

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3611 - L2 Version 3  
Chandra X-Ray Center

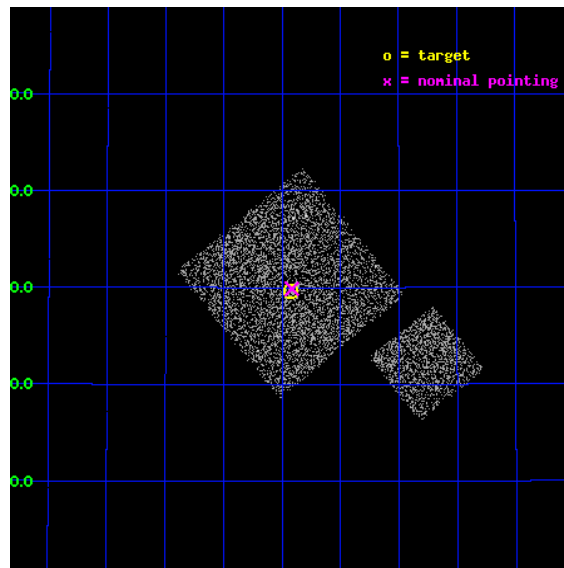
L2 Processing Date : Oct 25 2012

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# 1 Front

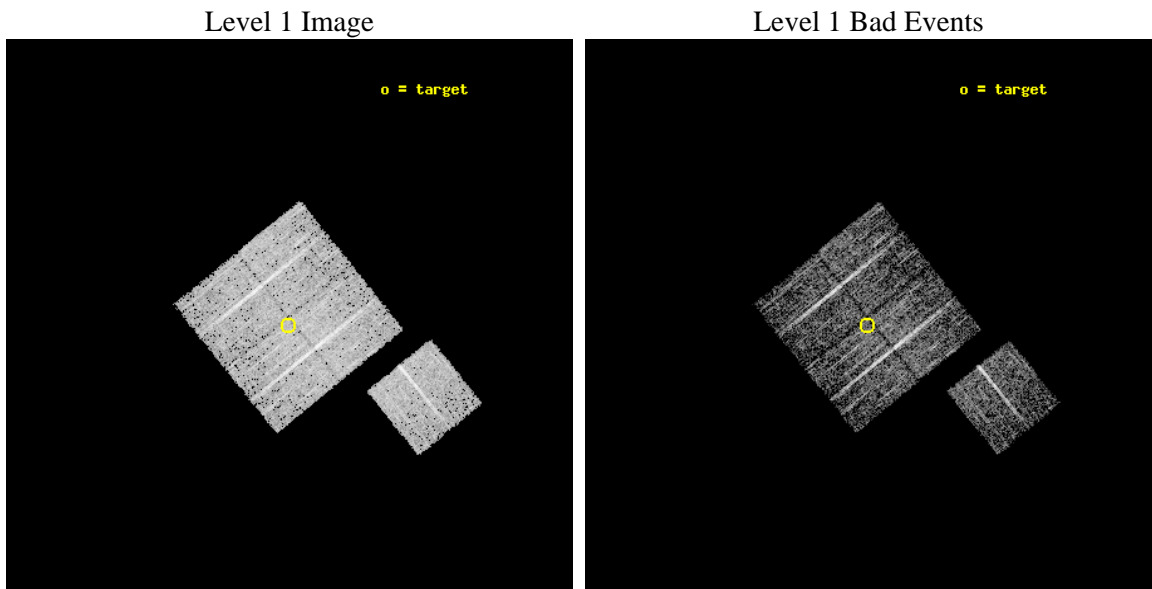
seq_num	900211	Sequence number
obs_id	3611	Observation id
title	CHANDRA LARGE SCALE SURVEY OF THE NOAO BOOTES DEEP FIELD	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	NOAO FIELD F25	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	219.106748	Observer's specified target RA [deg]
dec_targ	35.493858	Observer's specified target Dec [deg]
ra_nom	219.10415121288	Nominal RA [deg]
dec_nom	35.497925221566	Nominal Dec [deg]
roll_nom	141.01019884709	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4773.5100281537	Sum of GTIs [s]
livetime	4711.1406054289	Livetime [s]
ontime0	4776.5278883576	Sum of GTIs [s]
ontime1	4773.4279880226	Sum of GTIs [s]
ontime2	4776.6099683642	Sum of GTIs [s]
ontime3	4773.5100281537	Sum of GTIs [s]
ontime6	4776.4868782461	Sum of GTIs [s]
l2events	9463	Number of level 2 events



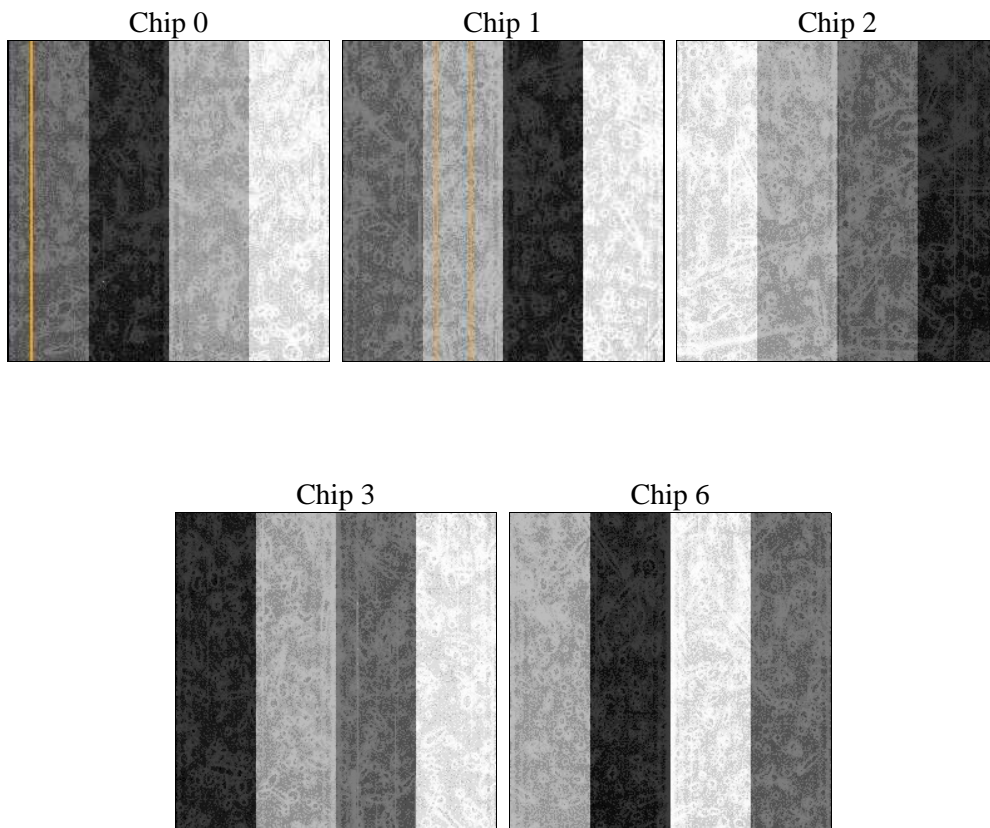
## 2 OBI

### 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	4773.5100281537	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4776.5278883576	Sum of GTIs [s]
date	2012-10-25T23:45:39	Date and time of file creation	ontime1	4773.4279880226	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4776.6099683642	Sum of GTIs [s]
			ontime3	4773.5100281537	Sum of GTIs [s]
			ontime6	4776.4868782461	Sum of GTIs [s]
			l1events	119381	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	23738	22323	25738	24585	22997
rejected events	21345	19903	23522	22360	20669
rejected %	89%	89%	91%	90%	89%

