

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 7113 - L2 Version 2  
Chandra X-Ray Center

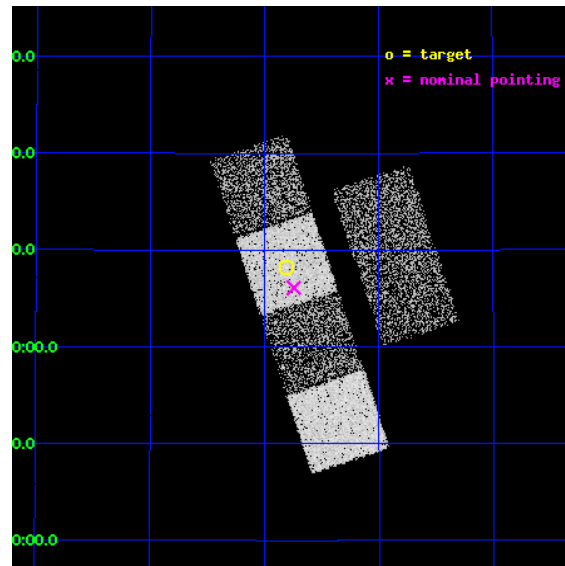
L2 Processing Date : Mar 18 2012

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# 1 Front

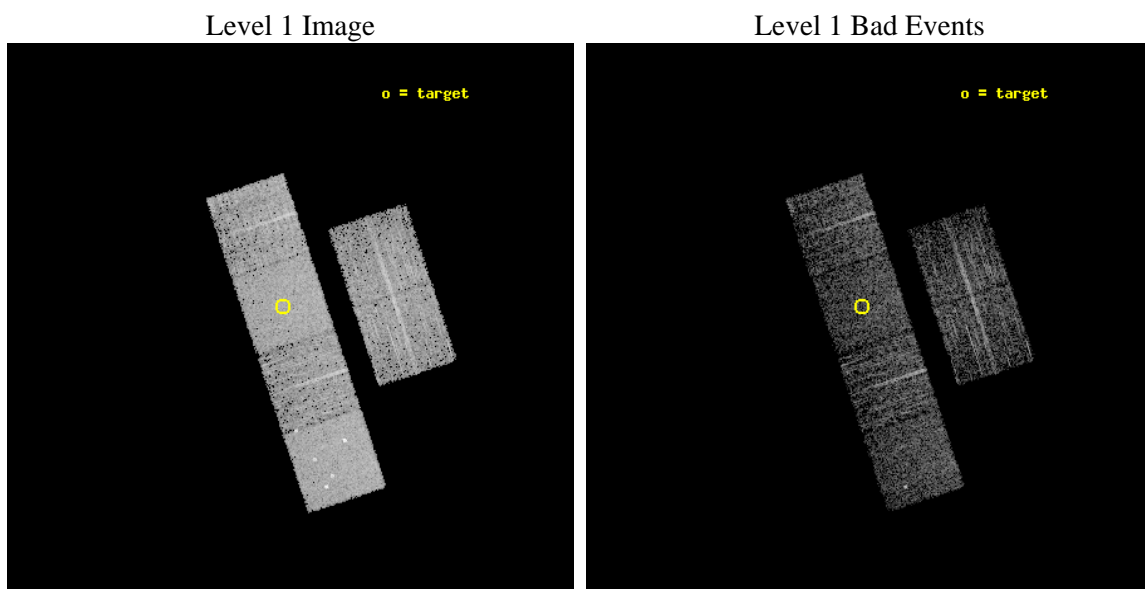
seq_num	600551	Sequence number
obs_id	7113	Observation id
title	A Complete Sample of ULX Host Galaxies	Proposal title
observer	Dr. Douglas Swartz	Principal investigator
object	NGC 0949	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	37.7025	Observer's specified target RA [deg]
dec_targ	37.136694	Observer's specified target Dec [deg]
ra_nom	37.685730034399	Nominal RA [deg]
dec_nom	37.101798574307	Nominal Dec [deg]
roll_nom	251.68285966131	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2732.7999898195	Sum of GTIs [s]
livetime	2698.1956308538	Livetime [s]
ontime2	2732.7999898195	Sum of GTIs [s]
ontime3	2732.7999898195	Sum of GTIs [s]
ontime5	2732.7999898195	Sum of GTIs [s]
ontime6	2732.7999898195	Sum of GTIs [s]
ontime7	2732.7999898195	Sum of GTIs [s]
ontime8	2732.7999898195	Sum of GTIs [s]
l2events	35385	Number of level 2 events



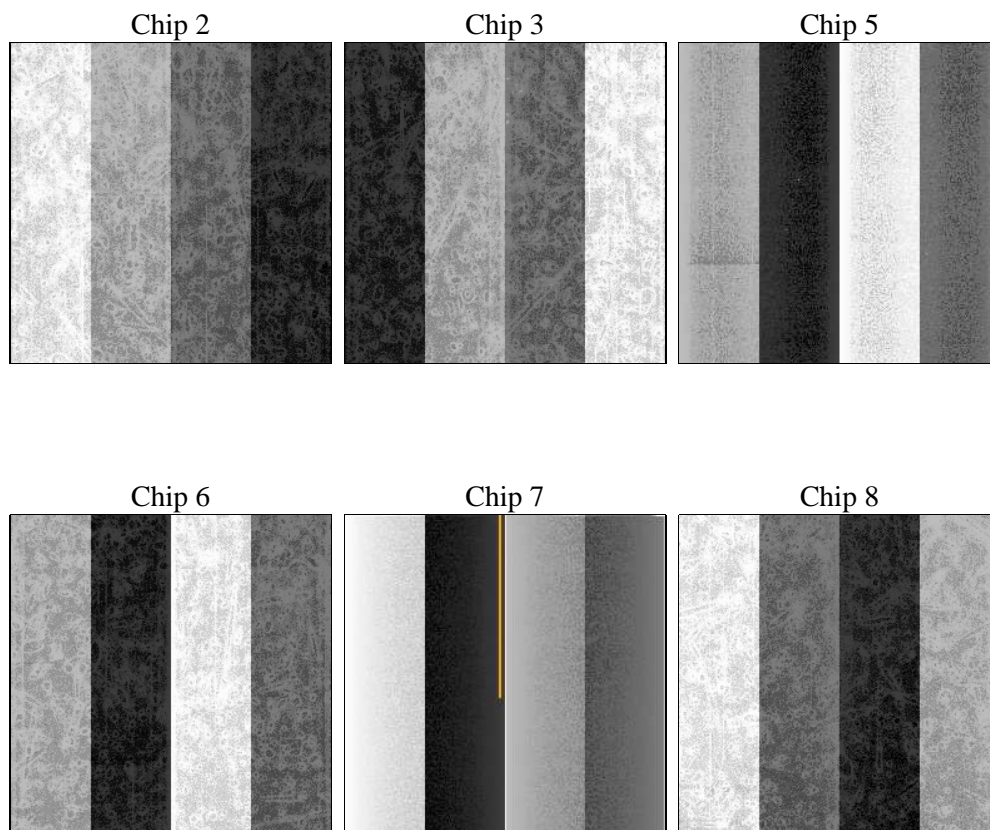
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2550.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	2732.7999898195	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	2732.7999898195	Sum of GTIs [s]
date	2012-03-18T08:09:24	Date and time of file creation	ontime3	2732.7999898195	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	2732.7999898195	Sum of GTIs [s]
			ontime6	2732.7999898195	Sum of GTIs [s]
			ontime7	2732.7999898195	Sum of GTIs [s]
			ontime8	2732.7999898195	Sum of GTIs [s]
			l1events	173618	Number of level 1 events

