

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3312 - L2 Version 4  
Chandra X-Ray Center

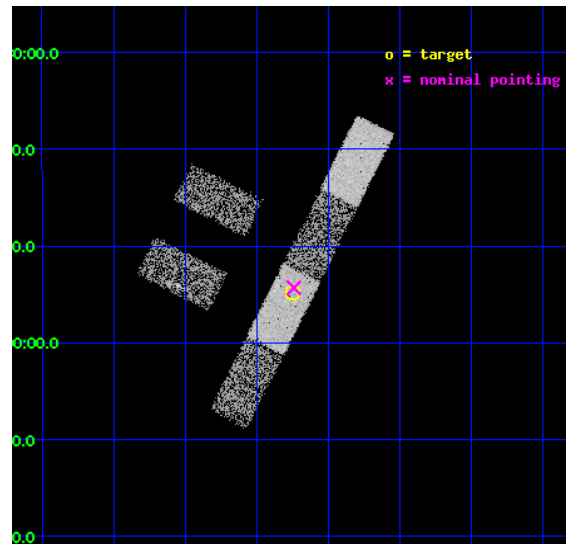
L2 Processing Date : Oct 9 2012

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# 1 Front

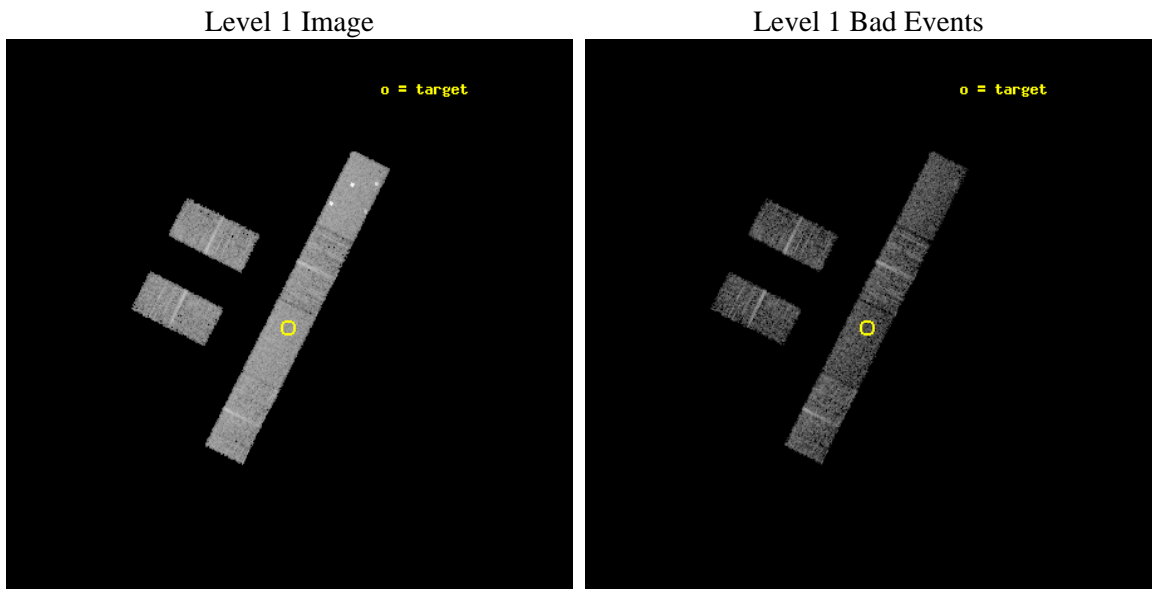
seq_num	900151	Sequence number
obs_id	3312	Observation id
title	THE SHEEP SURVEY: WHAT KIND OF OBJECTS MAKE THE X-RAY BACKGROUND?	&#160
observer	Prof Kirpal Nandra	Principal investigator
object	AX J0146.2-0354	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	26.5625	Observer's specified target RA [deg]
dec_targ	-3.914722	Observer's specified target Dec [deg]
ra_nom	26.559661227758	Nominal RA [deg]
dec_nom	-3.9054413262278	Nominal Dec [deg]
roll_nom	116.80831369817	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5401.8000357747	Sum of GTIs [s]
livetime	5281.3844698619	Livetime [s]
ontime2	5401.8000357747	Sum of GTIs [s]
ontime3	5401.8000357747	Sum of GTIs [s]
ontime5	5401.8000357747	Sum of GTIs [s]
ontime6	5401.8000357747	Sum of GTIs [s]
ontime7	5401.8000357747	Sum of GTIs [s]
ontime8	5401.8000357747	Sum of GTIs [s]
l2events	28703	Number of level 2 events



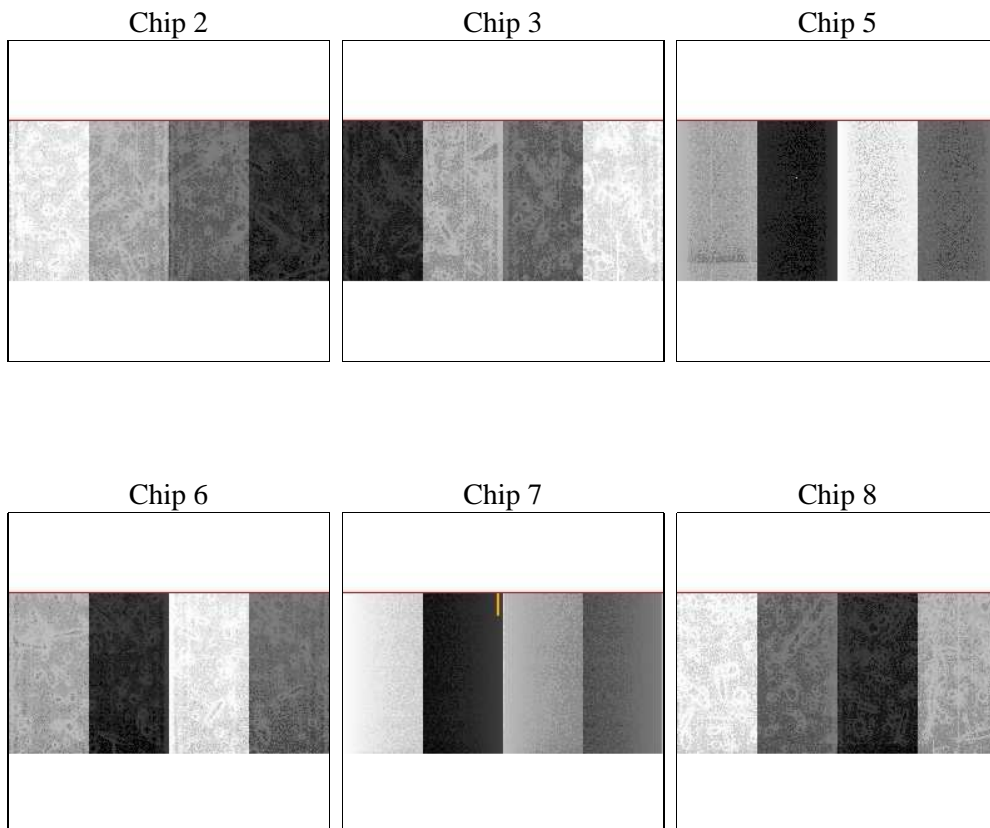
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5401.8000357747	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime2	5401.8000357747	Sum of GTIs [s]
date	2012-10-10T01:00:12	Date and time of file creation	ontime3	5401.8000357747	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	5401.8000357747	Sum of GTIs [s]
			ontime6	5401.8000357747	Sum of GTIs [s]
			ontime7	5401.8000357747	Sum of GTIs [s]
			ontime8	5401.8000357747	Sum of GTIs [s]
			l1events	139508	Number of level 1 events