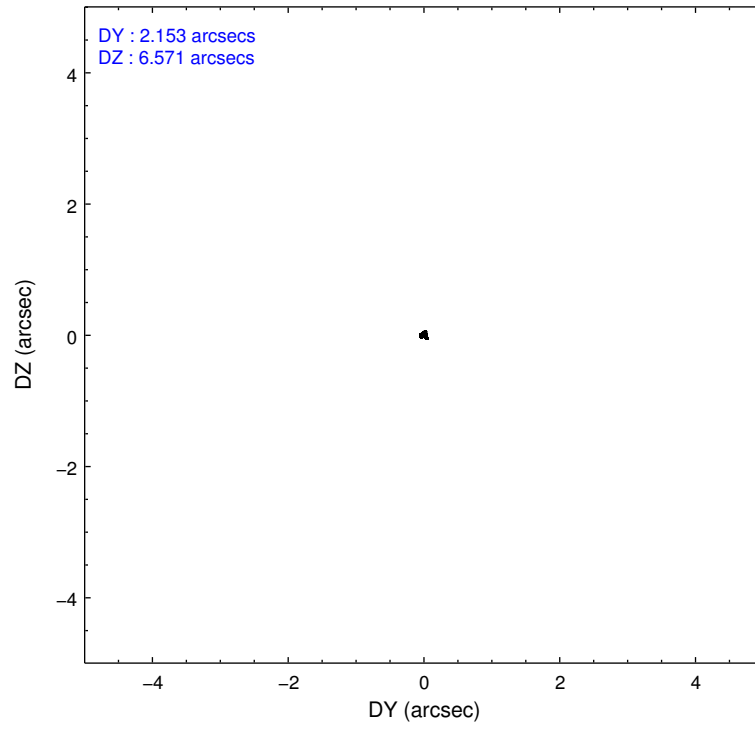
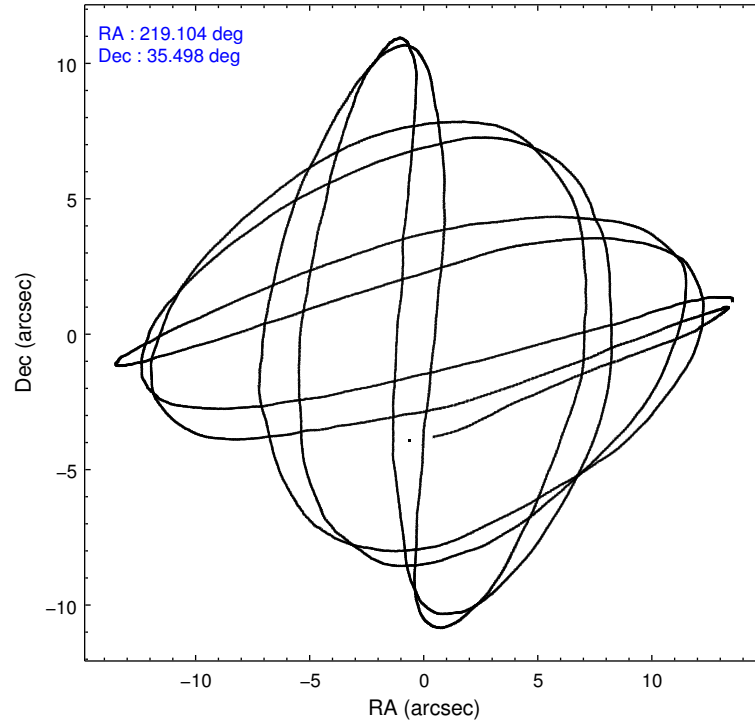
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	885	791	803	814	853
	3%	3%	3%	3%	3%
grade 1 events	15	19	19	16	11
	0%	0%	0%	0%	0%
grade 2 events	549	512	519	464	480
	2%	2%	2%	1%	2%
grade 3 events	285	314	269	256	283
	1%	1%	1%	1%	1%
grade 4 events	245	286	251	270	252
	1%	1%	0%	1%	1%
grade 5 events	682	832	655	769	799
	2%	3%	2%	3%	3%
grade 6 events	429	519	376	424	461
	1%	2%	1%	1%	2%
grade 7 events	20648	19050	22846	21572	19858
	86%	85%	88%	87%	86%

