

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8704 - L2 Version 2  
Chandra X-Ray Center

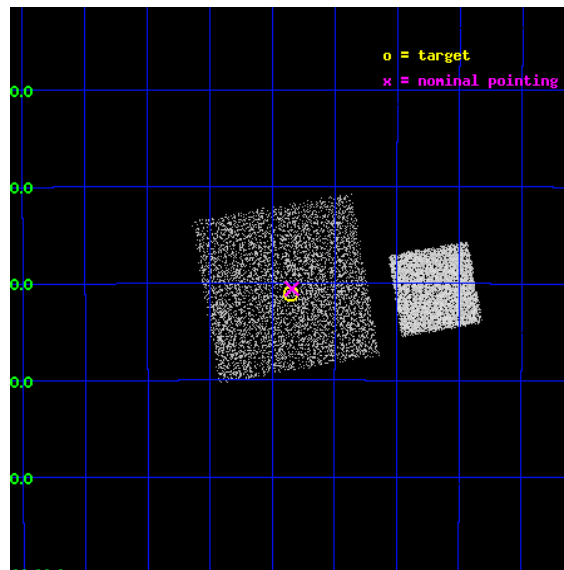
L2 Processing Date : May 15 2012

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# 1 Front

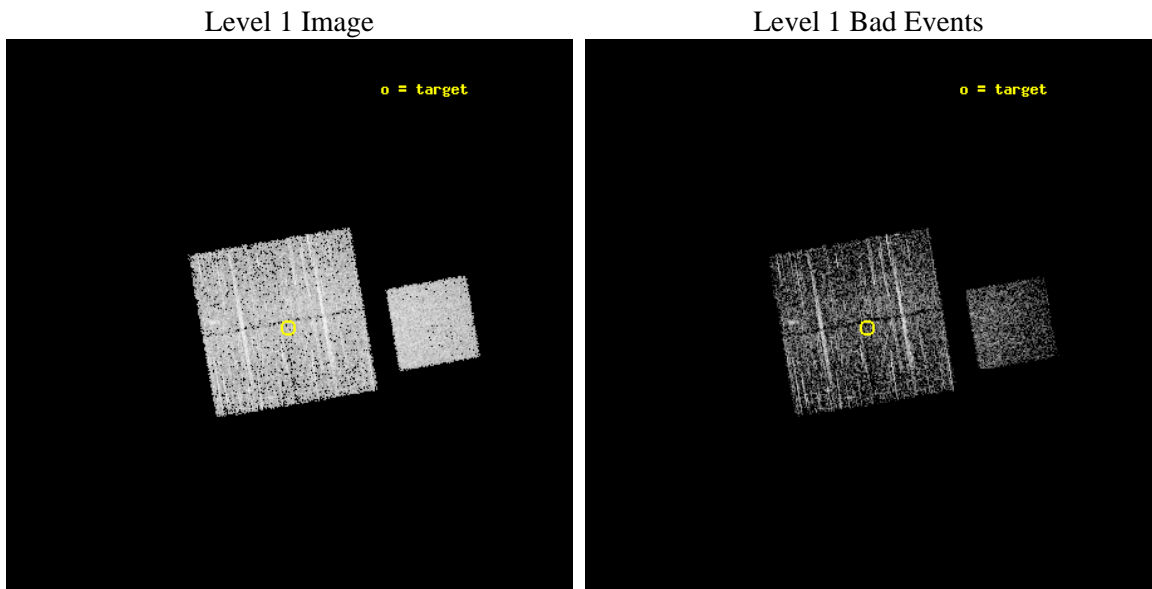
seq_num	400755	Sequence number
obs_id	8704	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO6	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	263.961857	Observer's specified target RA [deg]
dec_targ	-29.517432	Observer's specified target Dec [deg]
ra_nom	263.9605946939	Nominal RA [deg]
dec_nom	-29.509410631728	Nominal Dec [deg]
roll_nom	80.208098055237	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2182.4000167847	Sum of GTIs [s]
livetime	2153.8853539059	Livetime [s]
ontime0	2182.4000167847	Sum of GTIs [s]
ontime1	2182.4000167847	Sum of GTIs [s]
ontime2	2182.4000167847	Sum of GTIs [s]
ontime3	2182.4000167847	Sum of GTIs [s]
ontime7	2182.4000167847	Sum of GTIs [s]
l2events	15945	Number of level 2 events



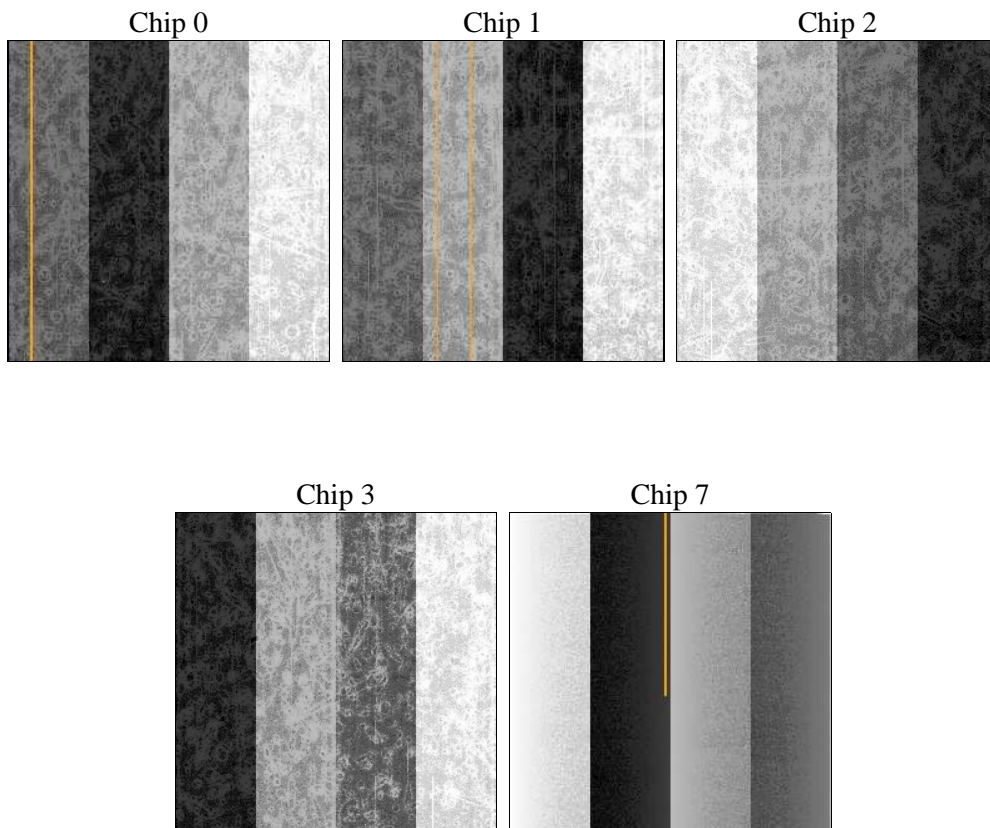
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2182.4000167847	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2182.4000167847	Sum of GTIs [s]
date	2012-05-15T03:14:08	Date and time of file creation	ontime1	2182.4000167847	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2182.4000167847	Sum of GTIs [s]
			ontime3	2182.4000167847	Sum of GTIs [s]
			ontime7	2182.4000167847	Sum of GTIs [s]
			l1events	101600	Number of level 1 events