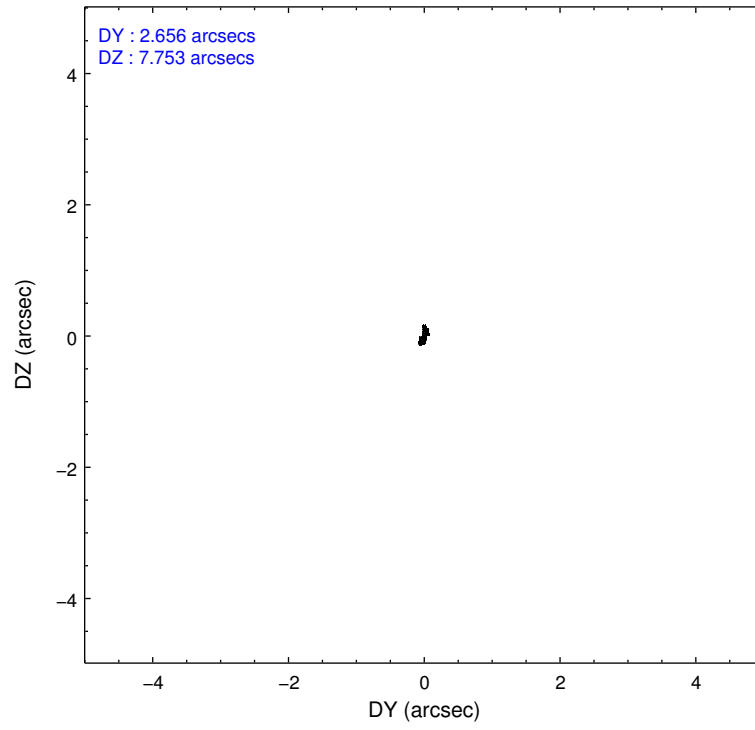
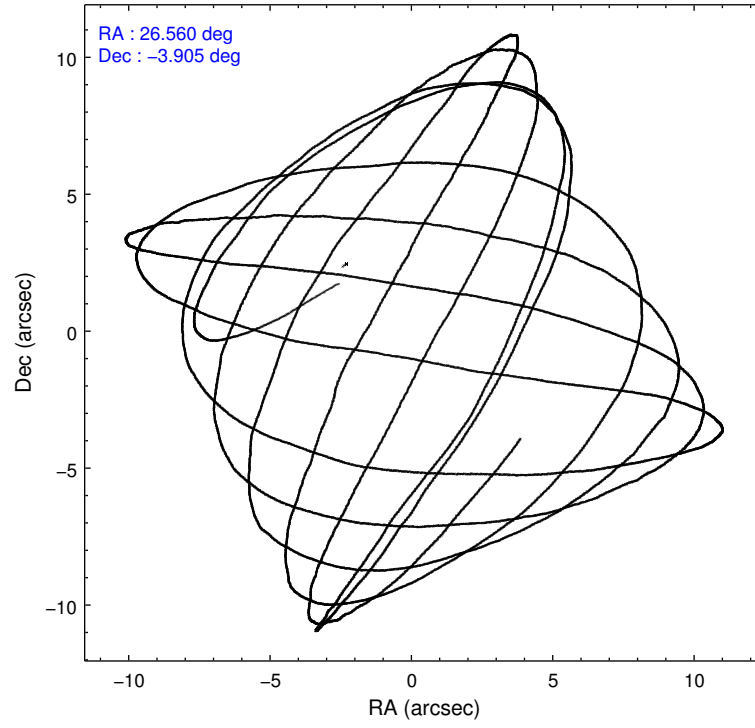
### 2.1.4 Events

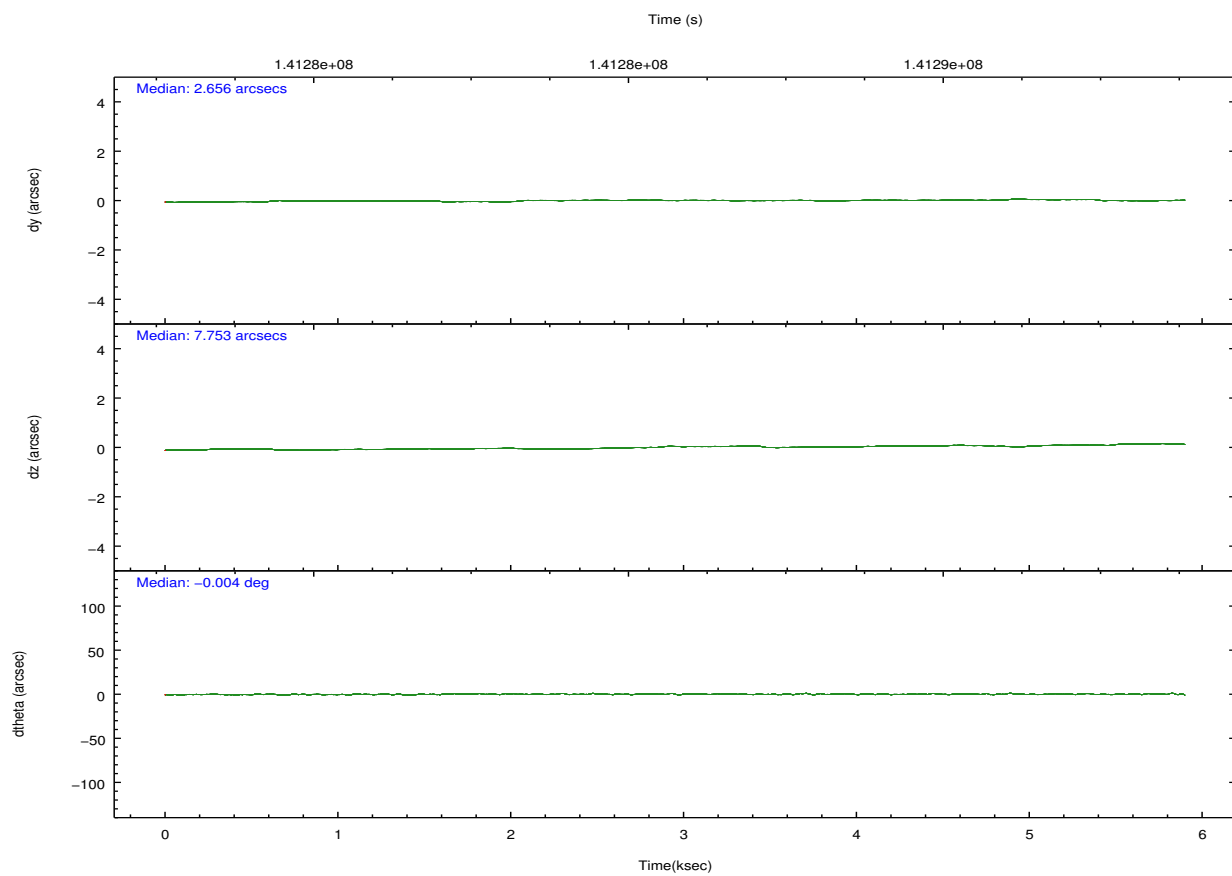
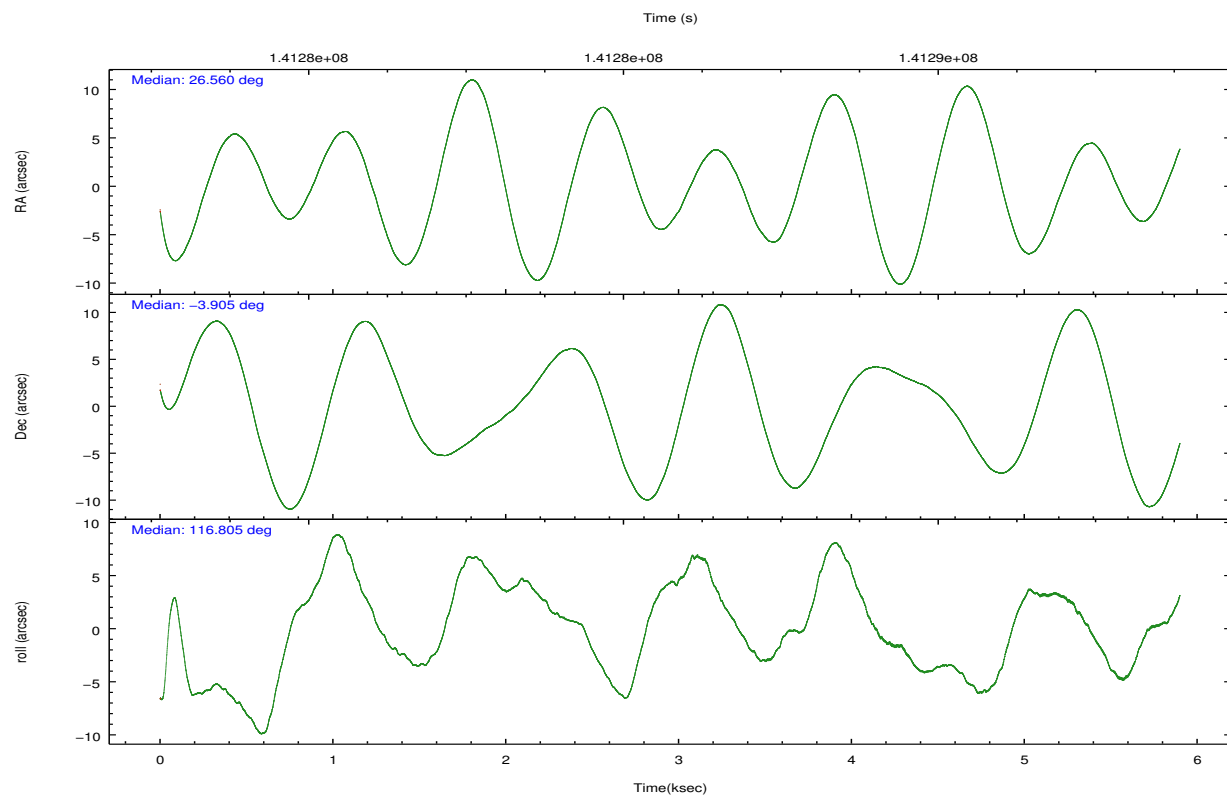
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	19467	18663	31596	21011	24192	24579	grade 0 events	886	916	6257	854	992	1295
rejected events	17267	16466	14442	18770	14047	20057		4%	4%	19%	4%	4%	5%
rejected %	88%	88%	45%	89%	58%	81%	grade 1 events	13	4	93	8	15	10
								0%	0%	0%	0%	0%	0%
							grade 2 events	470	388	3608	424	2058	1045
								2%	2%	11%	2%	8%	4%
							grade 3 events	229	264	710	281	1024	466
								1%	1%	2%	1%	4%	1%
							grade 4 events	249	256	601	281	979	440
								1%	1%	1%	1%	4%	1%
							grade 5 events	679	756	2126	793	2450	1042
								3%	4%	6%	3%	10%	4%
							grade 6 events	367	376	5984	406	5097	1278
								1%	2%	18%	1%	21%	5%
							grade 7 events	16574	15703	12217	17964	11577	19003
								85%	84%	38%	85%	47%	77%