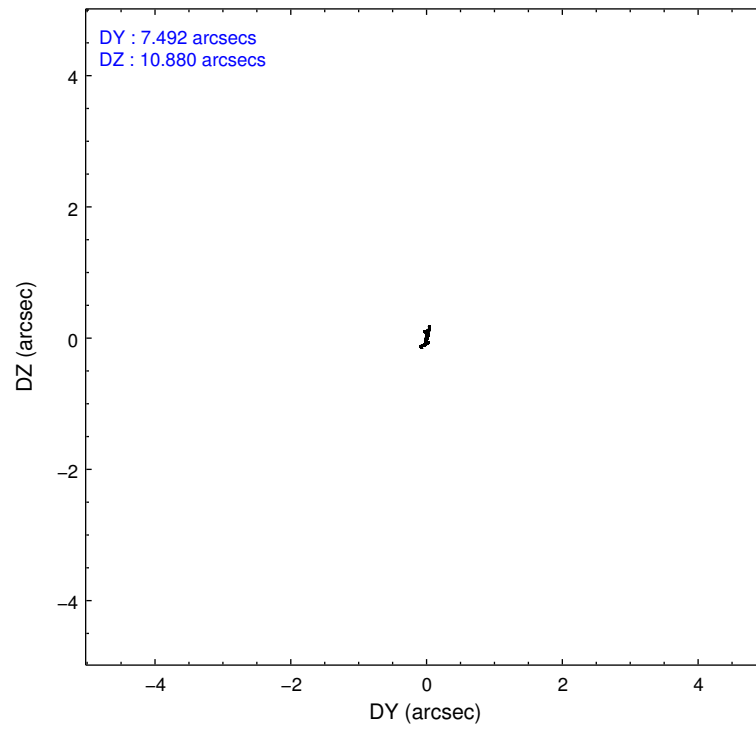
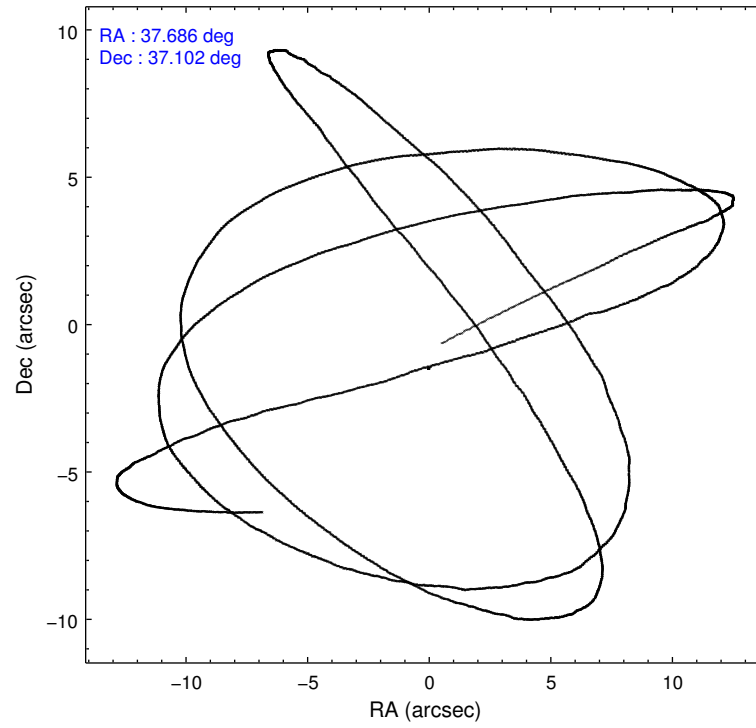
### 2.1.4 Events

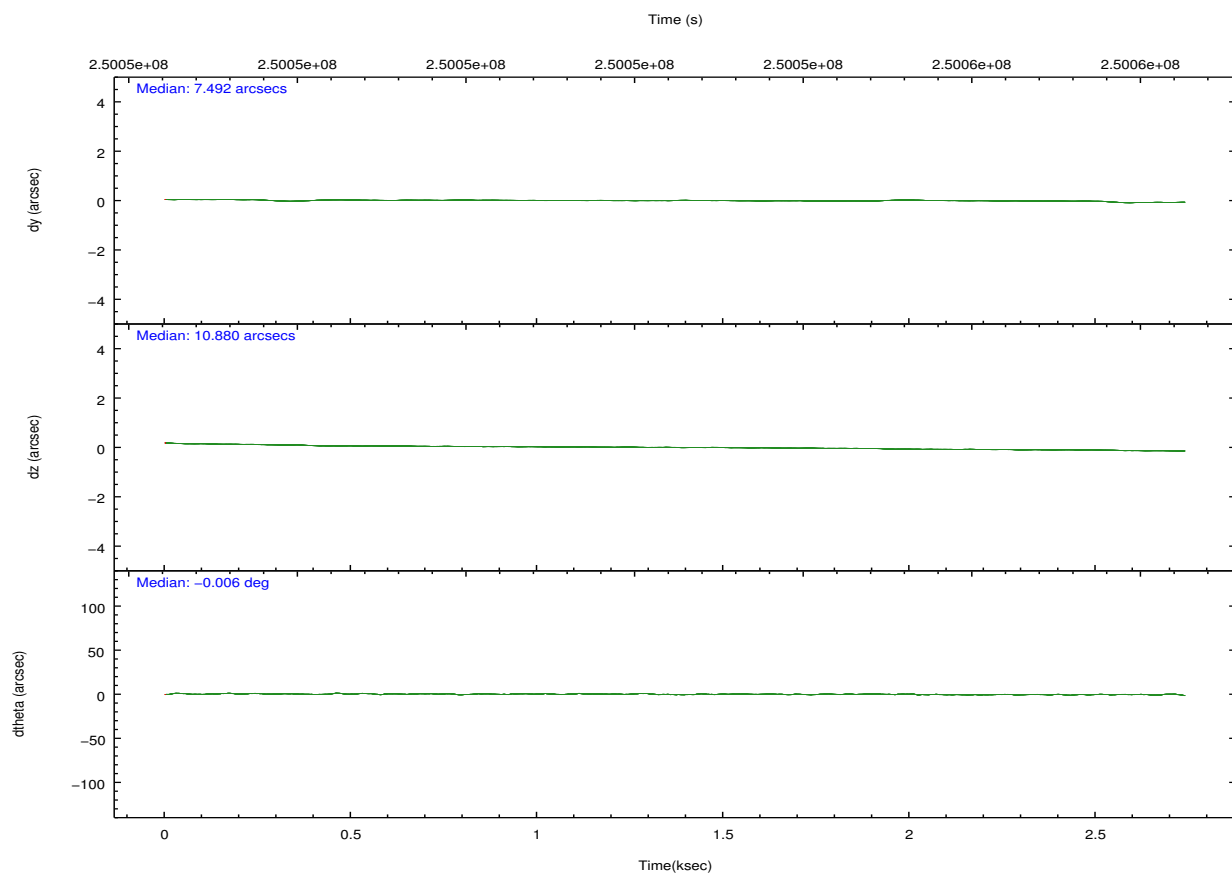
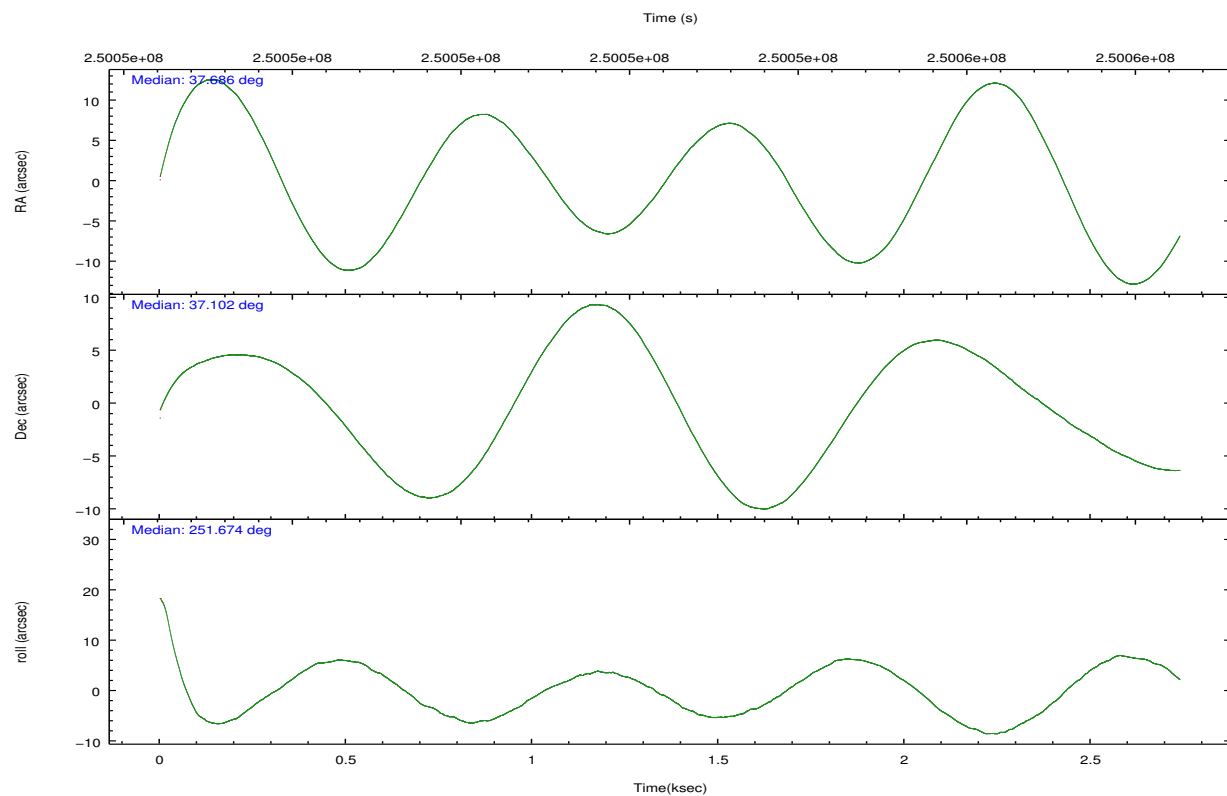
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	25440	23195	38148	24465	33018	29352	grade 0 events	1290	1208	2651	1112	1178	2093
rejected events	22886	20619	21808	21912	20767	23469		5%	5%	6%	4%	3%	7%
rejected %	89%	88%	57%	89%	62%	79%	grade 1 events	14	10	62	9	37	16
								0%	0%	0%	0%	0%	0%
							grade 2 events	571	547	5148	616	2744	1408
								2%	2%	13%	2%	8%	4%
							grade 3 events	264	292	702	255	1139	754
								1%	1%	1%	1%	3%	2%
							grade 4 events	261	306	619	271	1175	650
								1%	1%	1%	1%	3%	2%
							grade 5 events	961	1104	2766	1142	3151	1409
								3%	4%	7%	4%	9%	4%
							grade 6 events	437	502	8973	604	7295	1581
								1%	2%	23%	2%	22%	5%
							grade 7 events	21642	19226	17227	20456	16299	21441
								85%	82%	45%	83%	49%	73%

