

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 682 - L2 Version 5  
Chandra X-Ray Center

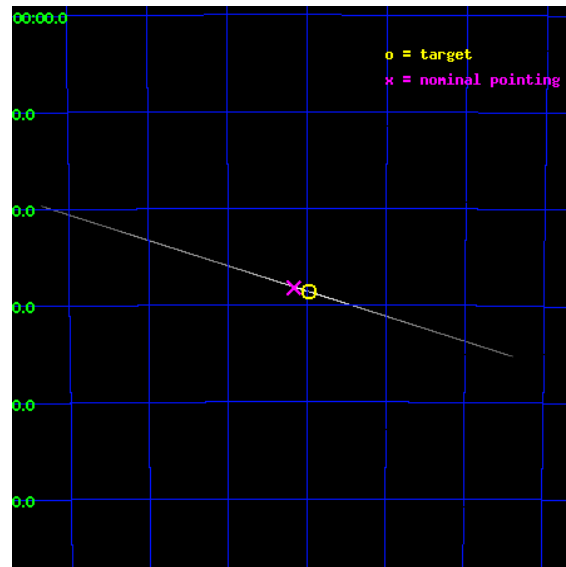
L2 Processing Date : Aug 26 2012

## 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	Parameters . . . . .	4
2.1.3	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

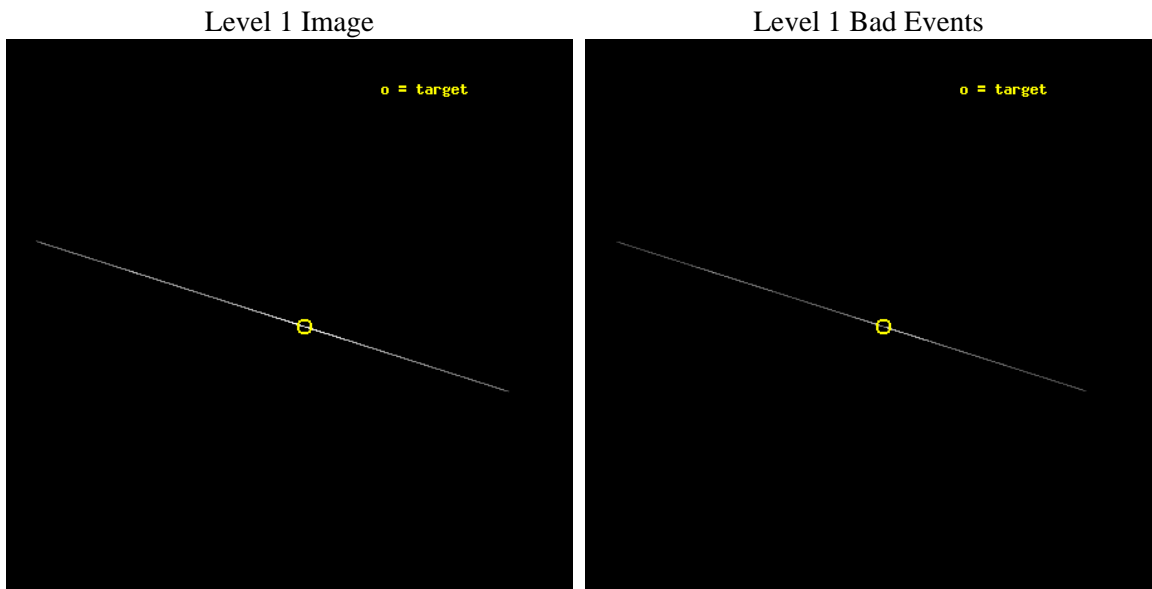
seq_num	400049	Sequence number
obs_id	682	Observation id
title	AXAF OBSERVATIONS OF A BRIGHT BLACK HOLE X-RAY BINARY IN OUTBURST	&#160
observer	Prof. Walter Lewin	Principal investigator
object	XTE J1550-564 (OUTBURST RISE)	Source name
ra_targ	237.745417	Observer's specified target RA [deg]
dec_targ	-56.476472	Observer's specified target Dec [deg]
ra_nom	237.79125164537	Nominal RA [deg]
dec_nom	-56.470354585153	Nominal Dec [deg]
roll_nom	17.444413076152	Nominal Roll [deg]
revision	5	Processing version of data
ontime	2512.0	Sum of GTIs [s]
livetime	2502.1875	Livetime [s]
ontime4	2512.0	Sum of GTIs [s]
ontime5	2512.0	Sum of GTIs [s]
ontime6	2512.0	Sum of GTIs [s]
ontime7	2512.0	Sum of GTIs [s]
ontime8	2512.0	Sum of GTIs [s]
ontime9	2512.0	Sum of GTIs [s]
l2events	296472	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2512.0	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime4	2512.0	Sum of GTIs [s]
date	2012-08-26T21:48:57	Date and time of file creation	ontime5	2512.0	Sum of GTIs [s]
revision	5	Processing version of data	ontime6	2512.0	Sum of GTIs [s]
			ontime7	2512.0	Sum of GTIs [s]
			ontime8	2512.0	Sum of GTIs [s]
			ontime9	2512.0	Sum of GTIs [s]
			l1events	362049	Number of level 1 events

### 2.1.3 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	5547	22572	32074	272615	23431	5810
rejected events	1337	4769	2783	33739	4370	1582
rejected %	24%	21%	8%	12%	18%	27%

