

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3028 - L2 Version 3  
Chandra X-Ray Center

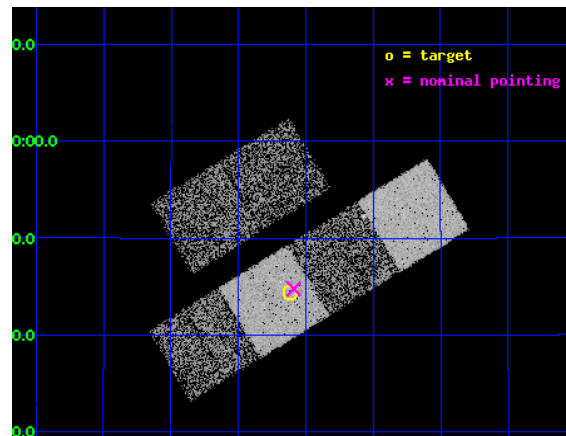
L2 Processing Date : Oct 13 2012

## 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

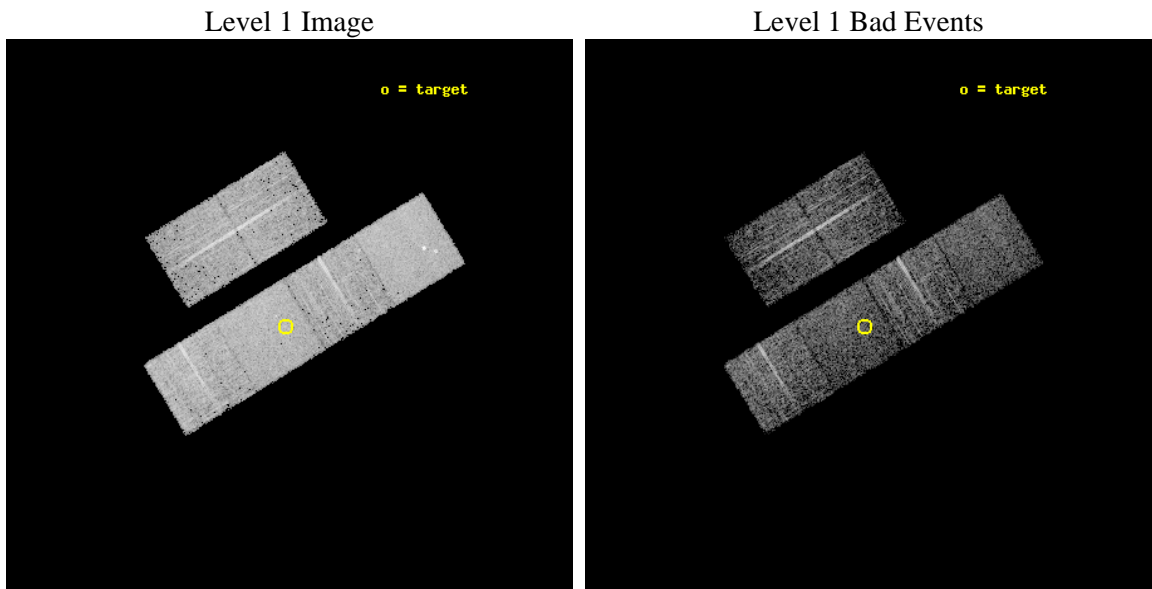
seq_num	700467	Sequence number
obs_id	3028	Observation id
title	A SYSTEMATIC X-RAY SURVEY OF SUBMILLIMETRE-LUMINOUS QUASARS	Propos
observer	Dr Robert Priddey	Principal investigator
object	PSS2322+1944	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.529875	Observer's specified target RA [deg]
dec_targ	19.73975	Observer's specified target Dec [deg]
ra_nom	350.52212274875	Nominal RA [deg]
dec_nom	19.746094482643	Nominal Dec [deg]
roll_nom	148.58392223391	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4959.9999815226	Sum of GTIs [s]
livetime	4897.1934752031	Livetime [s]
ontime2	4959.9999815226	Sum of GTIs [s]
ontime3	4959.9999815226	Sum of GTIs [s]
ontime5	4959.9999815226	Sum of GTIs [s]
ontime6	4959.9999815226	Sum of GTIs [s]
ontime7	4959.9999815226	Sum of GTIs [s]
ontime8	4959.9999815226	Sum of GTIs [s]
l2events	47169	Number of level 2 events



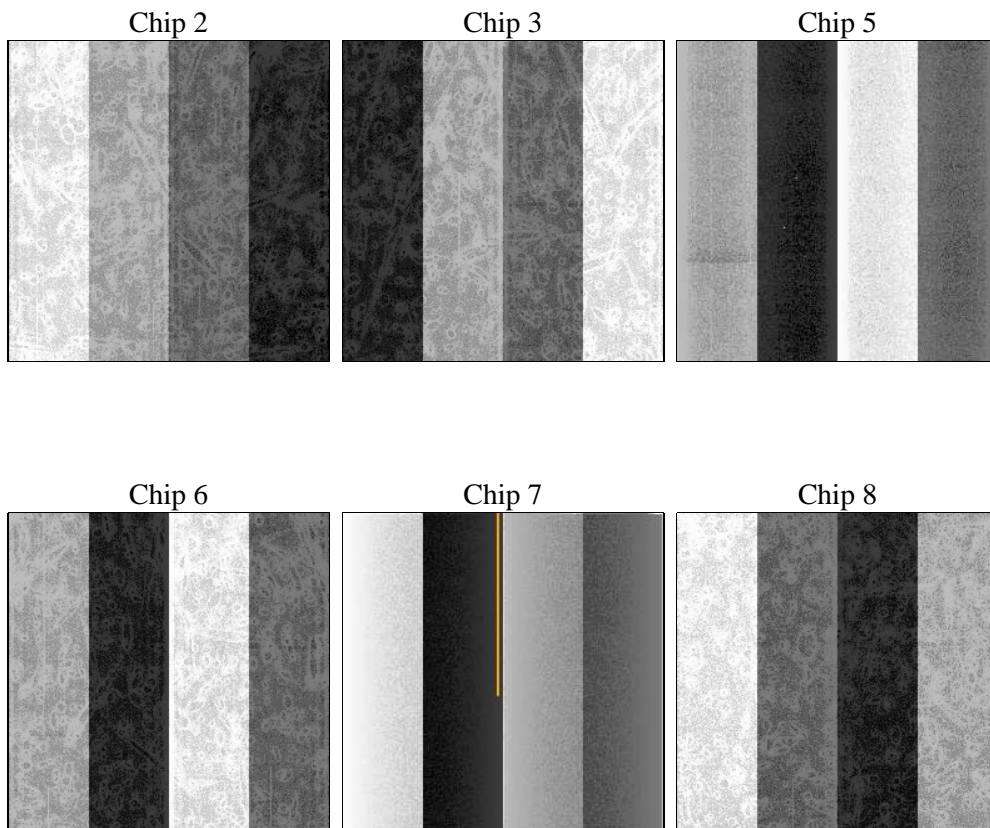
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4959.9999815226	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	4959.9999815226	Sum of GTIs [s]
date	2012-10-14T00:40:26	Date and time of file creation	ontime3	4959.9999815226	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4959.9999815226	Sum of GTIs [s]
			ontime6	4959.9999815226	Sum of GTIs [s]
			ontime7	4959.9999815226	Sum of GTIs [s]
			ontime8	4959.9999815226	Sum of GTIs [s]
			l1events	214096	Number of level 1 events

