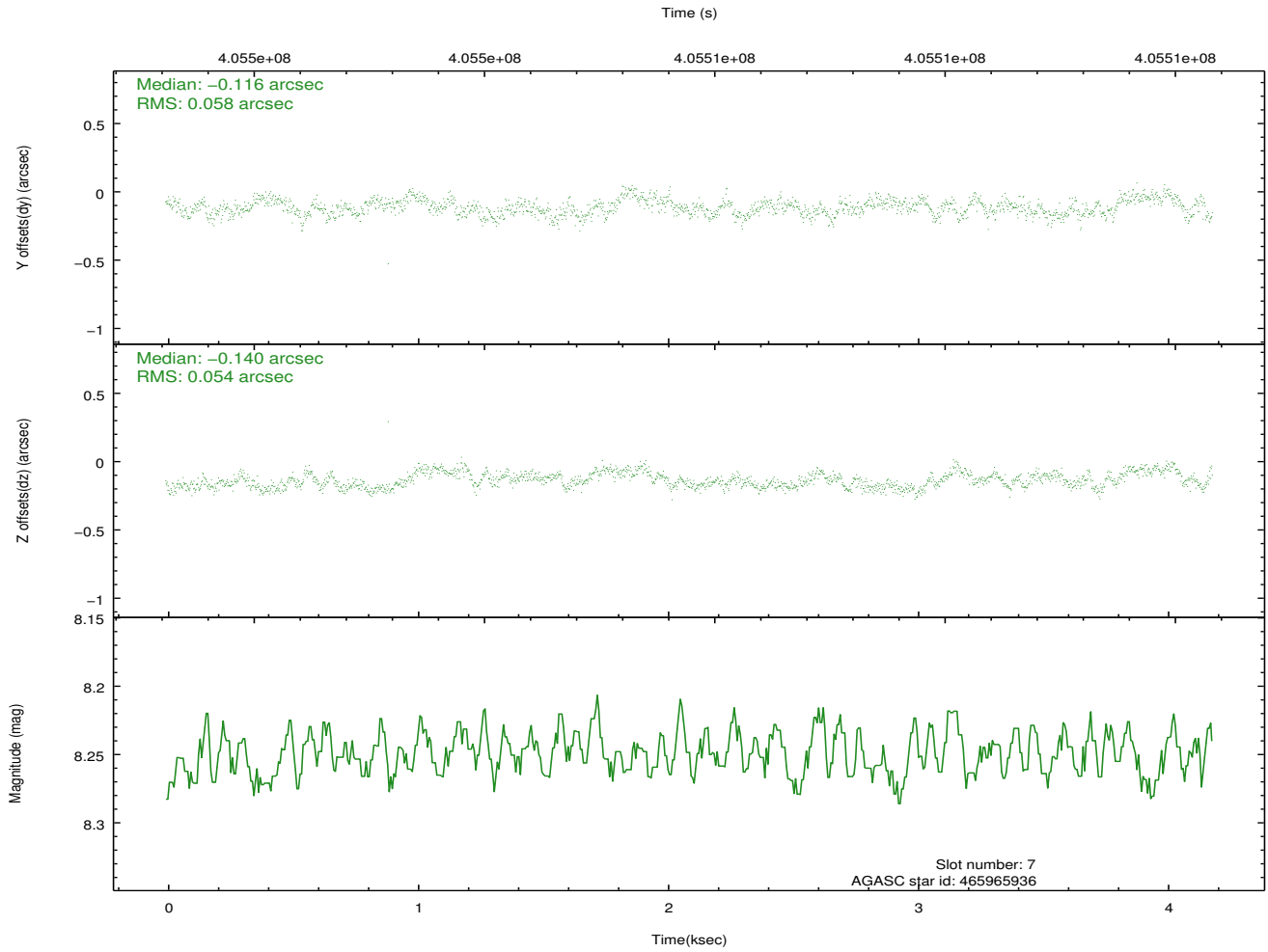
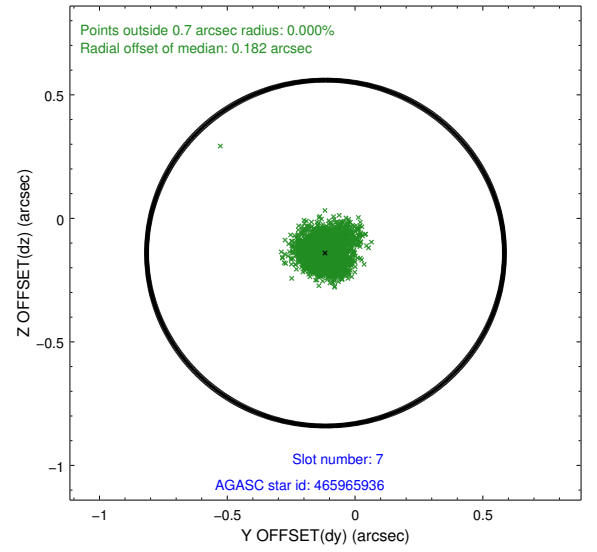
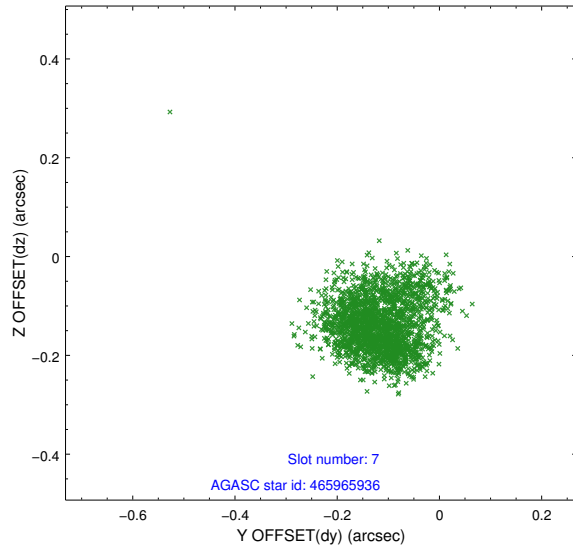