### 2.1.4 Events

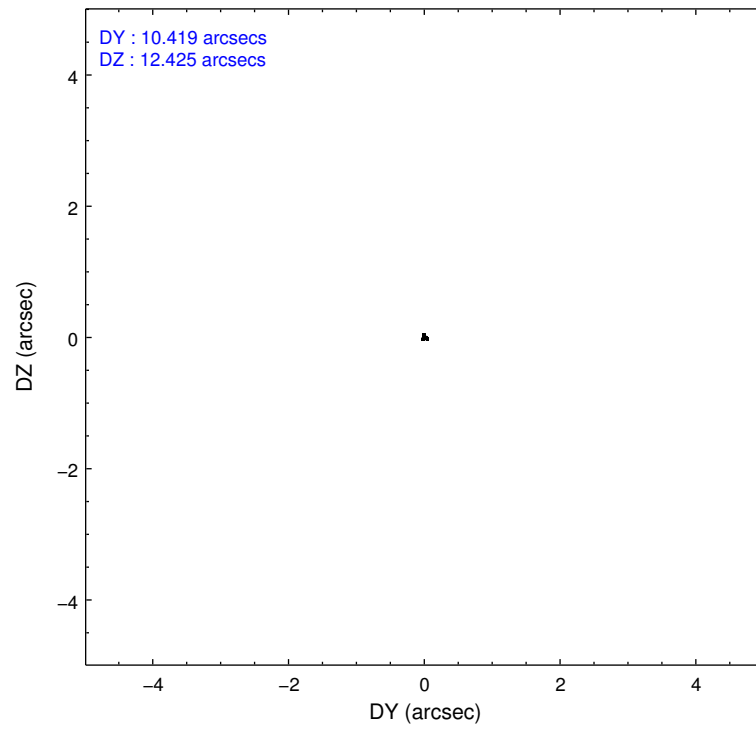
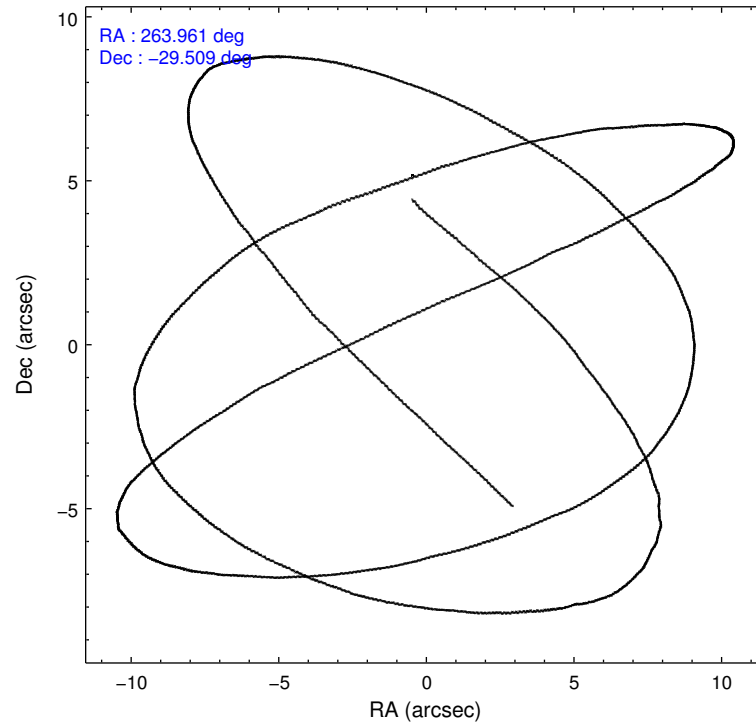
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	18724	19604	20804	19367	23101
rejected events	16696	17441	18667	17369	13826
rejected %	89%	88%	89%	89%	59%