### 2.1.4 Events

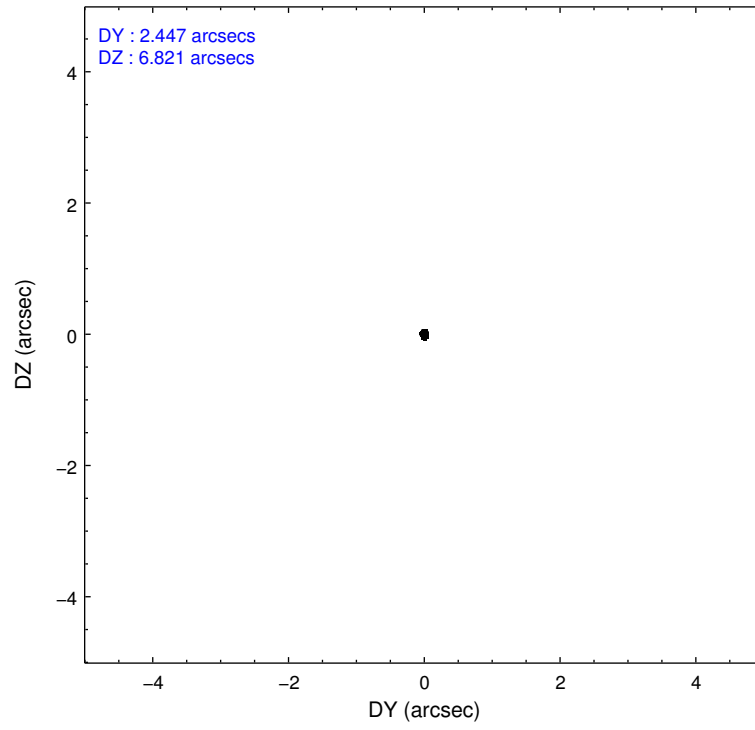
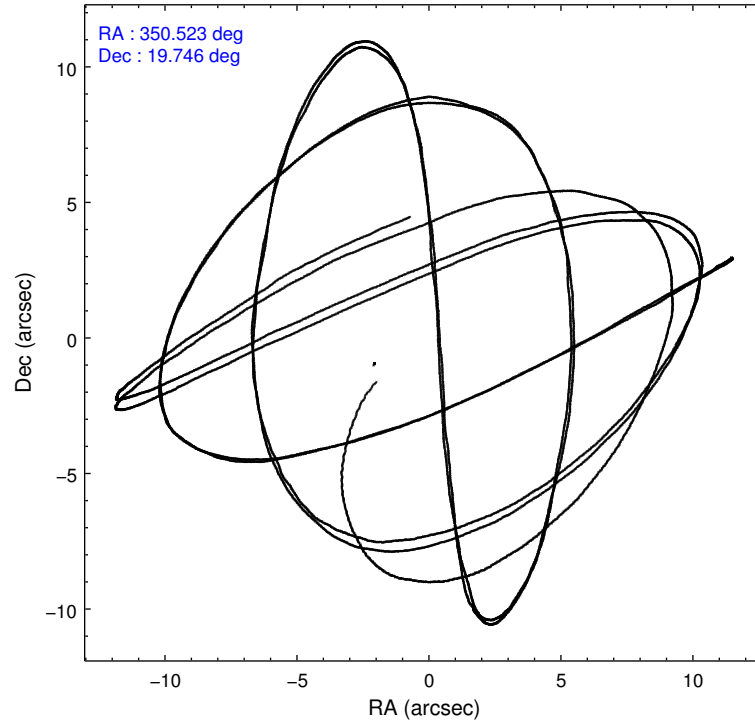
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	30712	29439	42380	32389	39043	40133	grade 0 events	1657	1568	2071	1721	1616	3017
rejected events	27116	25888	23132	28476	22656	31014		5%	5%	4%	5%	4%	7%
rejected %	88%	87%	54%	87%	58%	77%	grade 1 events	11	13	56	10	44	24
								0%	0%	0%	0%	0%	0%
							grade 2 events	674	647	5553	804	3211	1910
								2%	2%	13%	2%	8%	4%
							grade 3 events	345	366	706	317	1467	1038
								1%	1%	1%	0%	3%	2%
							grade 4 events	319	326	671	340	1453	928
								1%	1%	1%	1%	3%	2%
							grade 5 events	1110	1211	2922	1263	3538	1755
								3%	4%	6%	3%	9%	4%
							grade 6 events	607	645	10261	735	8656	2227
								1%	2%	24%	2%	22%	5%
							grade 7 events	25989	24663	20140	27199	19058	29234
								84%	83%	47%	83%	48%	72%