## 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	37.678294	37.68573003439946	Subarray requested	NONE	NONE
[deg] Pointing Dec	37.128385	37.10179857430711	Alternating exposures requested	N	N
[deg] Pointing Roll	251.530647	251.6828596613105	[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)	250052945.184000	250051724.17947			
Observation start date	2005-12-04T03:08:01	2005-12-04T02:48:44			
[s] Observation end time (MET)	250055495.184000	250055696.05466			
Observation end date	2005-12-04T03:50:31	2005-12-04T03:54:56			
Read mode	TIMED	TIMED			

## 2.3 Aspect





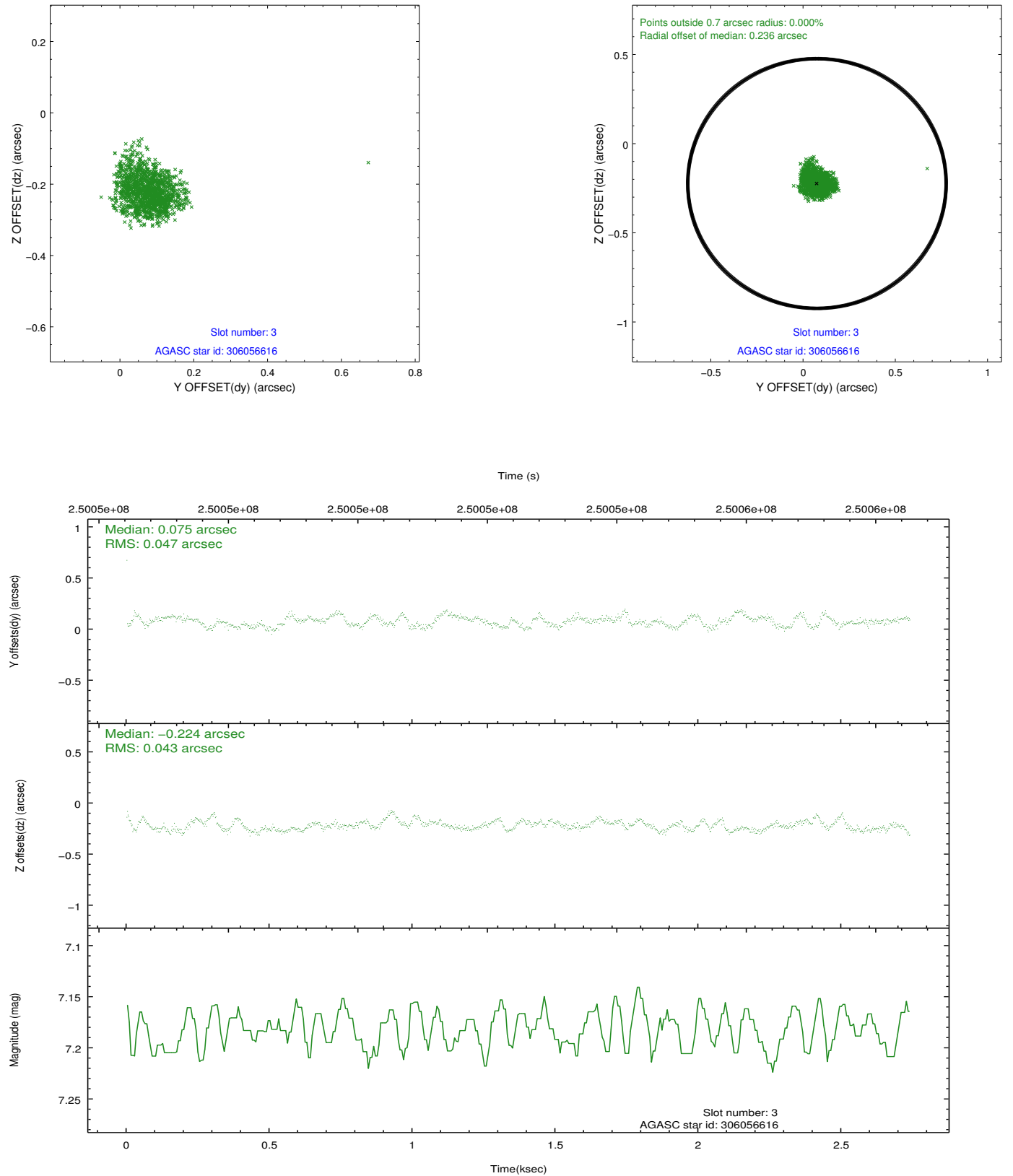
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	669	0.010	-0.068	0.008	0.013	0.000000	0.000000	935.79	-1727.79
1	FID	ACIS-S-4	7.21	669	0.070	0.046	0.007	0.011	0.000000	0.000000	2154.56	174.07
2	FID	ACIS-S-5	7.24	669	-0.108	0.034	0.006	0.011	0.000000	0.000000	-1810.19	170.29
3	GUIDE	306056616	7.18	1337	0.075	-0.224	0.066	0.104	37.281184	37.329736	-328.97	-1308.66
4	GUIDE	306062792	7.71	1337	-0.012	-0.029	0.063	0.100	38.232538	37.333625	-1207.74	1268.39
5	GUIDE	306067192	6.05	1337	-0.131	0.079	0.048	0.088	36.812013	36.967305	1328.31	-2182.00
6	GUIDE	306067960	8.93	1337	0.064	0.113	0.074	0.120	38.187538	36.521033	1604.52	2087.64
7	GUIDE	306191648	9.09	1335	0.008	0.060	0.070	0.116	38.355104	37.225519	-951.57	1728.69