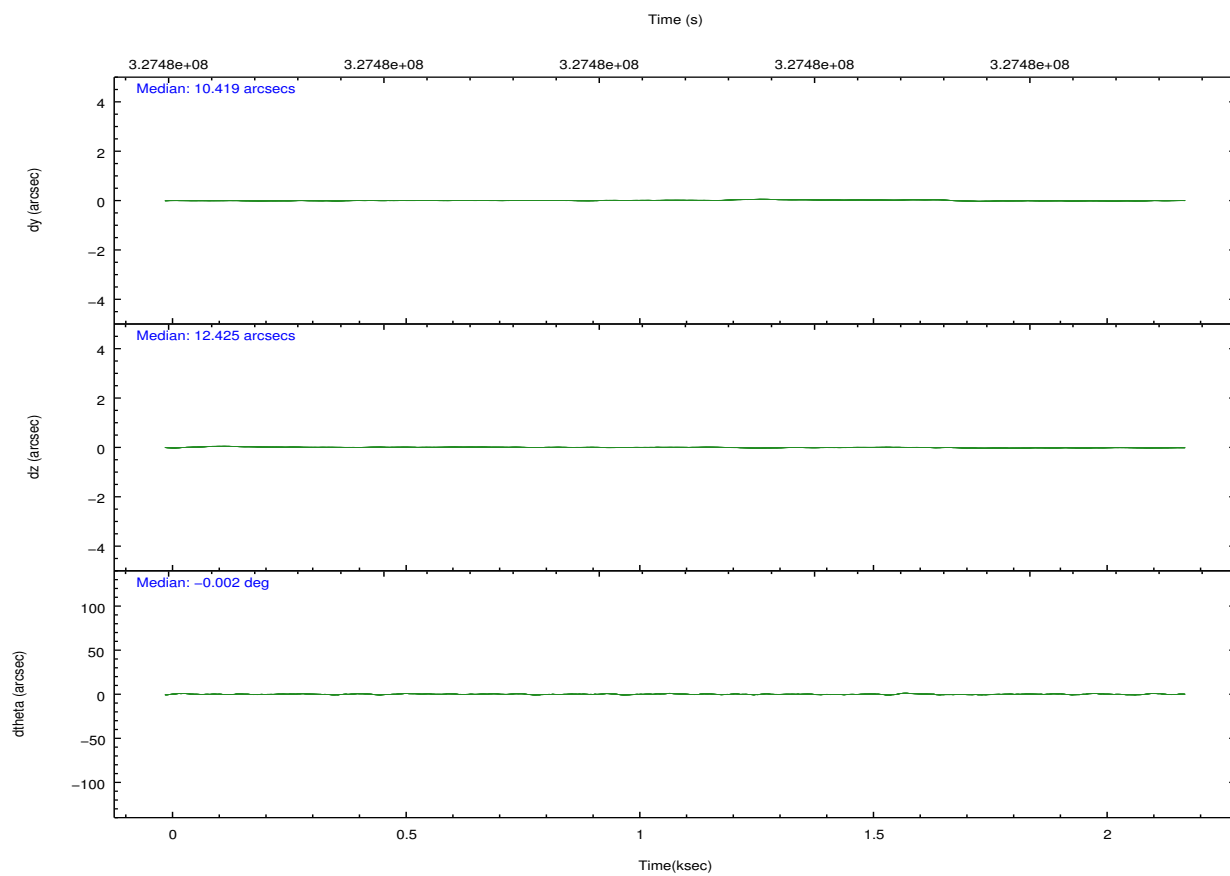
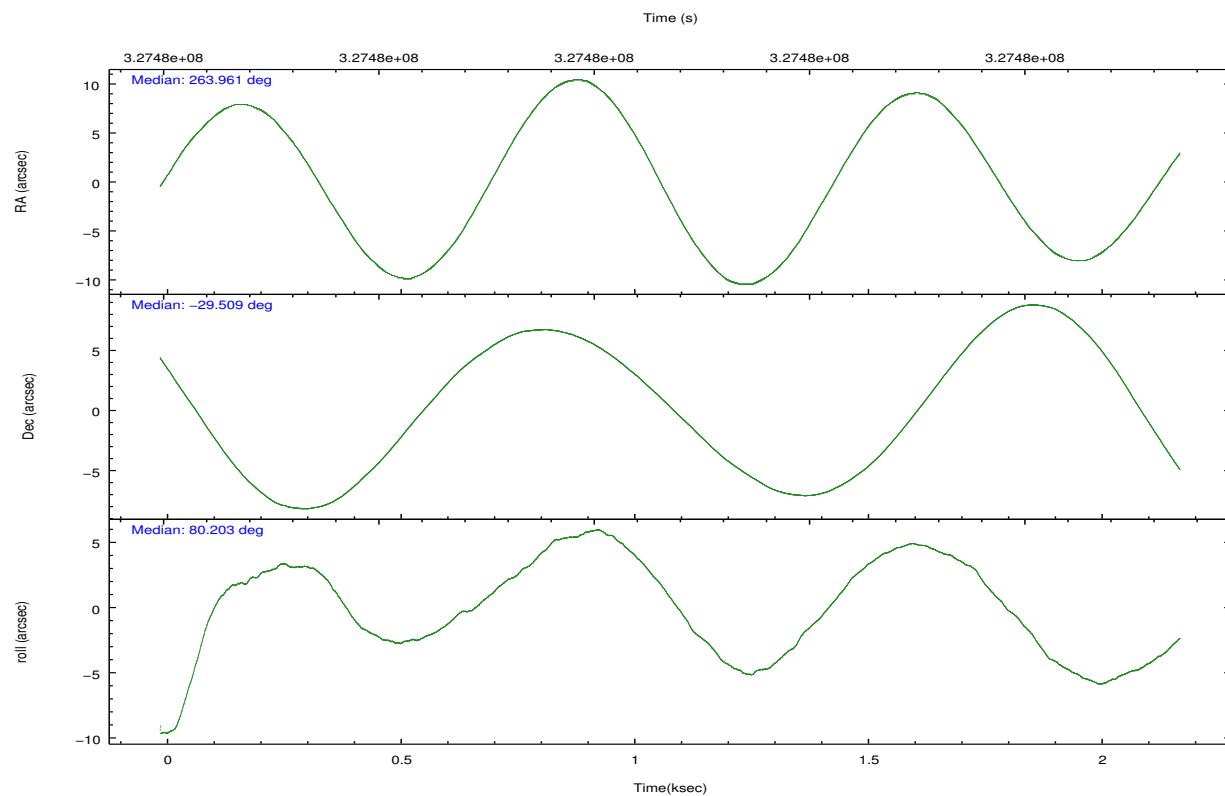
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	966	1038	1043	980	1057
	5%	5%	5%	5%	4%
grade 1 events	12	12	13	12	39
	0%	0%	0%	0%	0%
grade 2 events	517	523	551	444	2191
	2%	2%	2%	2%	9%
grade 3 events	257	262	238	259	1027
	1%	1%	1%	1%	4%
grade 4 events	216	250	228	241	996
	1%	1%	1%	1%	4%
grade 5 events	694	752	642	840	2386
	3%	3%	3%	4%	10%
grade 6 events	394	423	380	357	5418
	2%	2%	1%	1%	23%
grade 7 events	15668	16344	17709	16234	9987
	83%	83%	85%	83%	43%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	263.971678	263.9605946939031	CCD I2 on	Y	Y
[deg] Pointing Dec	-29.535183	-29.5094106317276	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004844	80.20809805523734	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	327477254.184000	327476878.15837	CCD S5 on	N	N
Observation start date	2008-05-18T05:53:09	2008-05-18T05:47:58	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327479254.184000	327479388.3835	On-chip summing requested	N	N
Observation end date	2008-05-18T06:26:29	2008-05-18T06:29:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