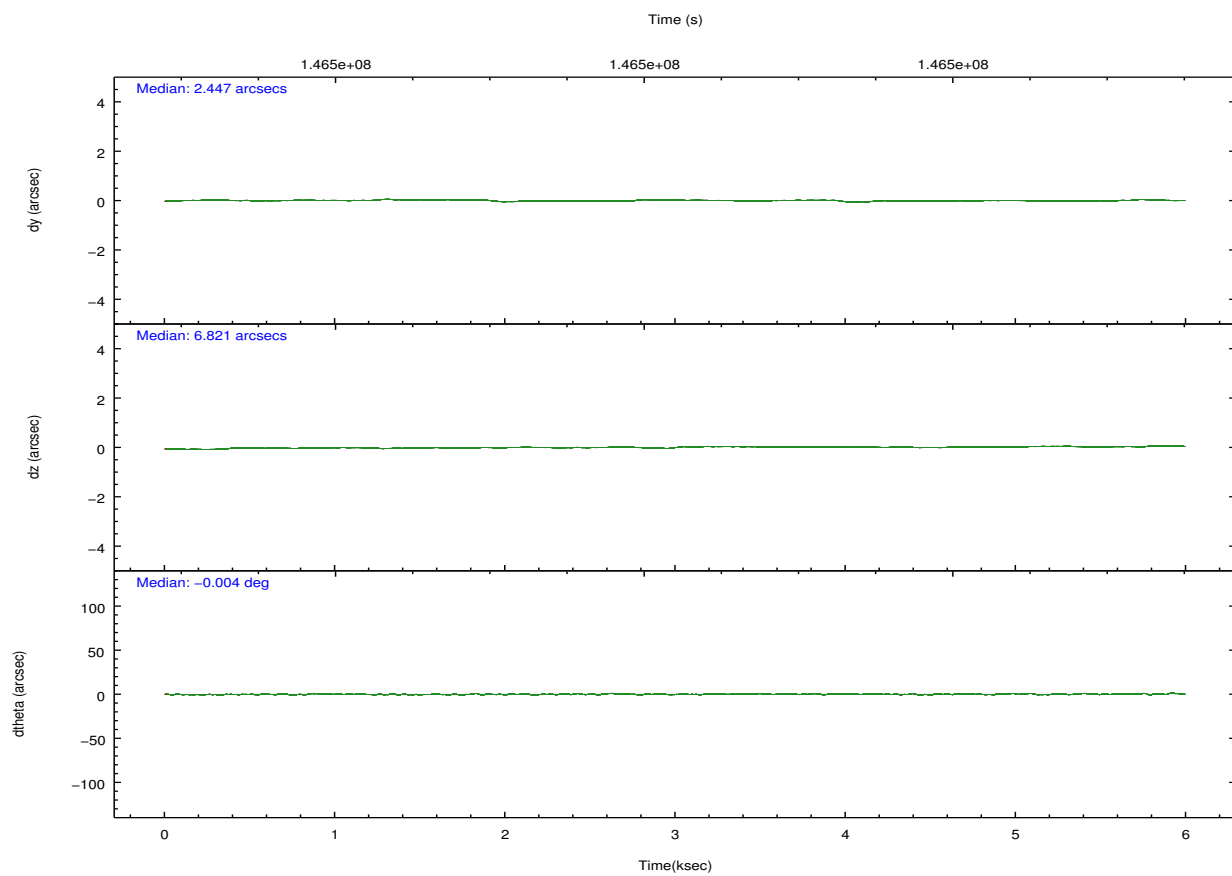
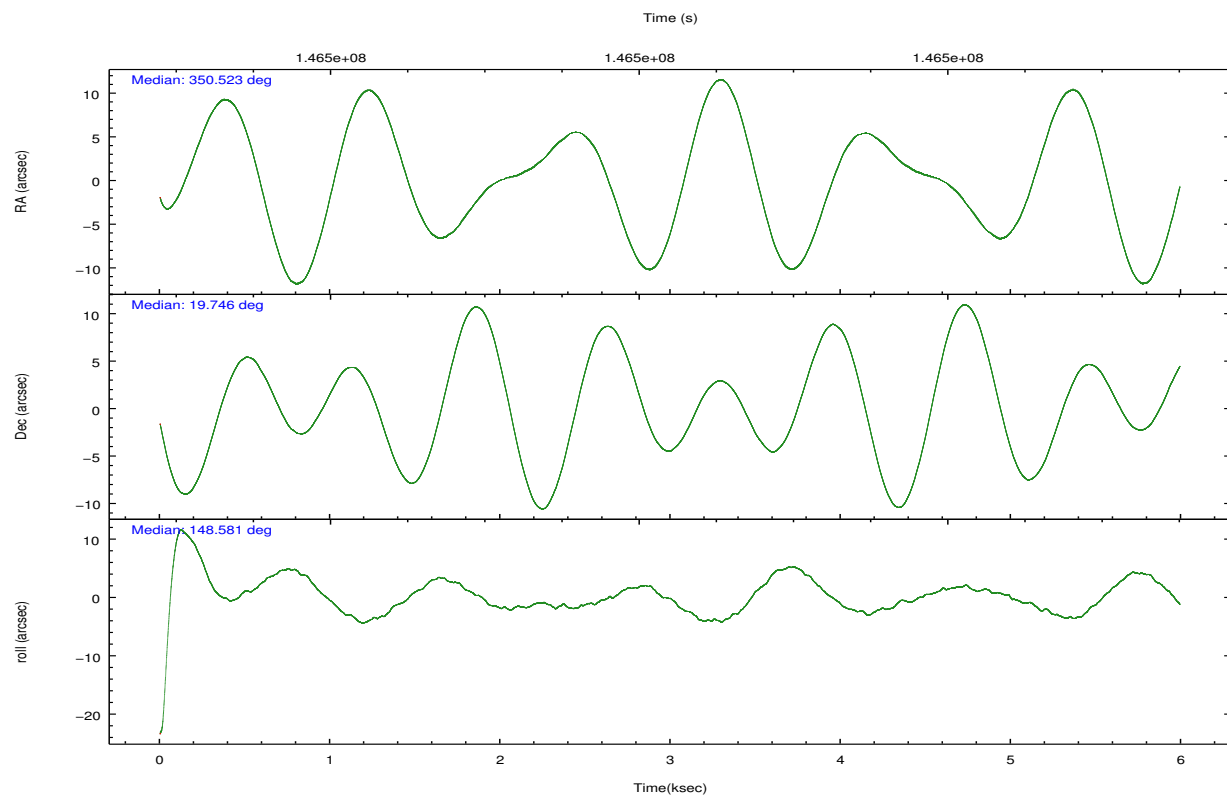


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	350.551105	350.5221227487451	Subarray requested	NONE	NONE
[deg] Pointing Dec	19.745853	19.74609448264304	Alternating exposures requested	N	N
[deg] Pointing Roll	148.417573	148.5839222339139	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	146496196.184000	146494839.06171			
Observation start date	2002-08-23T13:22:12	2002-08-23T13:00:39			
[s] Observation end time (MET)	146501196.184000	146501707.58699			
Observation end date	2002-08-23T14:45:32	2002-08-23T14:55:07			
Read mode	TIMED	TIMED			