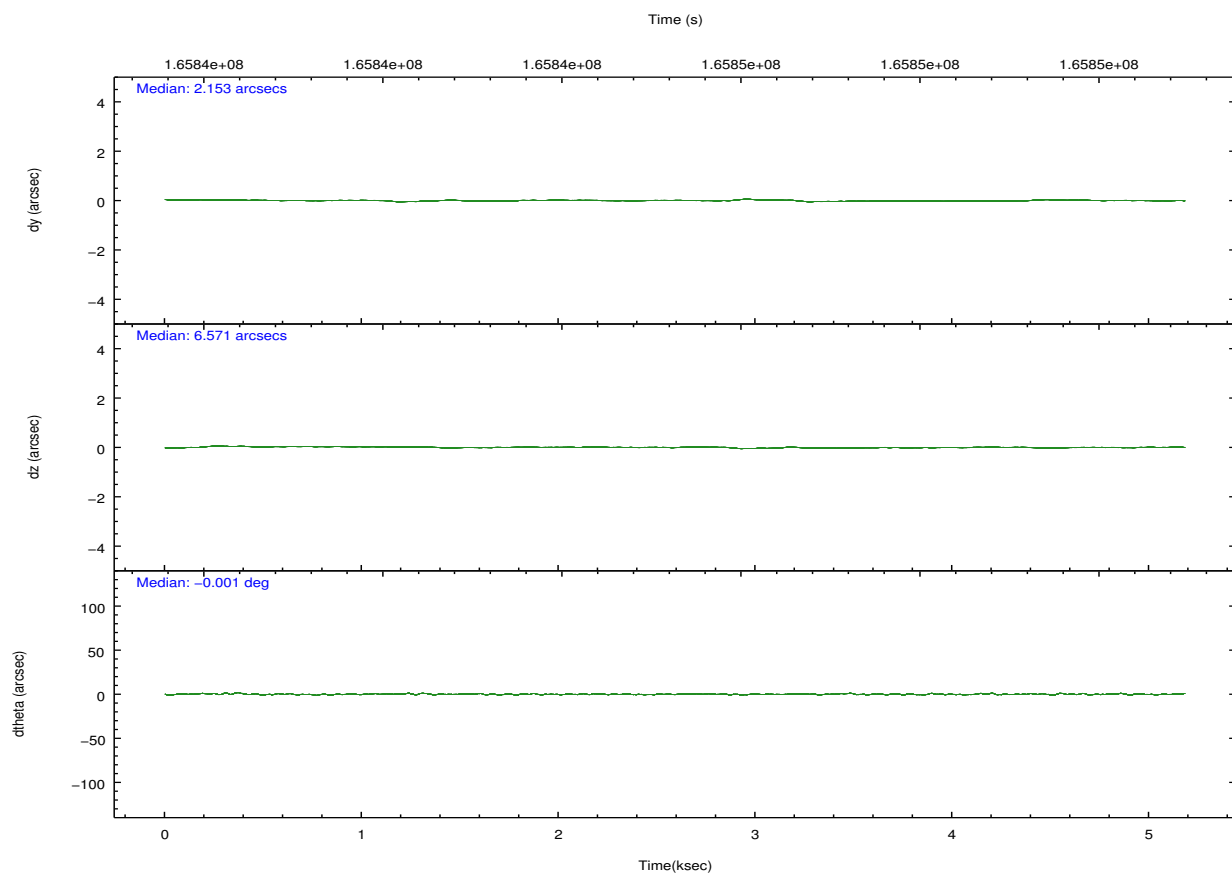
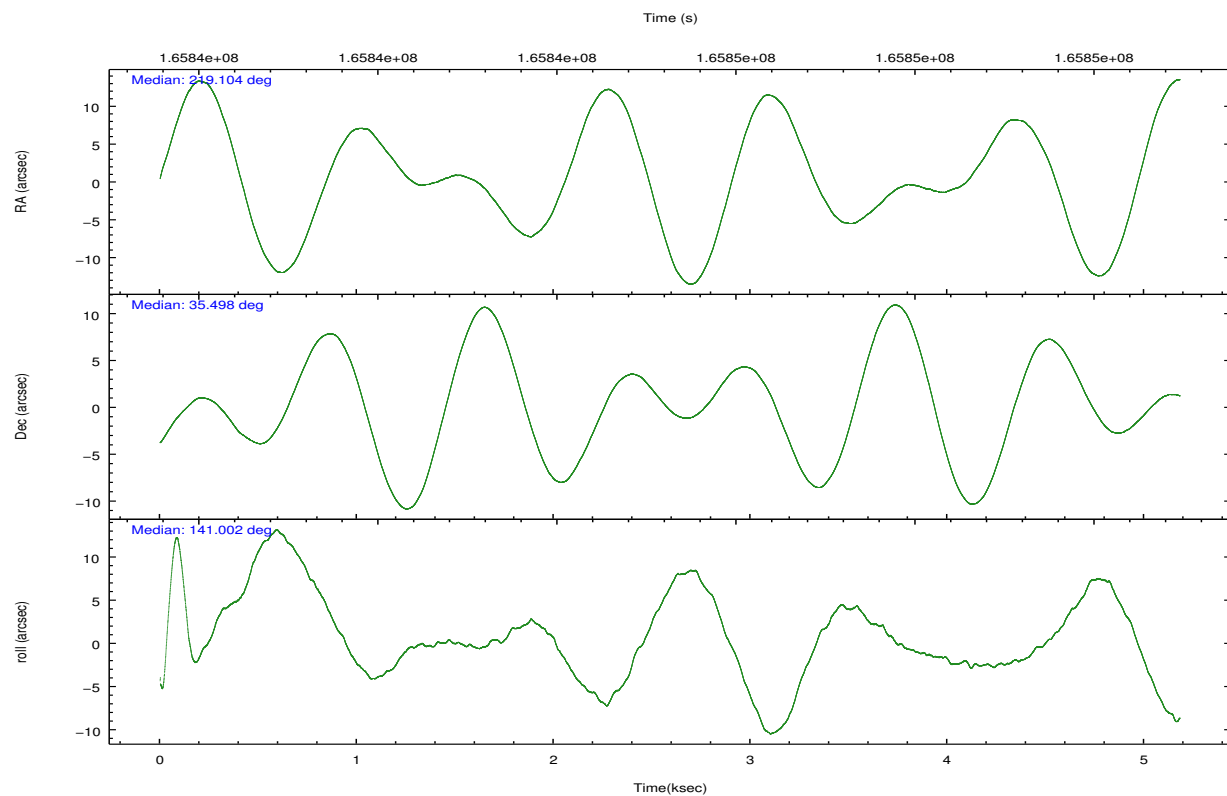


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	219.137315	219.104151212877	Subarray requested	NONE	NONE
[deg] Pointing Dec	35.493773	35.49792522156584	Alternating exposures requested	N	N
[deg] Pointing Roll	140.782258	141.0101988470936	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	165843225.184000	165842849.54402			
Observation start date	2003-04-04T11:32:41	2003-04-04T11:27:29			
[s] Observation end time (MET)	165848225.184000	165848394.28175			
Observation end date	2003-04-04T12:56:01	2003-04-04T12:59:54			
Read mode	TIMED	TIMED			