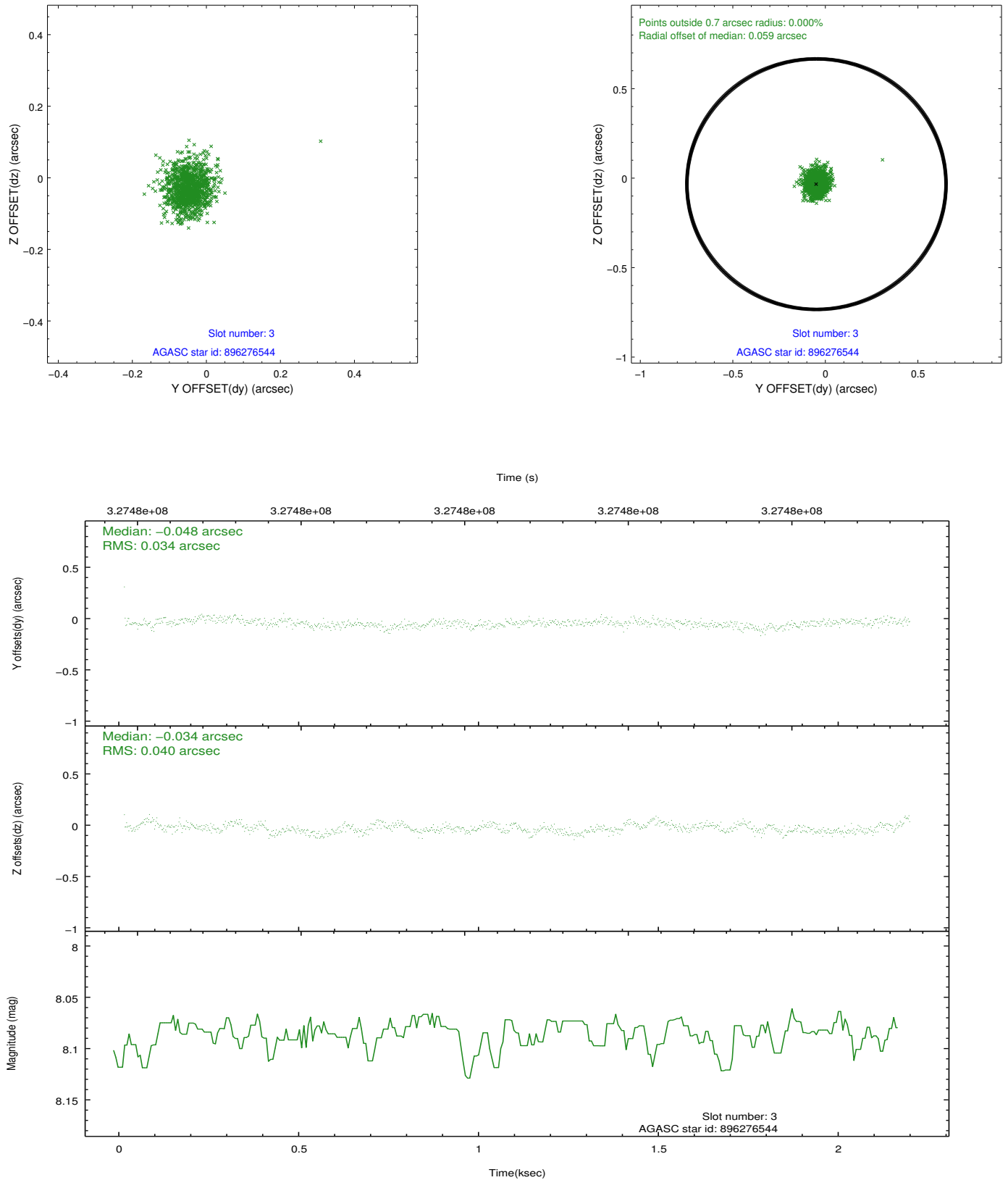


### Slot Statistics

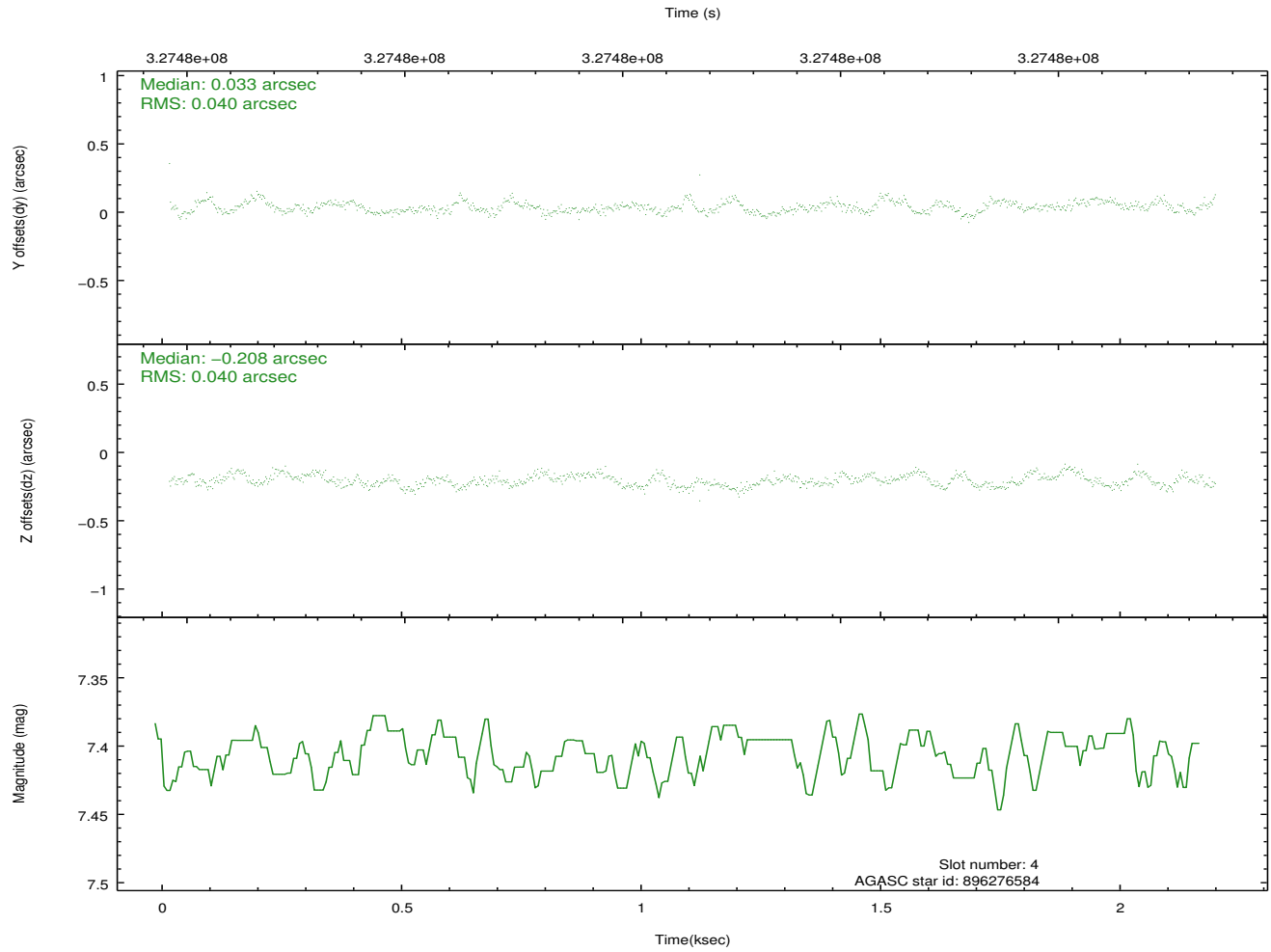
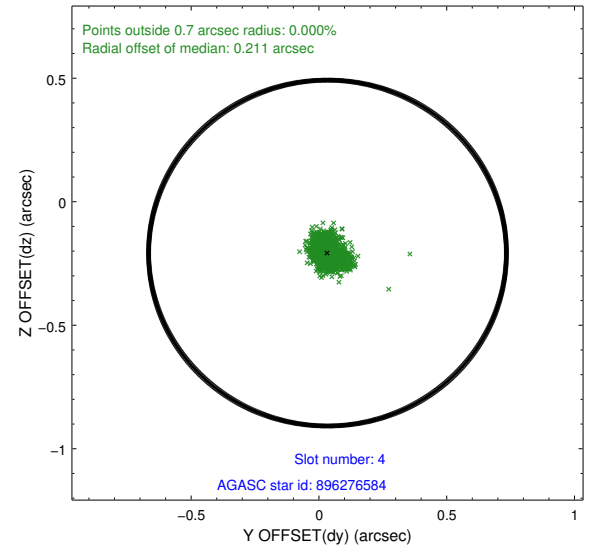
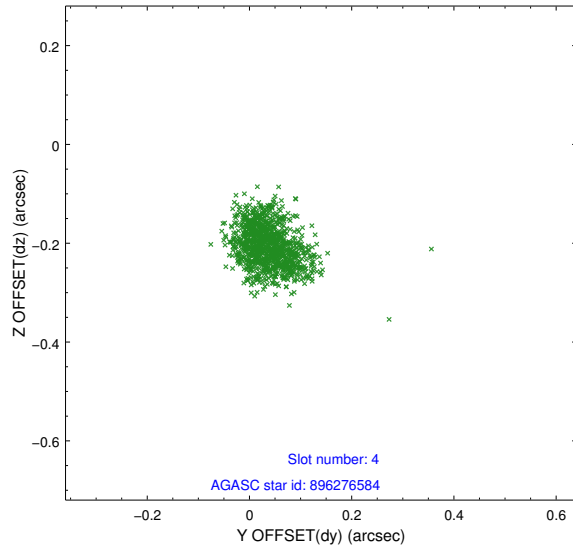
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.05	533	0.053	0.002	0.007	0.011	0.000000	0.000000	929.21	-835.96
1	FID	ACIS-I-5	7.03	533	-0.190	0.068	0.006	0.010	0.000000	0.000000	-1817.47	1060.12
2	FID	ACIS-I-6	7.04	533	0.046	0.000	0.007	0.012	0.000000	0.000000	391.52	1707.92
3	GUIDE	896276544	8.09	1064	-0.048	-0.034	0.055	0.091	263.666616	-29.255819	823.01	1117.93
4	GUIDE	896276584	7.41	1066	0.033	-0.208	0.060	0.095	263.264332	-29.650845	-799.96	2106.69
5	GUIDE	896403072	8.34	1066	-0.161	-0.019	0.048	0.082	263.956439	-28.943077	2090.19	419.34
6	GUIDE	966794640	9.32	1066	0.145	0.027	0.084	0.133	263.854004	-30.029028	-1812.36	52.81
7	GUIDE	896406904	9.00	1060	0.029	0.232	0.064	0.108	264.311862	-29.742267	-552.54	-1176.71