## 2.3 Aspect



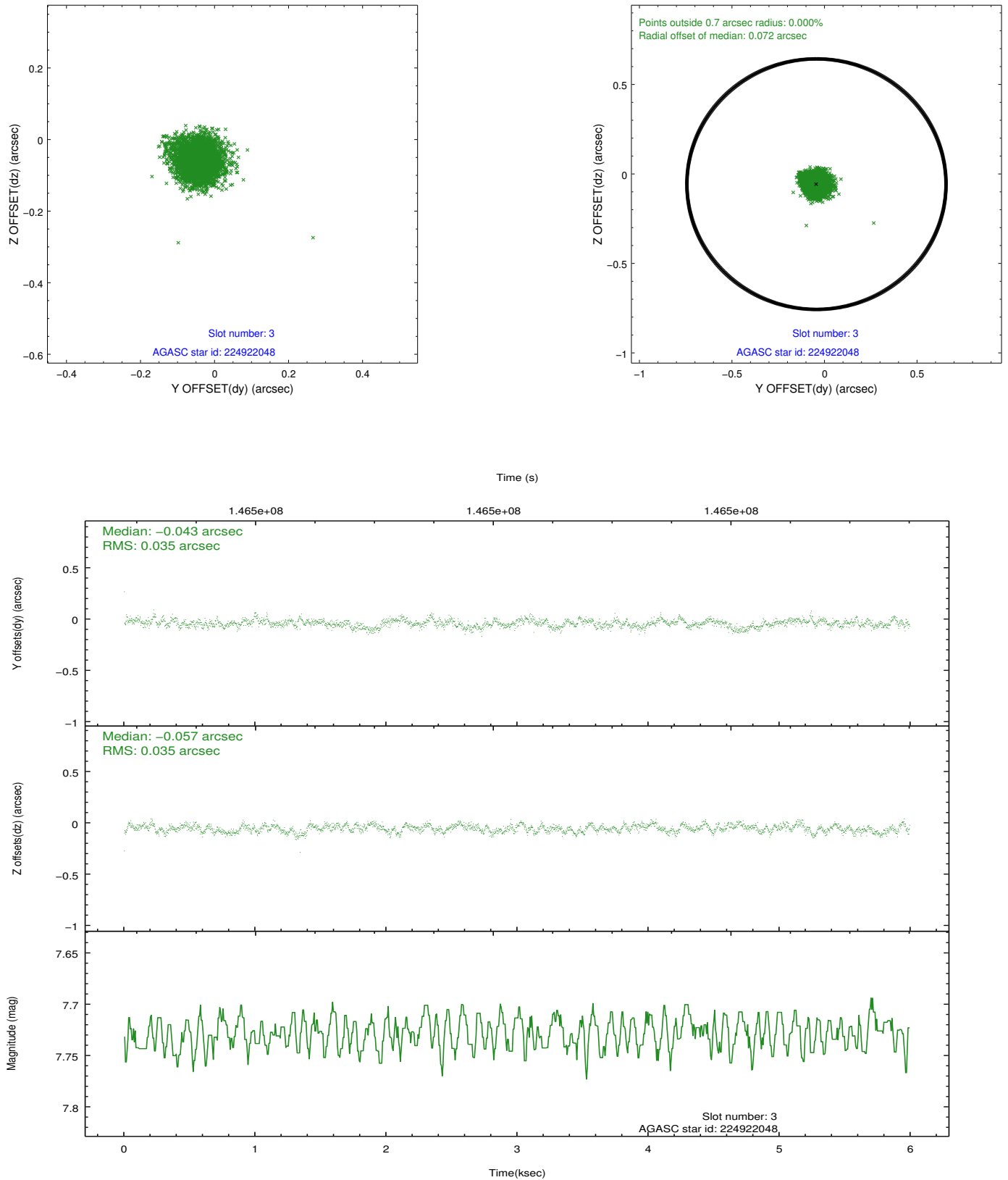


### Slot Statistics

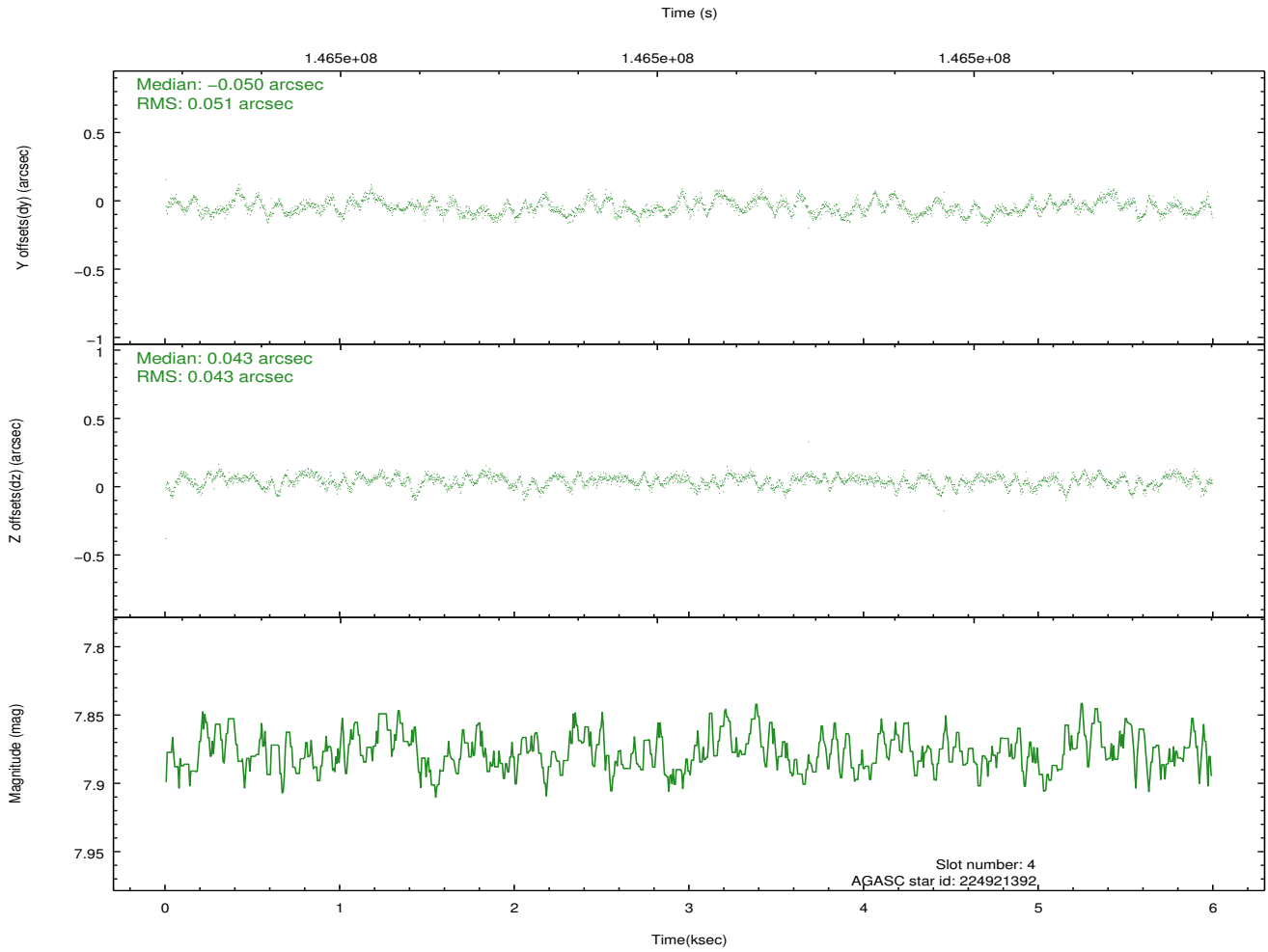
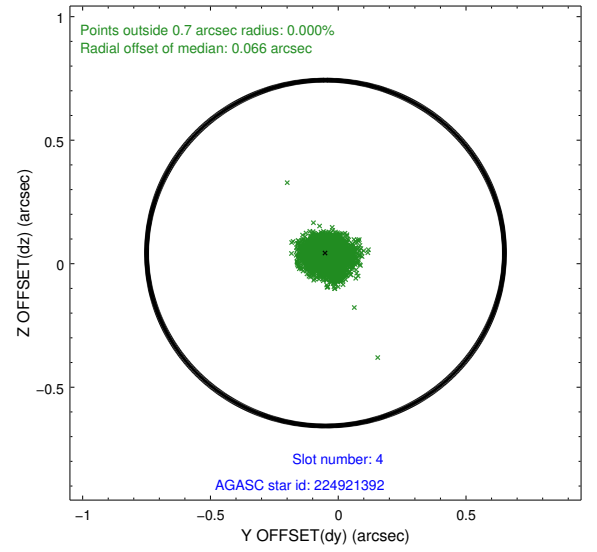
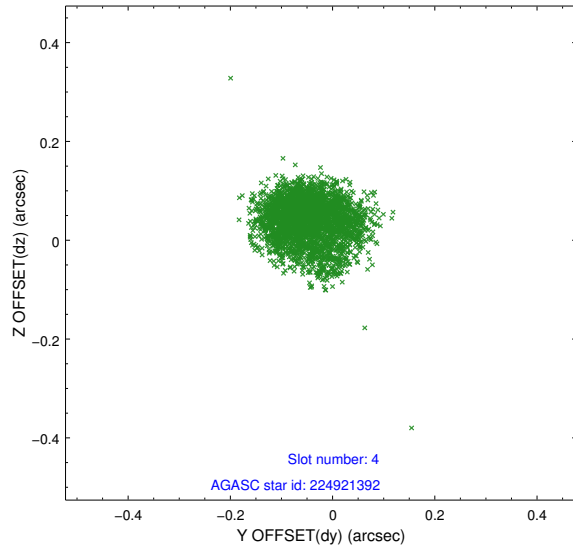
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1462	-0.024	0.014	0.006	0.010	0.000000	0.000000	-755.09	-1727.97
1	FID	ACIS-S-4	7.20	1462	-0.029	0.007	0.005	0.009	0.000000	0.000000	2157.73	179.50
2	FID	ACIS-S-5	7.24	1462	0.021	-0.013	0.006	0.010	0.000000	0.000000	-1806.62	174.26
3	GUIDE	224922048	7.73	2924	-0.043	-0.057	0.052	0.083	350.167102	19.840789	1289.33	388.51
4	GUIDE	224921392	7.88	2924	-0.050	0.043	0.071	0.112	350.555111	19.400096	-661.70	1053.62
5	GUIDE	225326160	8.84	2922	0.004	0.115	0.088	0.135	350.963259	20.089095	-537.37	-1783.64
6	GUIDE	224927368	9.08	2923	0.047	-0.031	0.069	0.113	350.863404	19.512813	-1339.93	157.98
7	GUIDE	224929096	9.60	2921	0.045	-0.072	0.129	0.211	350.714363	18.945567	-1981.05	2162.73