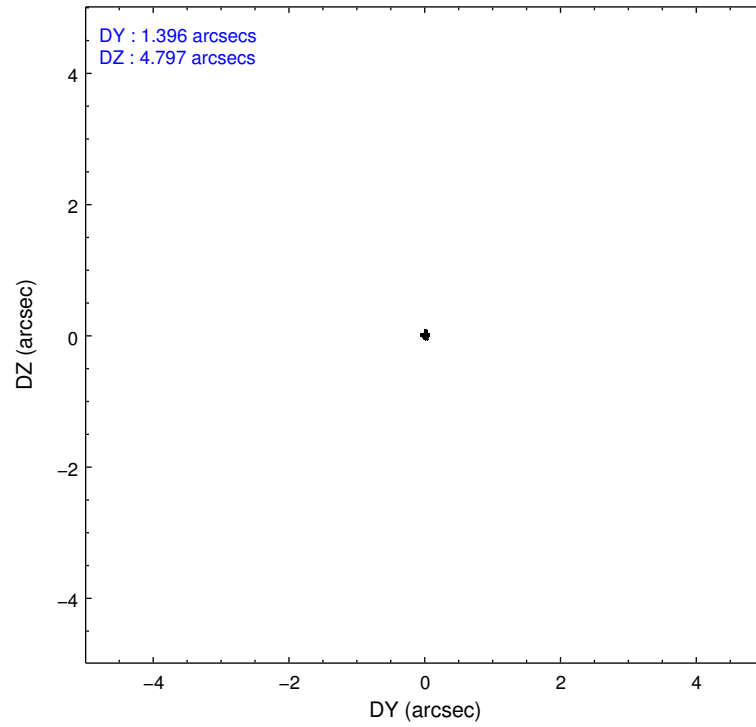
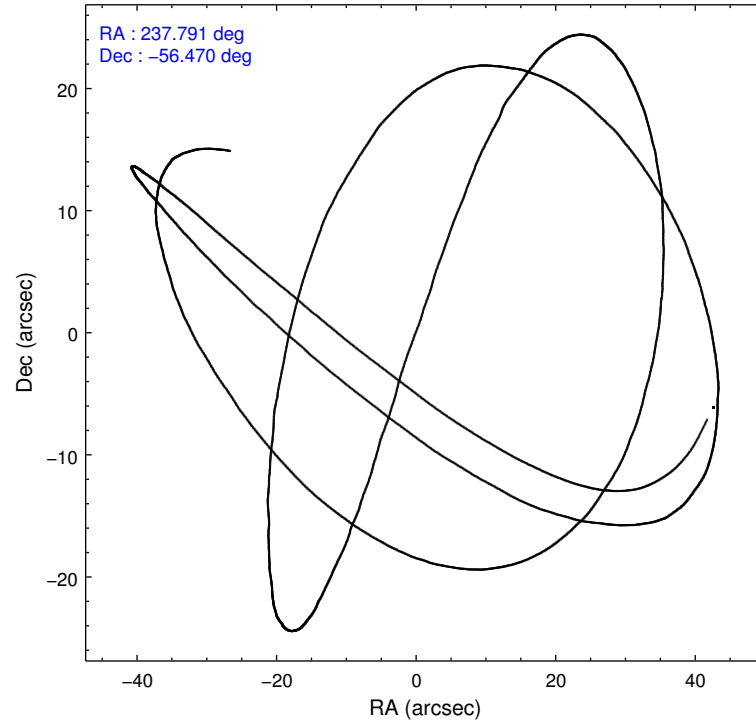
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	618	4753	2857	51517	3846	660
	11%	21%	8%	18%	16%	11%
grade 1 events	10	13	15	422	24	14
	0%	0%	0%	0%	0%	0%
grade 2 events	2321	6372	24596	89336	13602	2377
	41%	28%	76%	32%	58%	40%
grade 3 events	587	615	657	23590	1111	511
	10%	2%	2%	8%	4%	8%
grade 4 events	613	607	689	23248	1092	580
	11%	2%	2%	8%	4%	9%
grade 5 events	605	1512	783	5386	1062	734
	10%	6%	2%	1%	4%	12%
grade 6 events	793	8700	2477	79116	2694	934
	14%	38%	7%	29%	11%	16%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

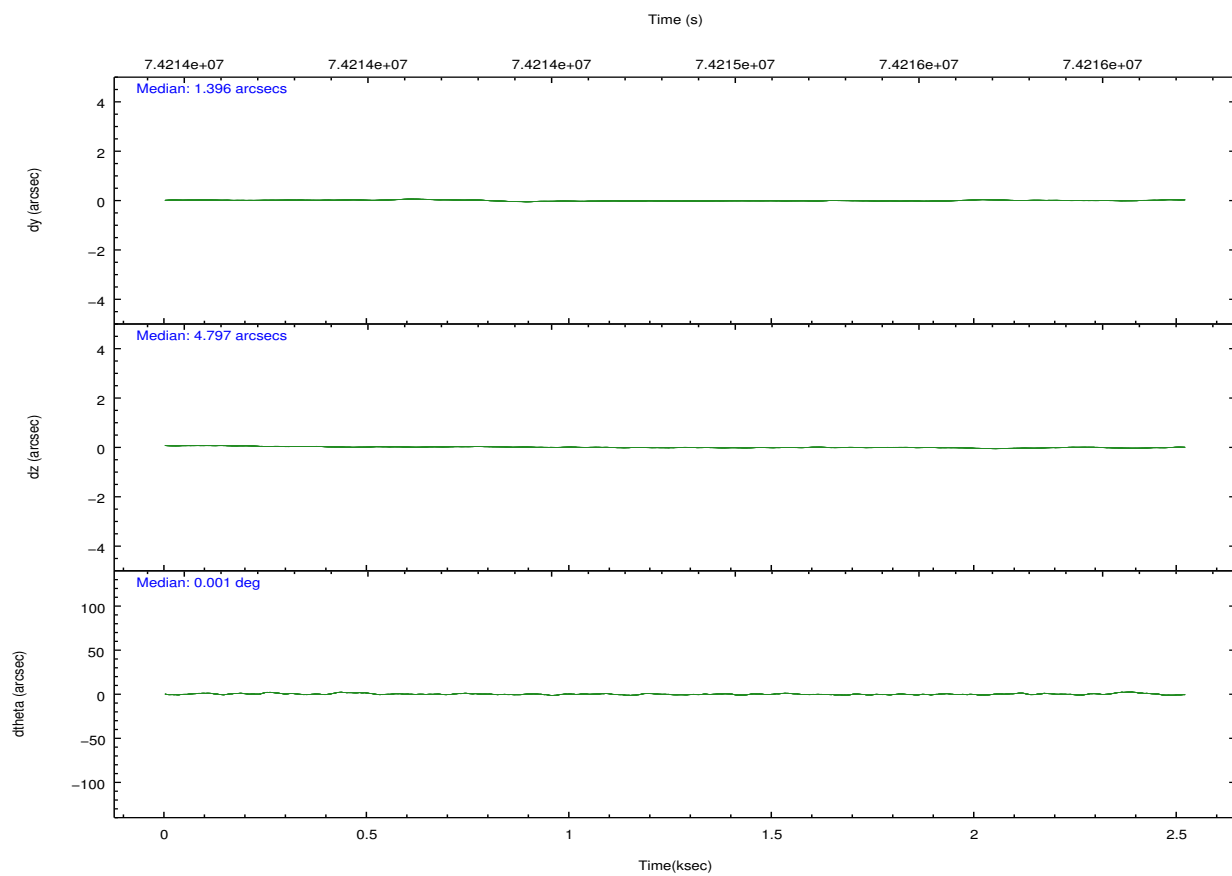
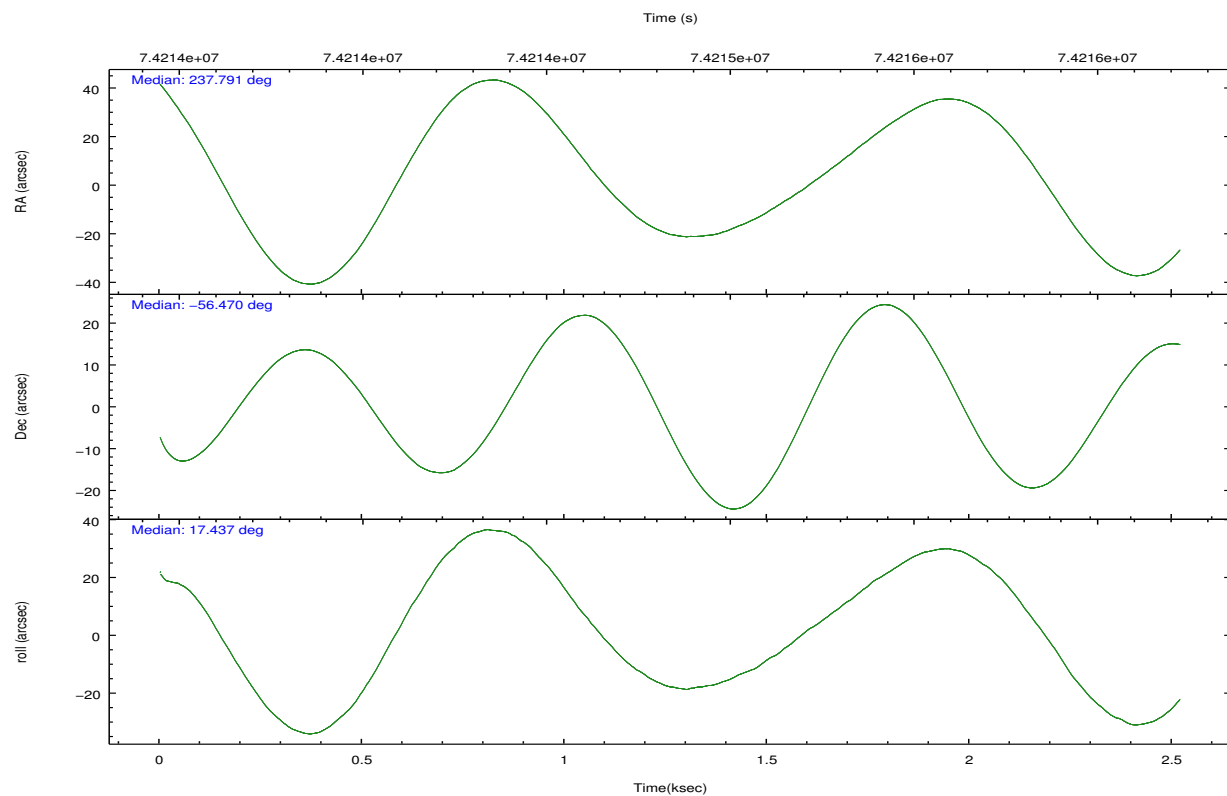
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	CC33_GRADED	CC33_GRADED
Observation mode	POINTING	POINTING
[deg] Pointing RA	237.758742	237.7912516453719
[deg] Pointing Dec	-56.490591	-56.47035458515297
[deg] Pointing Roll	17.260711	17.44441307615181
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-200.132523	-200.1369836888744
[mm] SIM translation stage offset	10	10.00446110586662
[s] Observation start time (MET)	74214097.184000	74212960.658553
Observation start date	2000-05-08T23:00:33	2000-05-08T22:42:40
[s] Observation end time (MET)	74216097.184000	74216501.008683
Observation end date	2000-05-08T23:33:53	2000-05-08T23:41:41
Read mode	CONTINUOUS	CONTINUOUS

