

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3336 - L2 Version 3  
Chandra X-Ray Center

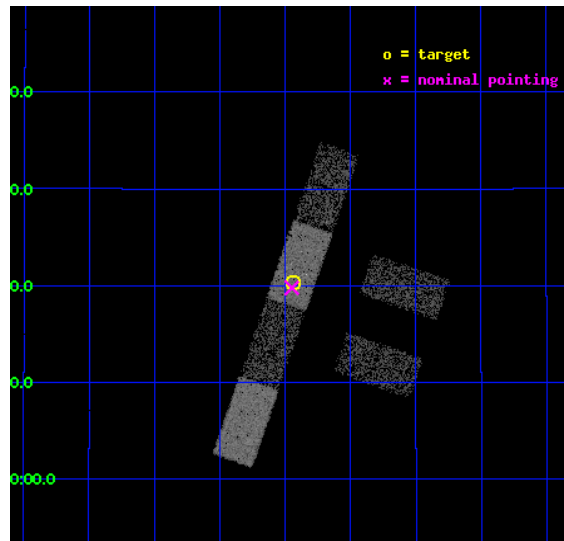
L2 Processing Date : Oct 14 2012

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# 1 Front

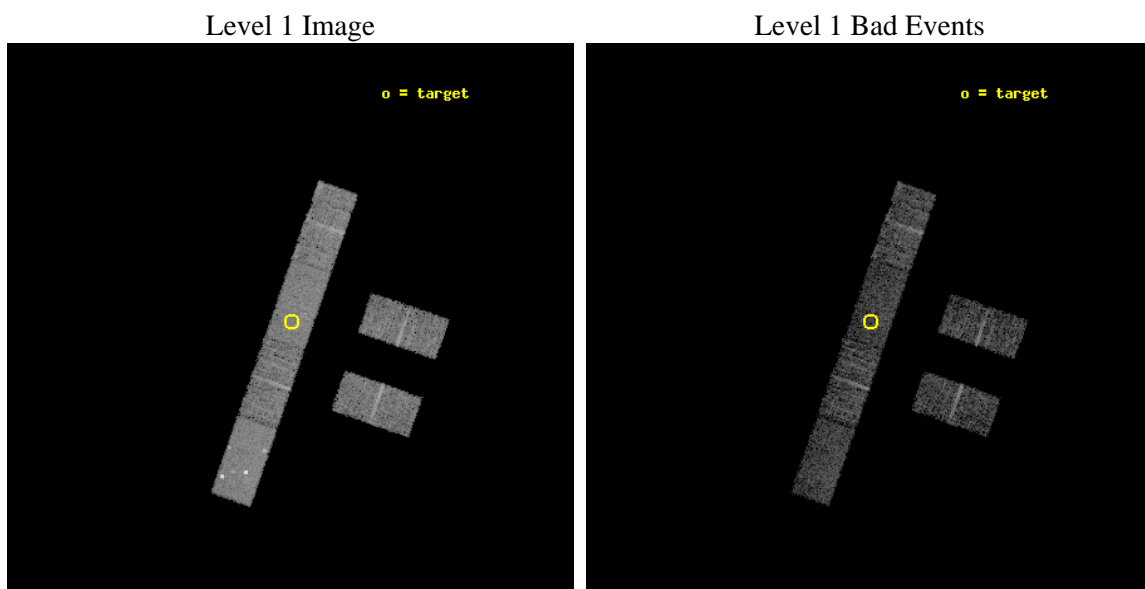
seq_num	900175	Sequence number
obs_id	3336	Observation id
title	THE SHEEP SURVEY: WHAT KIND OF OBJECTS MAKE THE X-RAY BACKGROUND?	&#160
observer	Prof Kirpal Nandra	Principal investigator
object	AX J1531.9+2420	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	232.985417	Observer's specified target RA [deg]
dec_targ	24.339444	Observer's specified target Dec [deg]
ra_nom	232.98718701978	Nominal RA [deg]
dec_nom	24.329821786027	Nominal Dec [deg]
roll_nom	289.2293278951	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5171.4000342488	Sum of GTIs [s]
livetime	5056.120487142	Livetime [s]
ontime2	5171.4000342488	Sum of GTIs [s]
ontime3	5171.4000342488	Sum of GTIs [s]
ontime5	5171.4000342488	Sum of GTIs [s]
ontime6	5171.4000342488	Sum of GTIs [s]
ontime7	5171.4000342488	Sum of GTIs [s]
ontime8	5171.4000342488	Sum of GTIs [s]
l2events	27638	Number of level 2 events



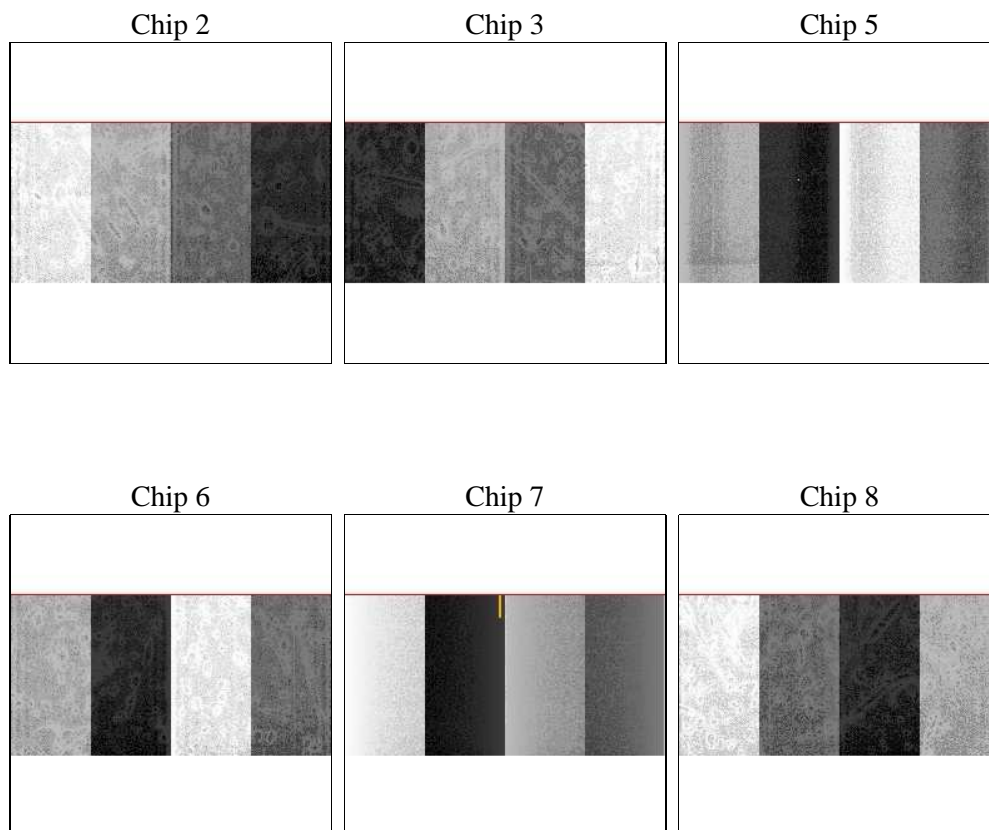
## 2 OBI

### 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	5171.4000342488	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	5171.4000342488	Sum of GTIs [s]
date	2012-10-14T19:18:46	Date and time of file creation	ontime3	5171.4000342488	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5171.4000342488	Sum of GTIs [s]
			ontime6	5171.4000342488	Sum of GTIs [s]
			ontime7	5171.4000342488	Sum of GTIs [s]
			ontime8	5171.4000342488	Sum of GTIs [s]
			l1events	145088	Number of level 1 events