## 2.3 Aspect



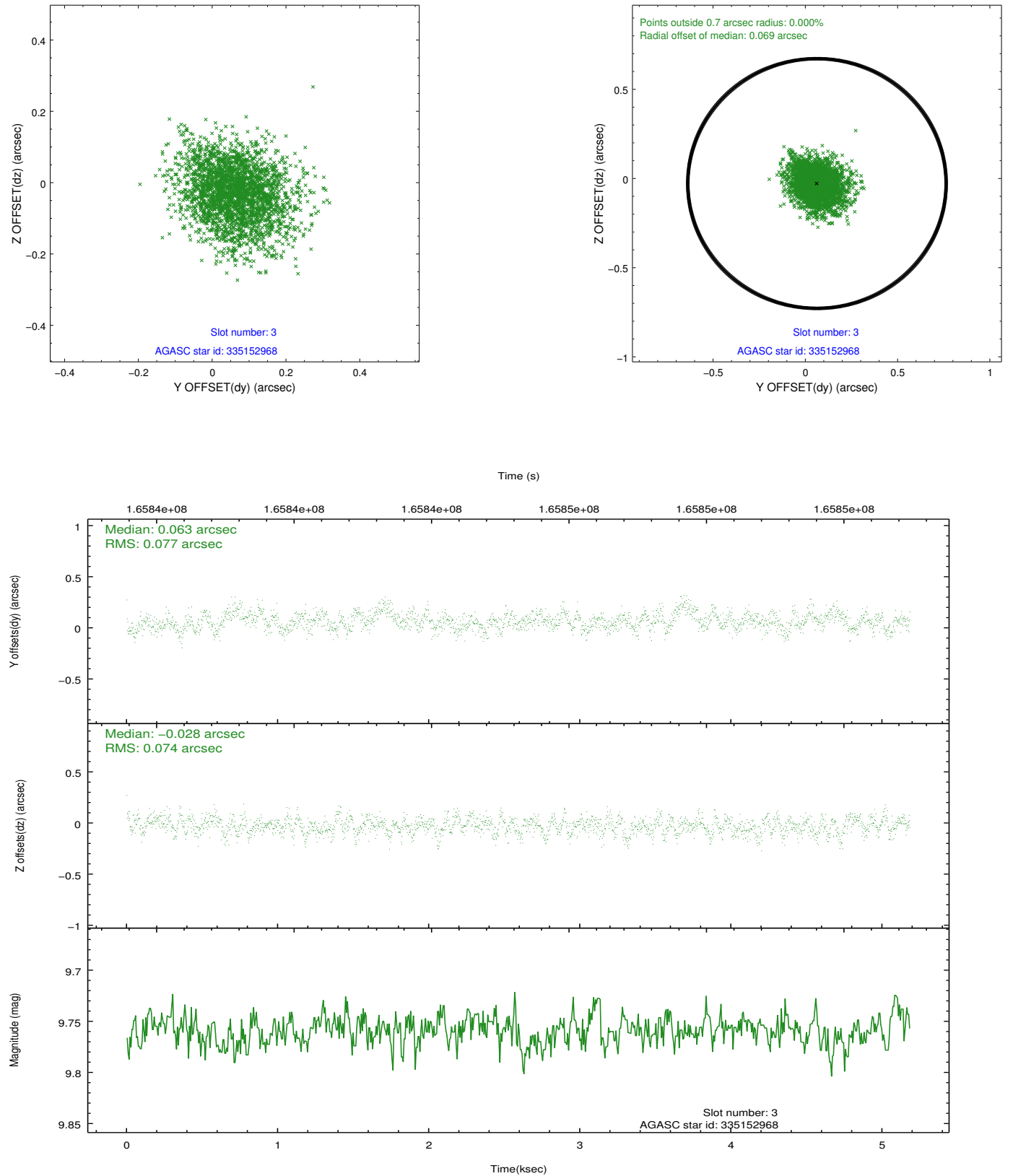


### Slot Statistics

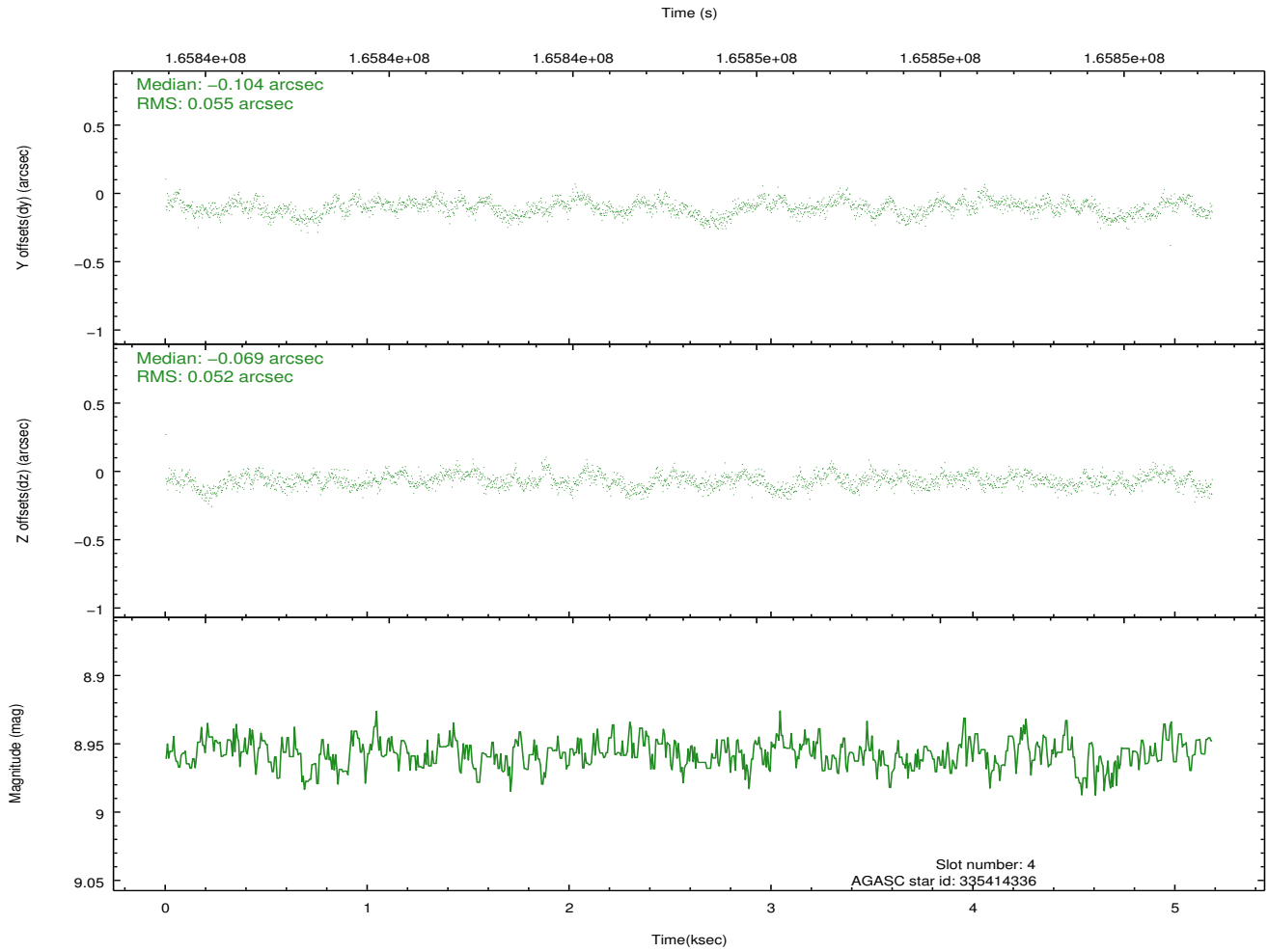
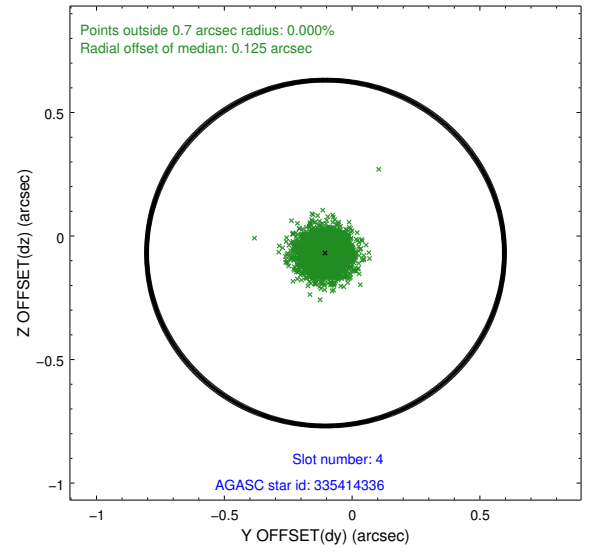
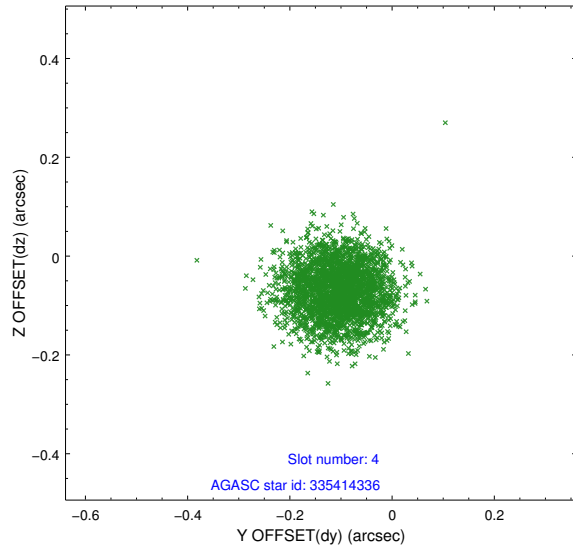
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1264	0.011	-0.005	0.006	0.010	0.000000	0.000000	937.66	-829.98
1	FID	ACIS-I-5	7.24	1264	-0.077	0.051	0.006	0.009	0.000000	0.000000	-1809.85	1067.05
2	FID	ACIS-I-6	7.26	1264	-0.025	0.025	0.006	0.010	0.000000	0.000000	401.95	1712.80
3	GUIDE	335152968	9.76	2529	0.063	-0.028	0.114	0.189	219.446087	34.867883	-2130.37	1168.24
4	GUIDE	335414336	8.96	2528	-0.104	-0.069	0.081	0.128	218.979022	35.090910	-556.44	1419.01
5	GUIDE	335546608	10.07	2510	0.096	0.025	0.113	0.190	219.906522	35.245587	-2311.30	-743.71
6	GUIDE	335549864	7.52	2529	-0.041	-0.062	0.062	0.101	219.286726	35.929745	654.60	-1491.34
7	GUIDE	335554008	9.82	2522	-0.019	0.139	0.114	0.192	219.383422	35.471863	-607.82	-395.81