## 2.4 Star Slots

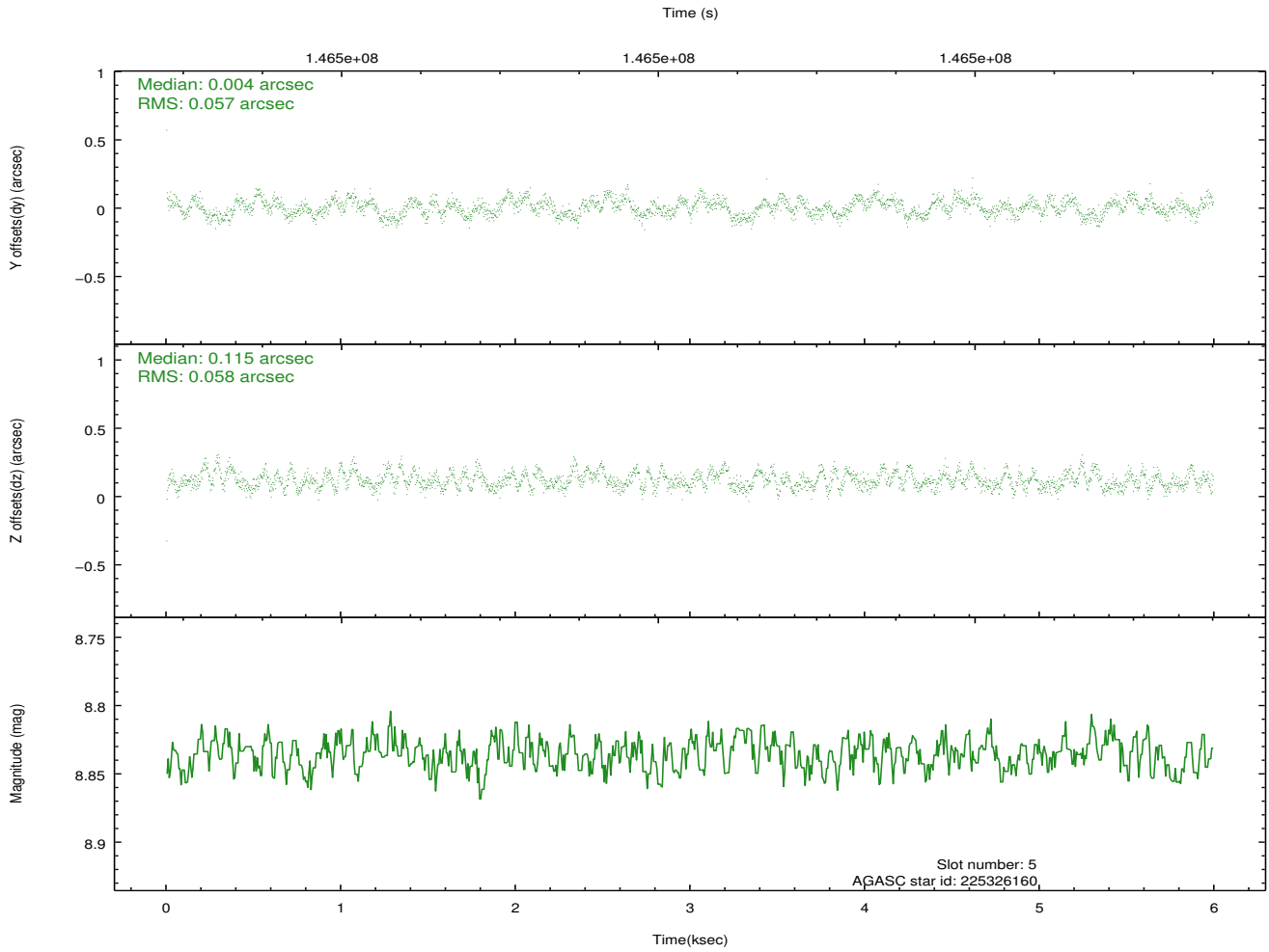
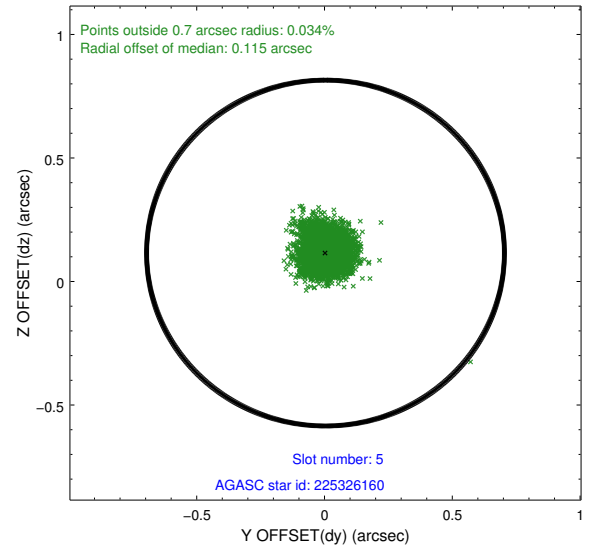
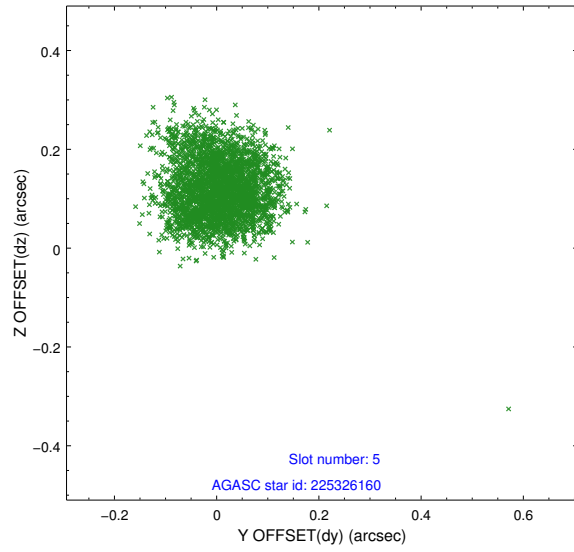
### 2.4.1 Slot 3