### 2.1.4 Events

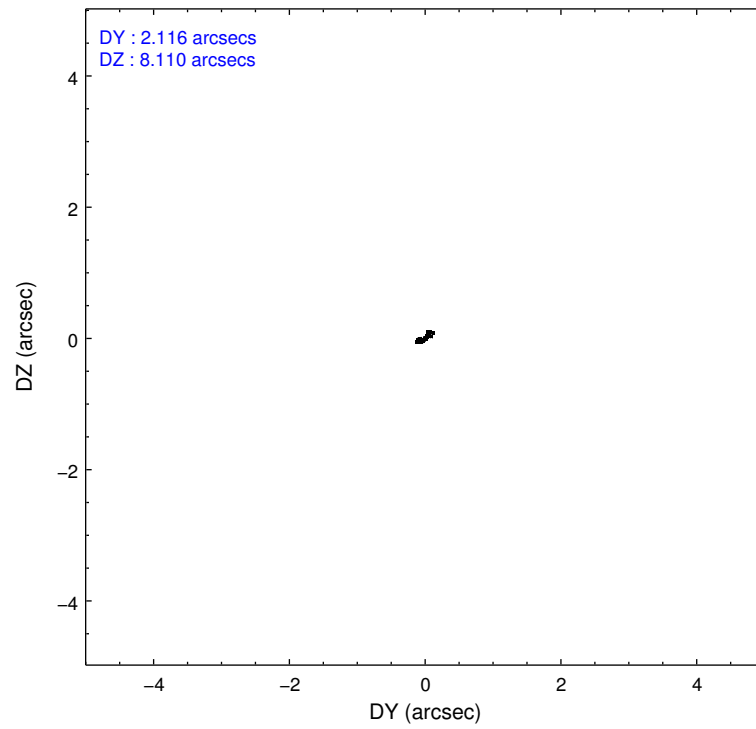
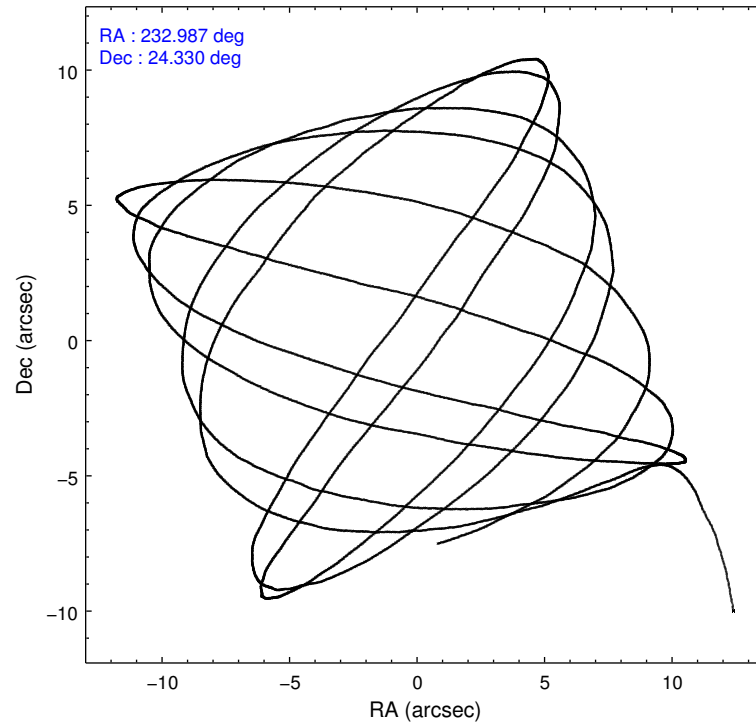
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	19845	20067	32956	20575	26143	25502	grade 0 events	947	985	6204	890	1505	1464
rejected events	17848	18066	16871	18554	15696	21375		4%	4%	18%	4%	5%	5%
rejected %	89%	90%	51%	90%	60%	83%	grade 1 events	13	12	75	6	38	8
								0%	0%	0%	0%	0%	0%
							grade 2 events	432	396	4666	467	2454	1013
								2%	1%	14%	2%	9%	3%
							grade 3 events	271	255	632	263	1174	505
								1%	1%	1%	1%	4%	1%
							grade 4 events	261	263	602	263	1153	499
								1%	1%	1%	1%	4%	1%
							grade 5 events	734	804	2103	843	2473	1093
								3%	4%	6%	4%	9%	4%
							grade 6 events	371	382	6320	416	5528	1260
								1%	1%	19%	2%	21%	4%
							grade 7 events	16816	16970	12354	17427	11818	19660
								84%	84%	37%	84%	45%	77%