## 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	26.582755	26.55966122775803	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-3.920059	-3.905441326227779	Subarray start row	257	257
[deg] Pointing Roll	116.653294	116.8083136981747	Subarray row count	512	512
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1.8
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	141282246.184000	141280930.85987			
Observation start date	2002-06-24T05:03:02	2002-06-24T04:42:10			
[s] Observation end time (MET)	141287246.184000	141287699.96015			
Observation end date	2002-06-24T06:26:22	2002-06-24T06:34:59			
Read mode	TIMED	TIMED			

## 2.3 Aspect



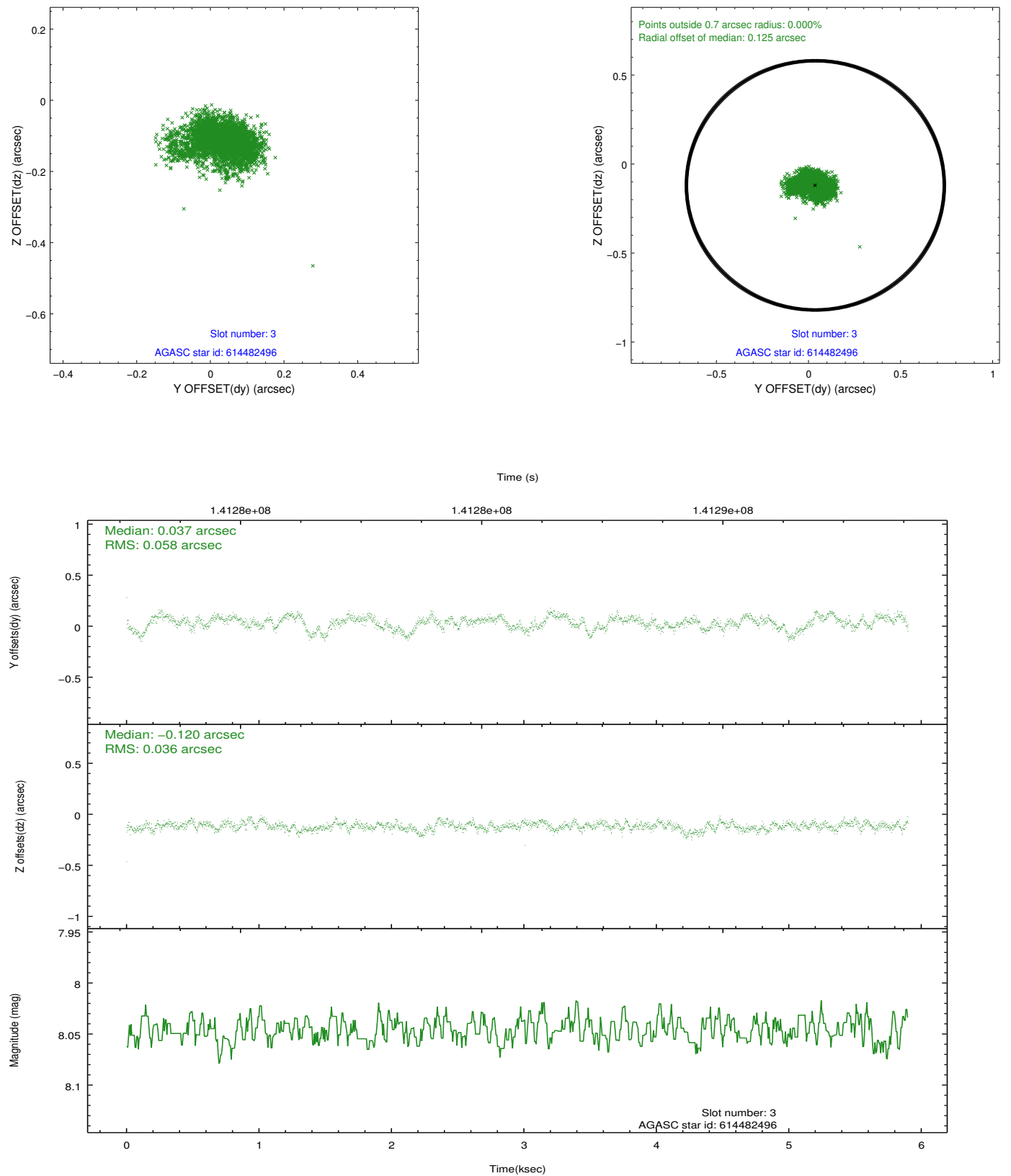


### Slot Statistics

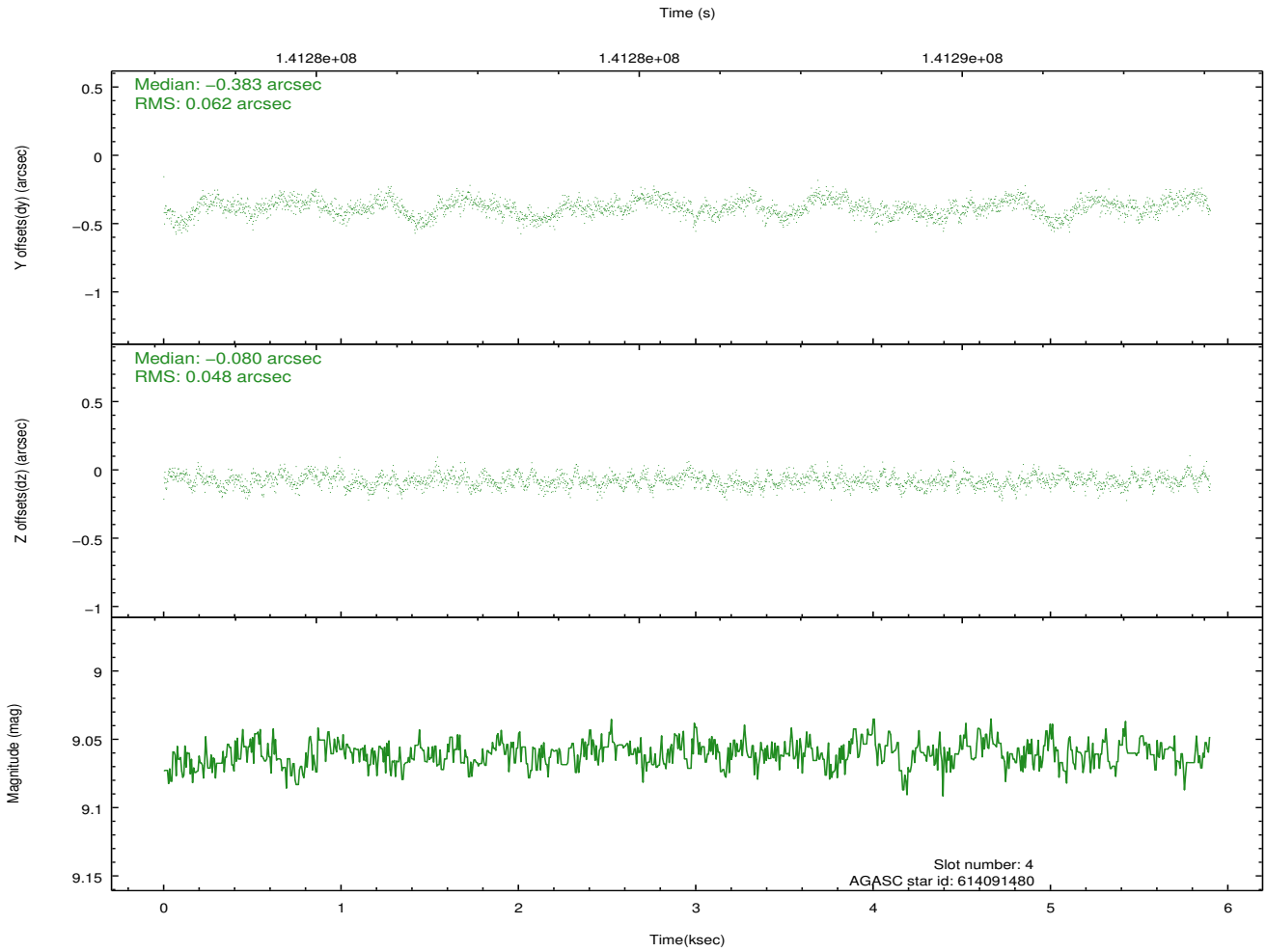
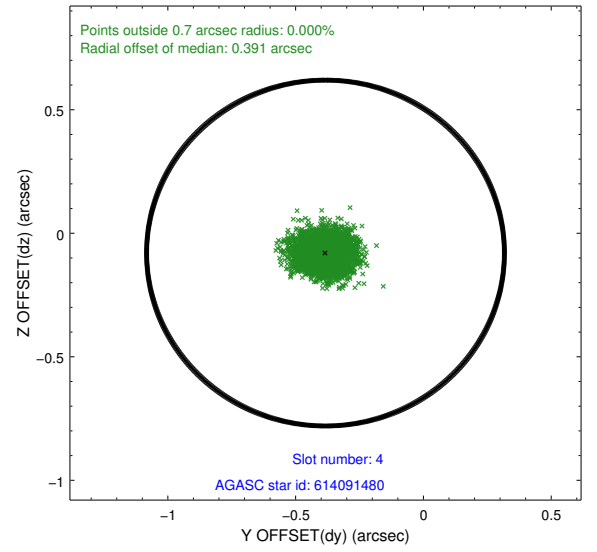
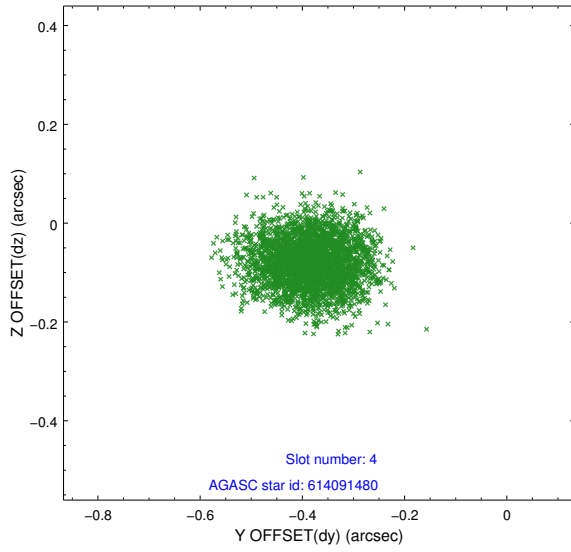
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1440	-0.006	0.006	0.006	0.011	0.000000	0.000000	-755.30	-1728.87
1	FID	ACIS-S-4	7.20	1440	-0.045	0.001	0.005	0.010	0.000000	0.000000	2157.49	178.55
2	FID	ACIS-S-5	7.24	1440	0.020	0.001	0.006	0.011	0.000000	0.000000	-1806.81	173.39
3	GUIDE	614482496	8.05	2878	0.037	-0.120	0.071	0.123	26.490453	-4.228669	-843.83	795.06
4	GUIDE	614091480	9.06	2878	-0.383	-0.080	0.085	0.134	26.132254	-3.473629	2162.03	726.97
5	GUIDE	614481432	9.98	2875	0.034	0.218	0.163	0.278	27.272366	-3.963222	-1249.51	-2142.25
6	GUIDE	614480960	10.17	2876	0.308	0.079	0.201	0.427	27.041824	-4.322525	-2034.13	-822.91
7	GUIDE	614222728	10.35	2855	-0.040	-0.103	0.156	0.247	26.333919	-3.641995	1295.37	350.27