## 2.4 Star Slots

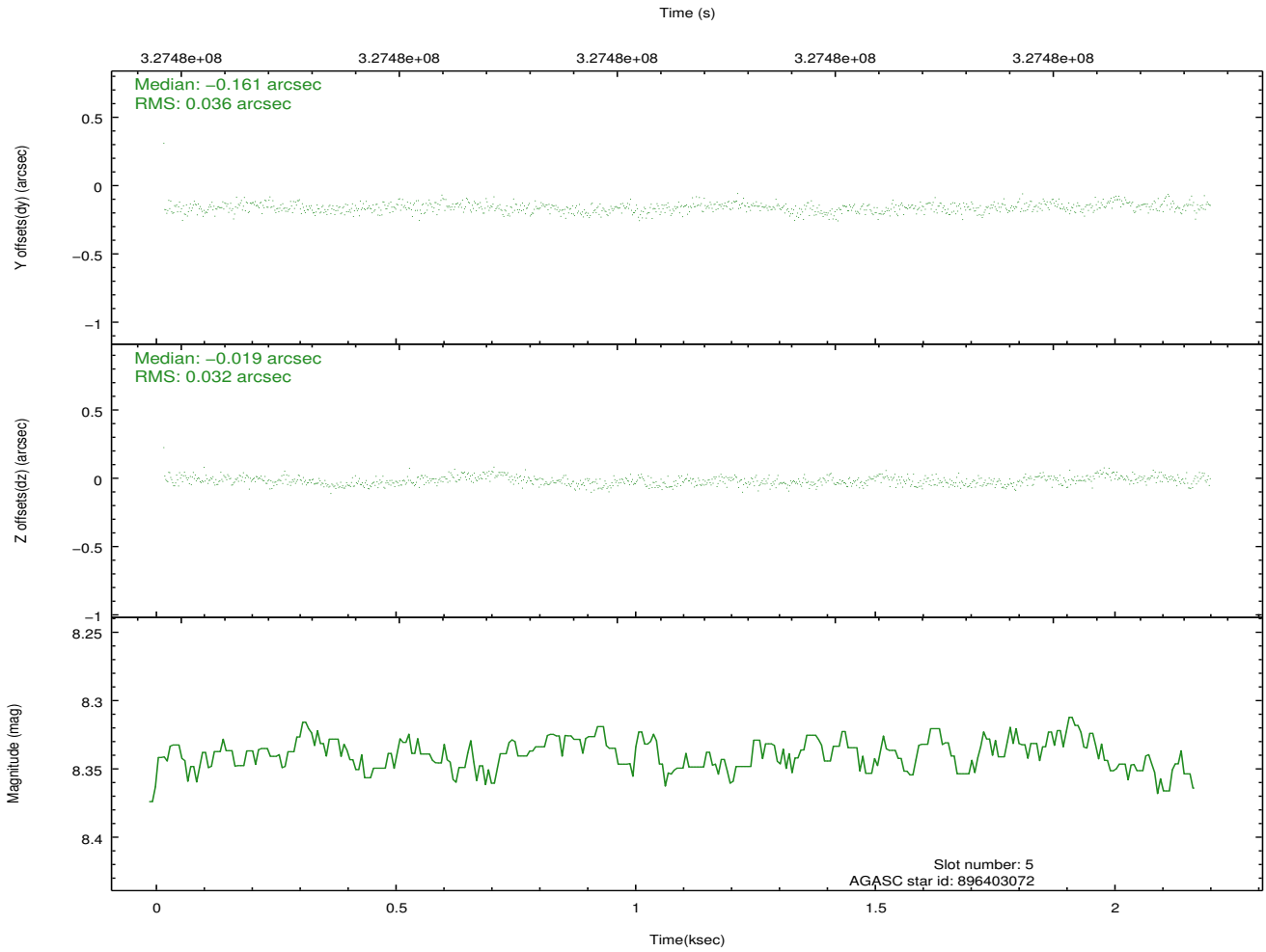
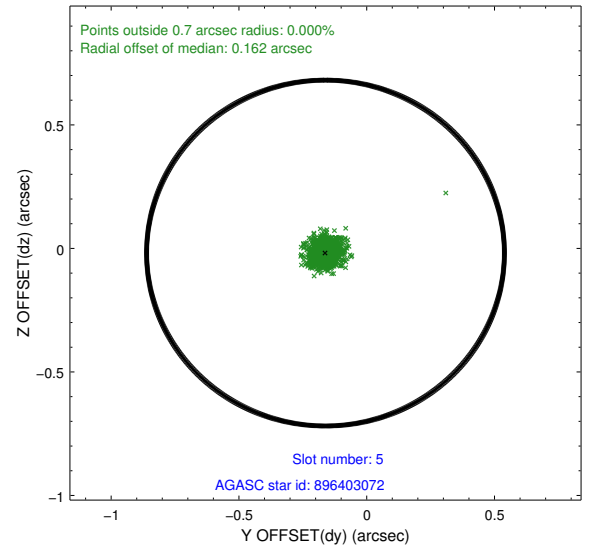
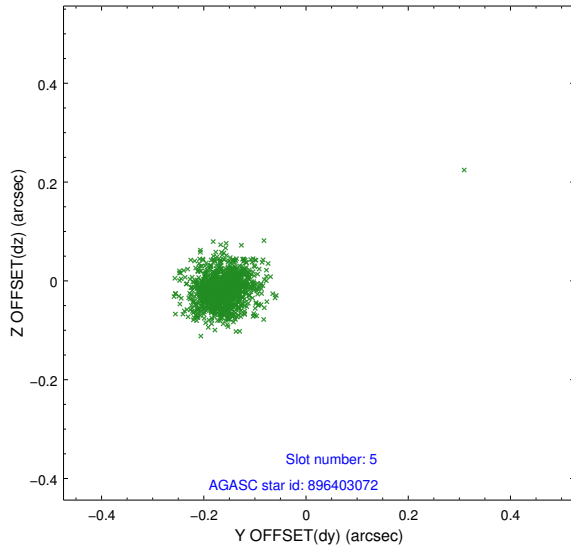
### 2.4.1 Slot 3