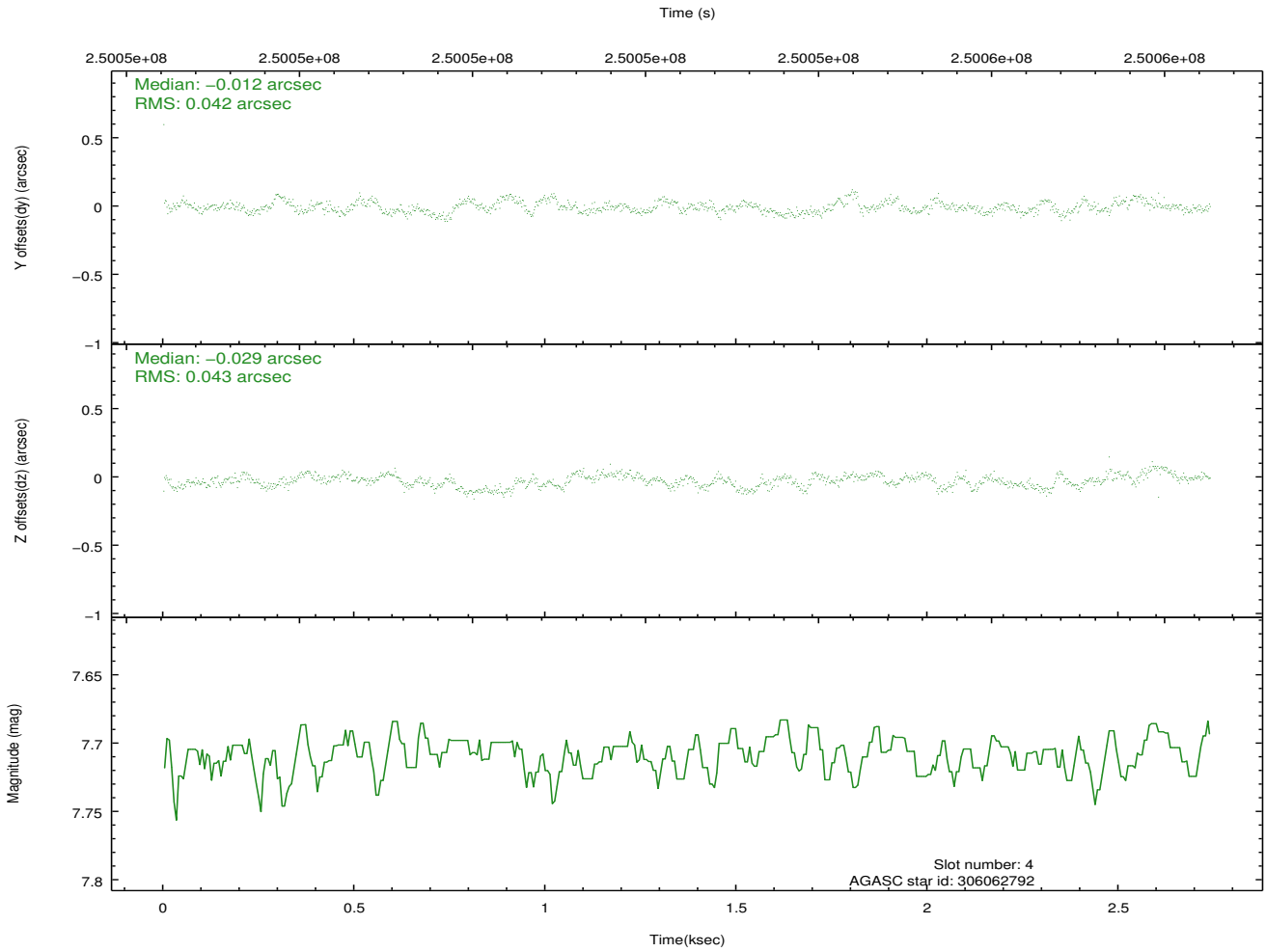
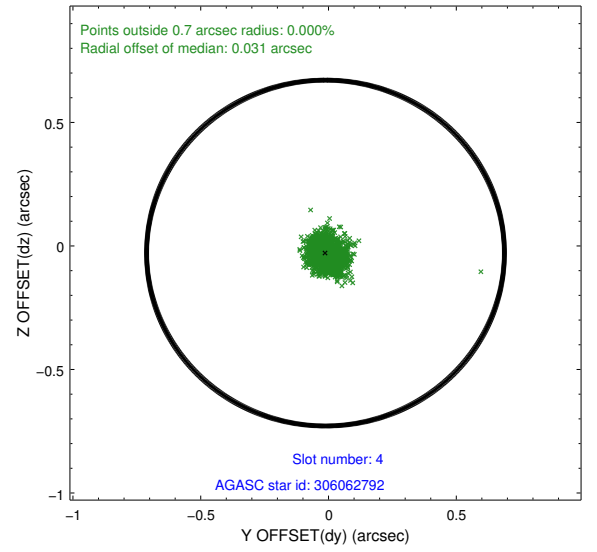
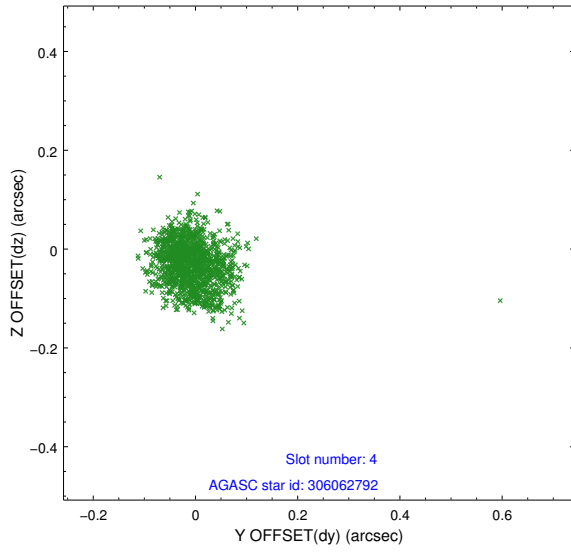