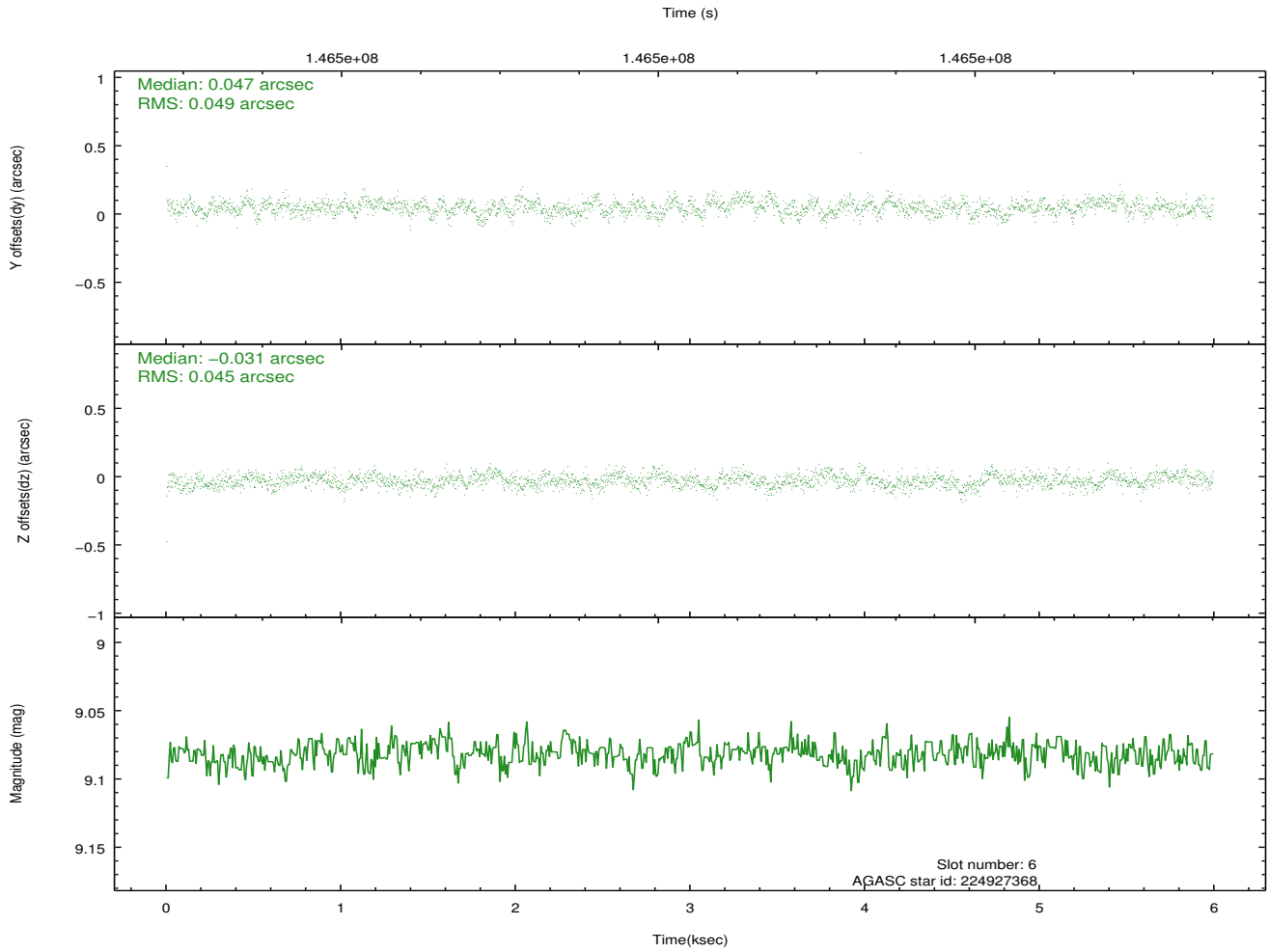
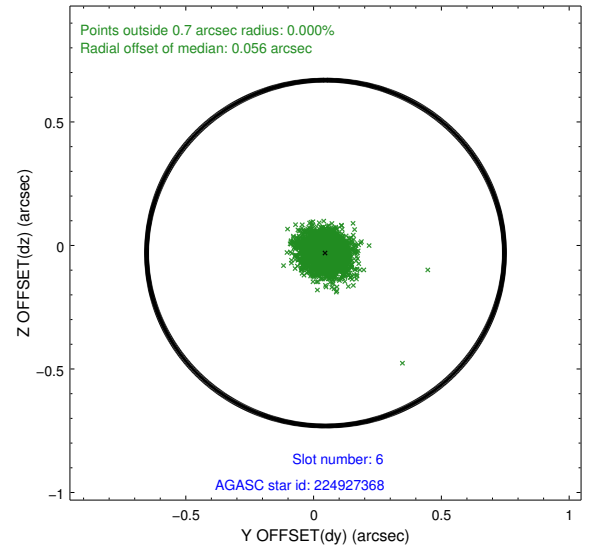
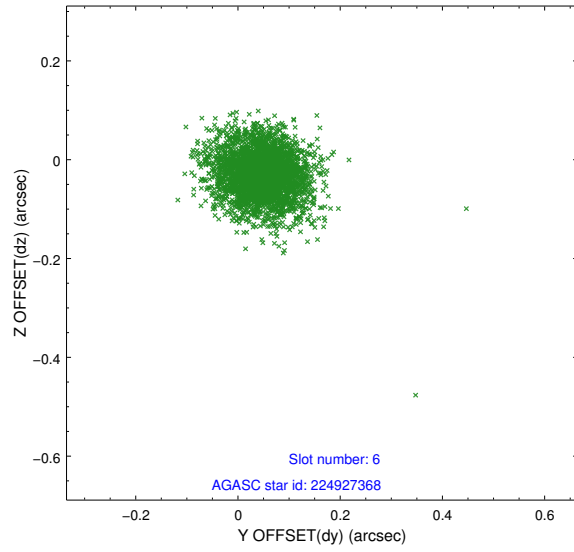
## 2.4.2 Slot 4