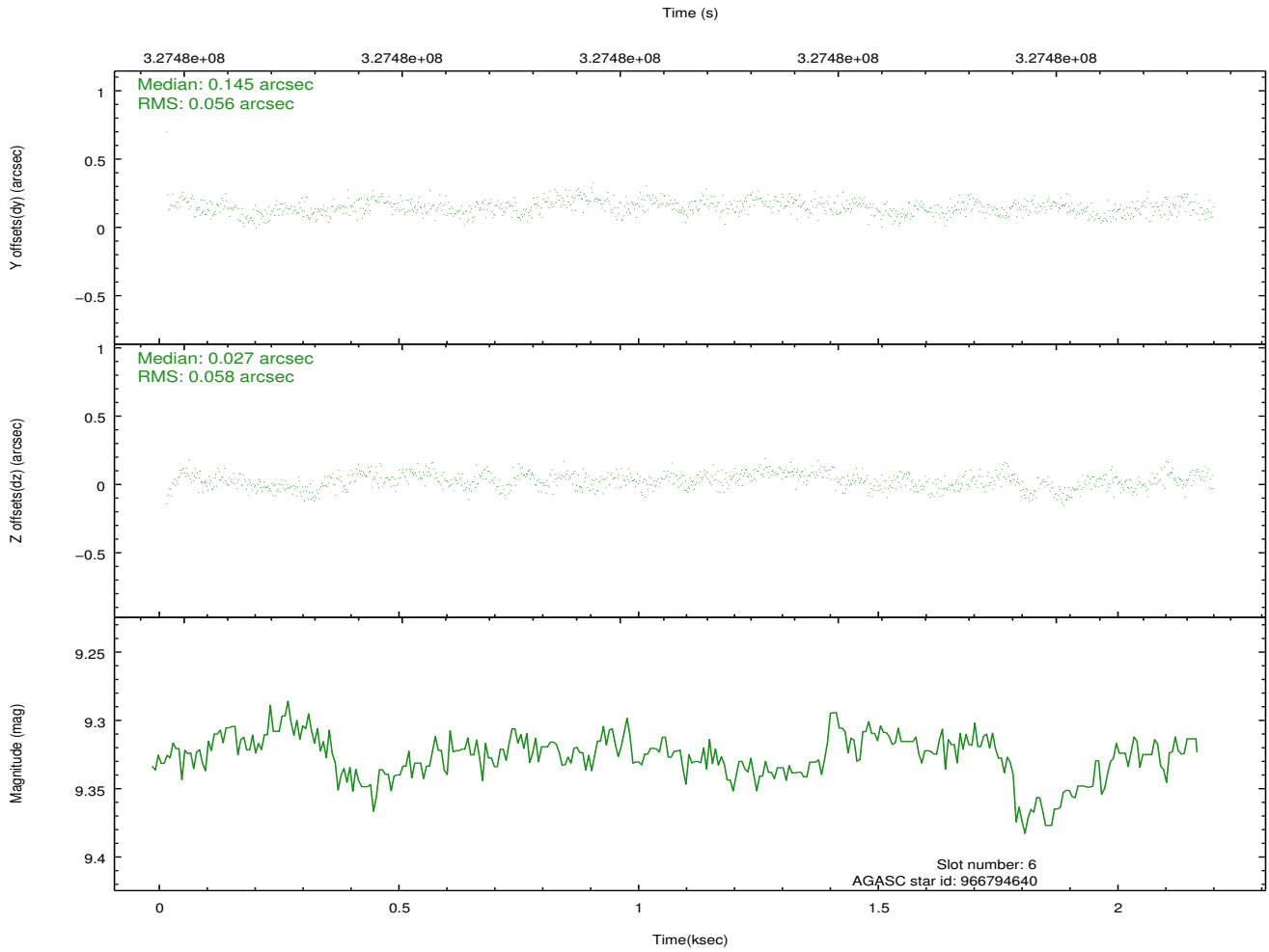
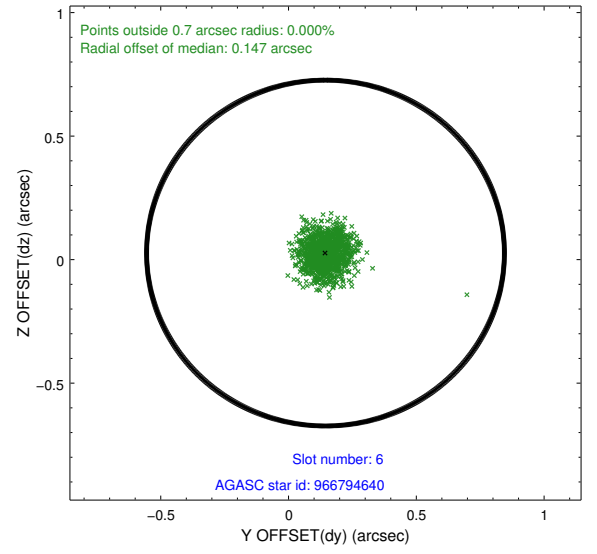
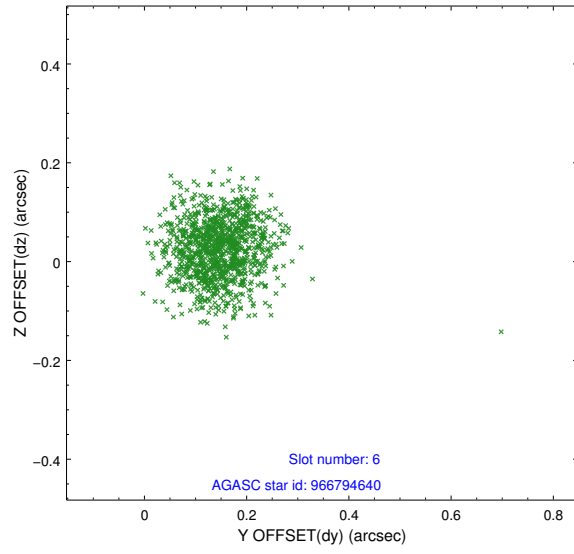
## 2.4.2 Slot 4