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0

## 2.3 Aspect





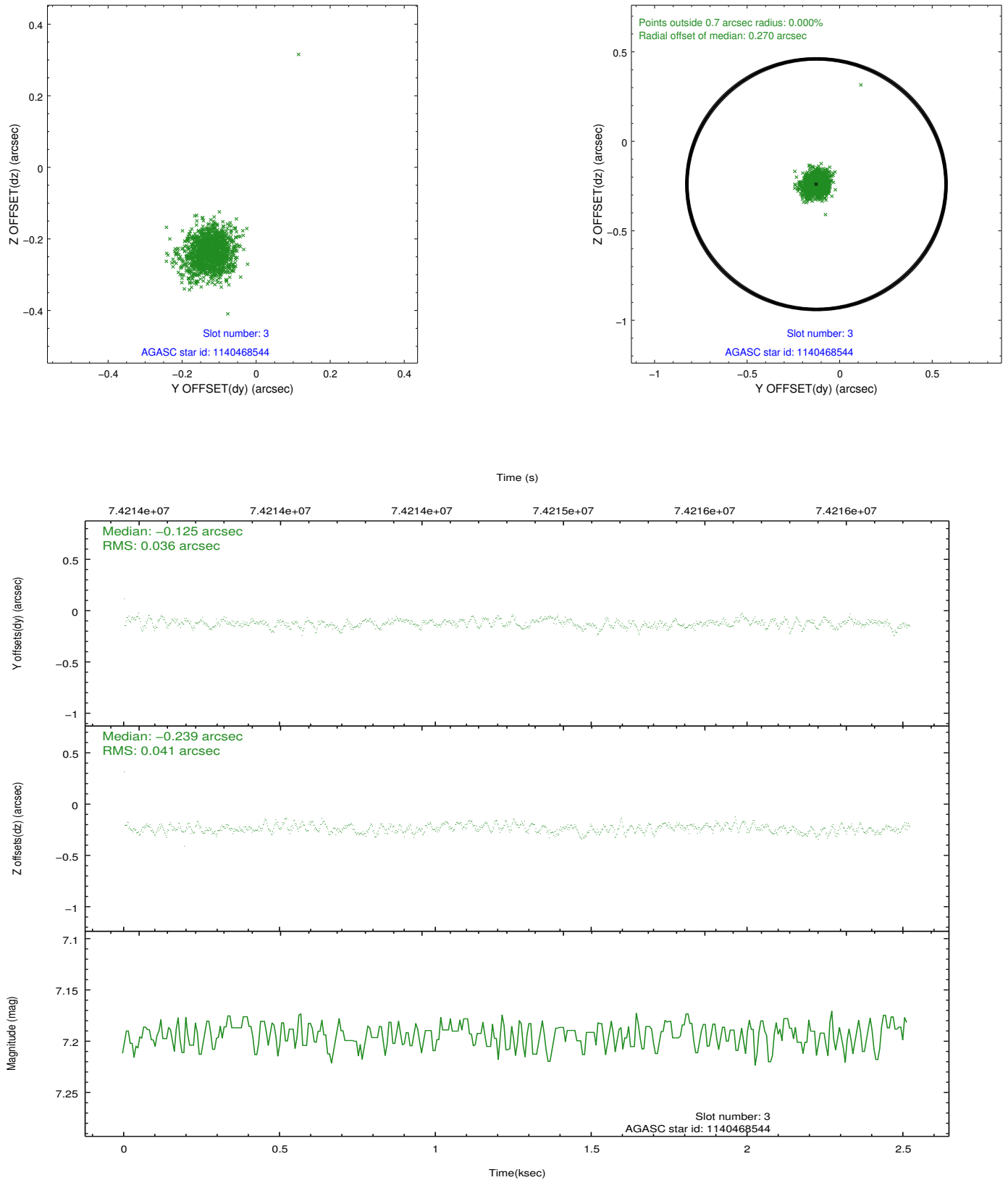
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.14	615	0.121	0.152	0.009	0.034	0.000000	0.000000	-754.61	-1519.46
1	FID	ACIS-S-4	7.23	615	-0.075	-0.099	0.008	0.015	0.000000	0.000000	2157.48	386.22
2	FID	ACIS-S-5	7.23	615	-0.076	-0.044	0.011	0.042	0.000000	0.000000	-1804.18	383.22
3	GUIDE	1140468544	7.19	1230	-0.125	-0.239	0.055	0.091	237.524626	-55.920475	158.97	2097.90
4	GUIDE	1140999968	7.95	1230	0.047	-0.065	0.052	0.086	238.471952	-56.275988	1590.04	308.35
5	GUIDE	1141004216	8.14	1230	0.010	-0.011	0.060	0.096	237.245988	-56.471011	-951.05	365.10
6	GUIDE	1140989920	8.89	1230	-0.019	0.234	0.082	0.131	237.647305	-57.151120	-912.39	-2207.26
7	GUIDE	1141004616	9.66	1228	0.095	0.078	0.098	0.156	238.066818	-56.808784	240.60	-1278.29