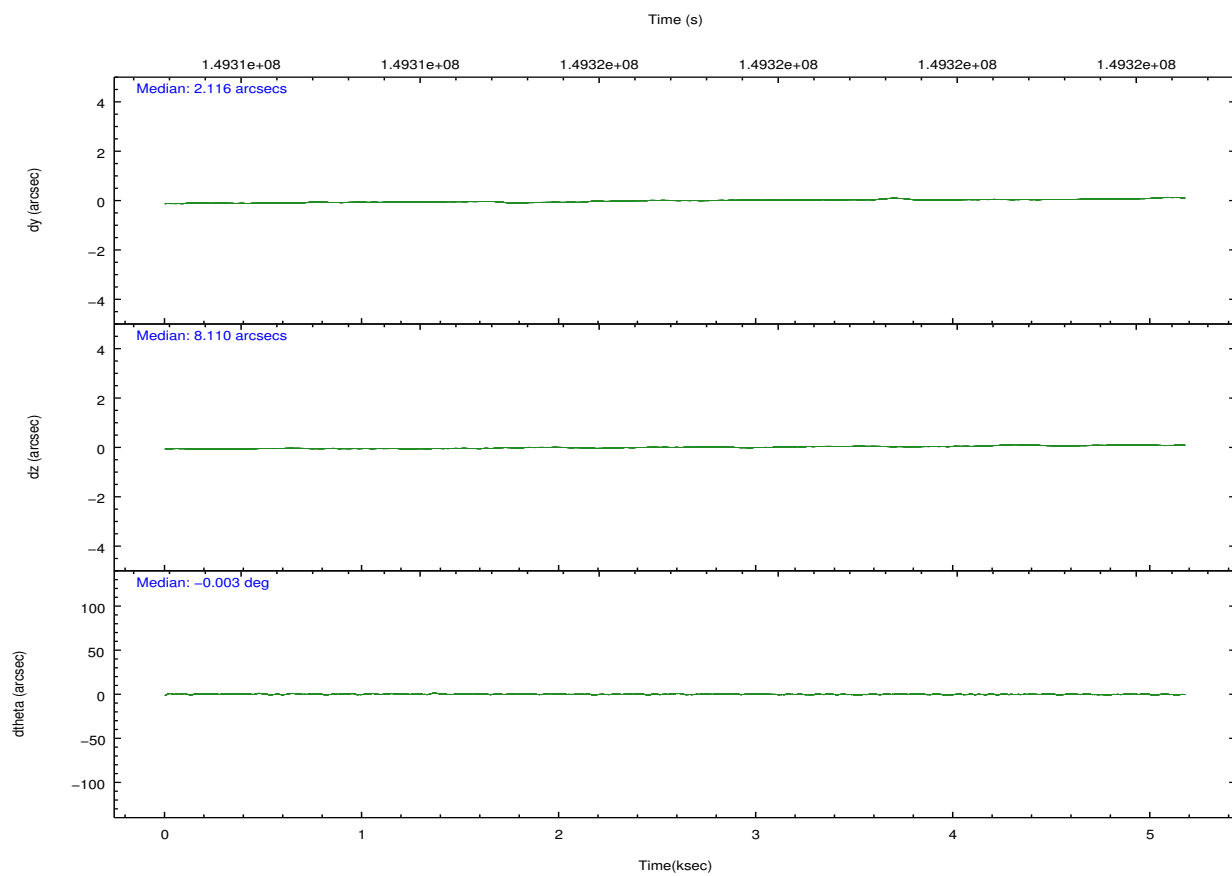
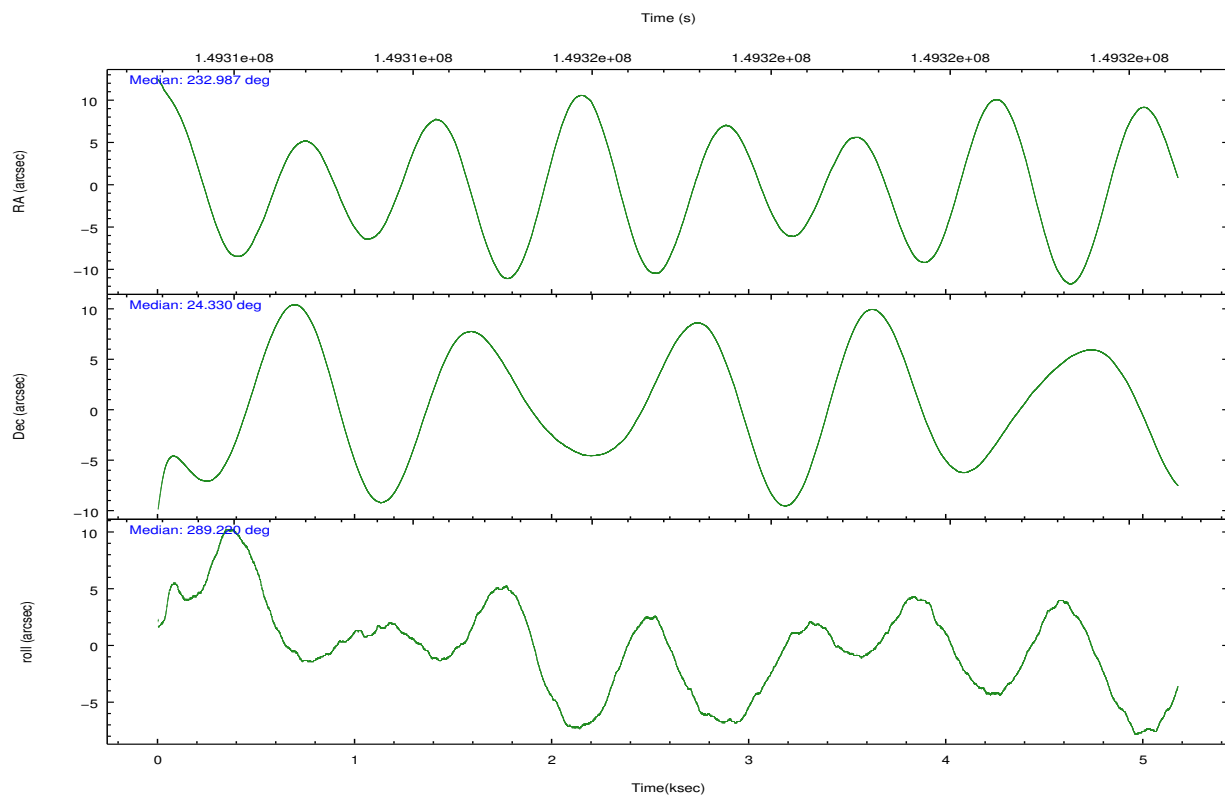


## 2.2 Compared Parameters

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	232.964207	232.9871870197807	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	24.347402	24.32982178602732	Subarray start row	257	257
[deg] Pointing Roll	289.082194	289.2293278951015	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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	149313011.184000	149311807.21557			
Observation start date	2002-09-25T03:49:07	2002-09-25T03:30:07			
[s] Observation end time (MET)	149318011.184000	149318528.65334			
Observation end date	2002-09-25T05:12:27	2002-09-25T05:22:08			
Read mode	TIMED	TIMED			