### 2.4.3 Slot 5

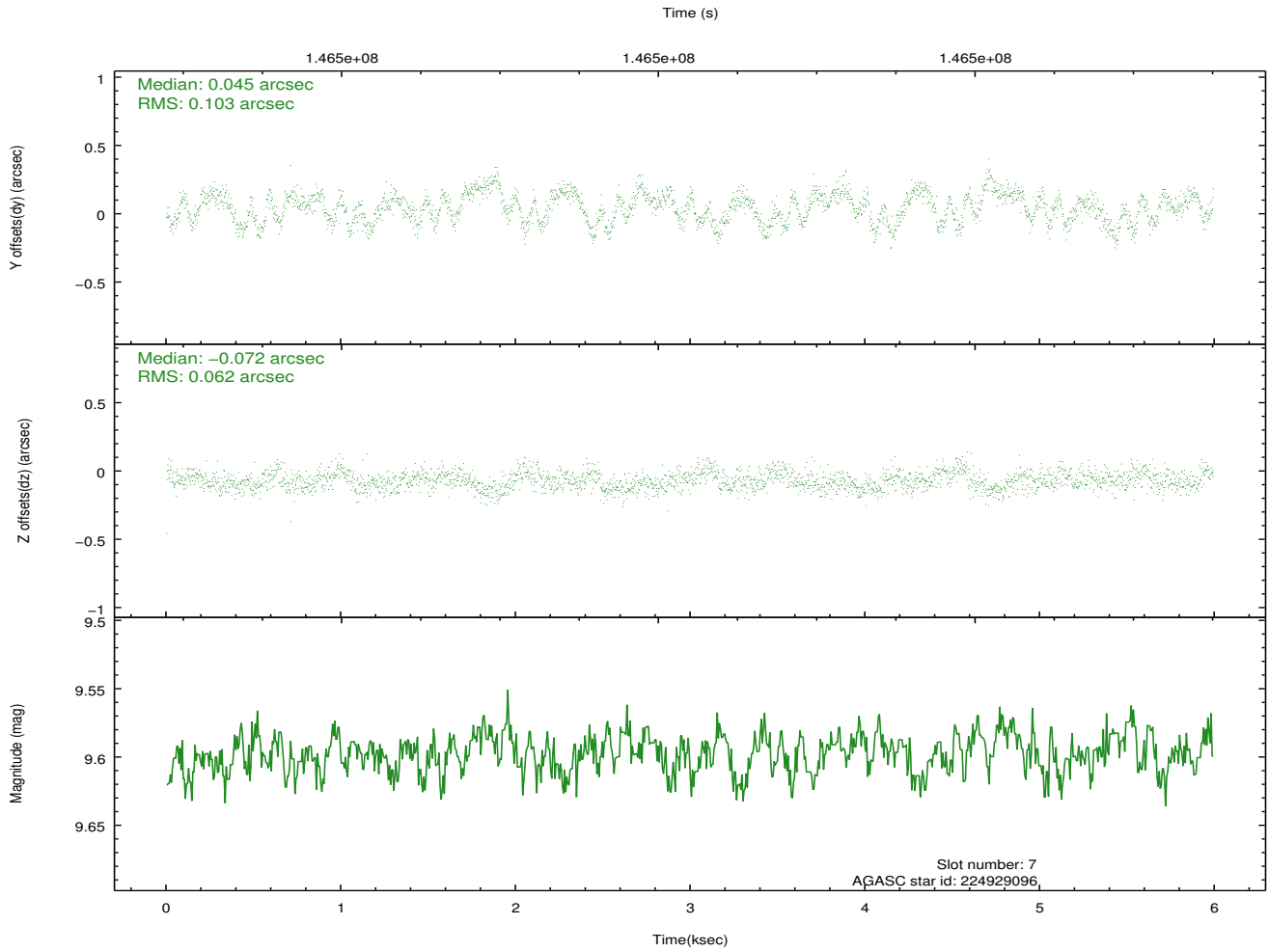
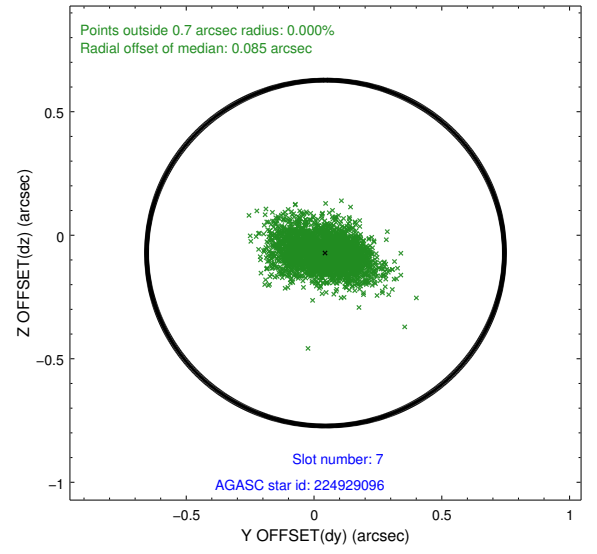
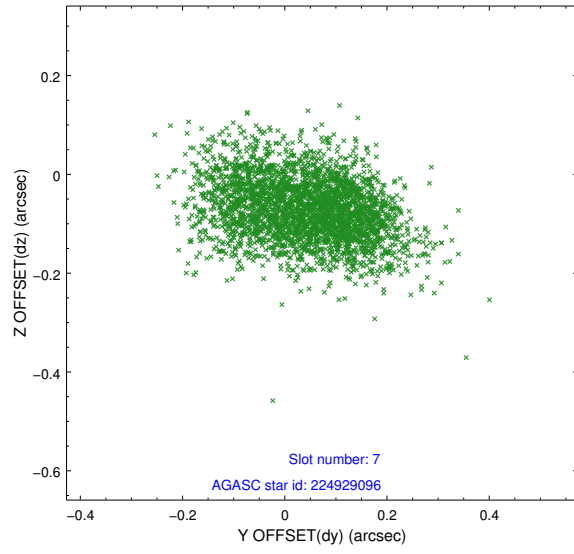