## 2.4.4 Slot 6



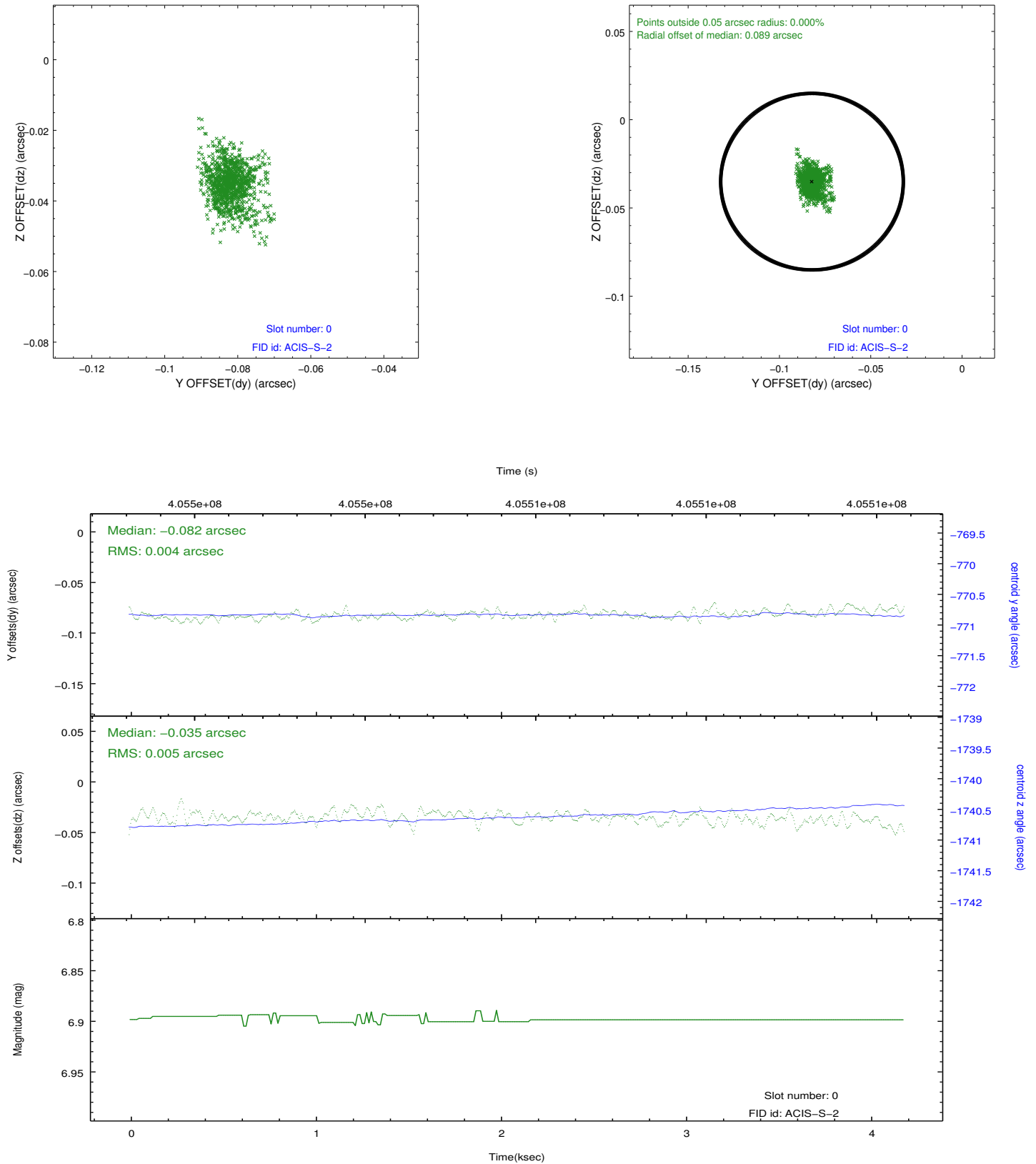


## 2.4.5 Slot 7

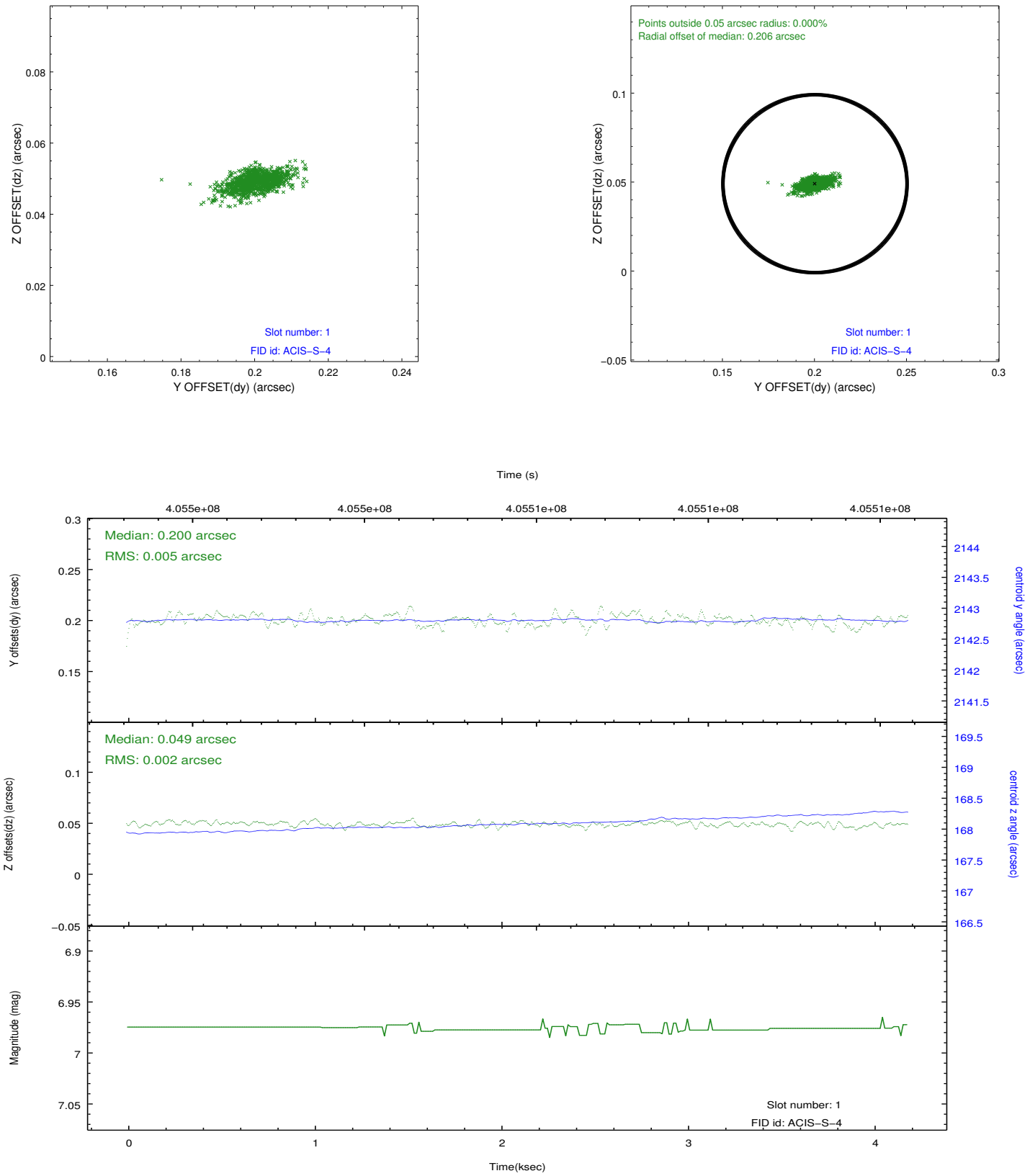