## 2.3 Aspect



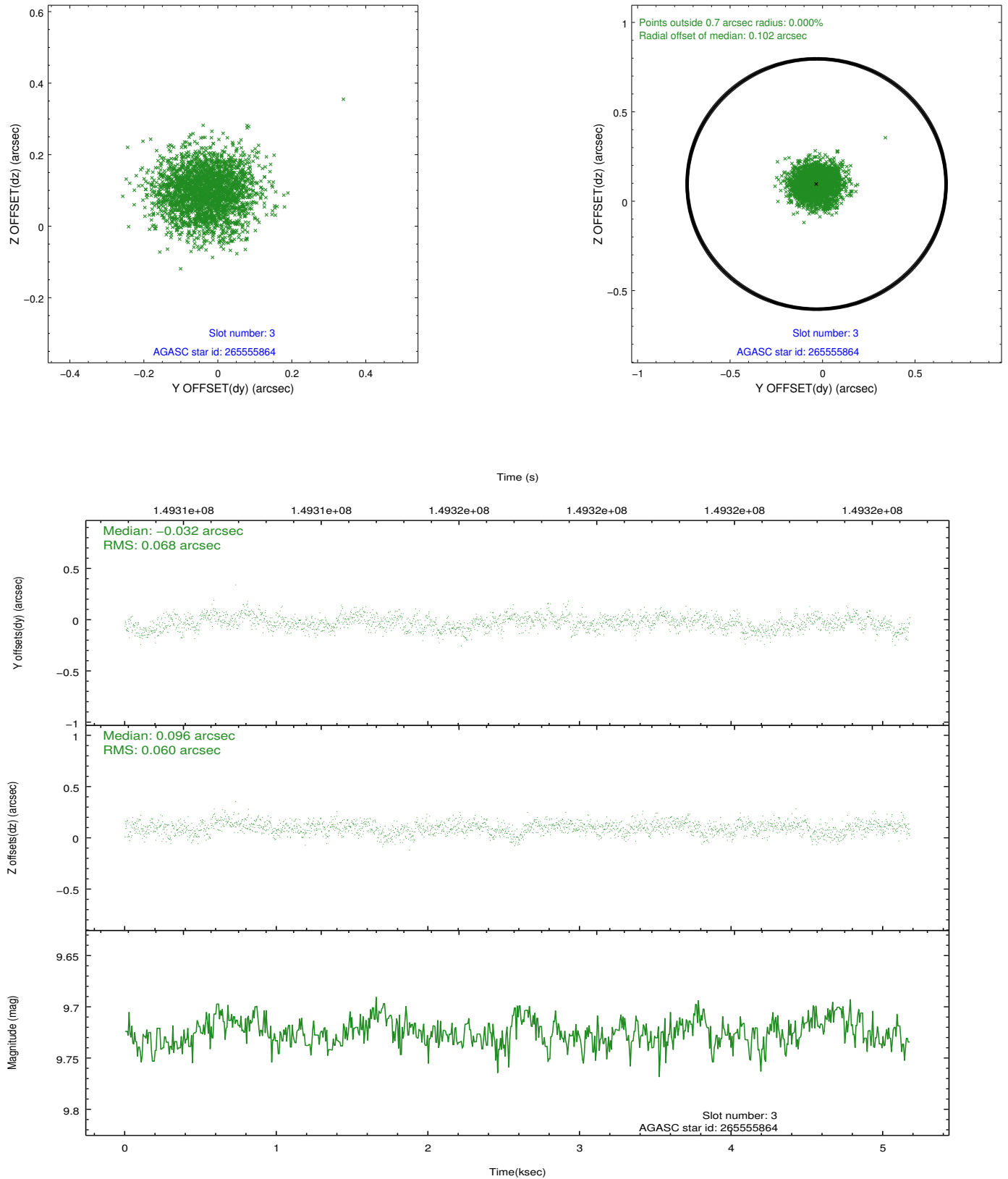


### Slot Statistics

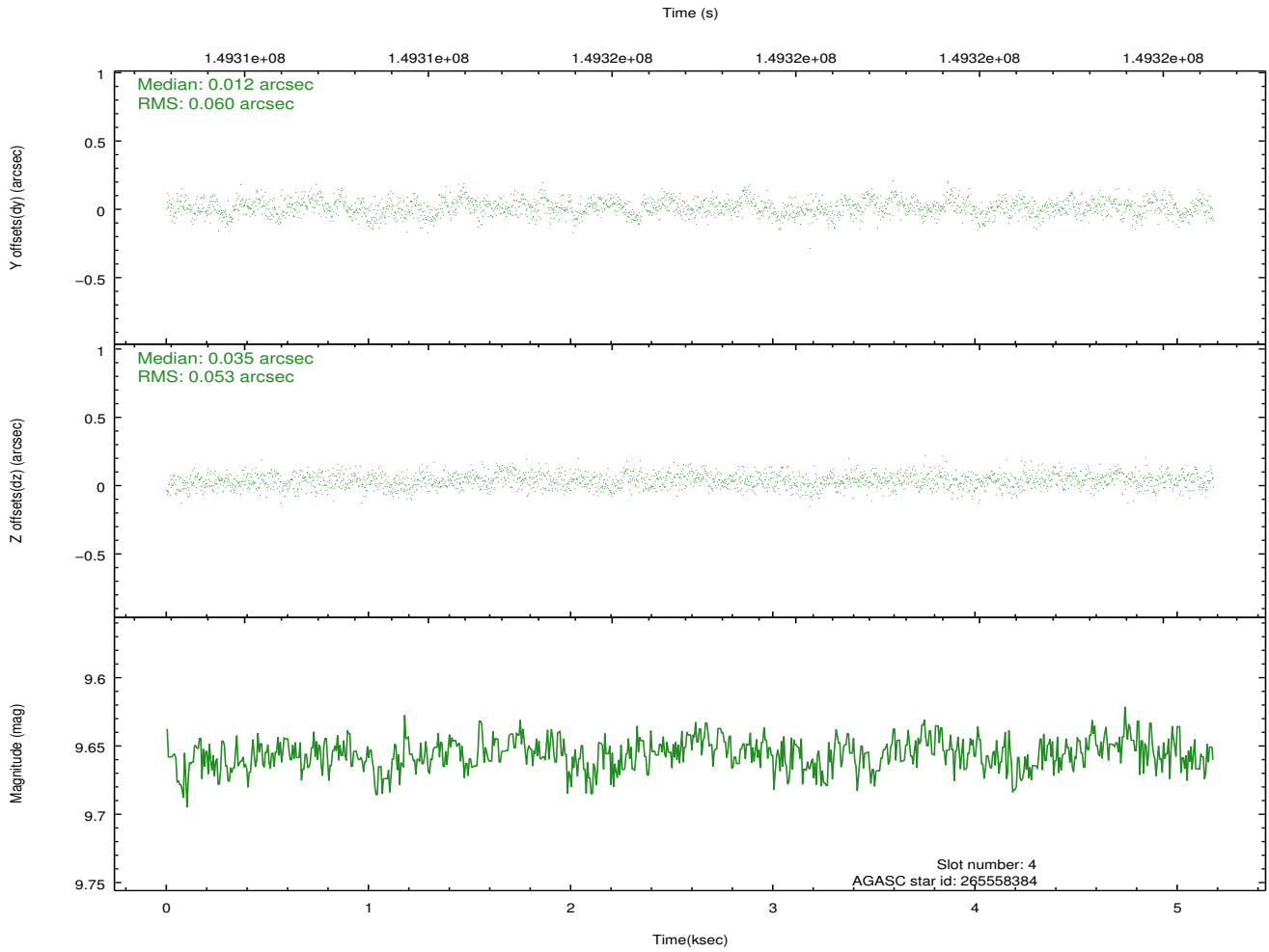
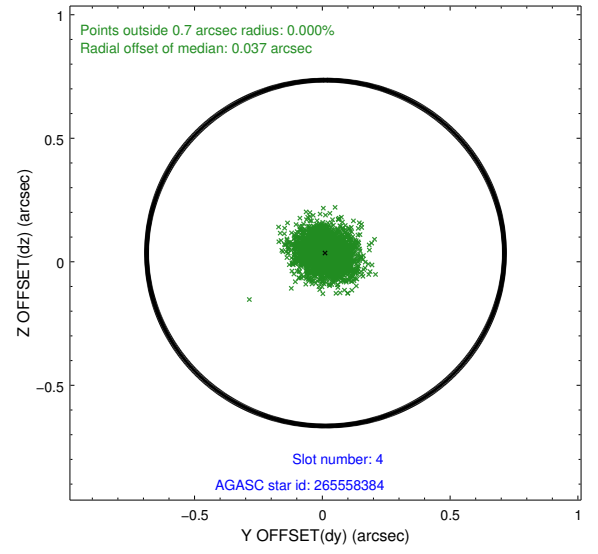
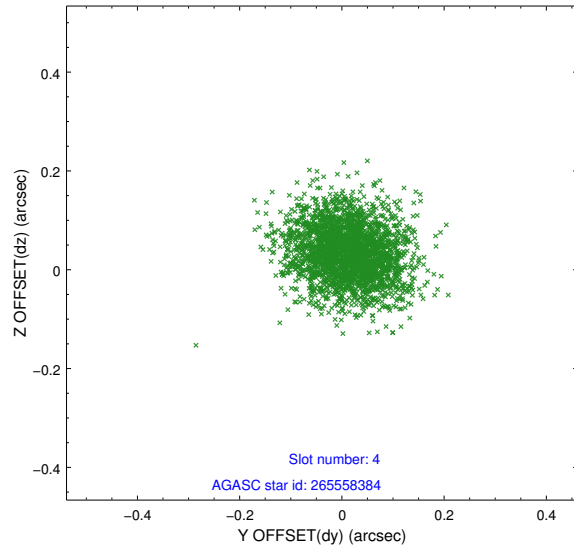
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1263	-0.021	-0.010	0.007	0.011	0.000000	0.000000	-754.76	-1729.31
1	FID	ACIS-S-4	7.20	1263	-0.015	0.013	0.006	0.010	0.000000	0.000000	2158.01	177.95
2	FID	ACIS-S-5	7.24	1263	0.005	0.006	0.007	0.012	0.000000	0.000000	-1806.05	172.99
3	GUIDE	265555864	9.73	2524	-0.032	0.096	0.097	0.154	233.574285	23.968561	1941.19	1452.99
4	GUIDE	265558384	9.66	2525	0.012	0.035	0.085	0.137	232.899731	24.051291	939.54	-547.71
5	GUIDE	265560536	8.08	2526	0.062	-0.110	0.069	0.113	232.543821	23.755517	1560.31	-2004.76
6	GUIDE	265553400	7.95	2526	-0.095	-0.079	0.063	0.099	232.475560	23.817136	1276.81	-2144.50
7	GUIDE	265557848	9.54	2524	0.048	0.065	0.122	0.204	233.014998	24.084951	948.56	-151.45