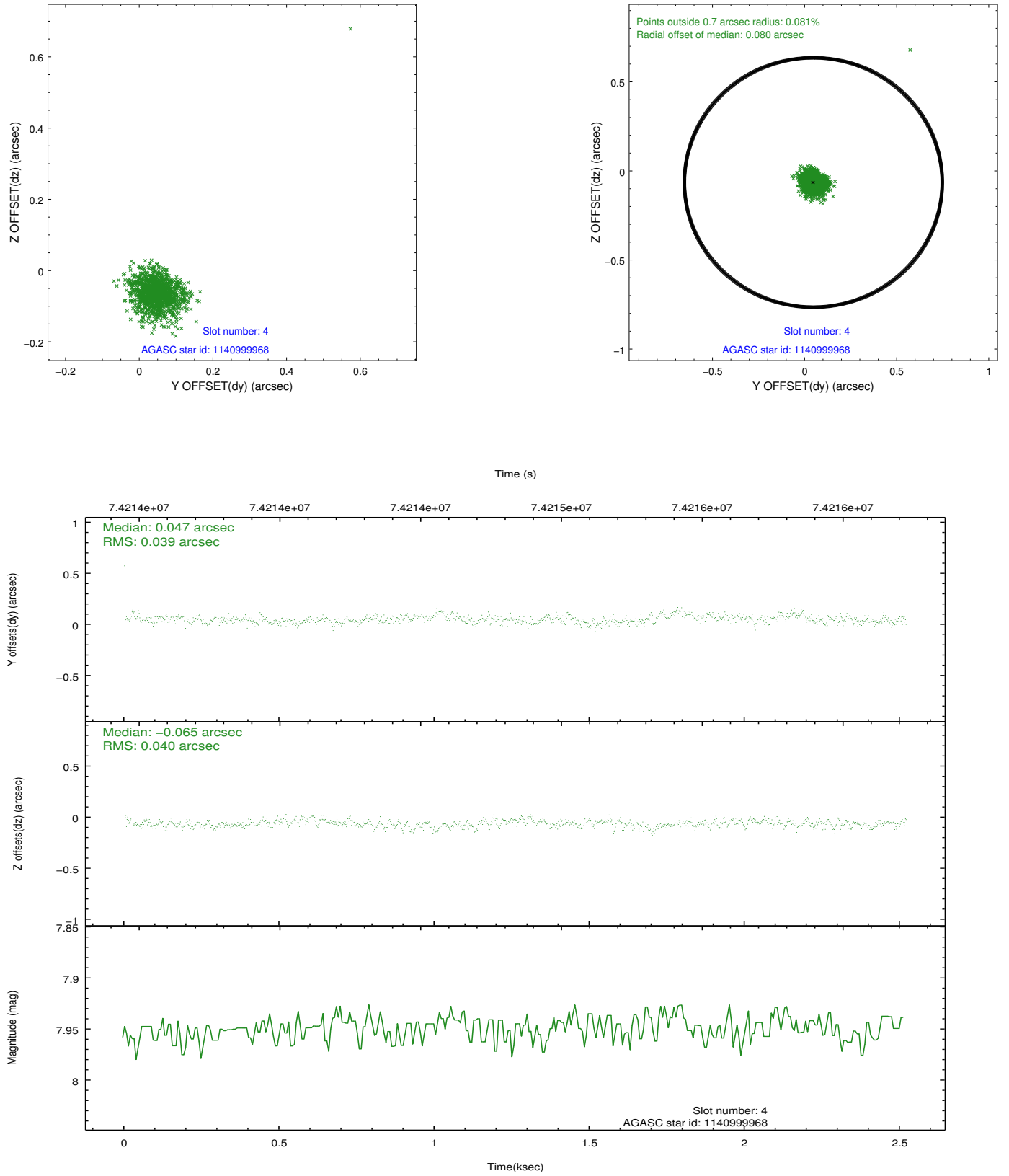


## 2.4 Star Slots

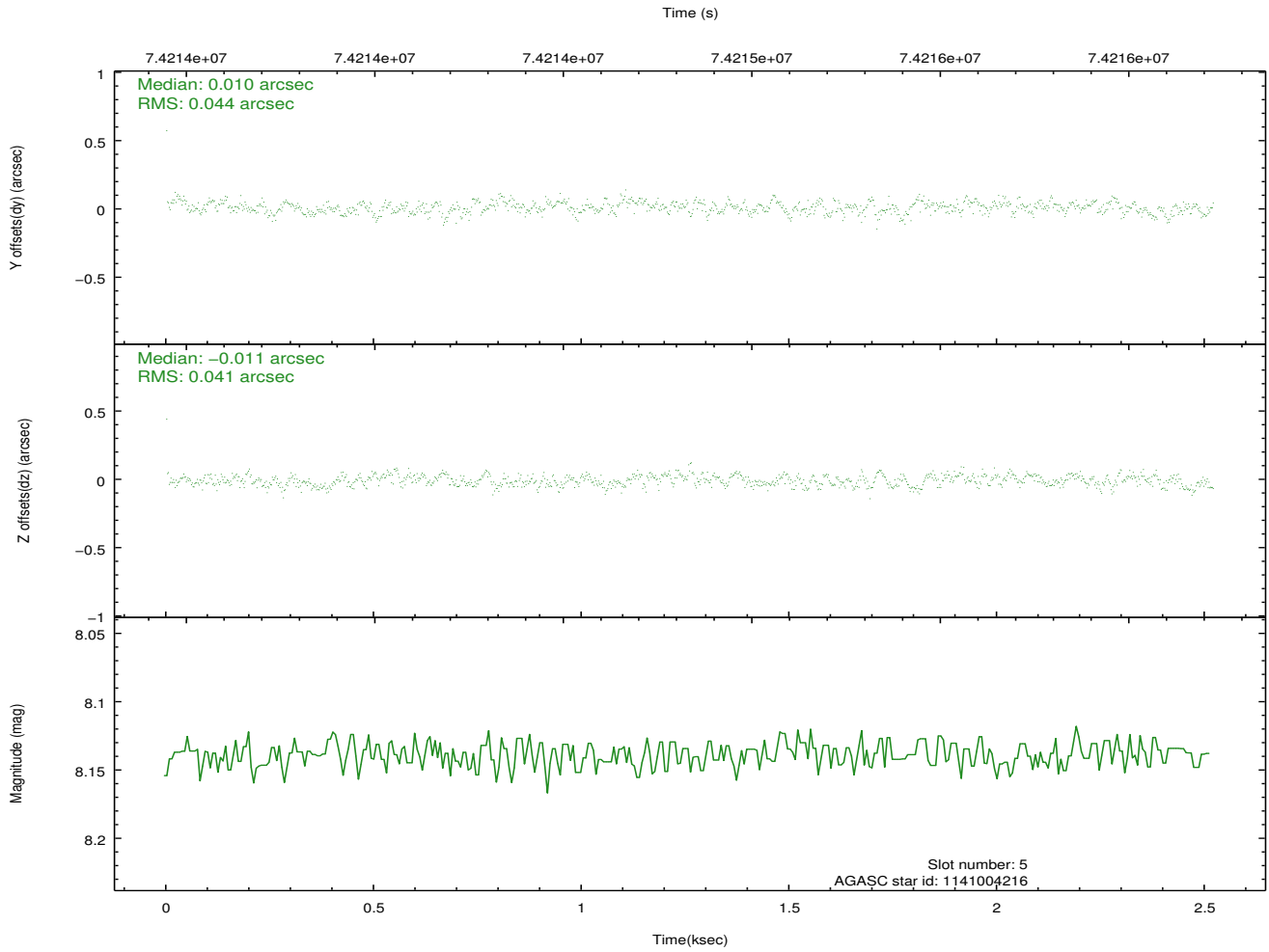
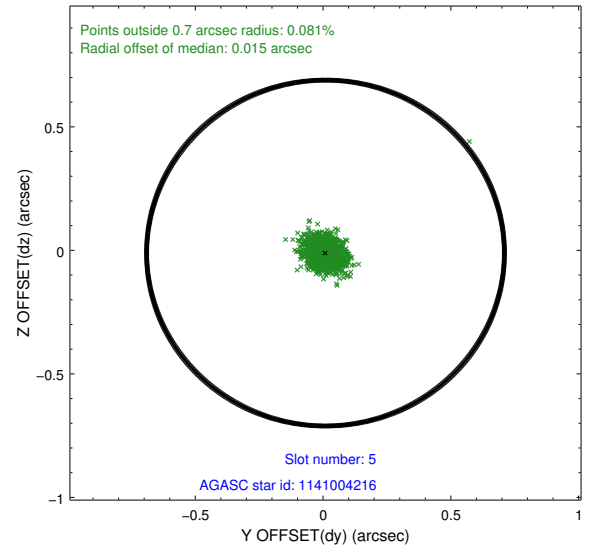
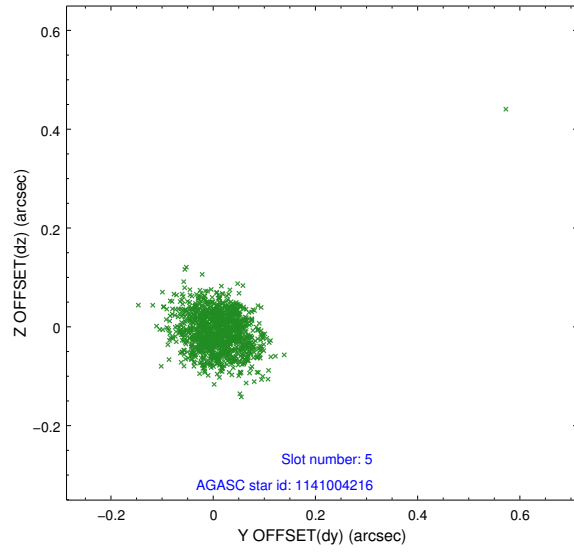