## 2.4 Star Slots

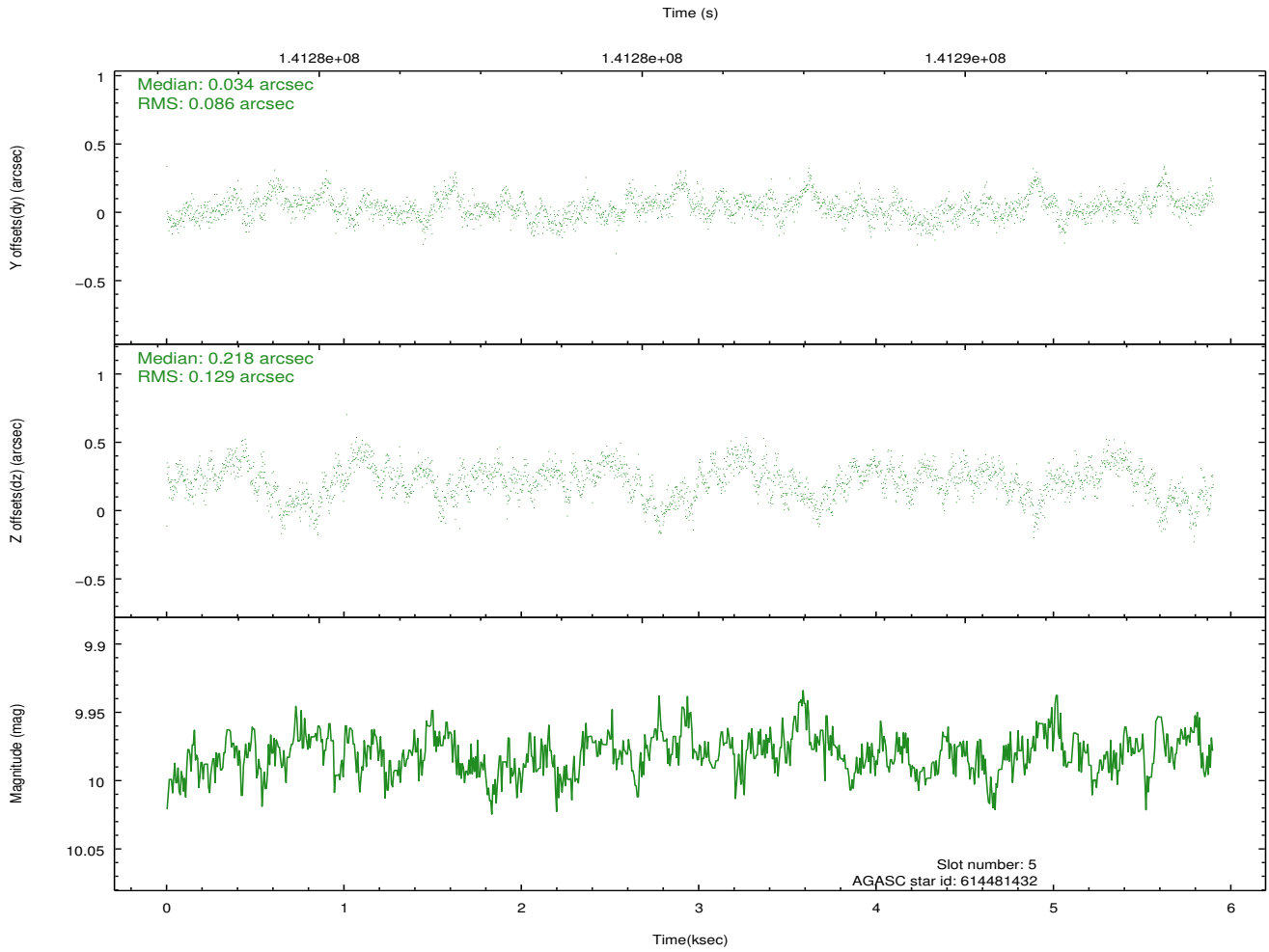
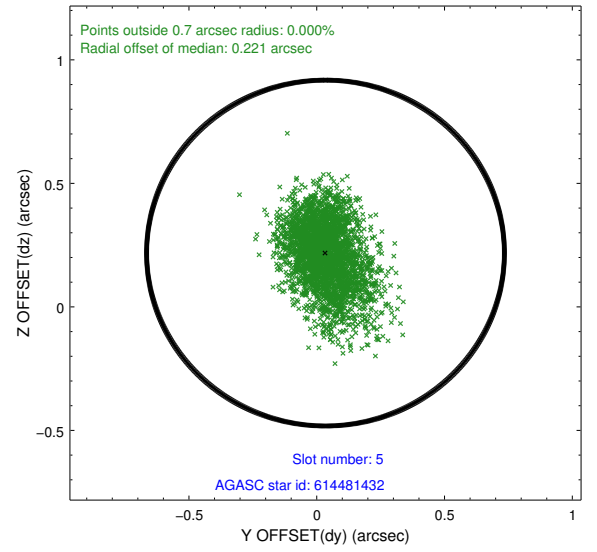
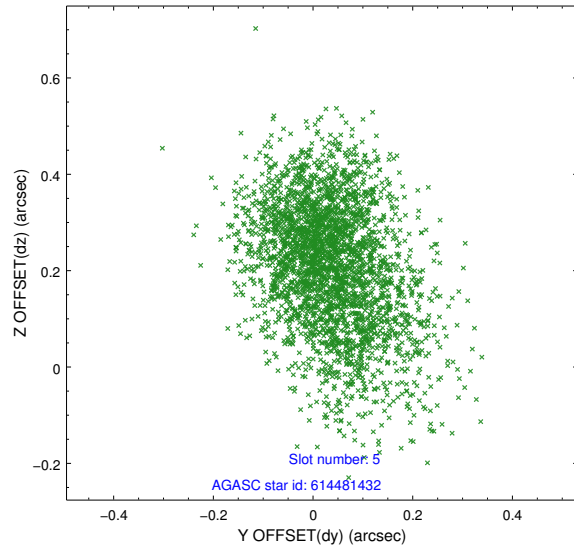
### 2.4.1 Slot 3