## 2.4 Star Slots

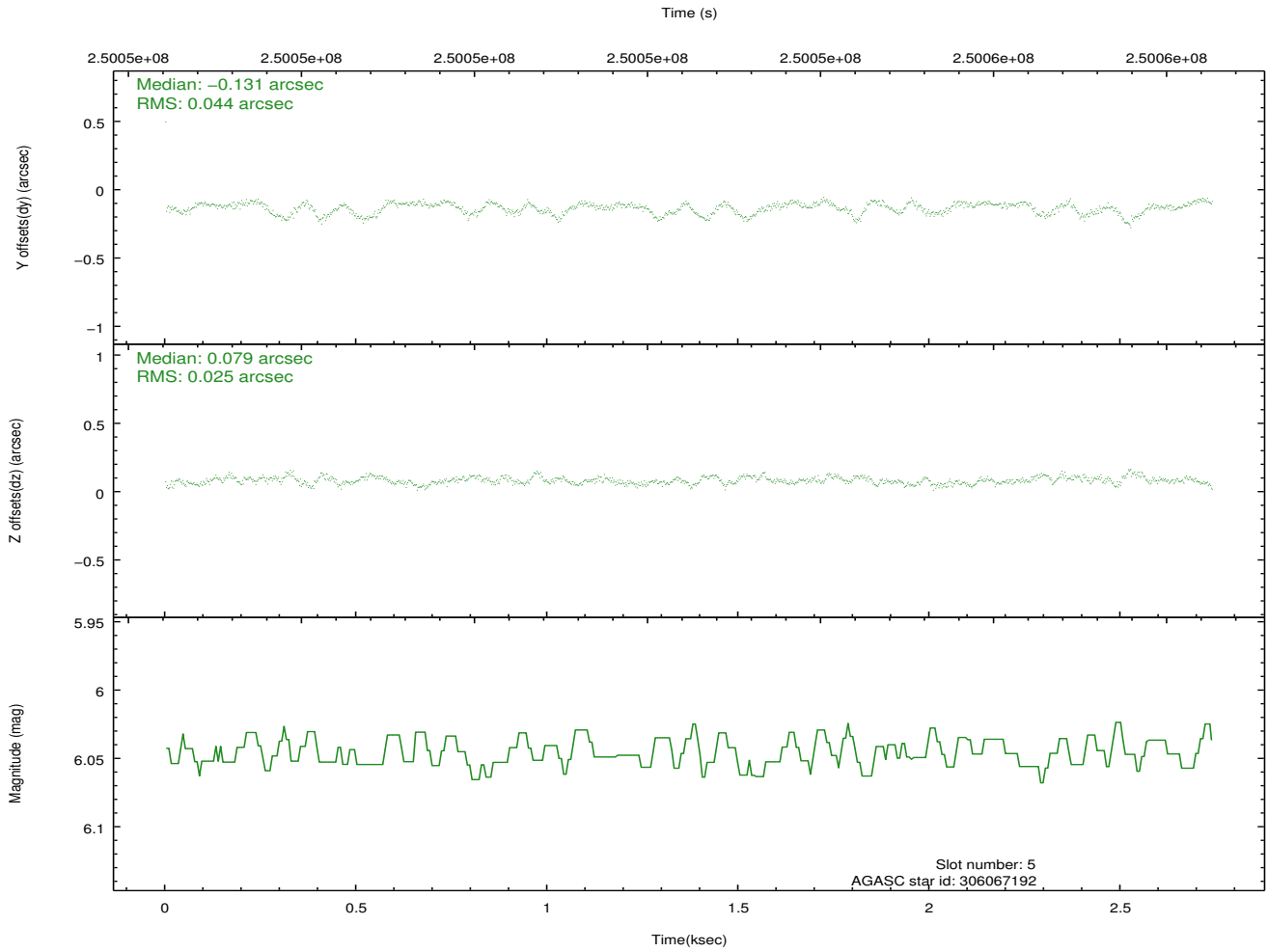
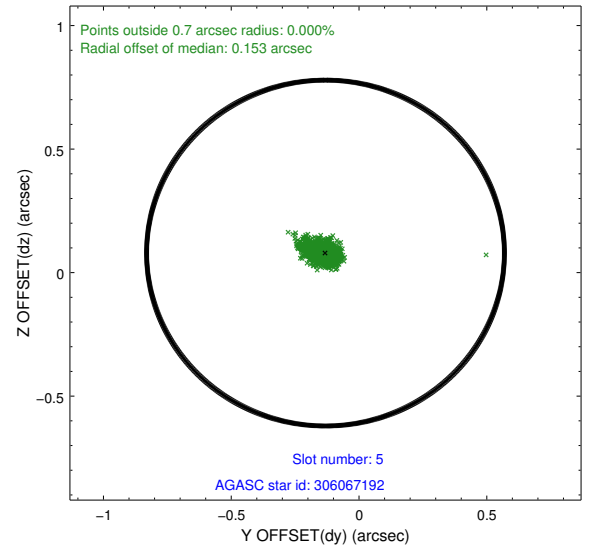
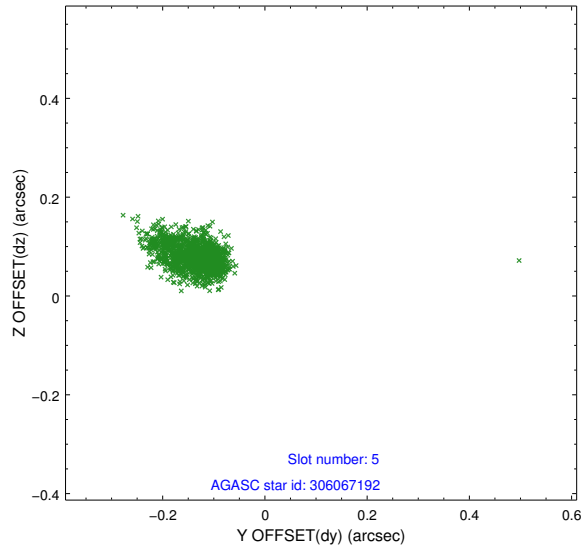
### 2.4.1 Slot 3