### 2.4.1 Slot 3



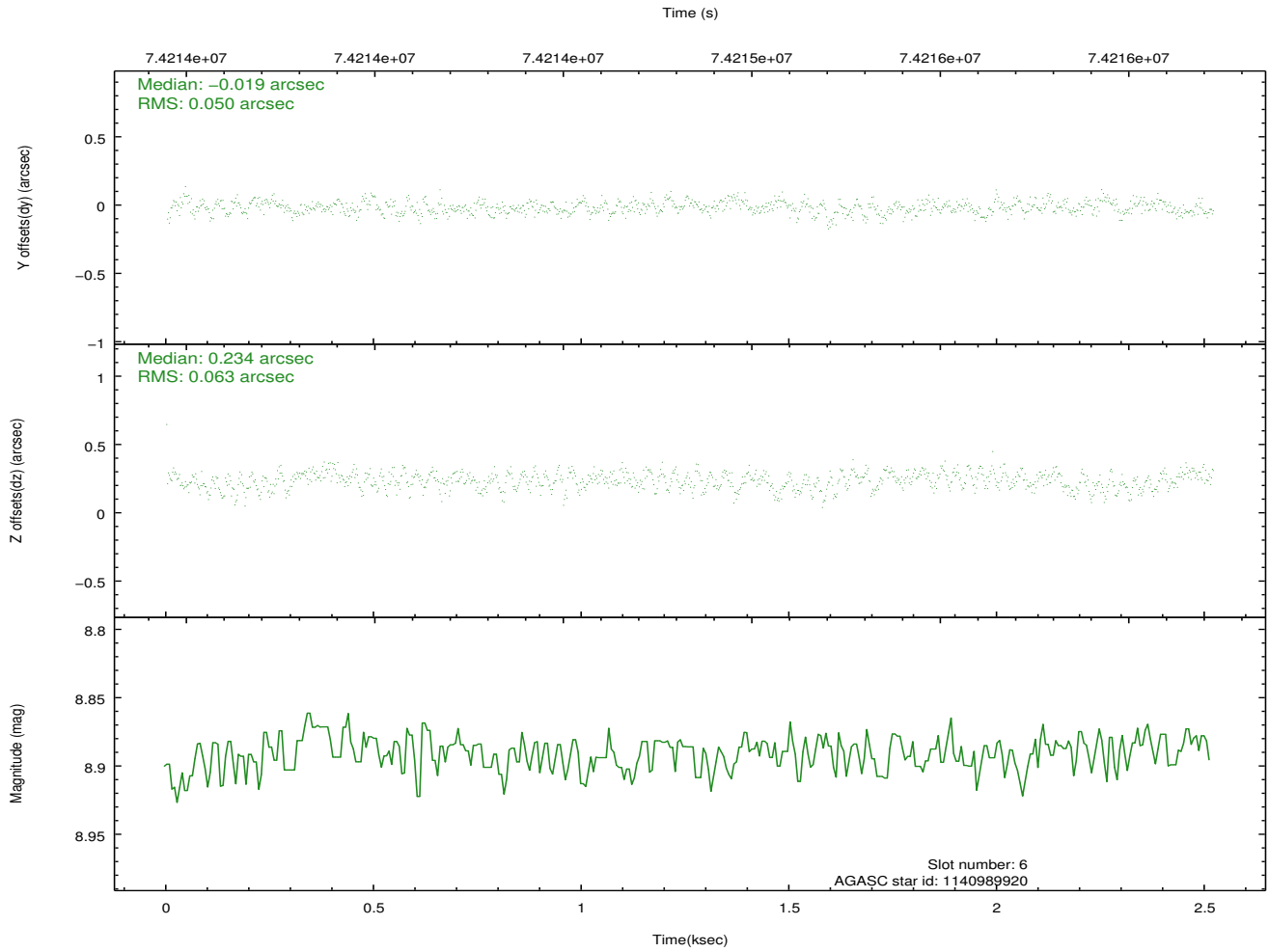
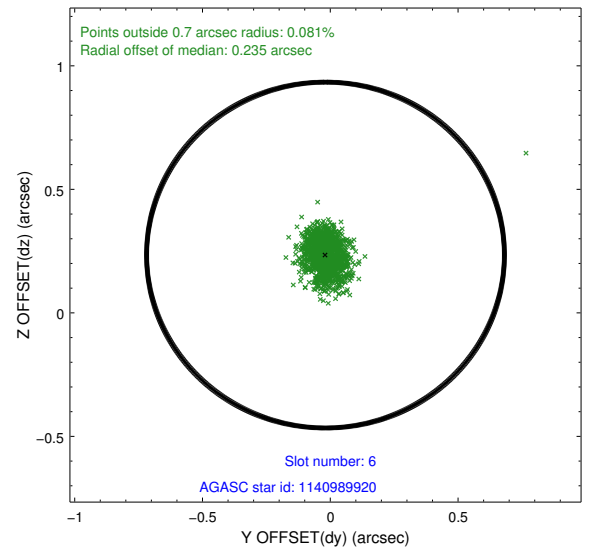
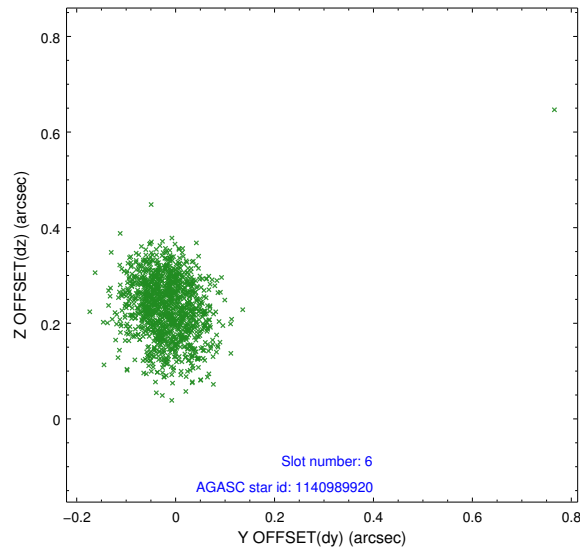
## 2.4.2 Slot 4