## 2.5 FID Slots

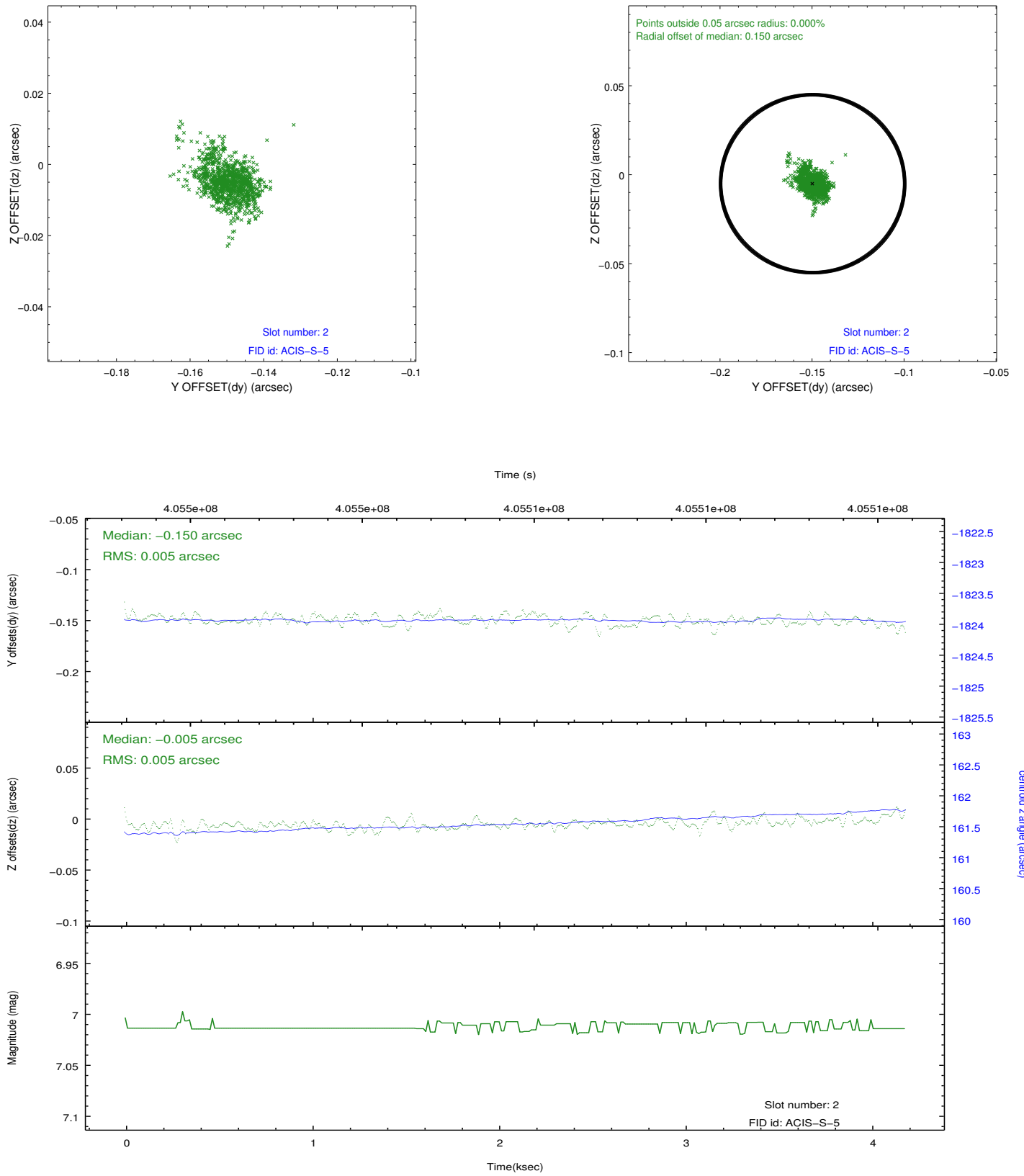
### 2.5.1 Slot 0



## 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)	2012.07.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.7553479610682

### **A.2 Comments**