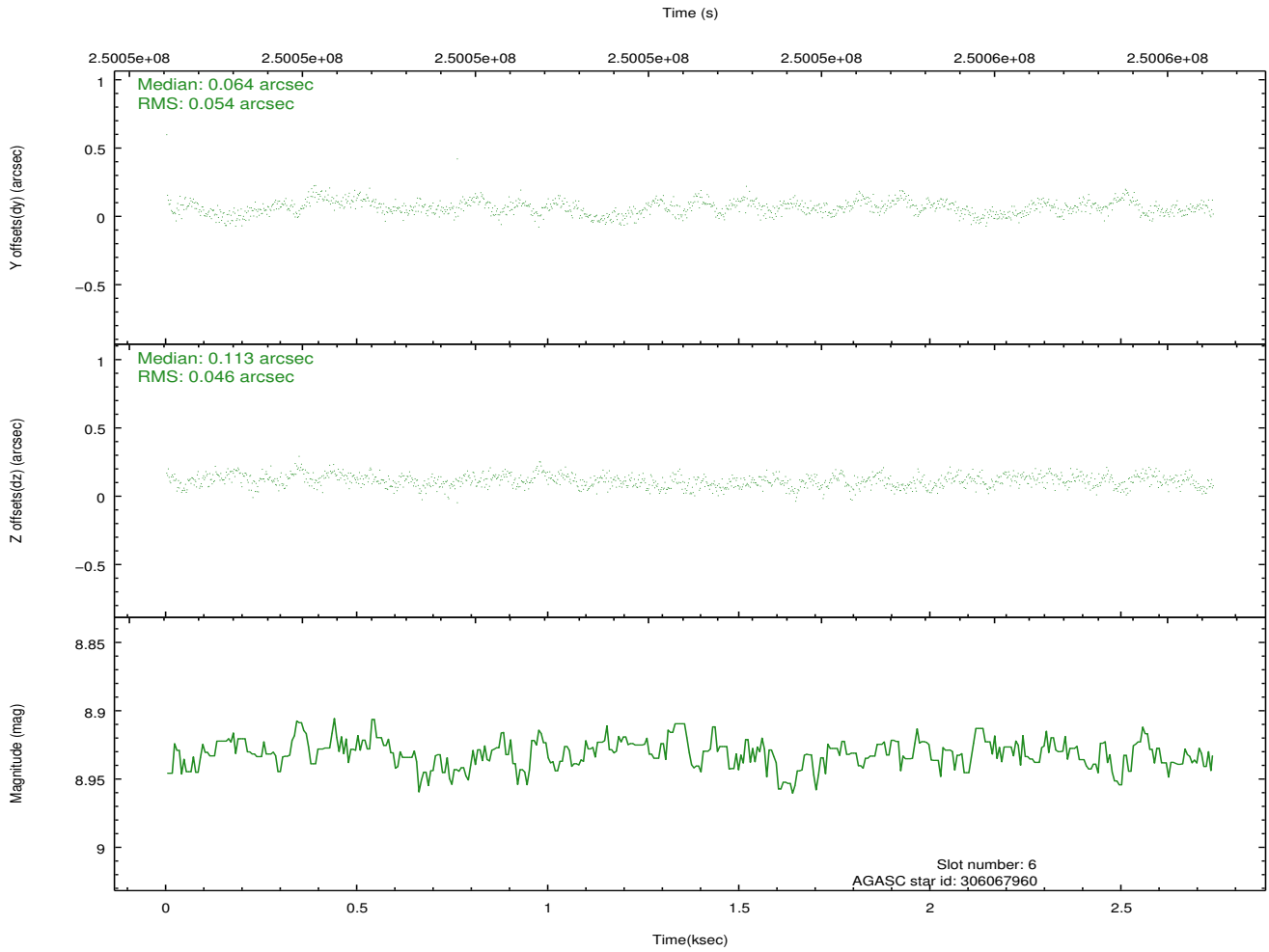
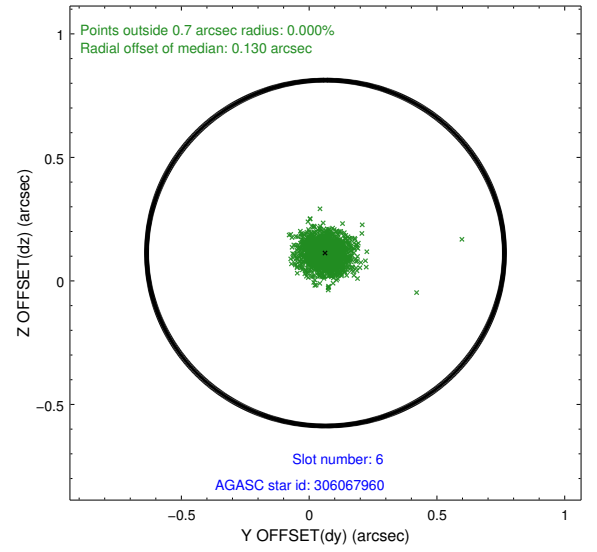
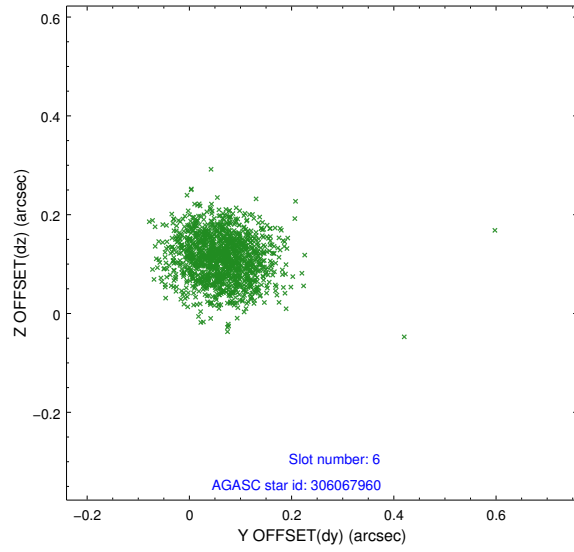
## 2.4.2 Slot 4