## 2.4 Star Slots

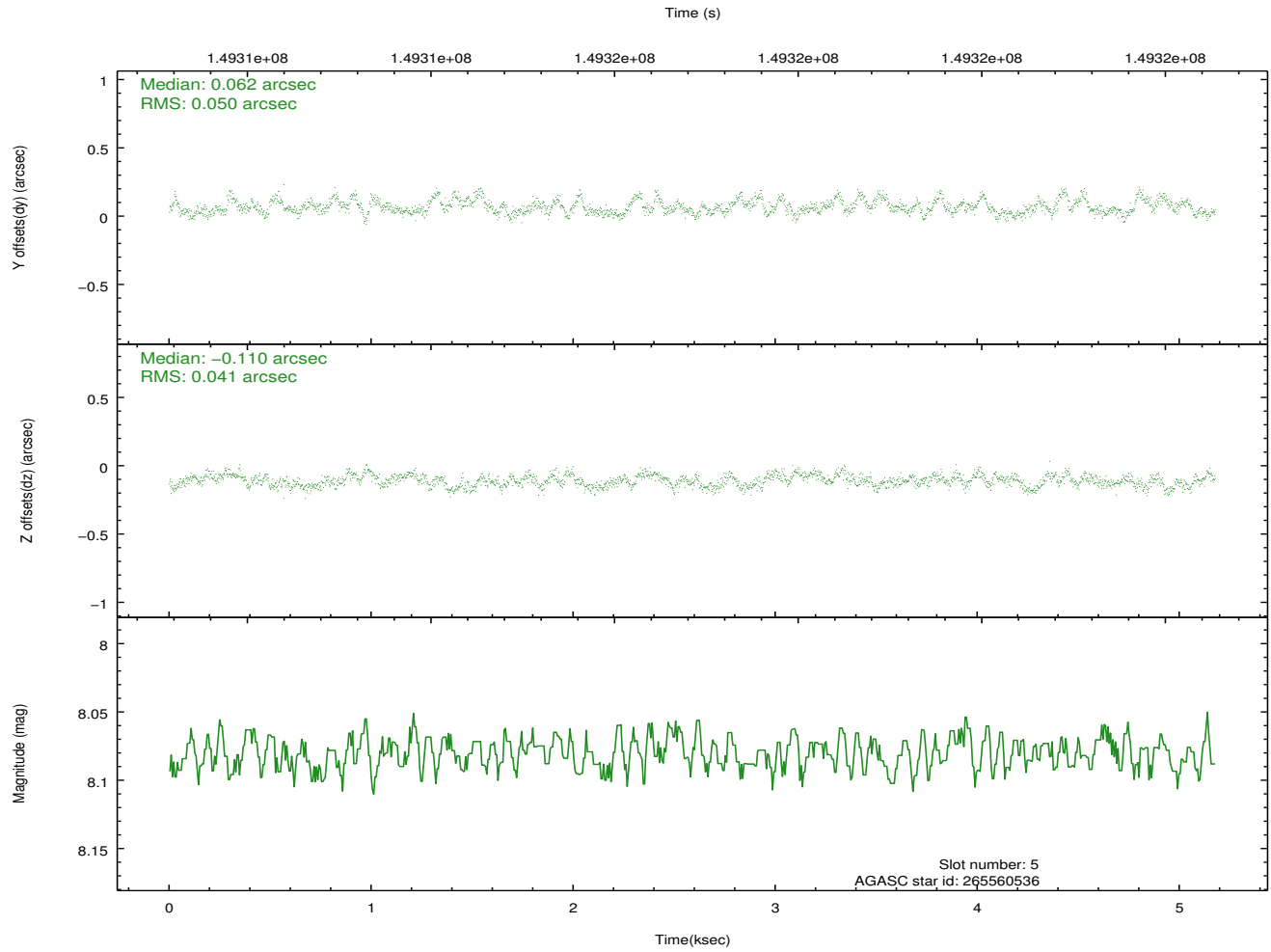
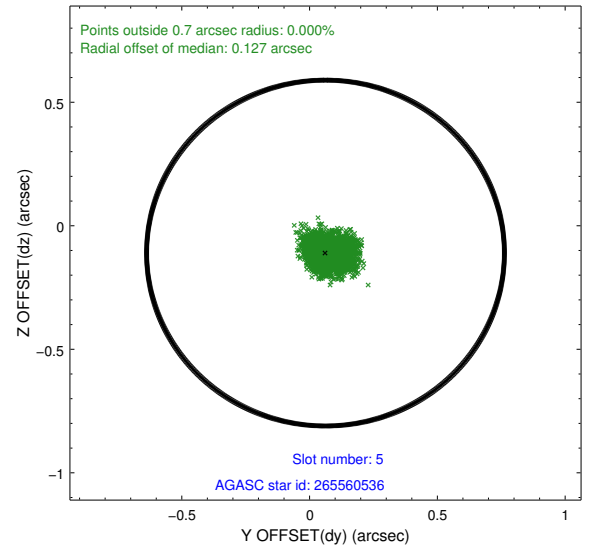
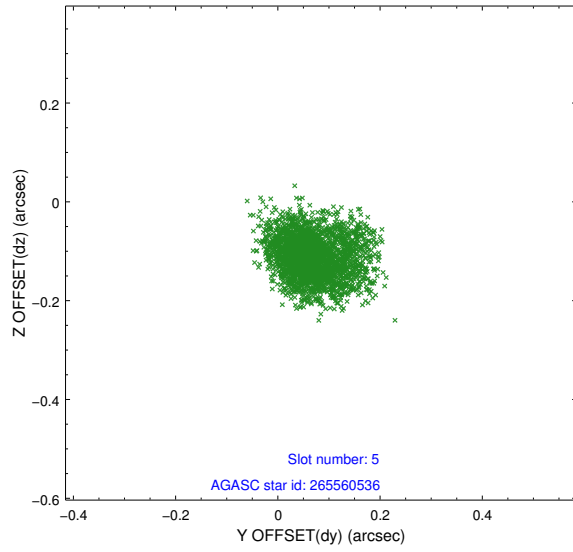
### 2.4.1 Slot 3