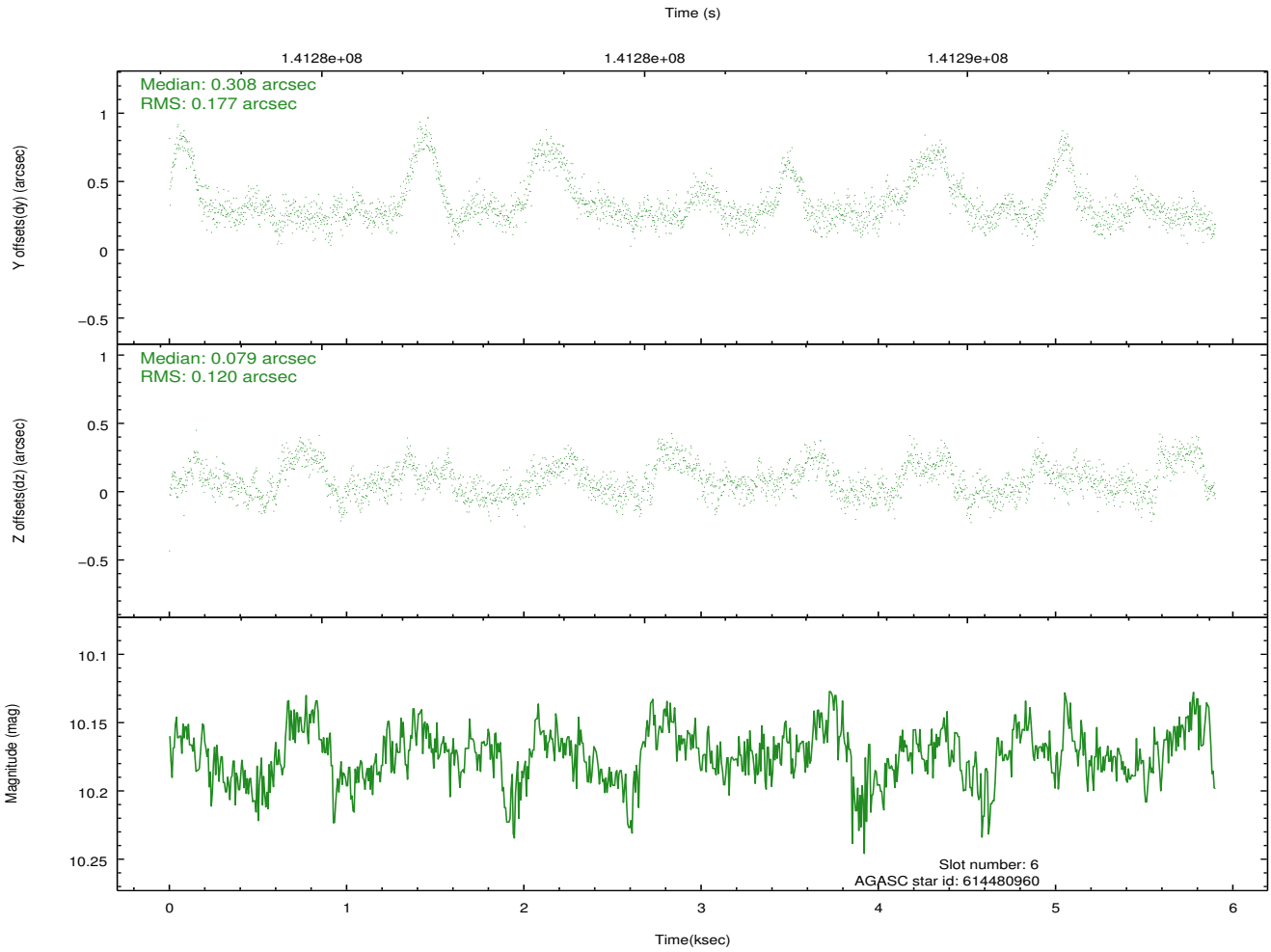
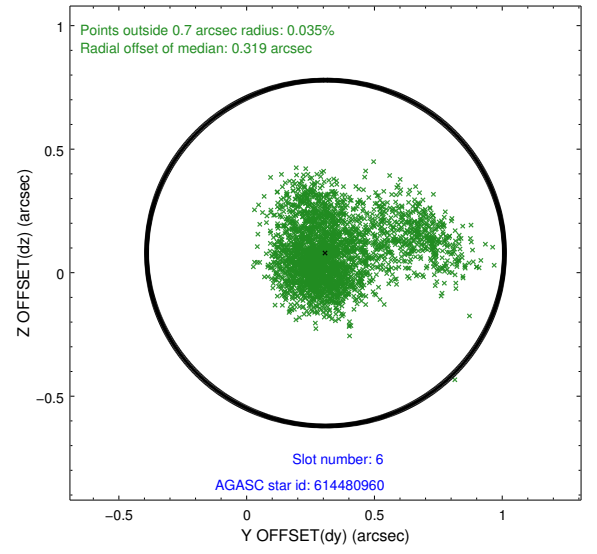
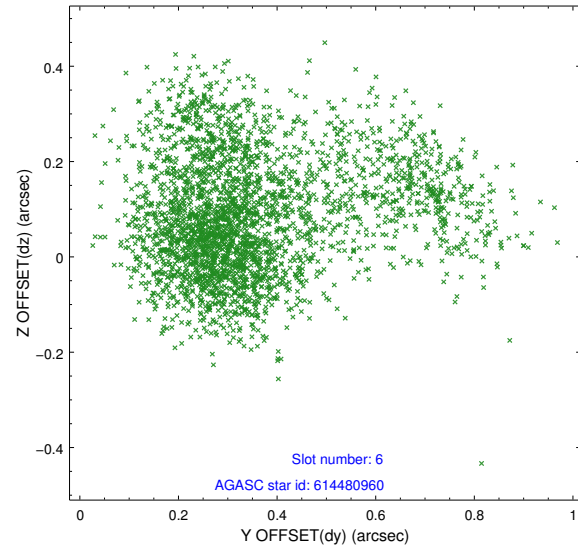
## 2.4.2 Slot 4