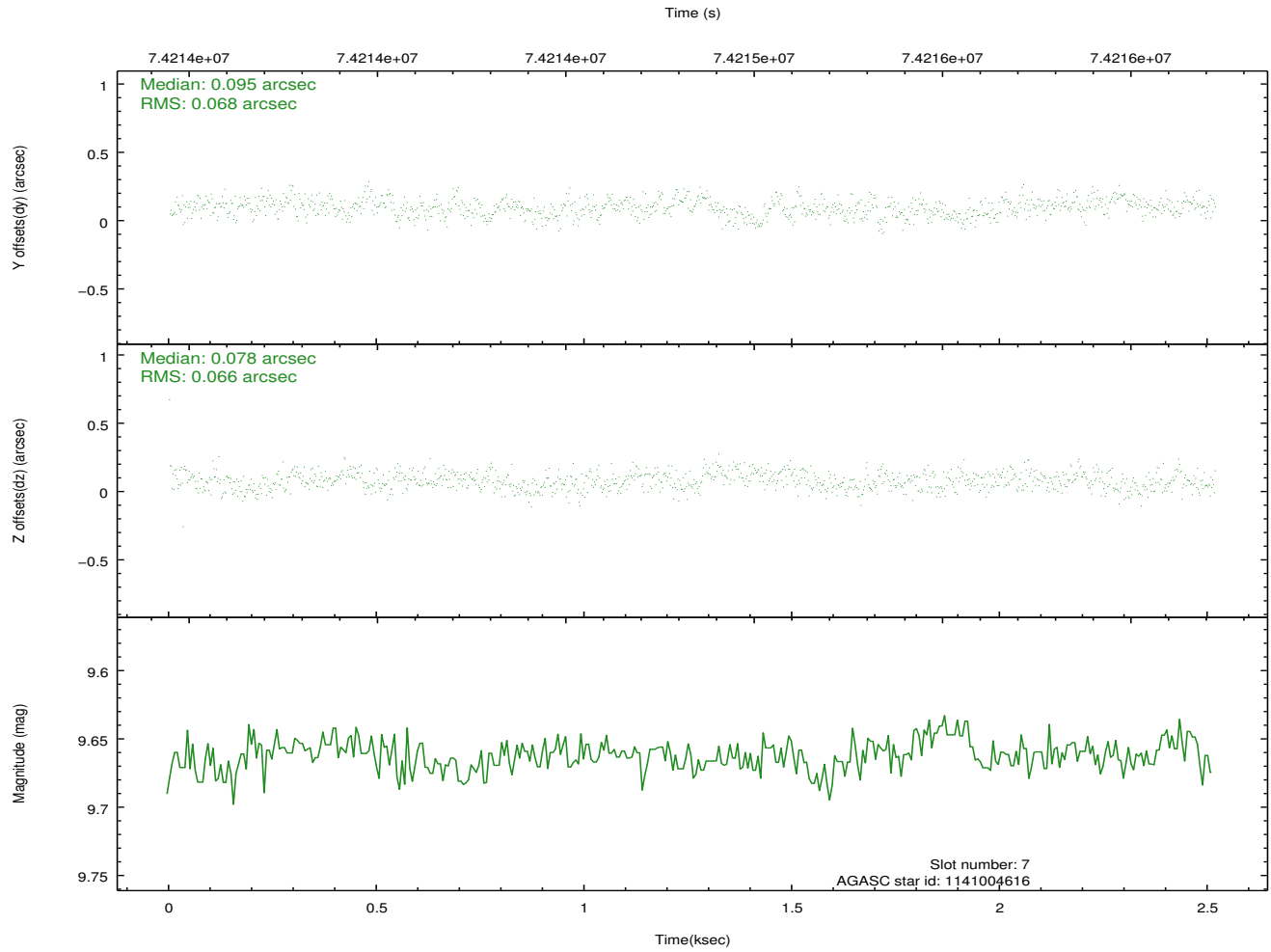
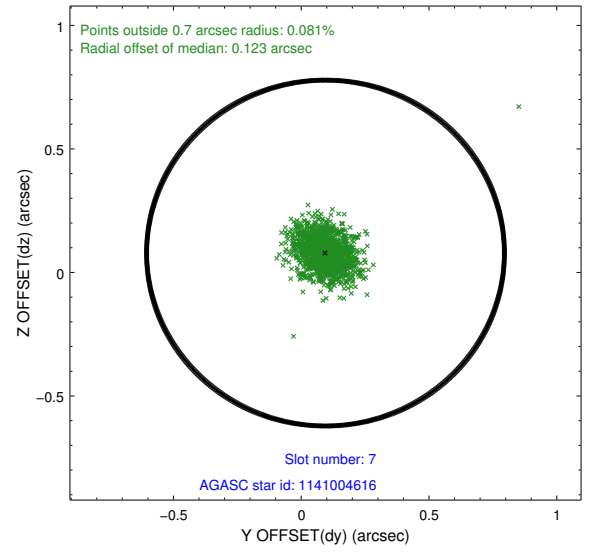
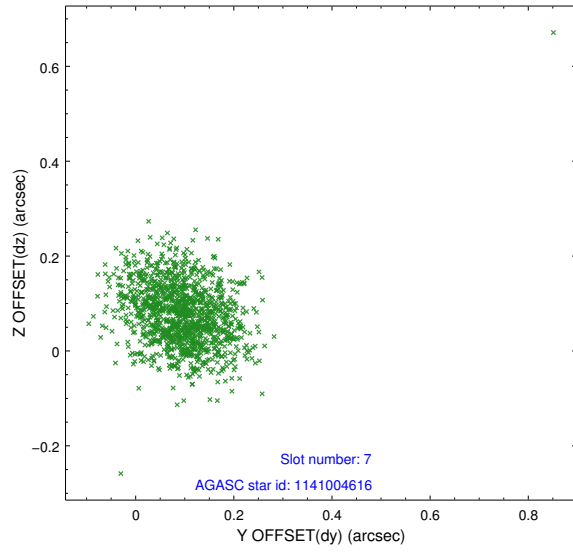
### 2.4.3 Slot 5