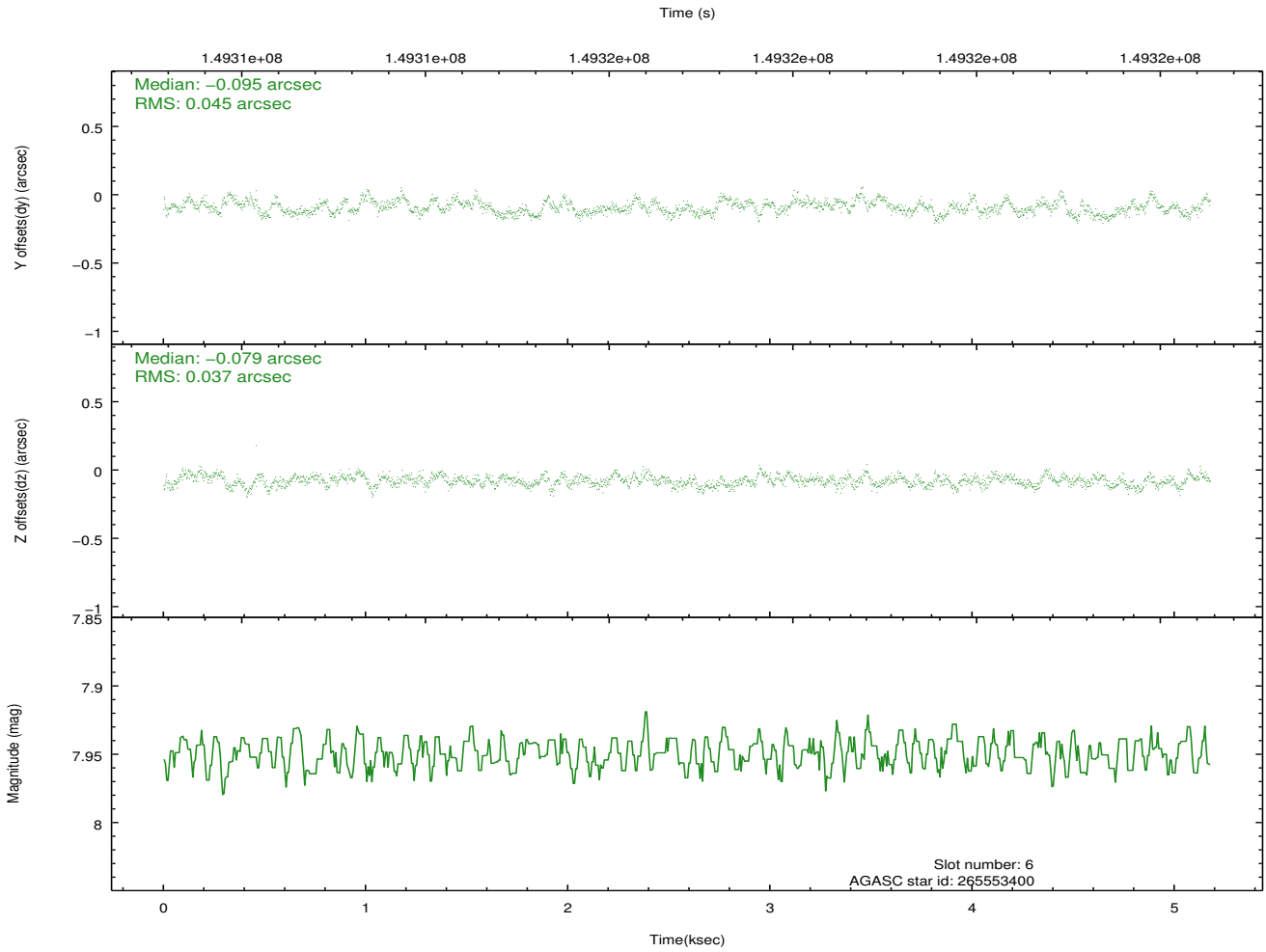
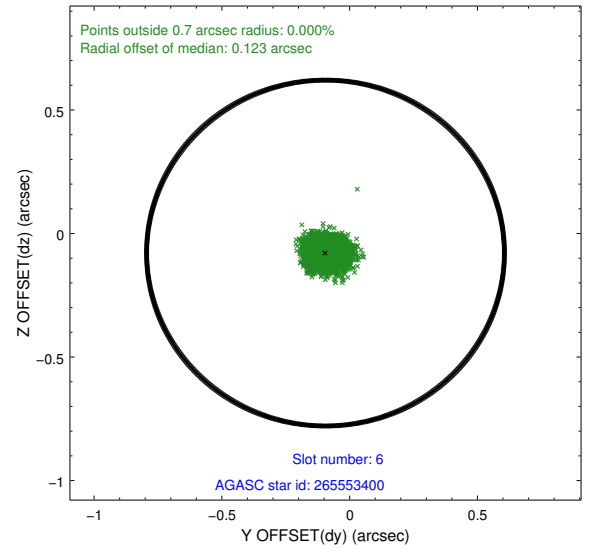
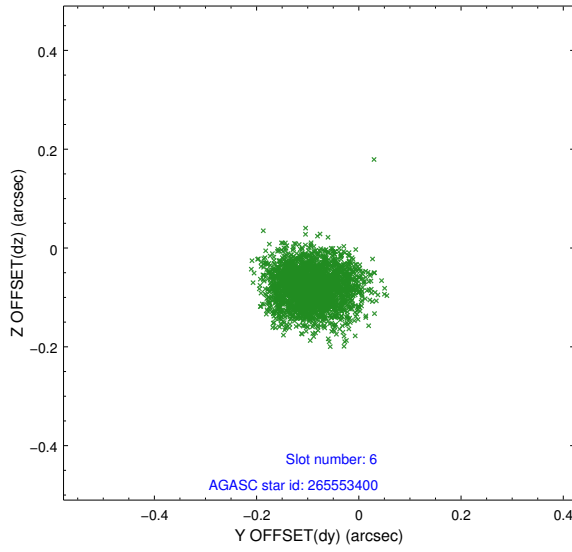
## 2.4.2 Slot 4