## 2.4 Star Slots

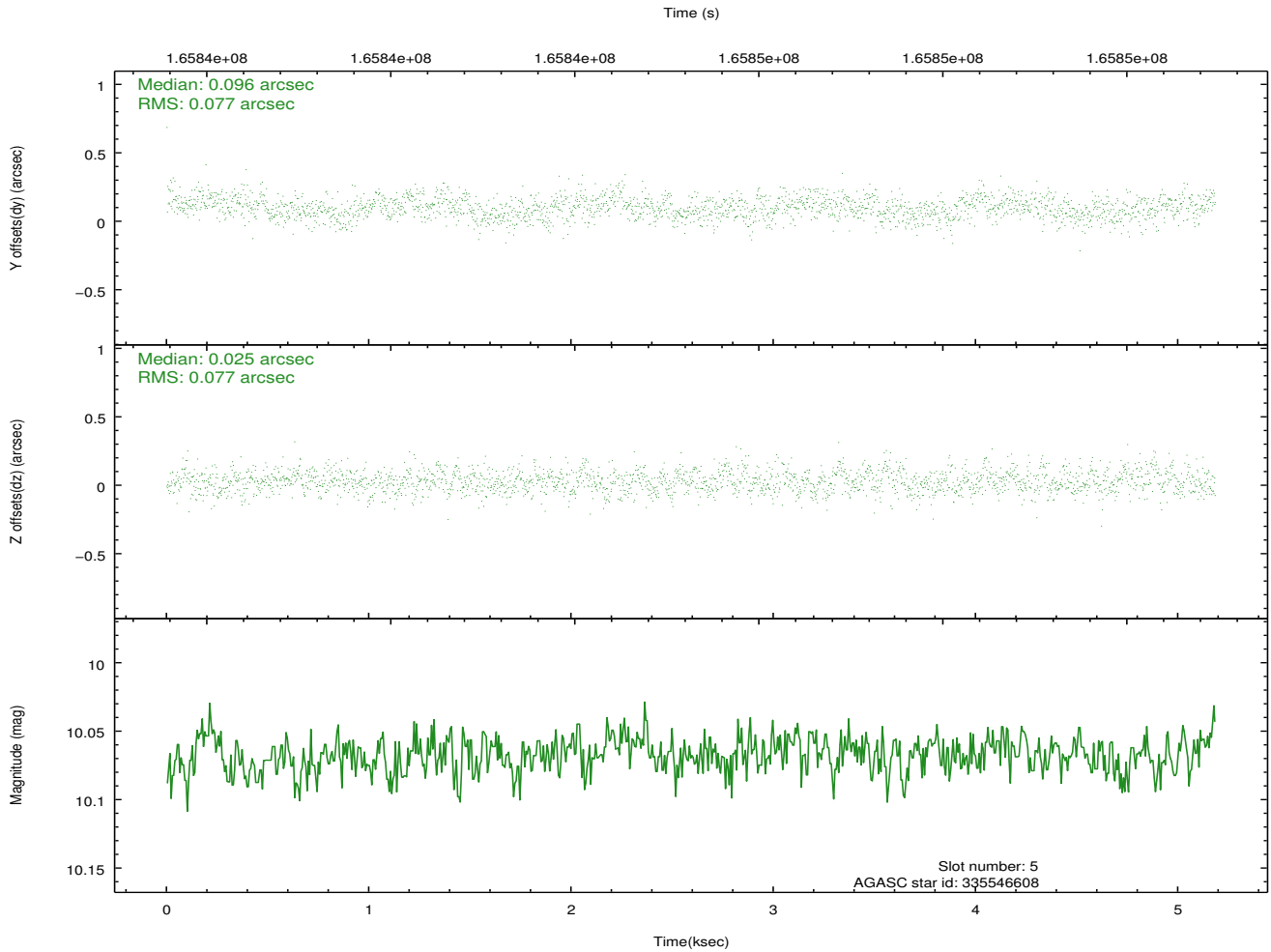
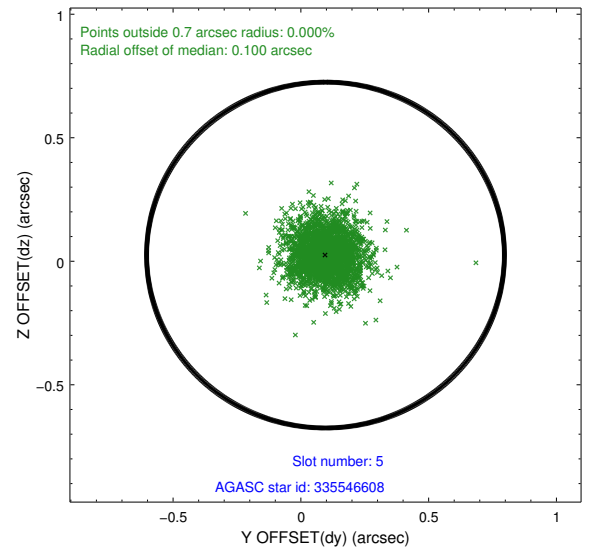
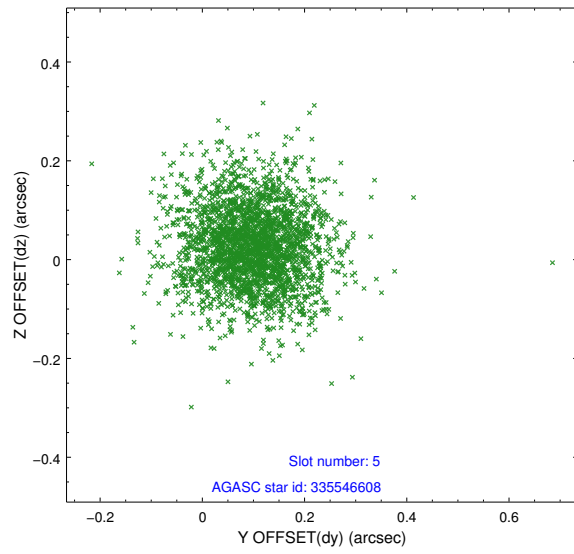
### 2.4.1 Slot 3