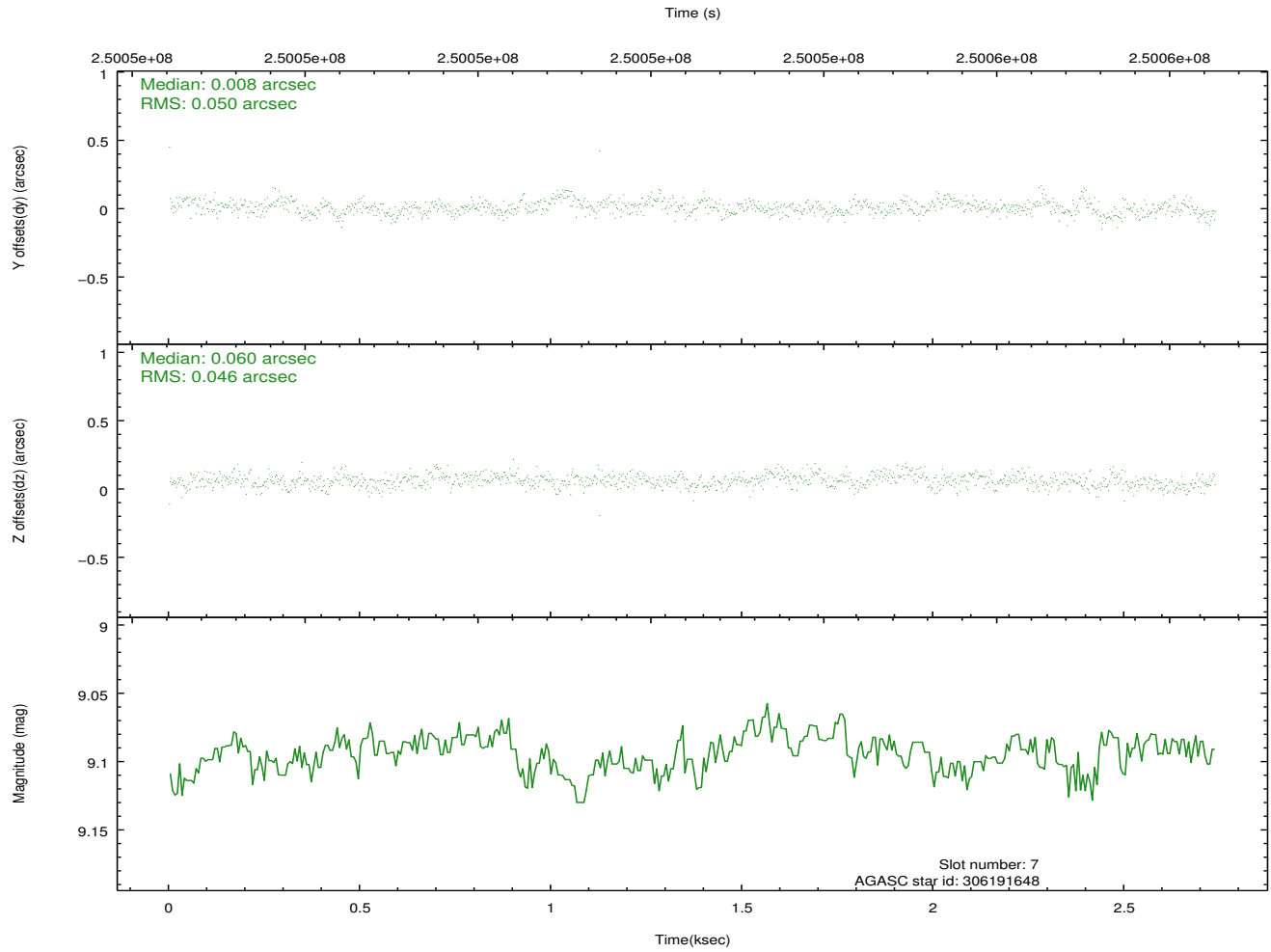
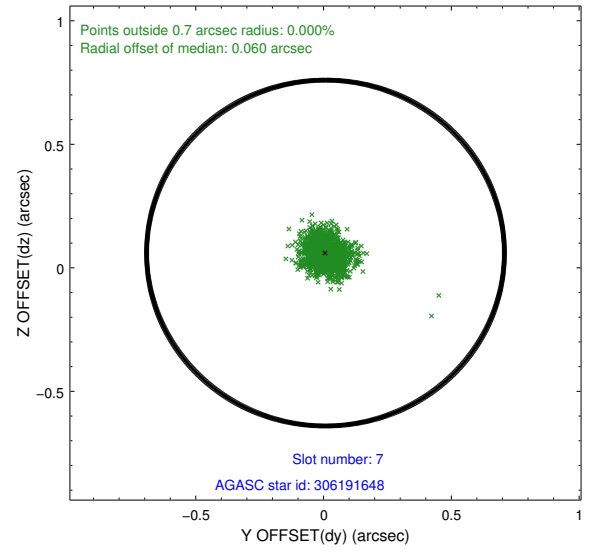
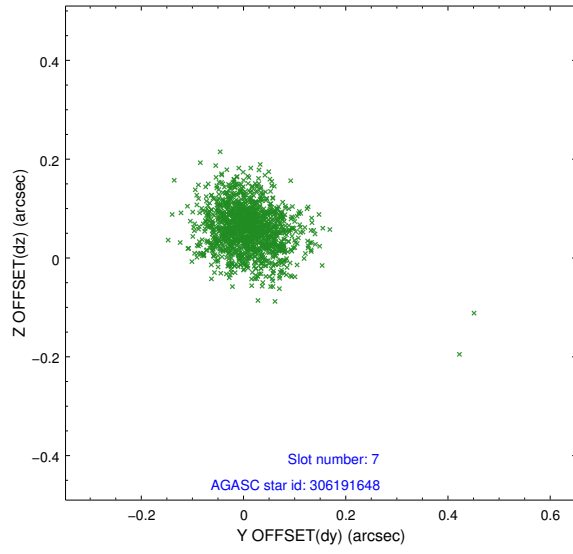
### 2.4.3 Slot 5