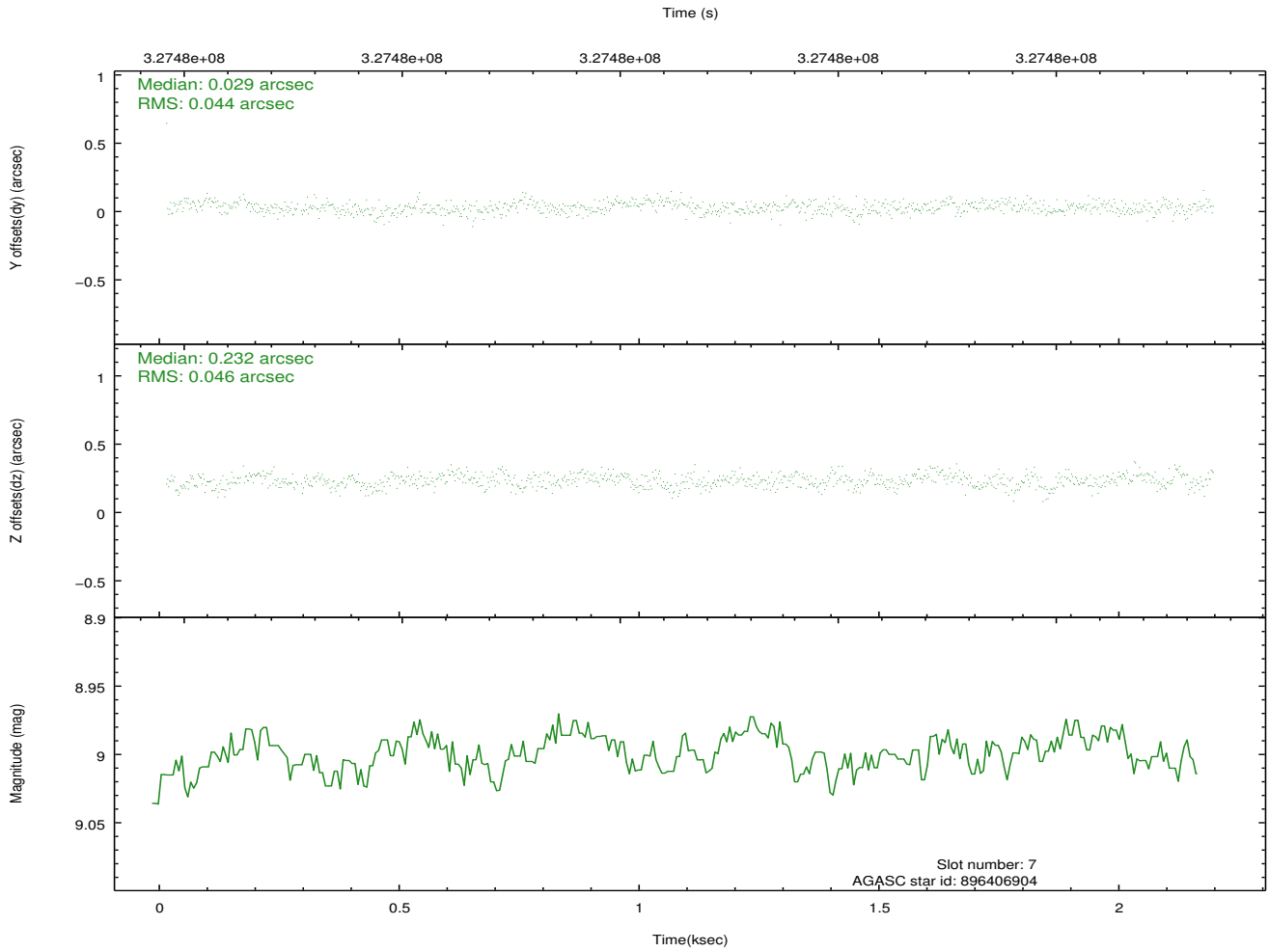
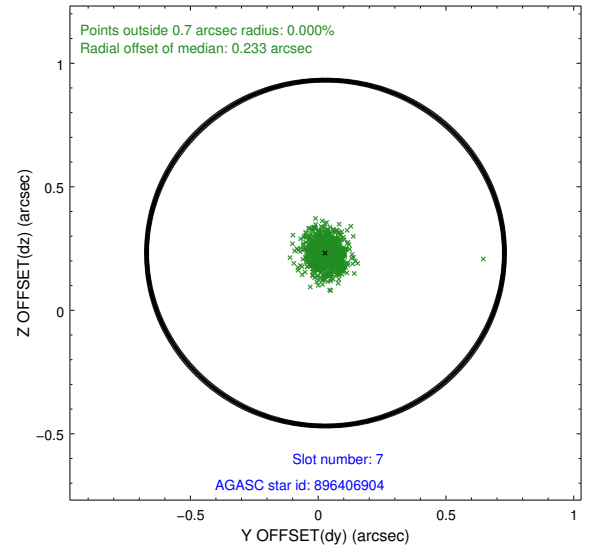
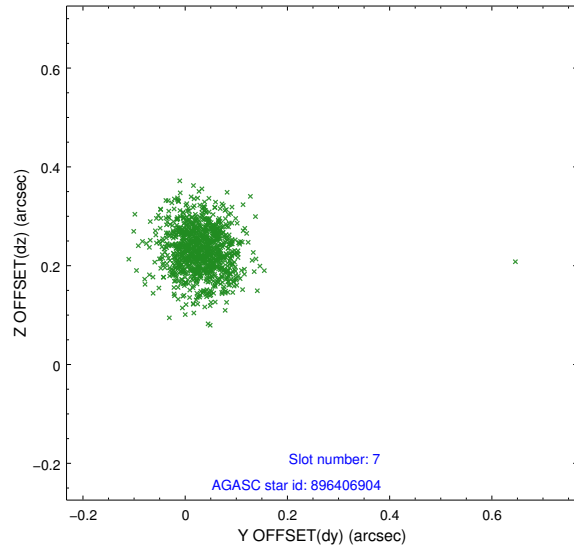
### 2.4.3 Slot 5