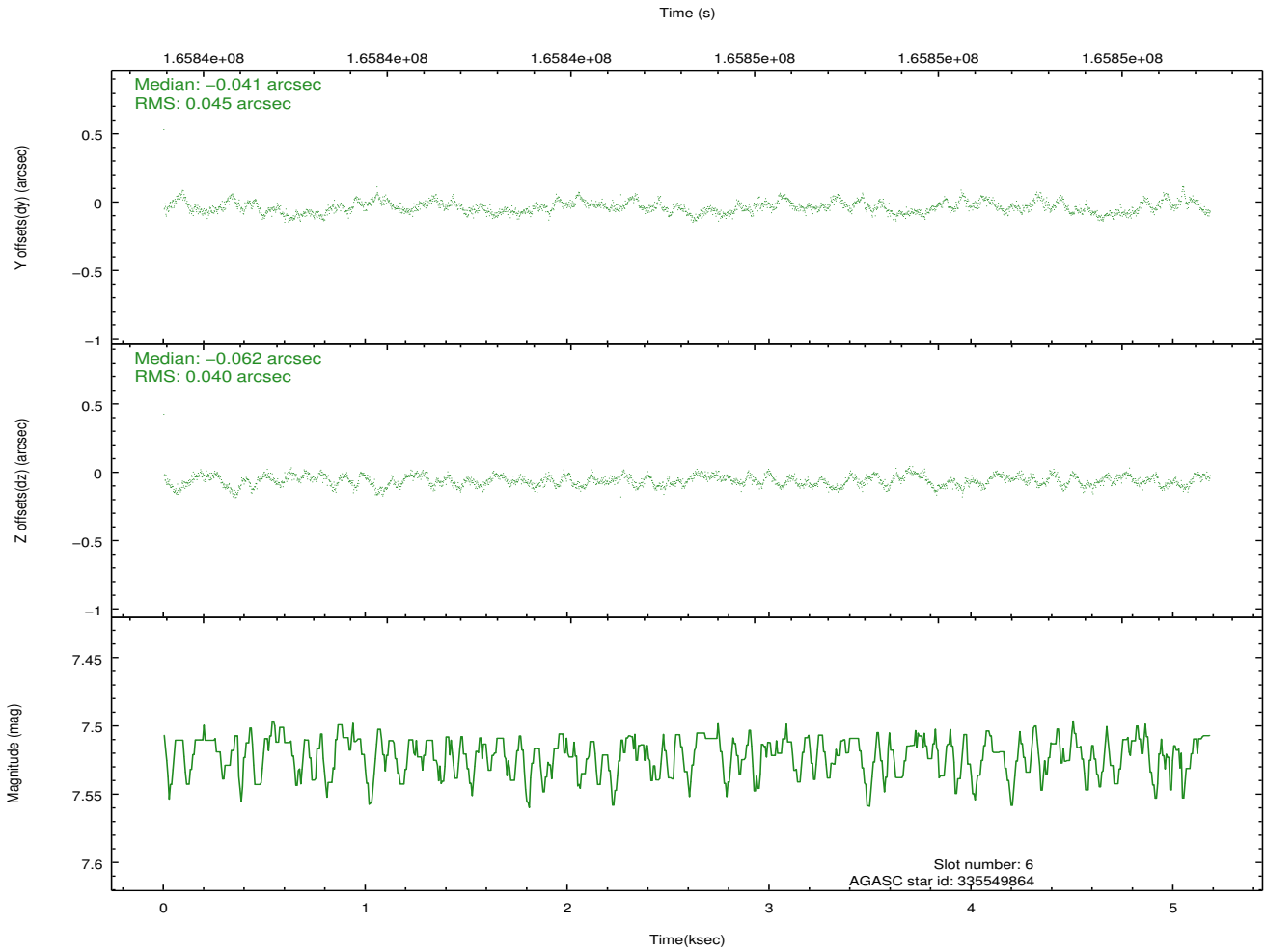
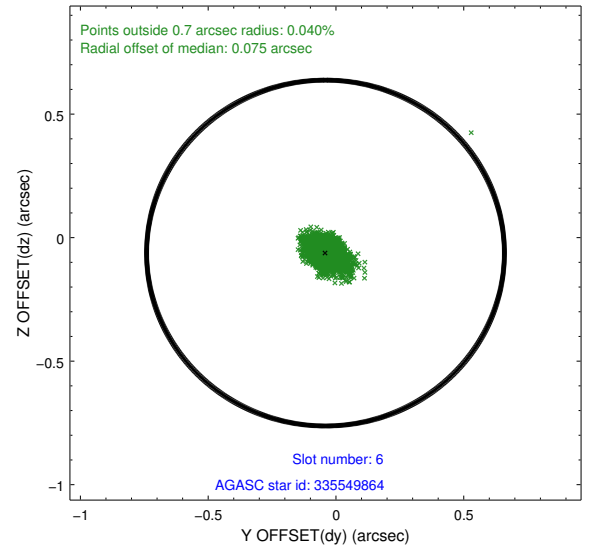
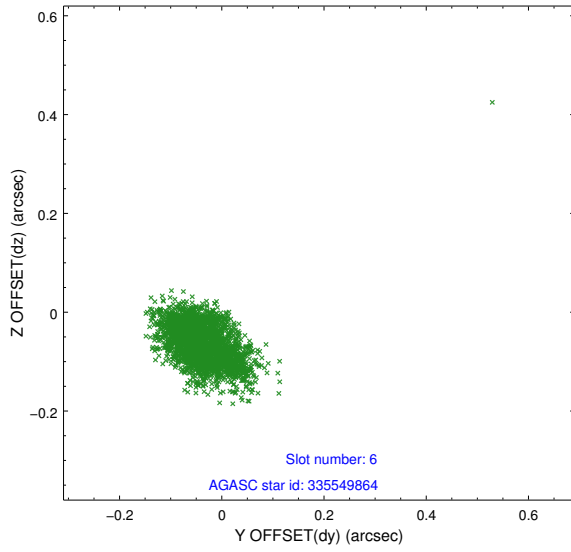
## 2.4.2 Slot 4