## 2.4.4 Slot 6



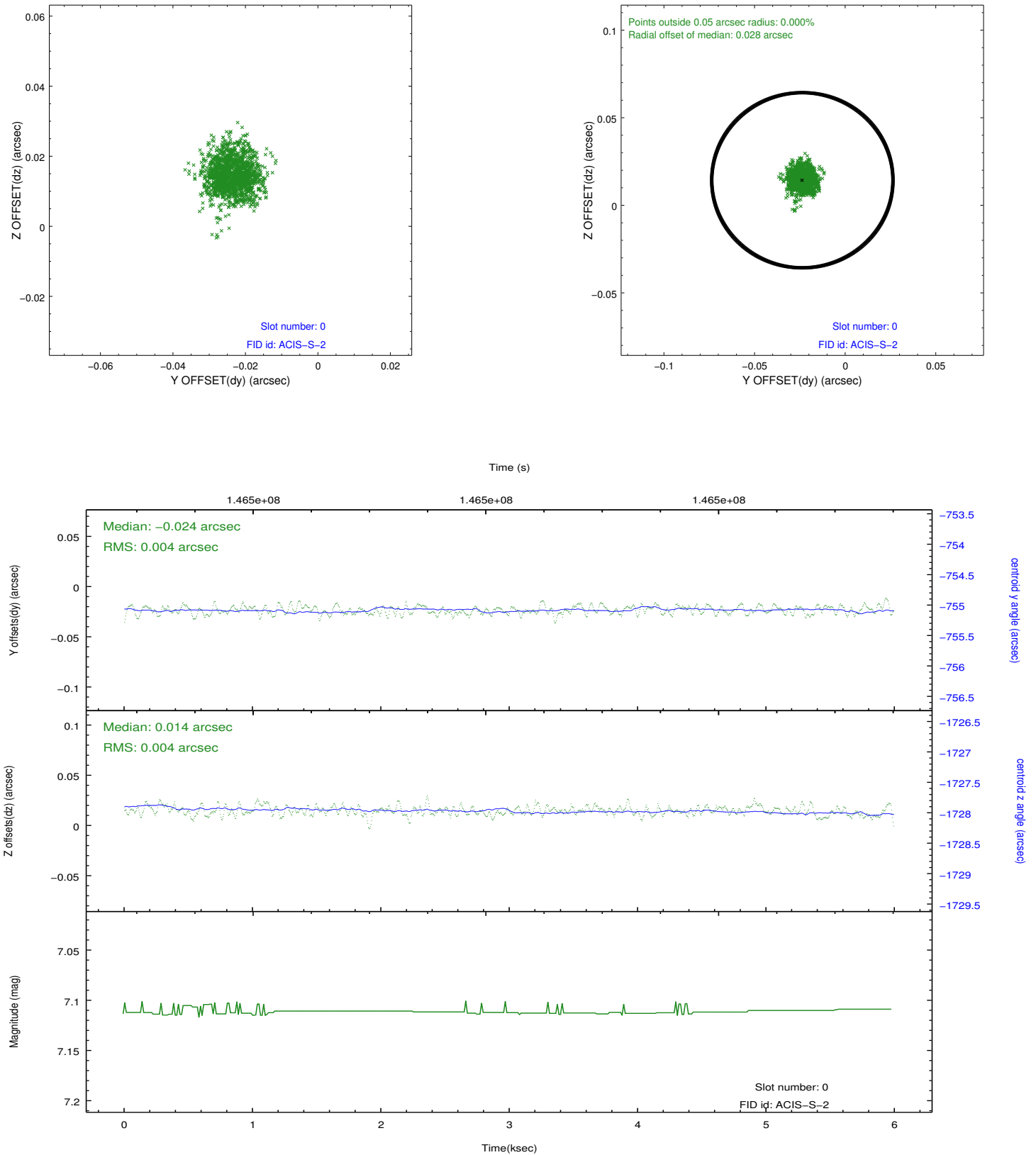


## 2.4.5 Slot 7

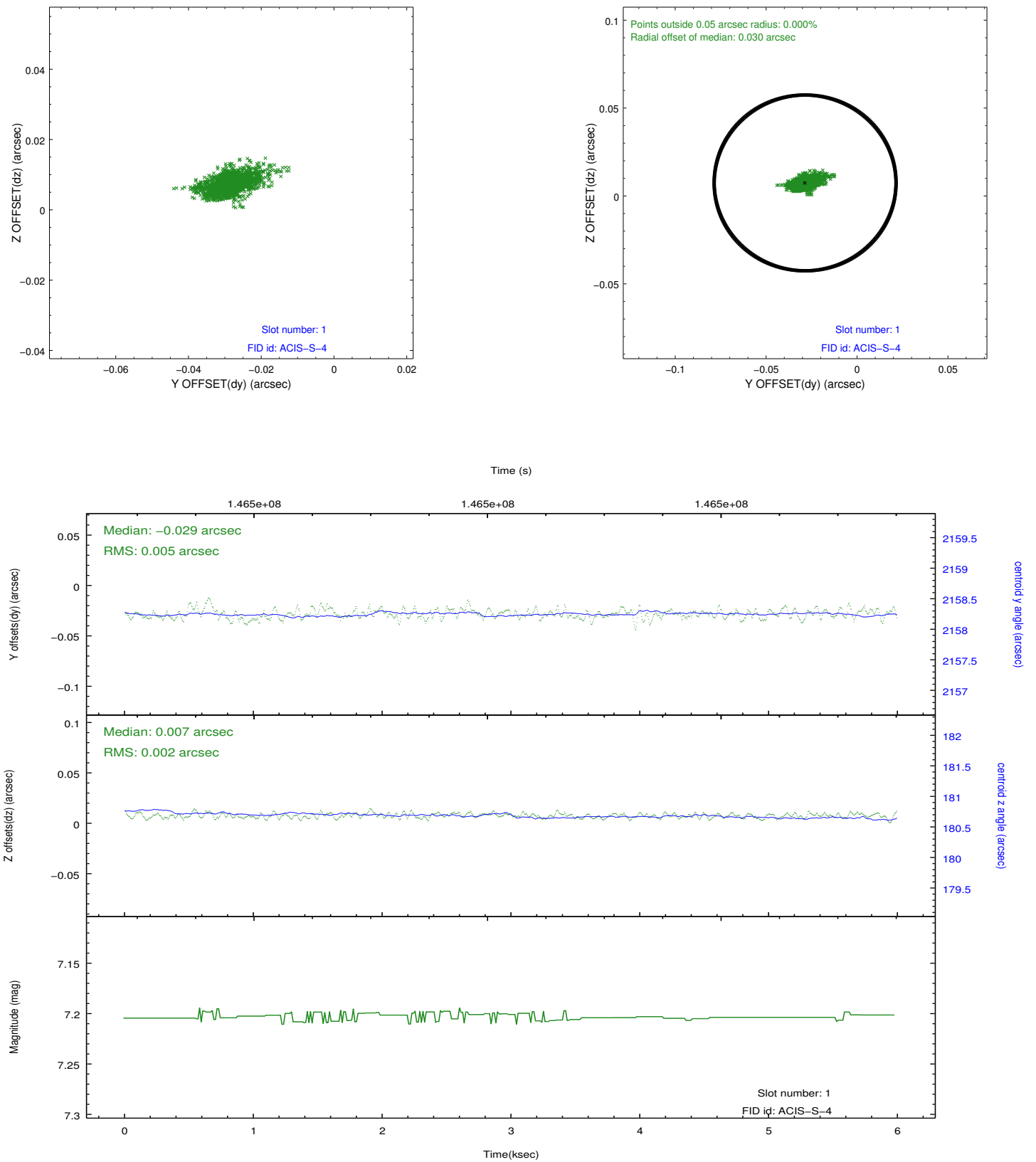


## 2.5 FID Slots

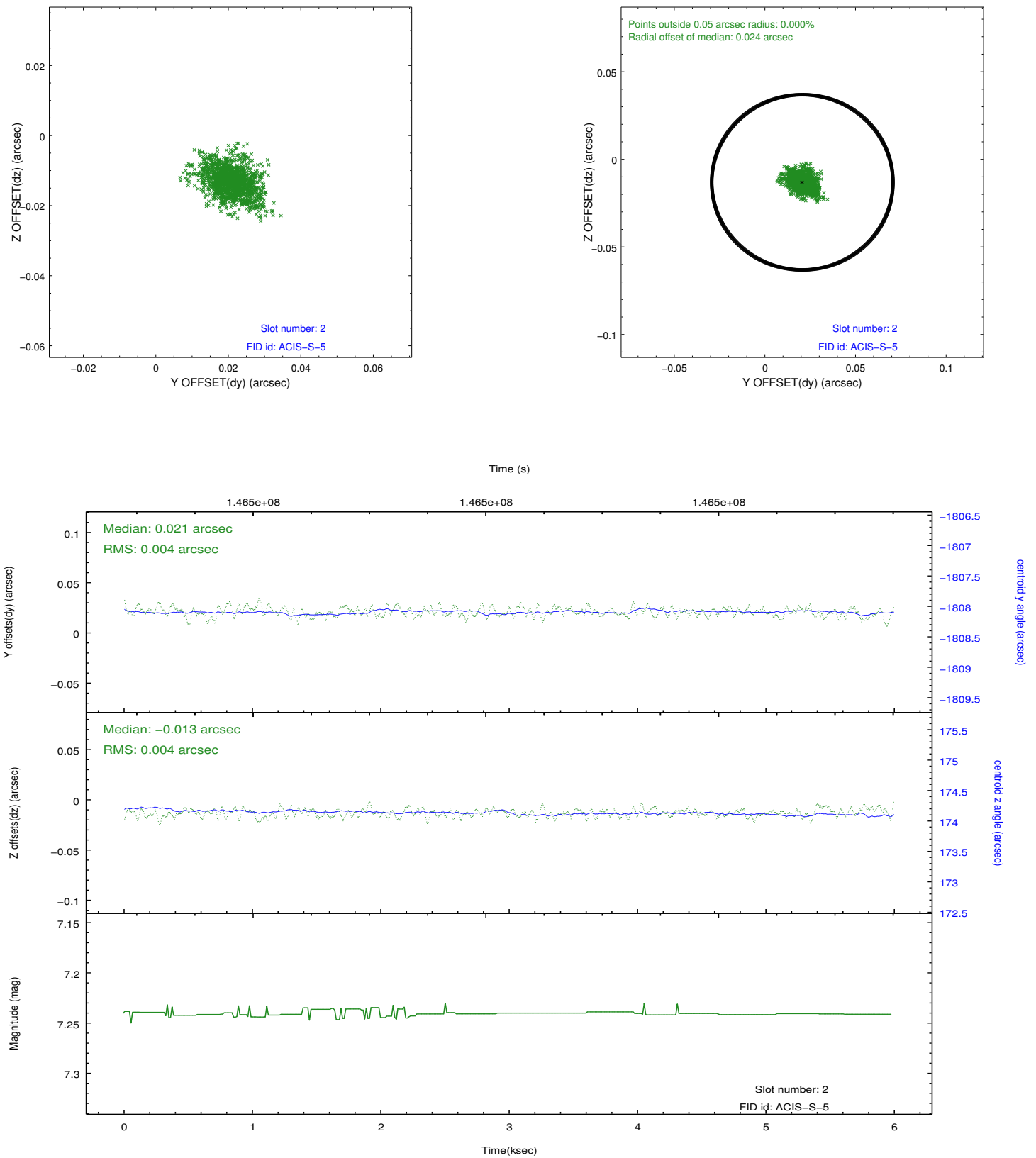
### 2.5.1 Slot 0



## 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)	2012.10.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.963

### A.2 Comments