### 2.4.3 Slot 5

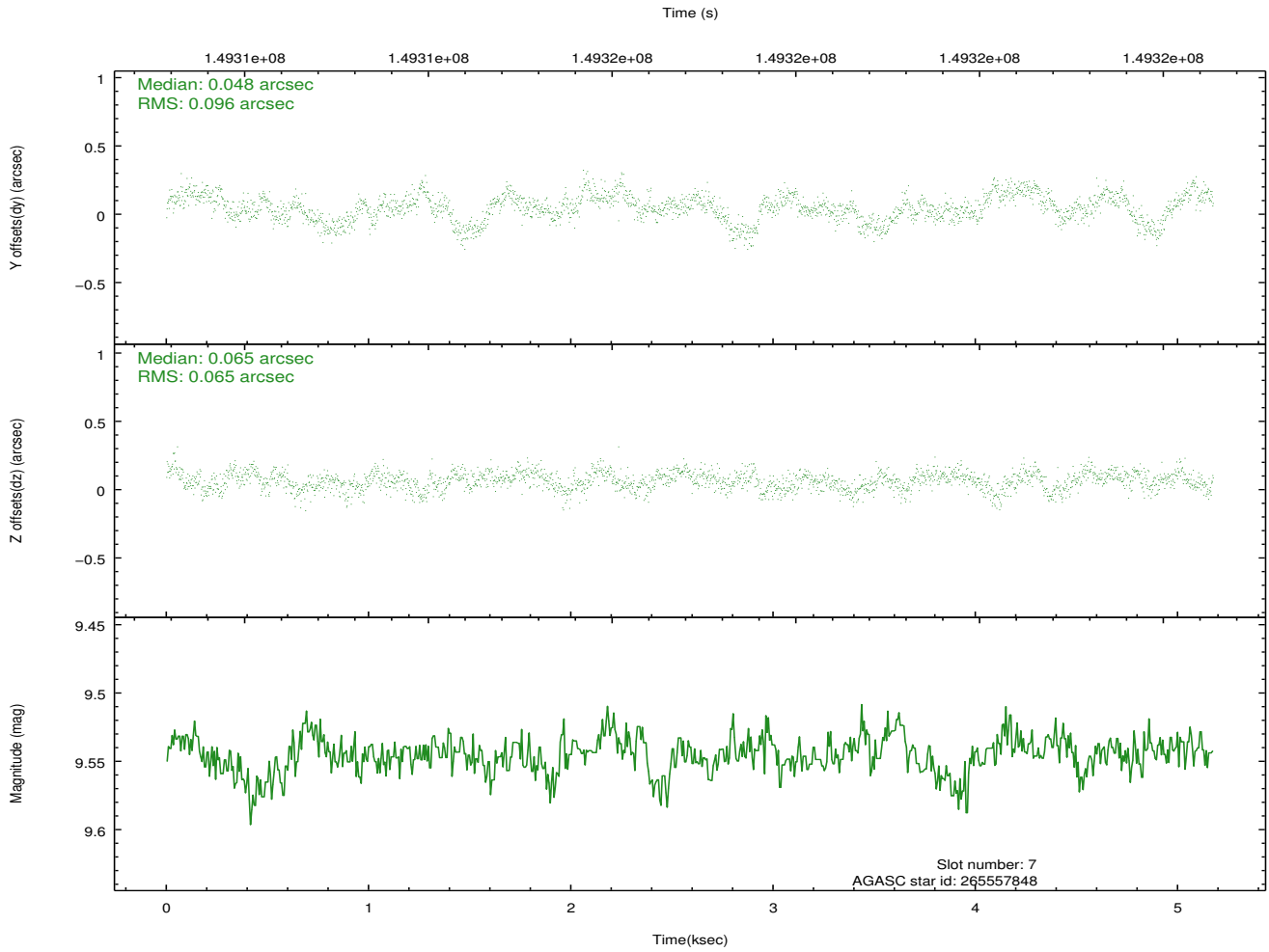
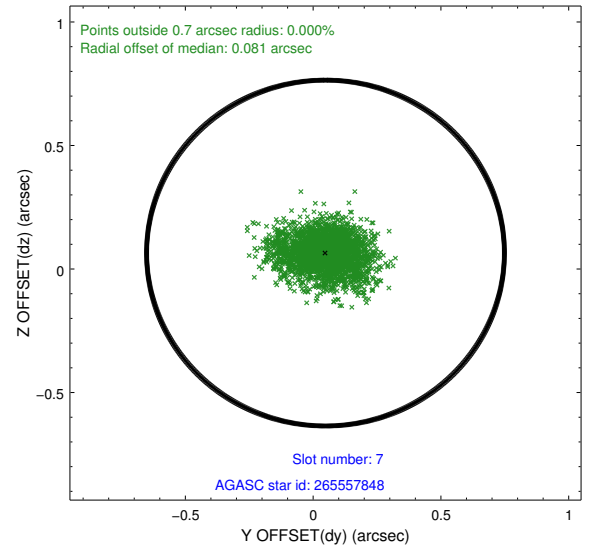
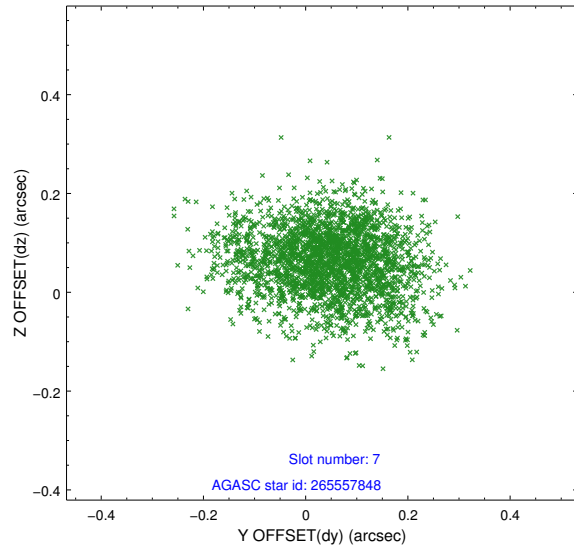