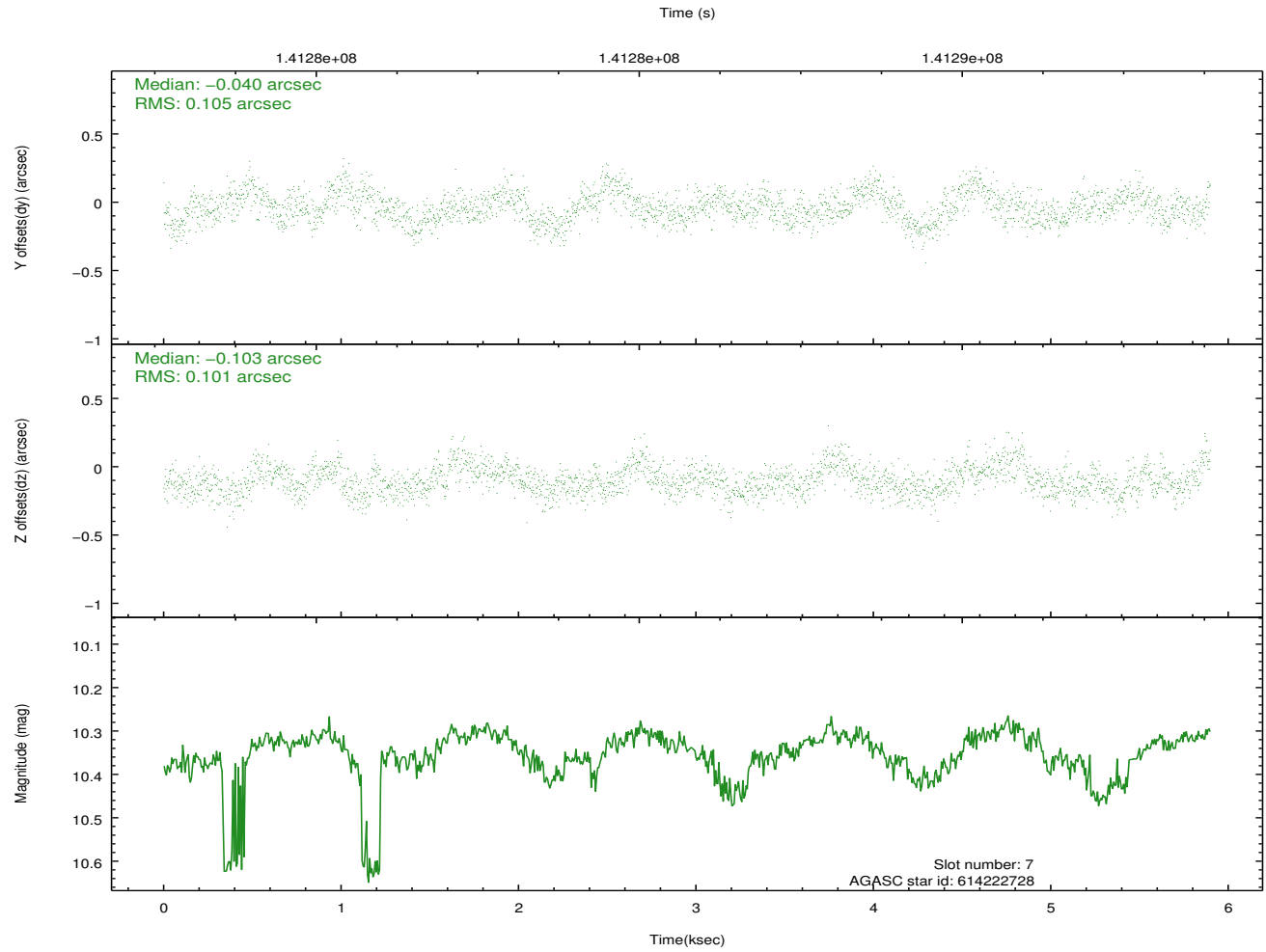
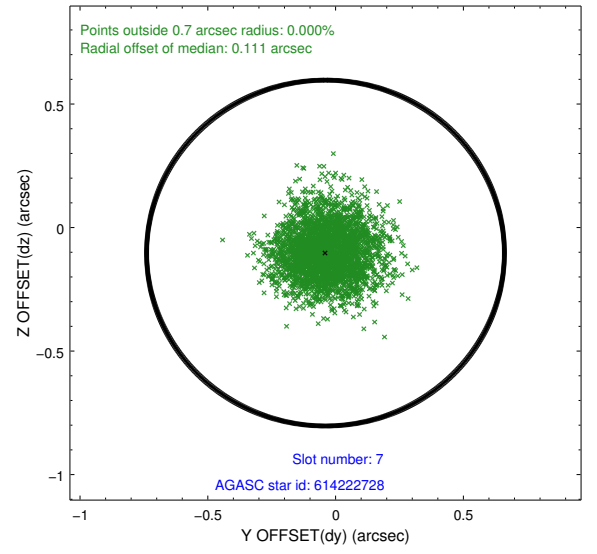
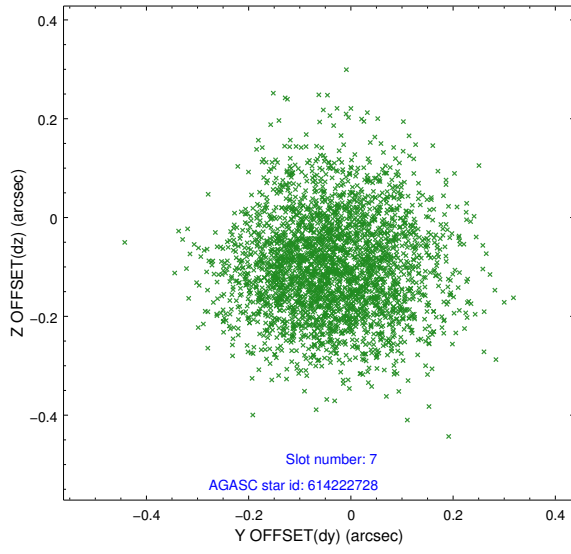
### 2.4.3 Slot 5