## 2.4.4 Slot 6

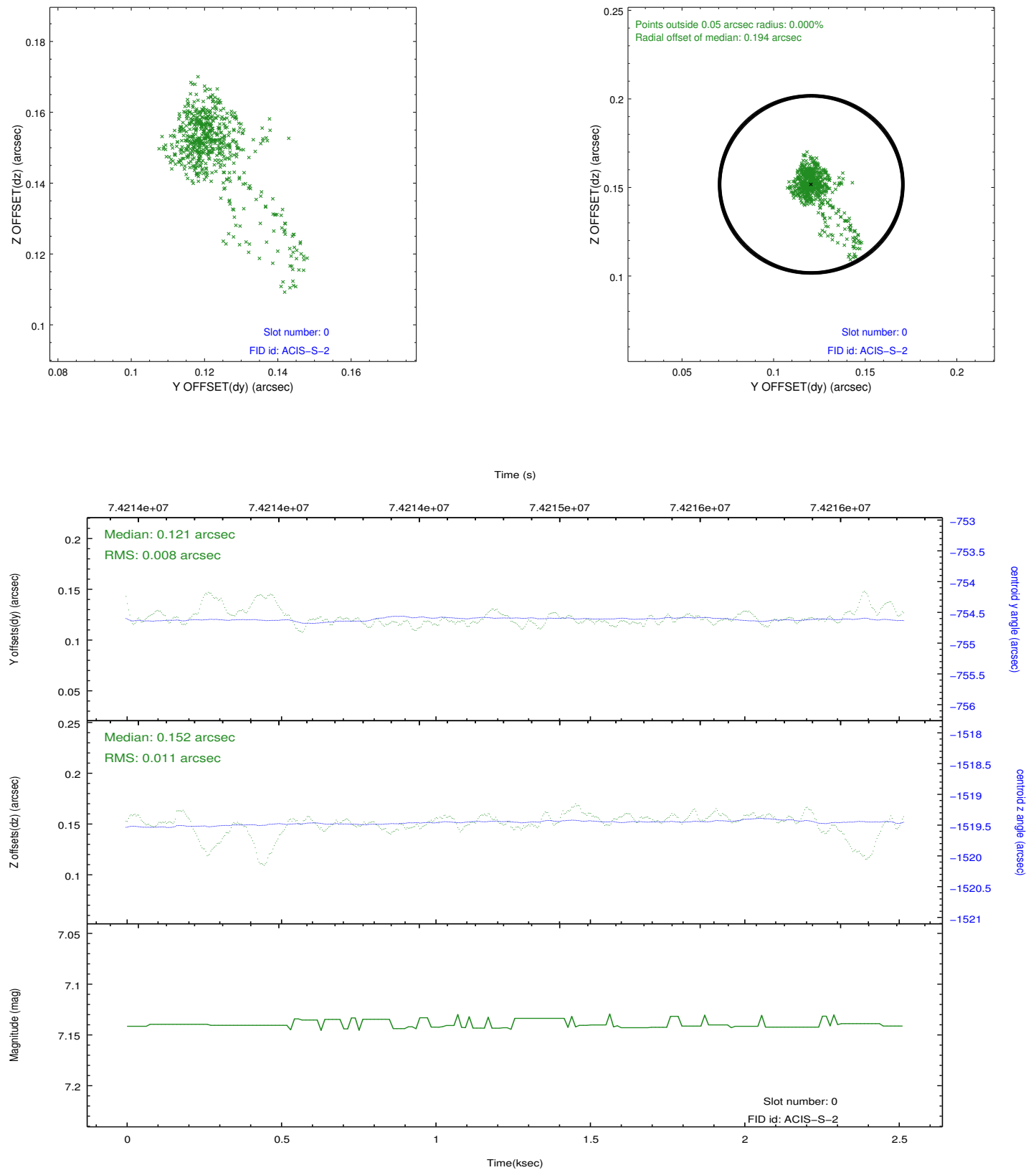


## 2.4.5 Slot 7

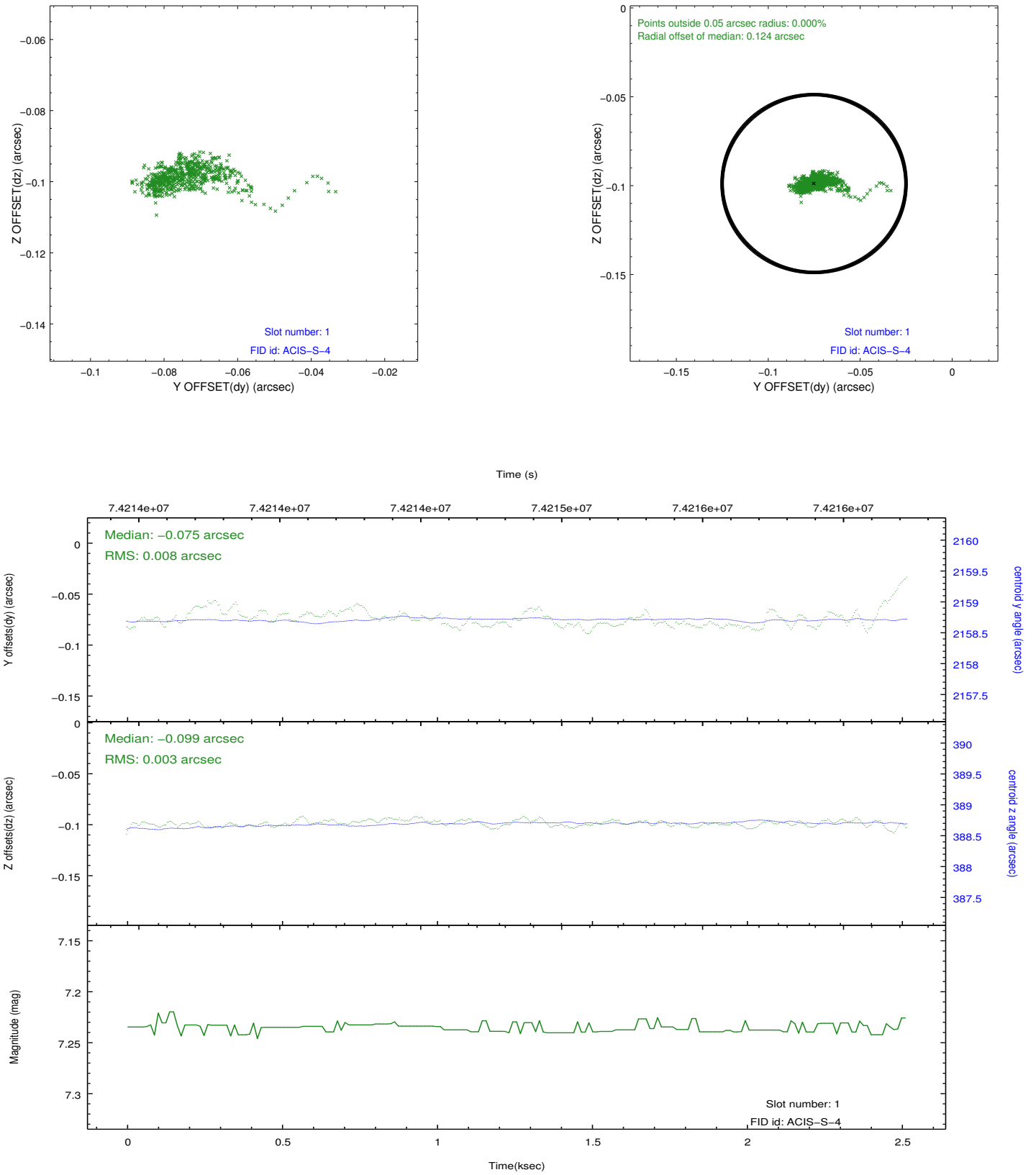


## 2.5 FID Slots

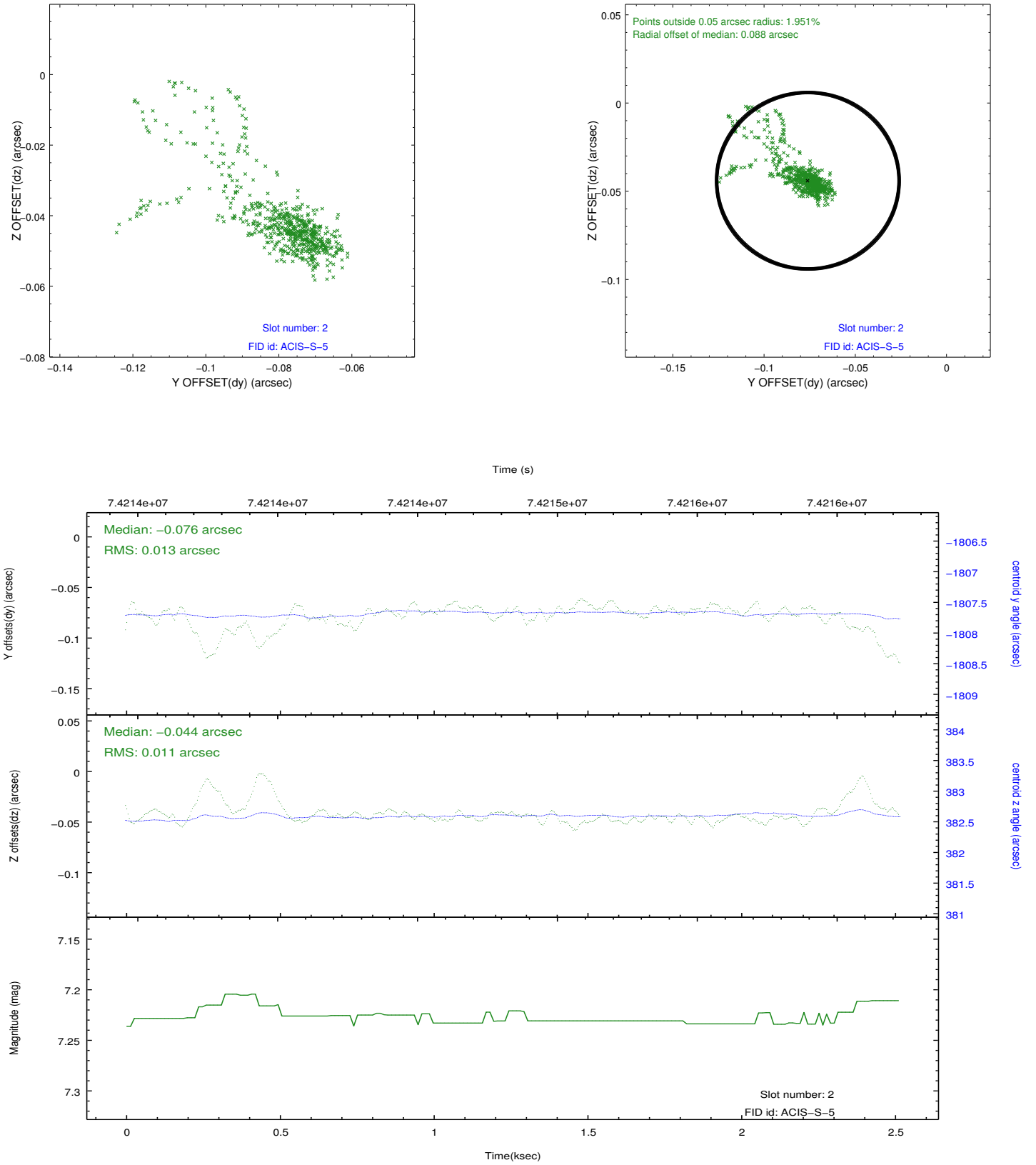
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.516

## A.2 Comments

Charge time: Charge time for this ObsId remains at previous value of 2.516 ks. NOTE: grating not inserted due to operational error. The target was excluded with a spatial filter. This observation contains no science data. This might be useful for cc-mode background.