## 2.4.4 Slot 6



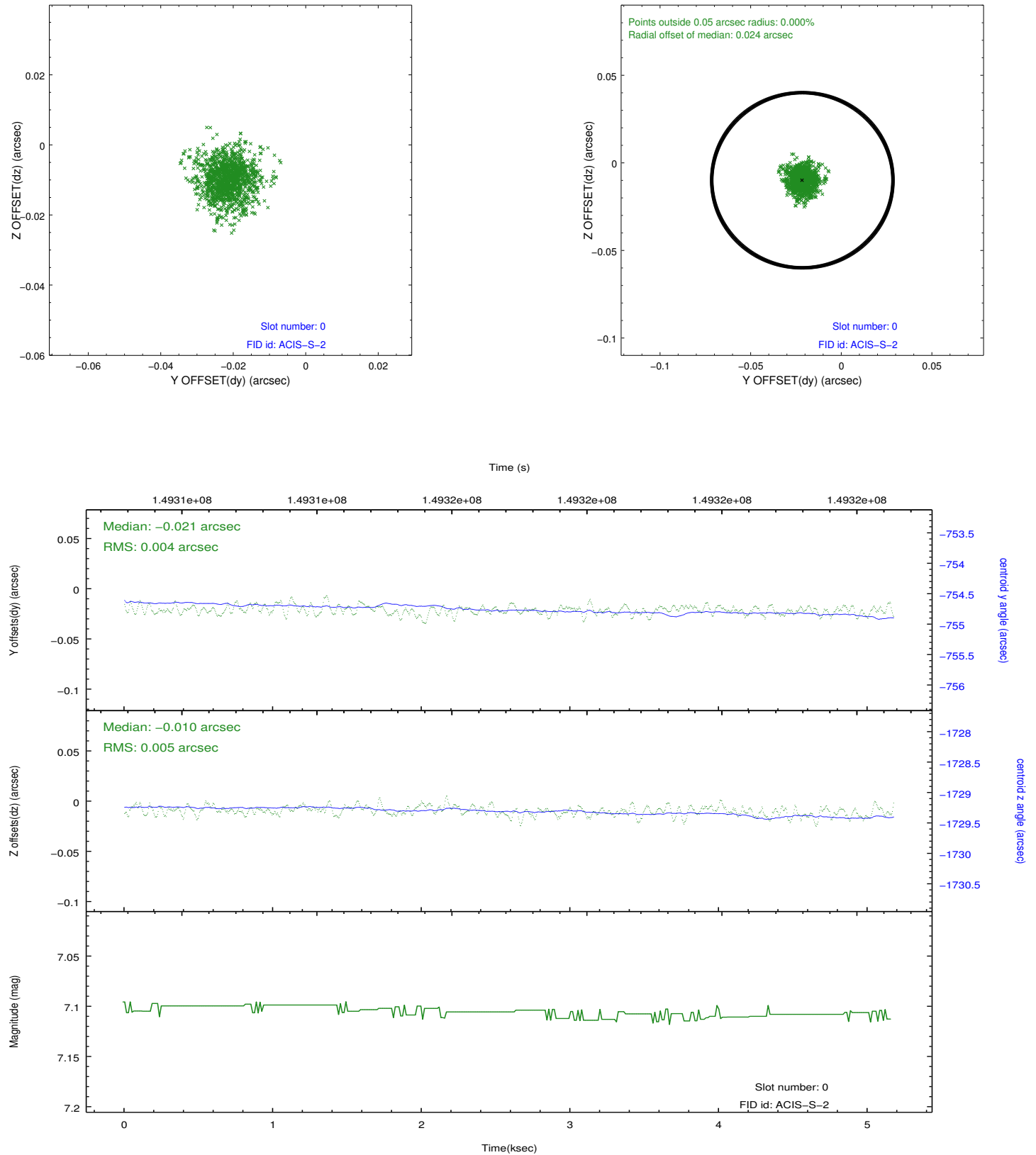


## 2.4.5 Slot 7

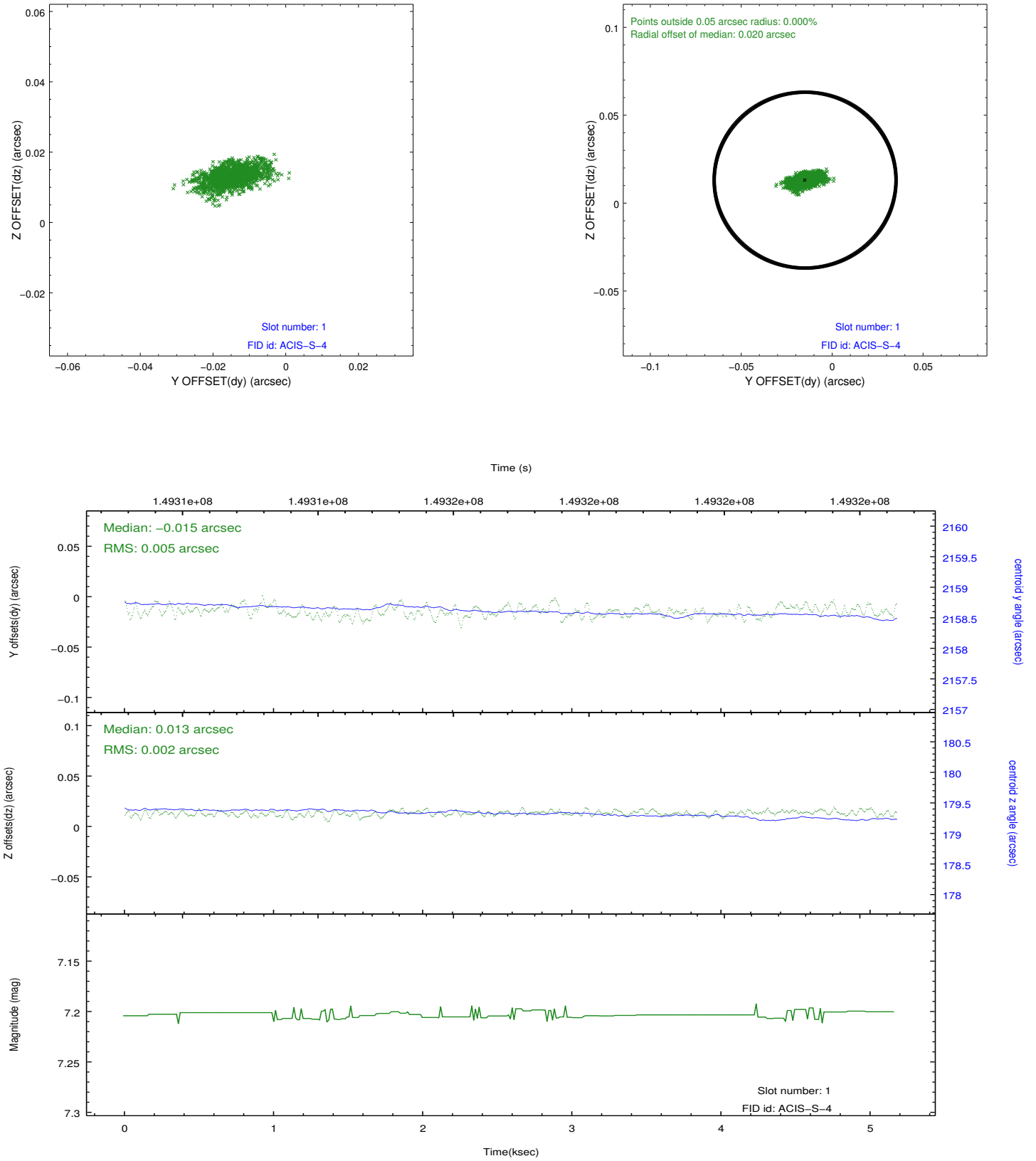


## 2.5 FID Slots

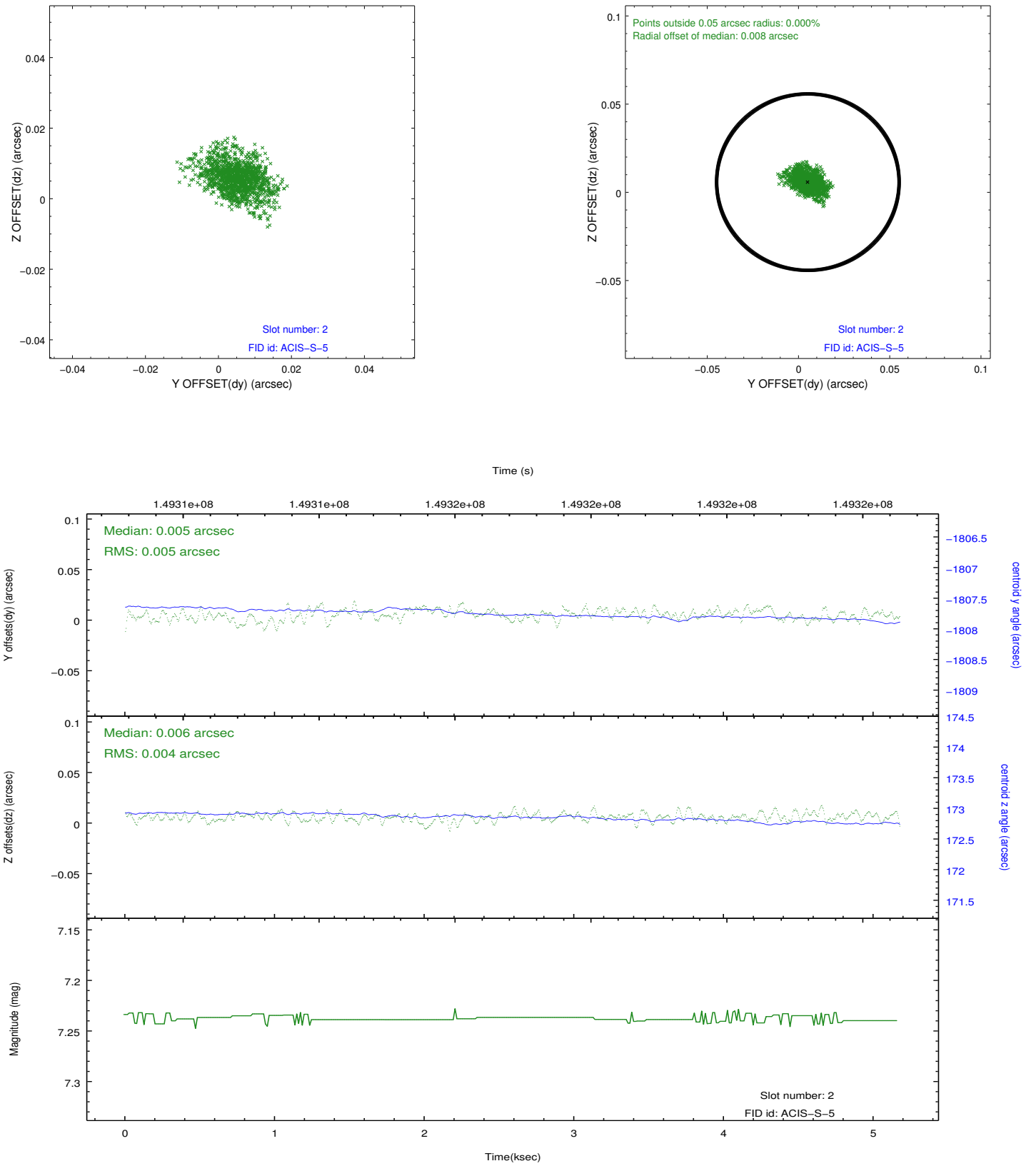
### 2.5.1 Slot 0



## 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)	2012.10.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.171

### A.2 Comments

Joint Proposal: NOAO