## 2.4.4 Slot 6

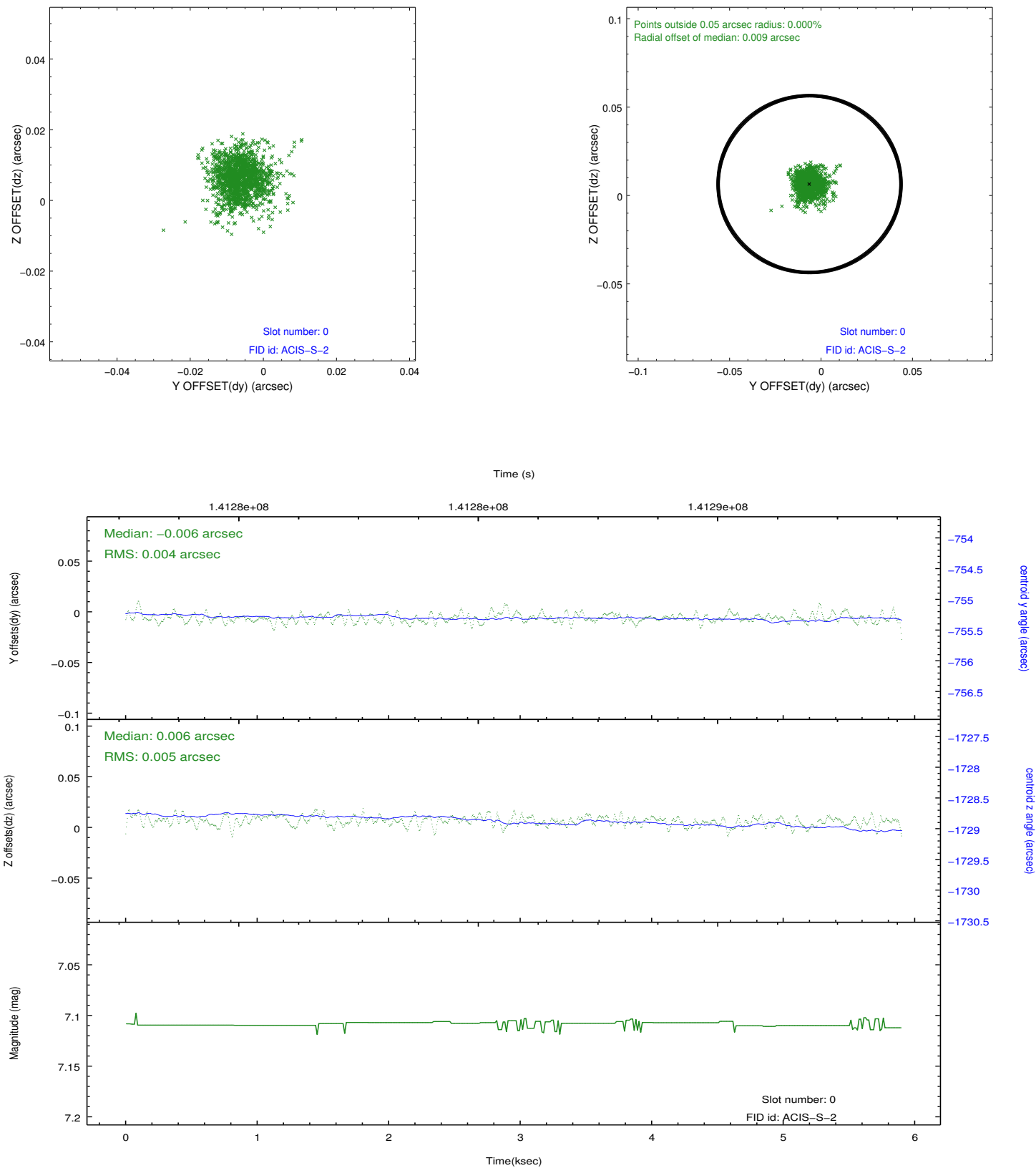


## 2.4.5 Slot 7

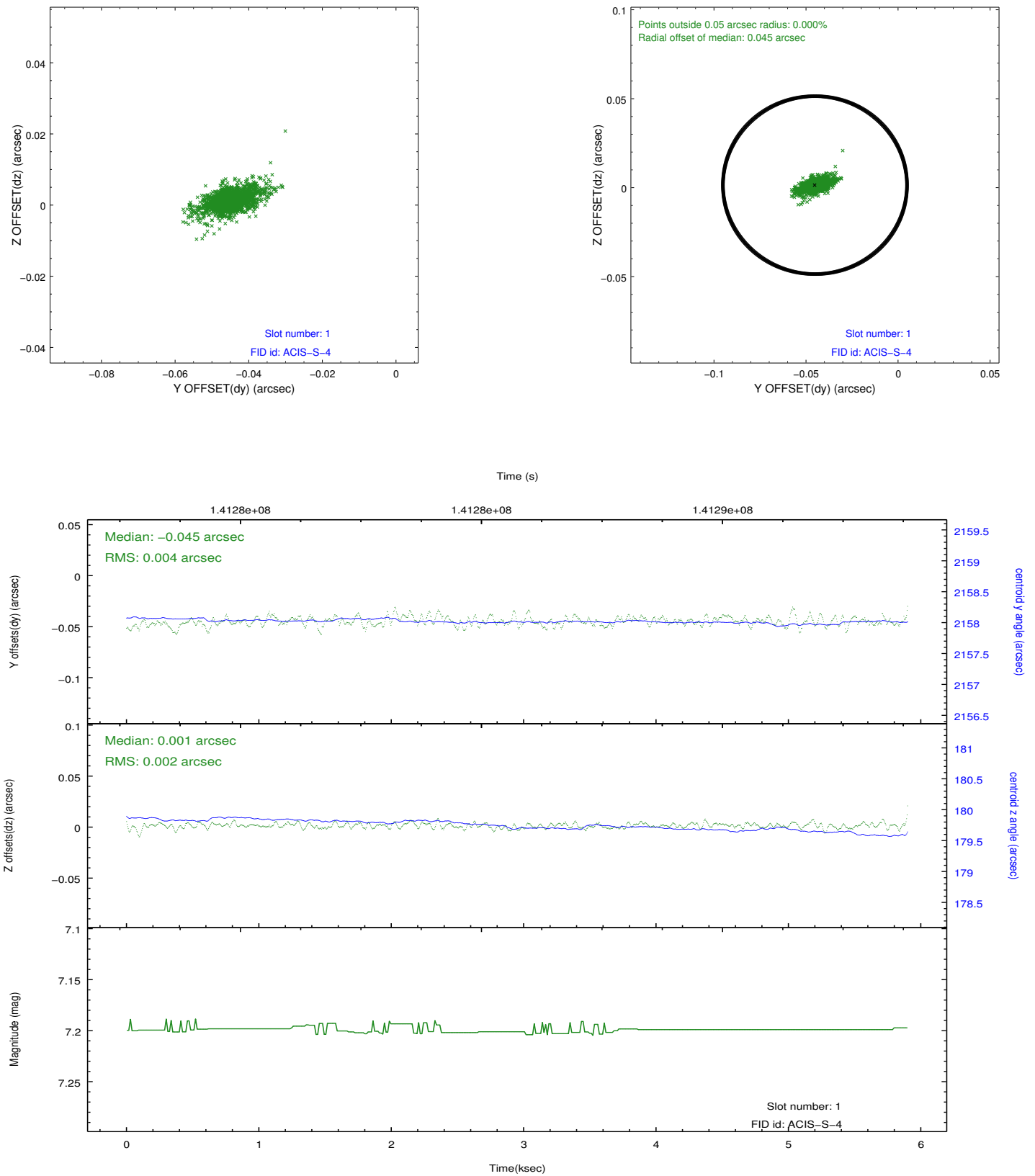


## 2.5 FID Slots

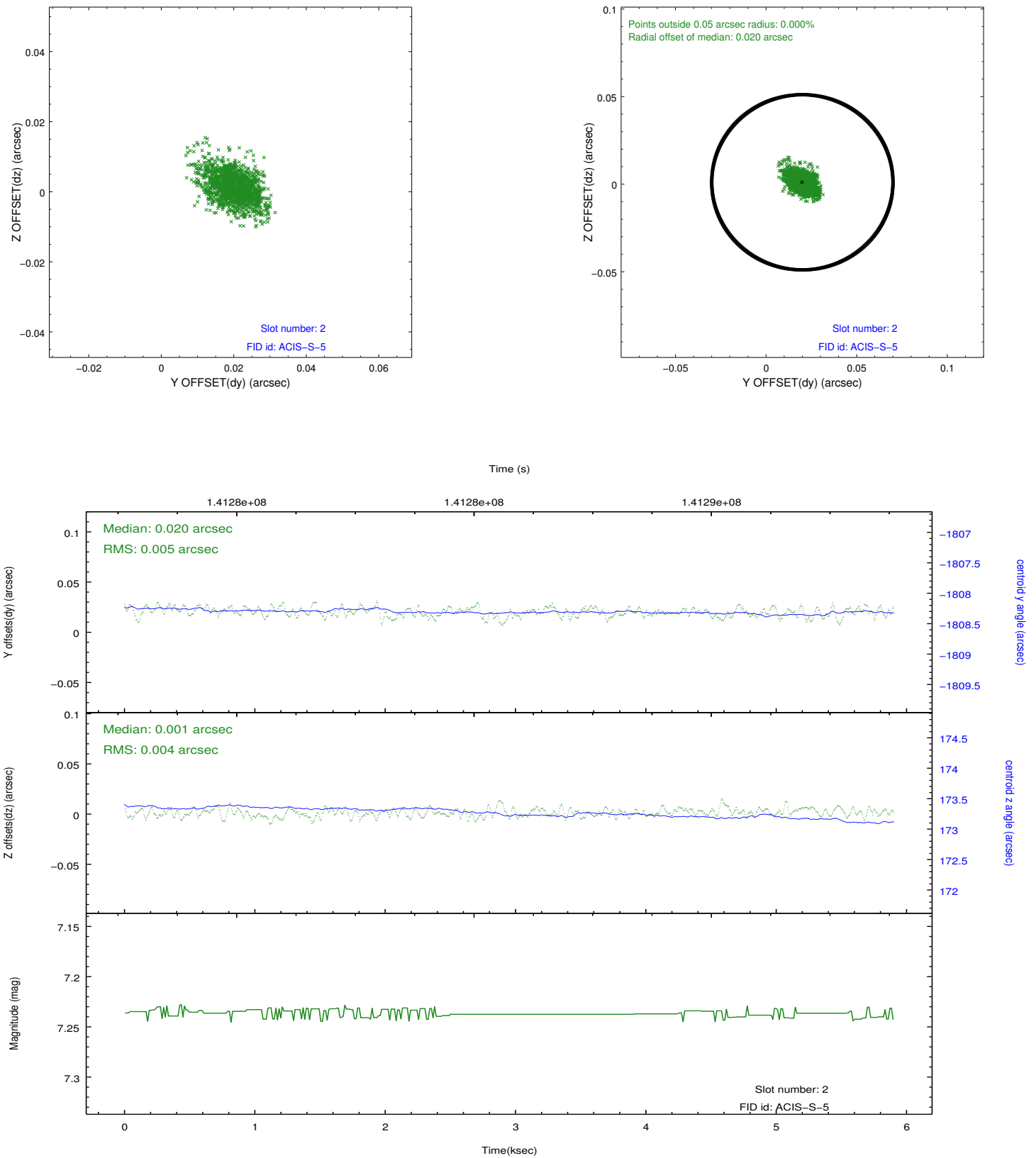
### 2.5.1 Slot 0



## 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)	2012.10.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.403

## A.2 Comments

Joint Proposal: NOAO