## 2.4.4 Slot 6

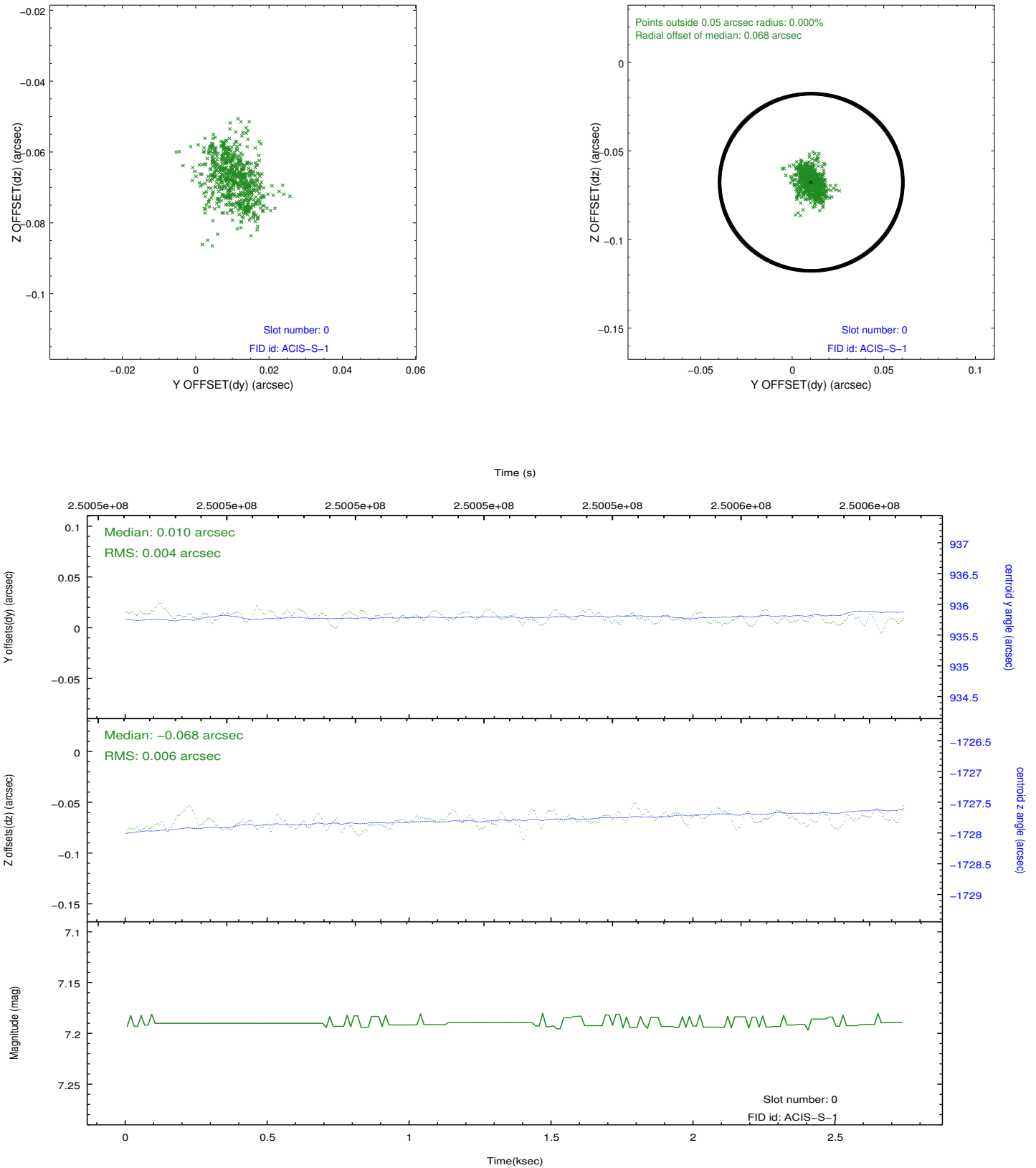


## 2.4.5 Slot 7

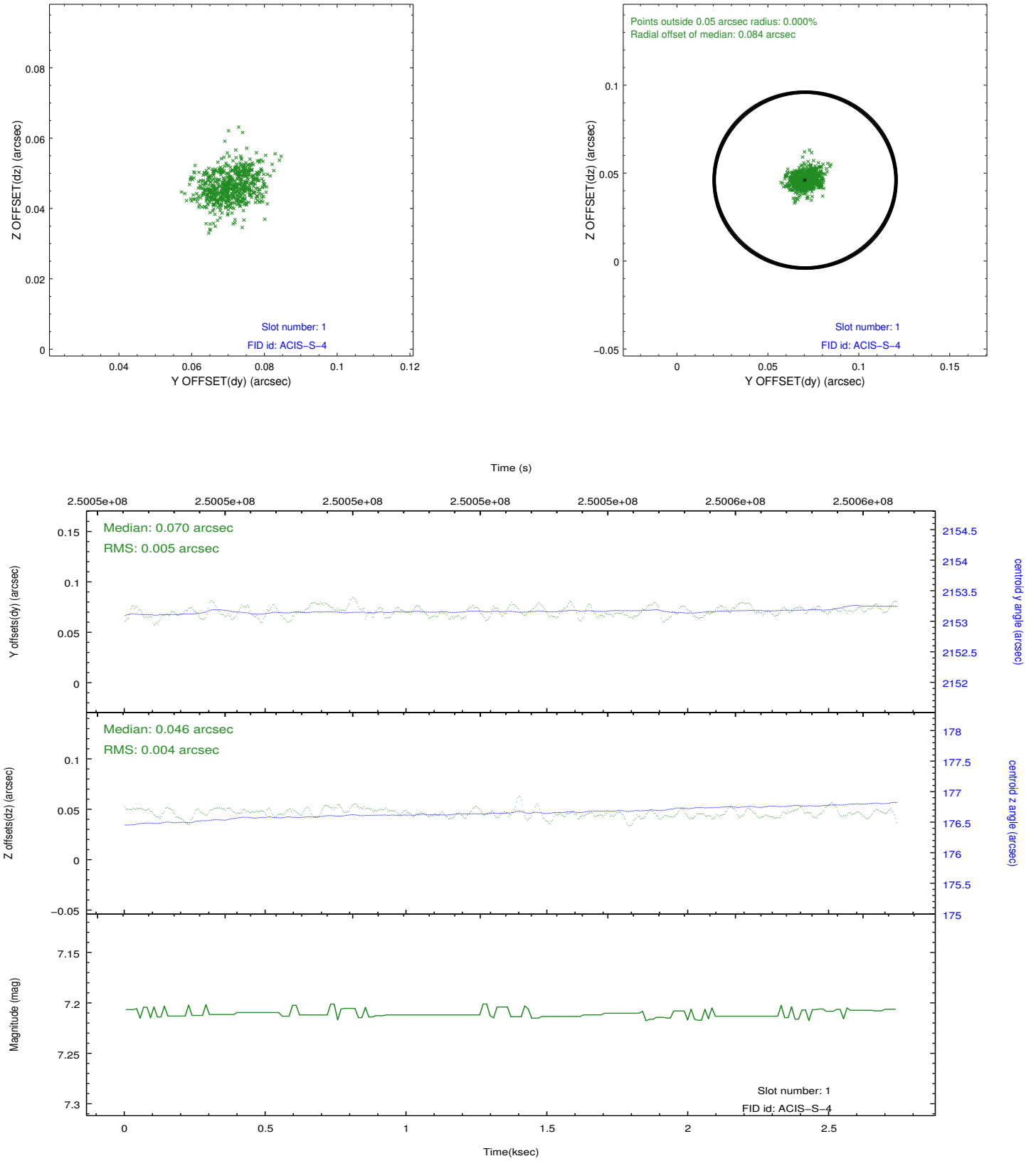


## 2.5 FID Slots

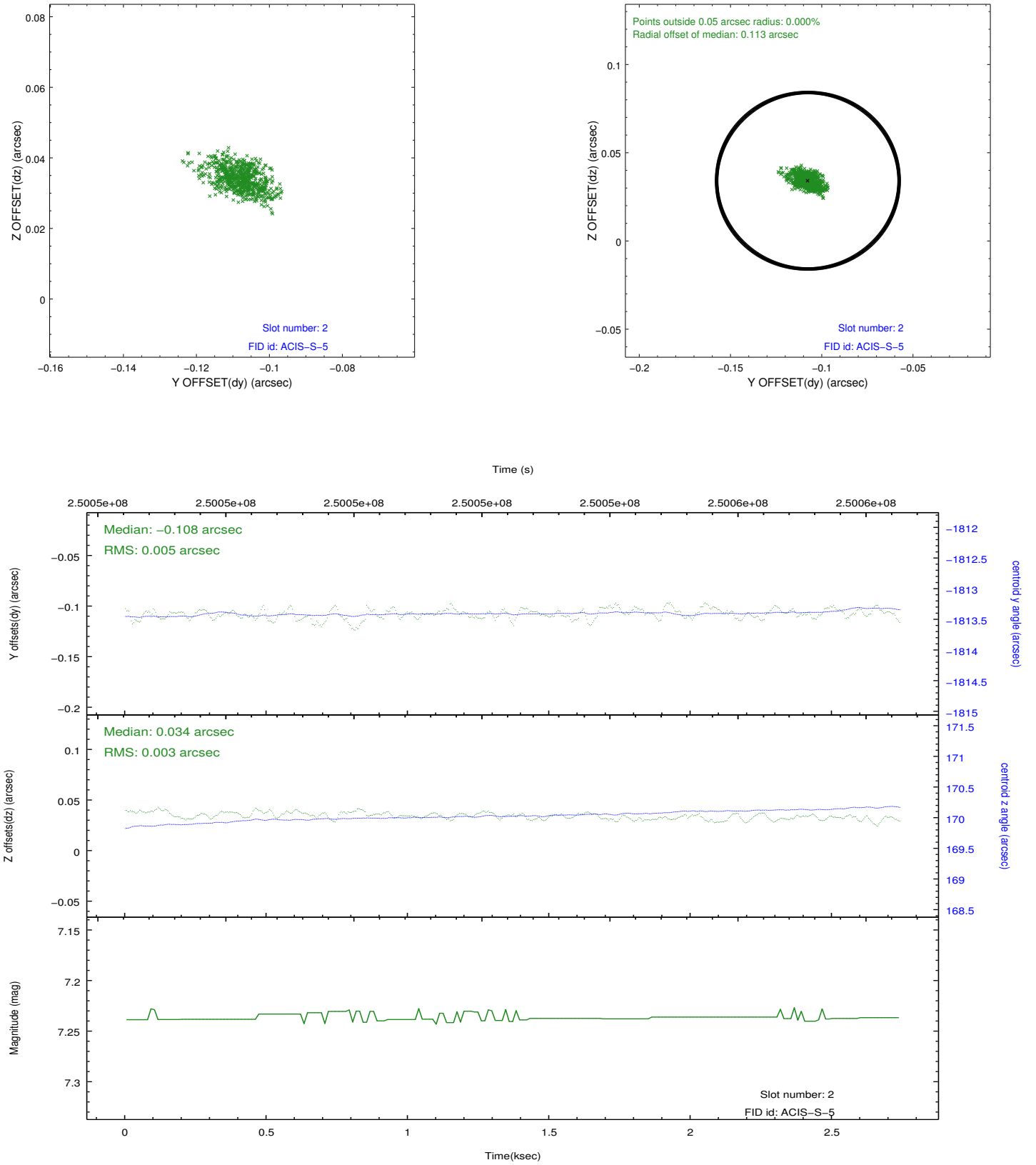
### 2.5.1 Slot 0



## 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)	2012.03.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.732799

### A.2 Comments