### 2.4.3 Slot 5

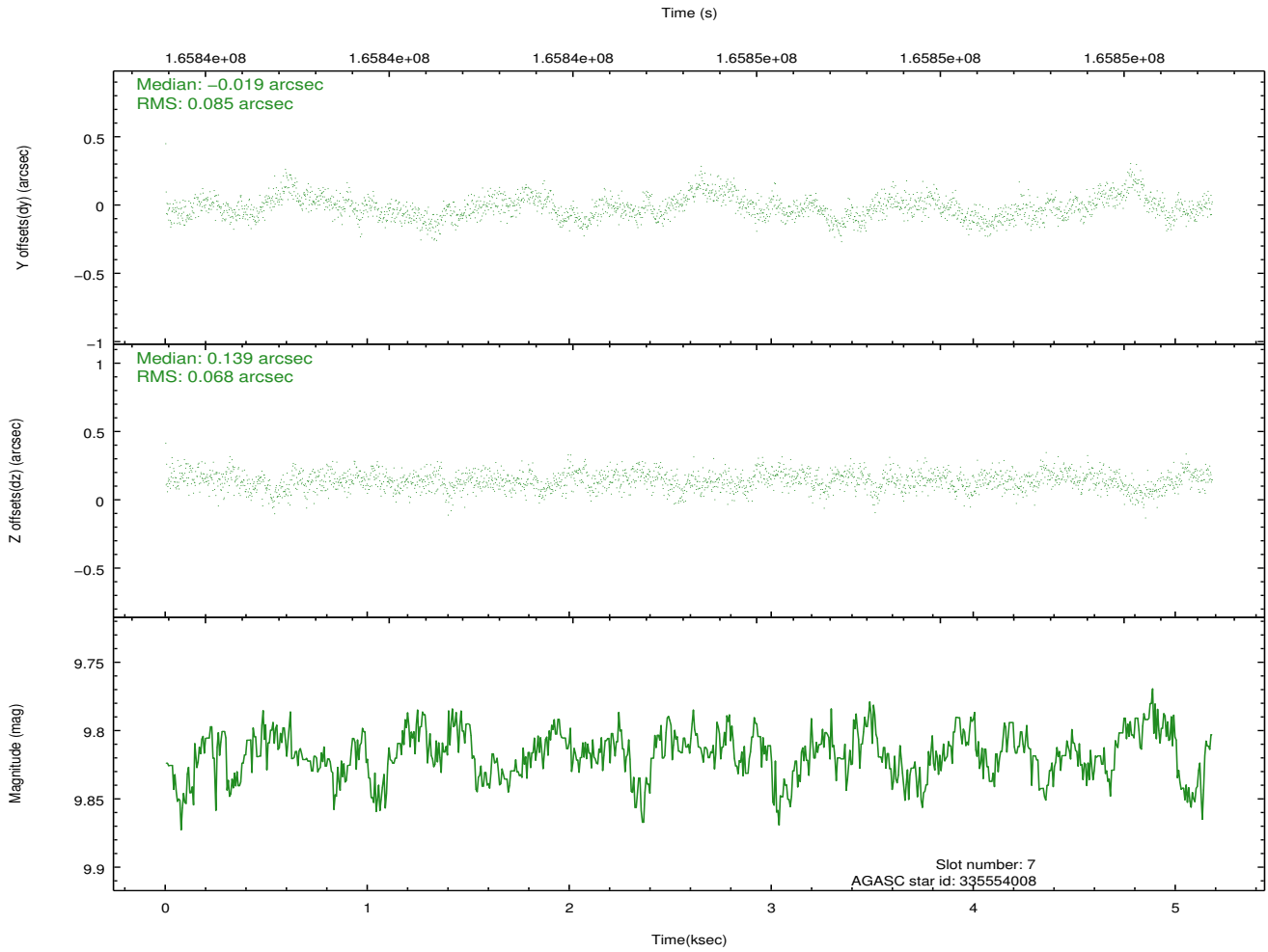
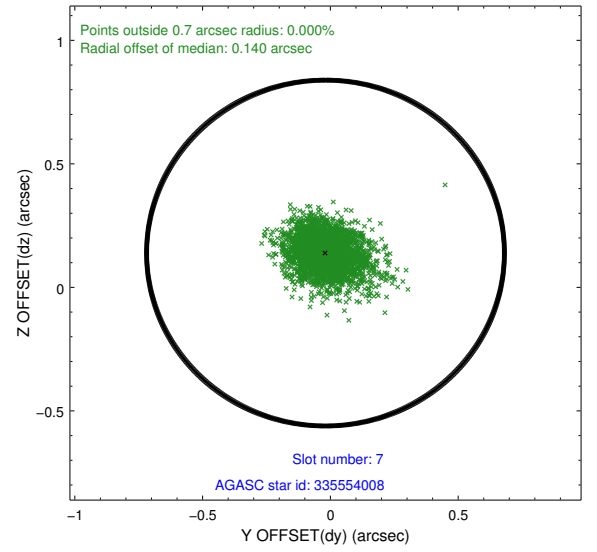
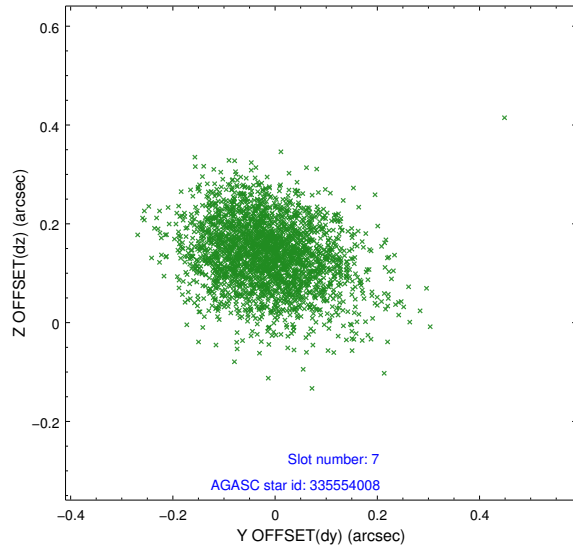