## 2.4.4 Slot 6

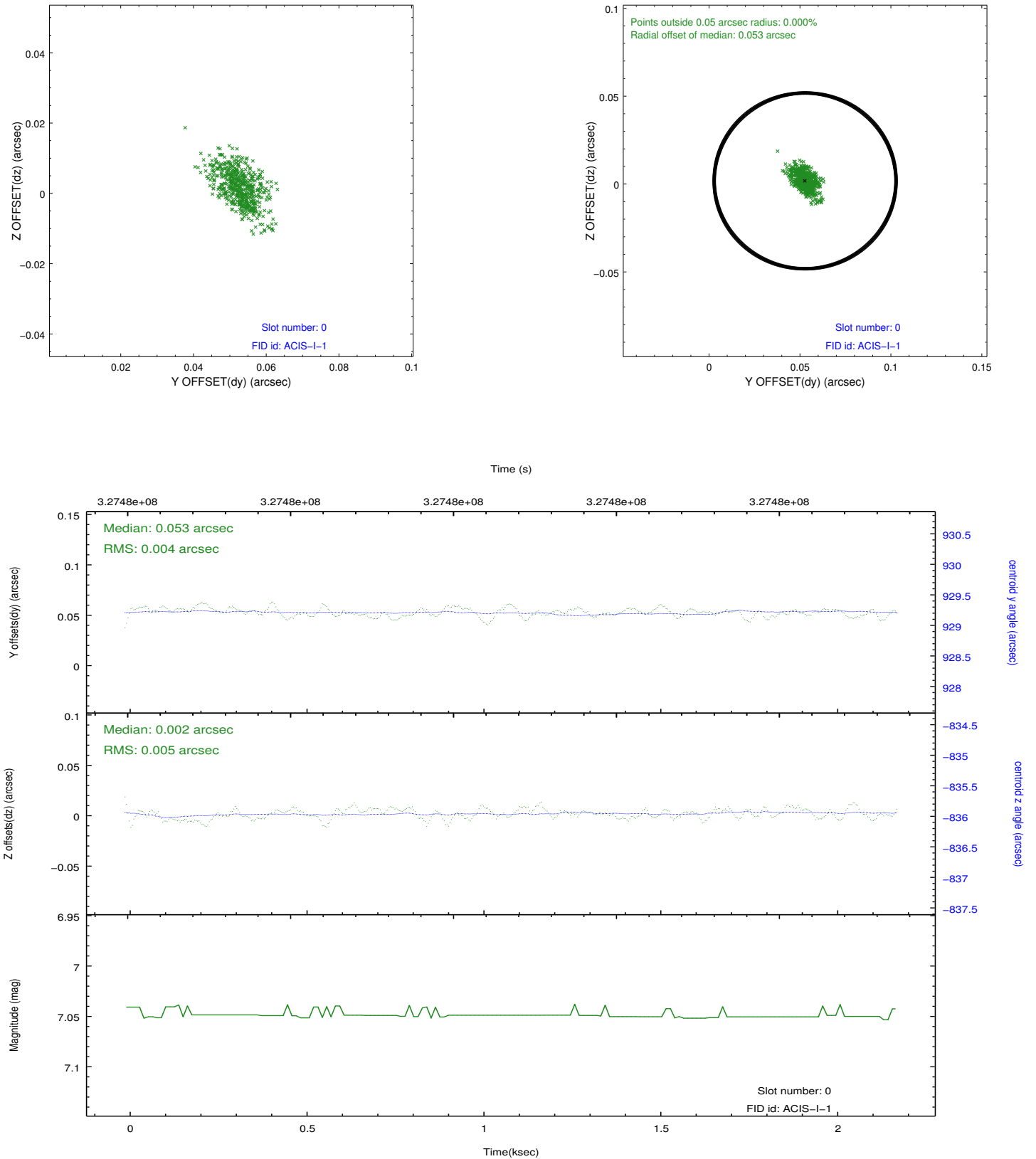


## 2.4.5 Slot 7

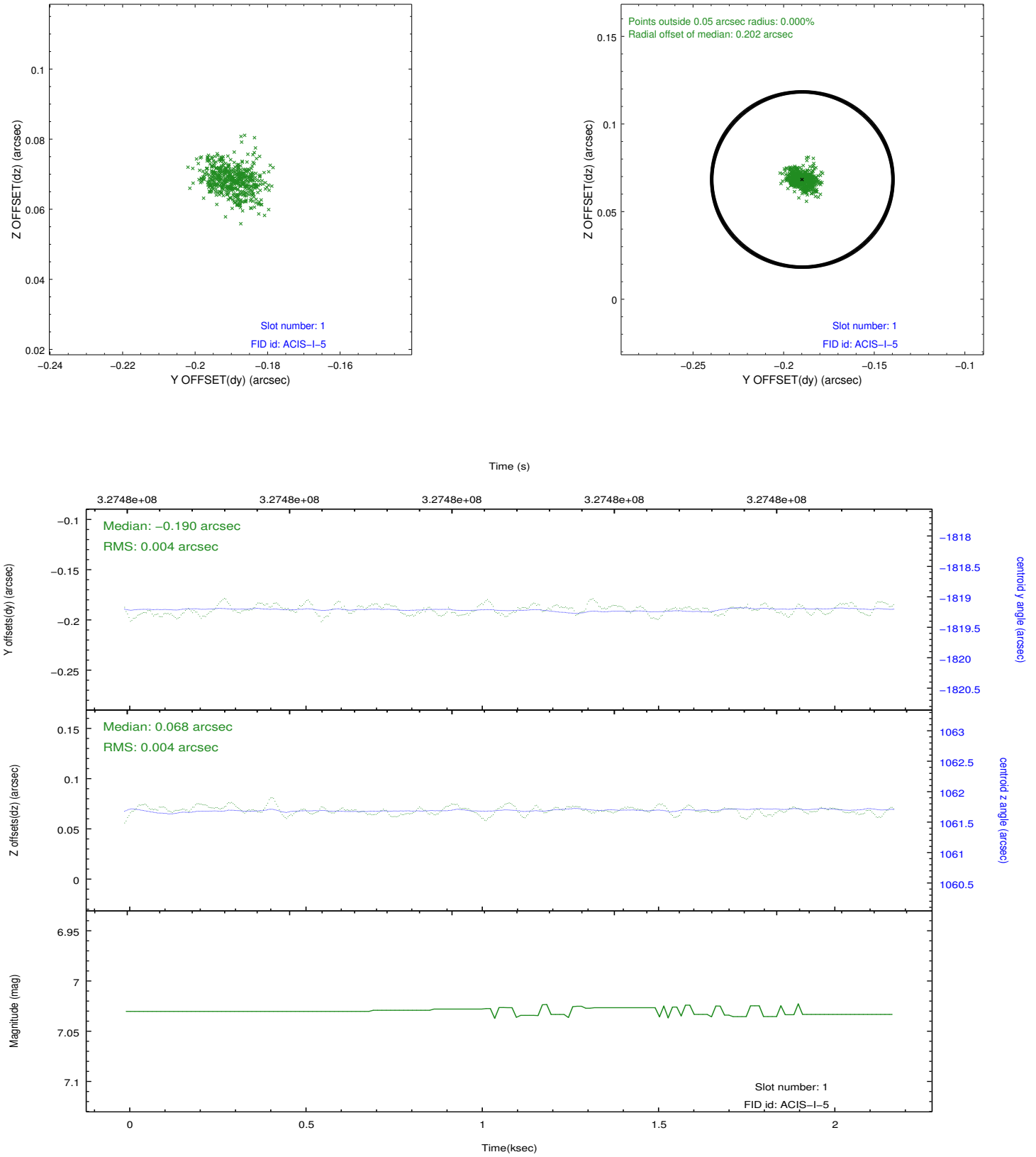


## 2.5 FID Slots

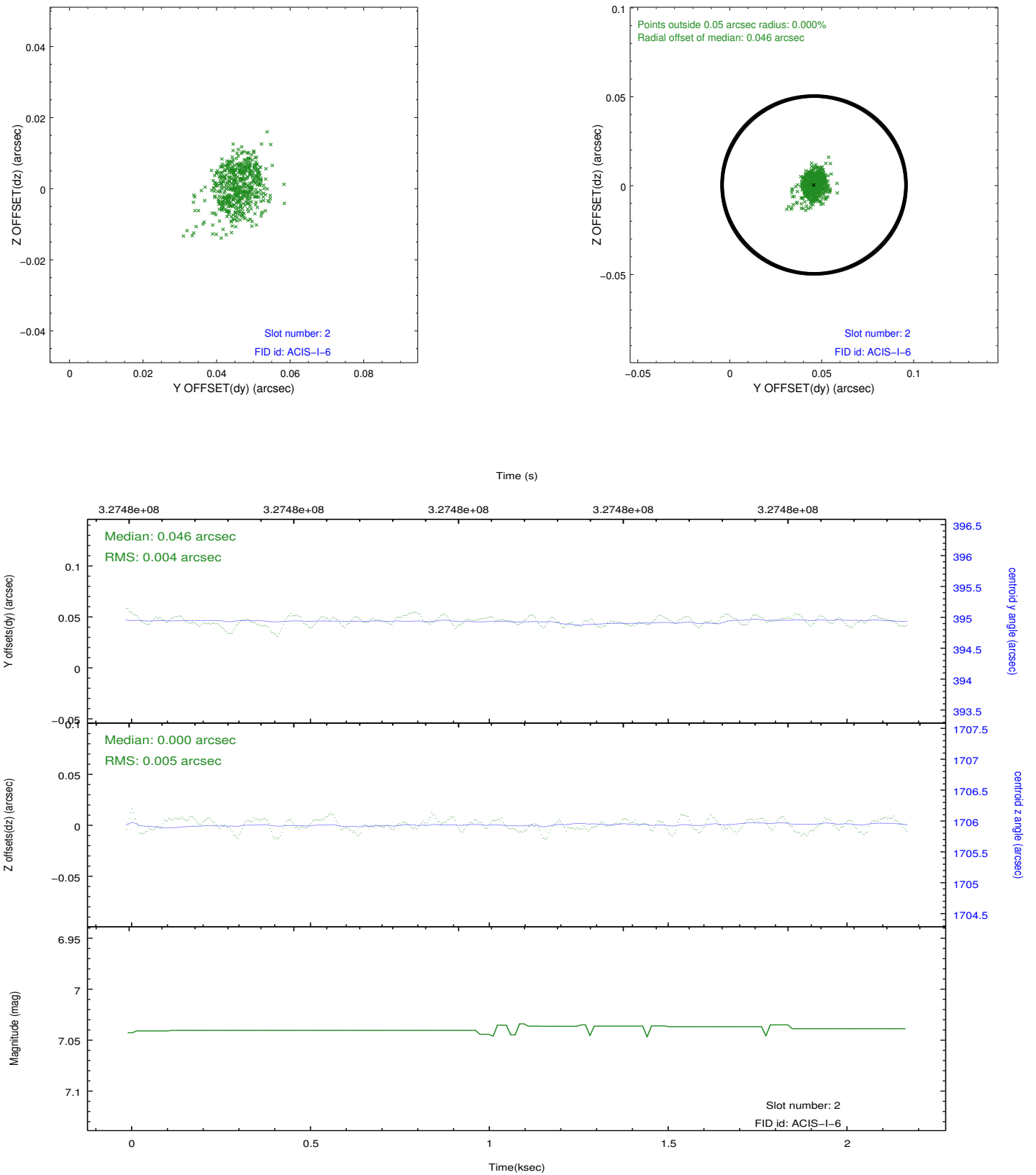
### 2.5.1 Slot 0



## 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)	2012.05.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18240001

### A.2 Comments