## 2.4.4 Slot 6



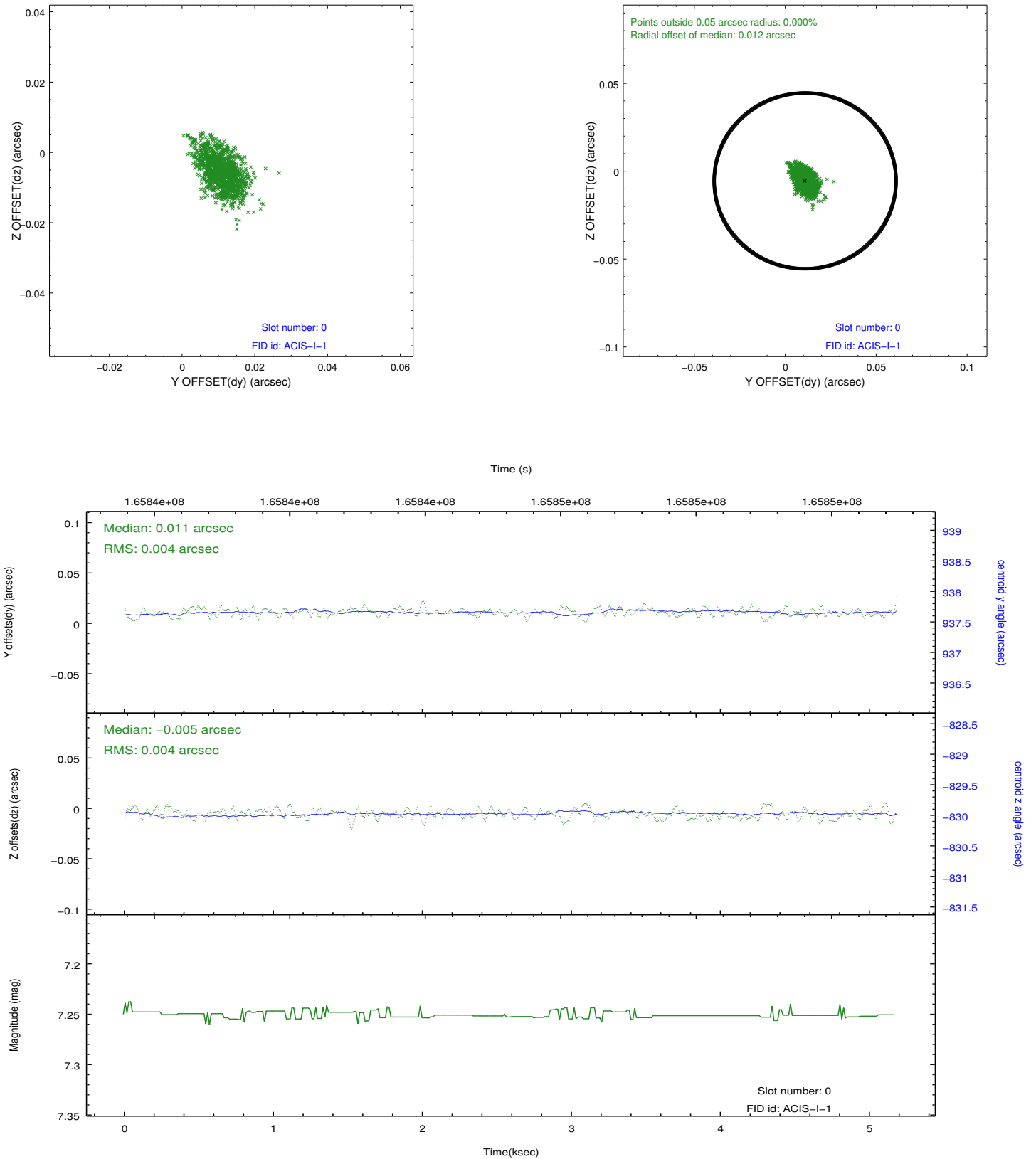


## 2.4.5 Slot 7

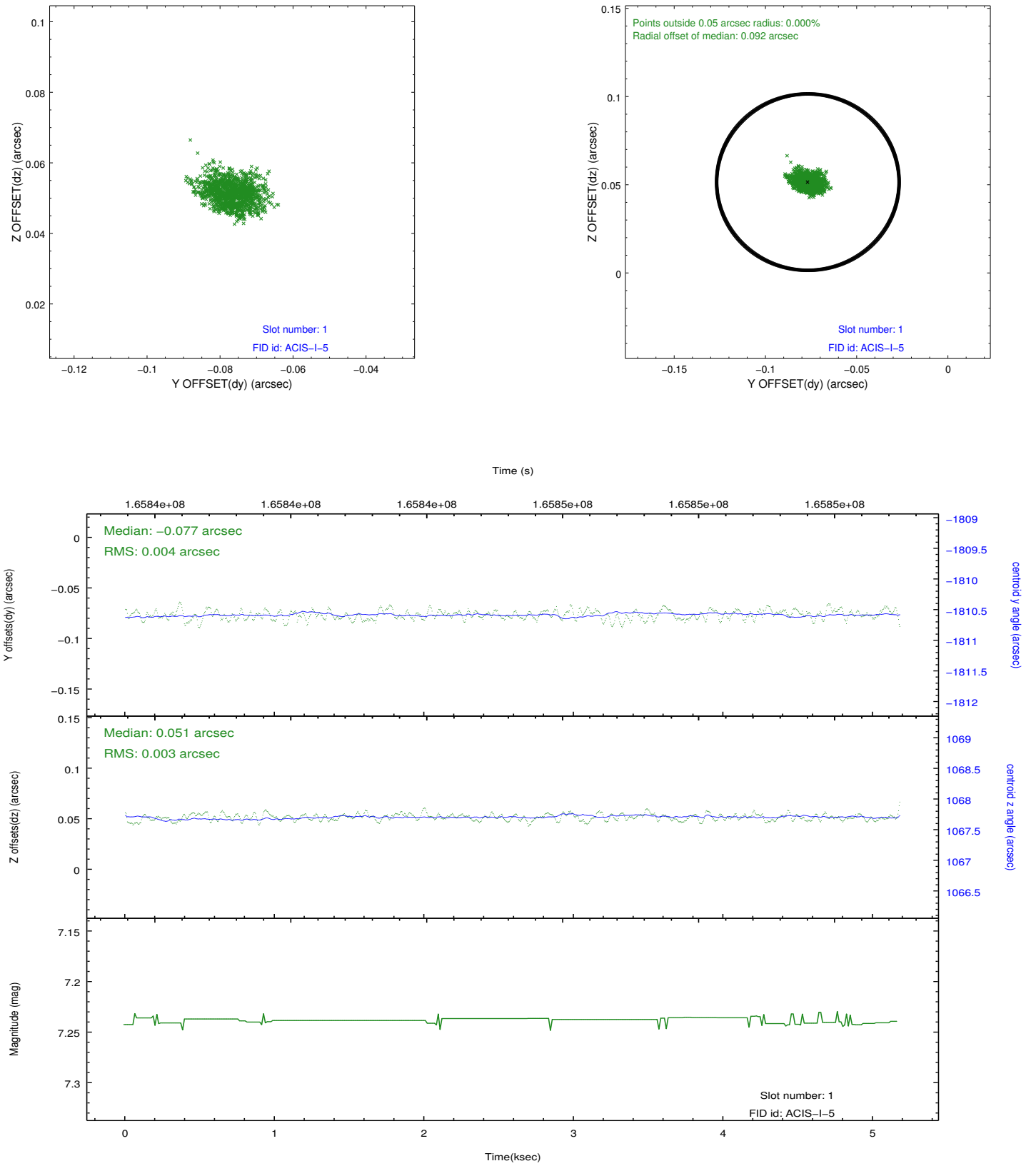


## 2.5 FID Slots

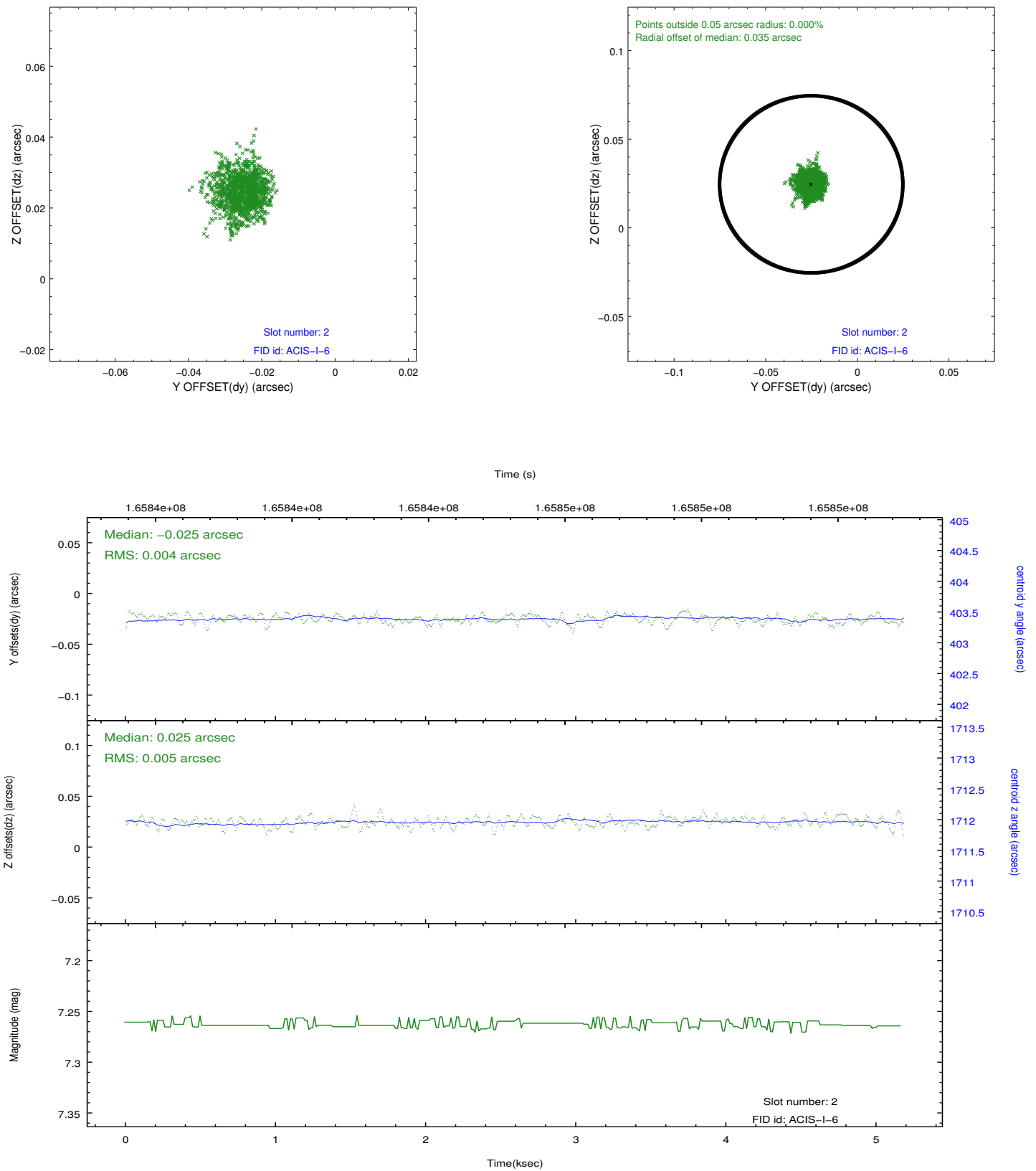
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.11.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.773

### A.2 Comments