

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9403 - L2 Version 2  
Chandra X-Ray Center

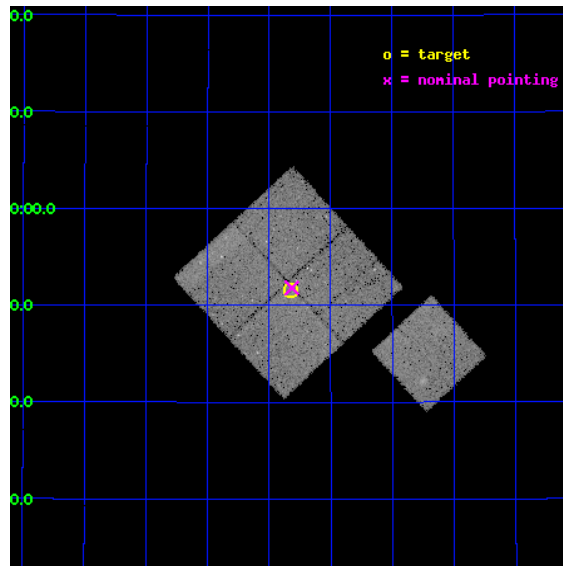
L2 Processing Date : May 11 2012

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# 1 Front

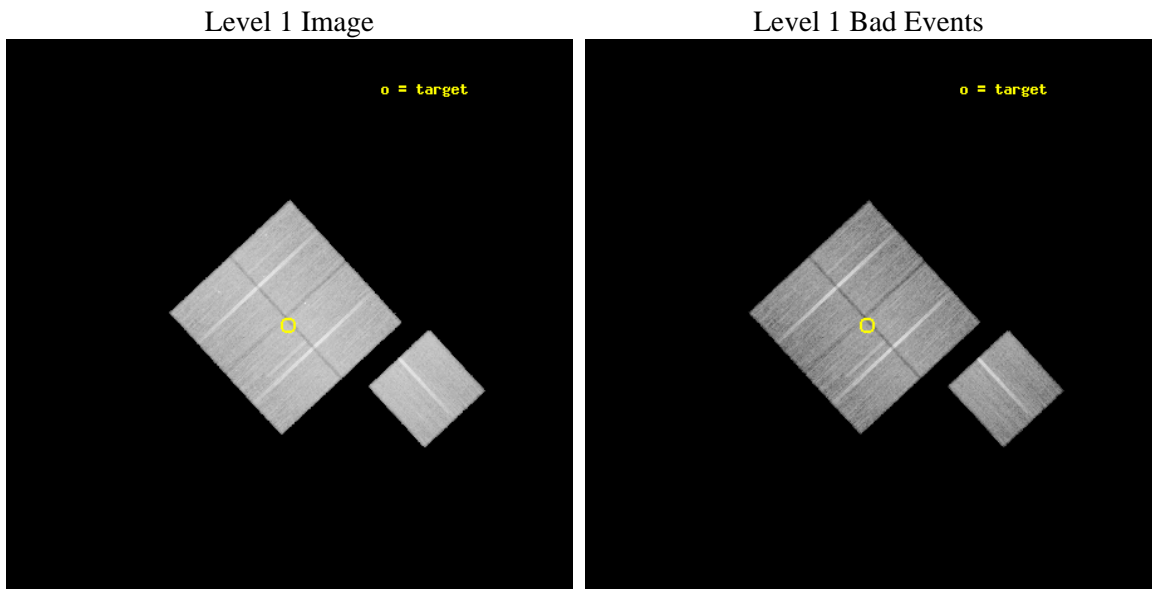
seq_num	800740	Sequence number
obs_id	9403	Observation id
title	The Active Galaxy Population in a Supercluster at z = 0.7	Proposal
observer	Prof Lori Lubin	Principal investigator
object	SC1324+3051	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	201.20625	Observer's specified target RA [deg]
dec_targ	30.859472	Observer's specified target Dec [deg]
ra_nom	201.20389190209	Nominal RA [deg]
dec_nom	30.863731721856	Nominal Dec [deg]
roll_nom	137.20988928886	Nominal Roll [deg]
revision	2	Processing version of data
ontime	27295.418239355	Sum of GTIs [s]
livetime	26938.783505463	Livetime [s]
ontime0	27301.700209975	Sum of GTIs [s]
ontime1	27295.418229401	Sum of GTIs [s]
ontime2	27295.418358862	Sum of GTIs [s]
ontime3	27295.418239355	Sum of GTIs [s]
ontime6	27298.559229732	Sum of GTIs [s]
l2events	92744	Number of level 2 events



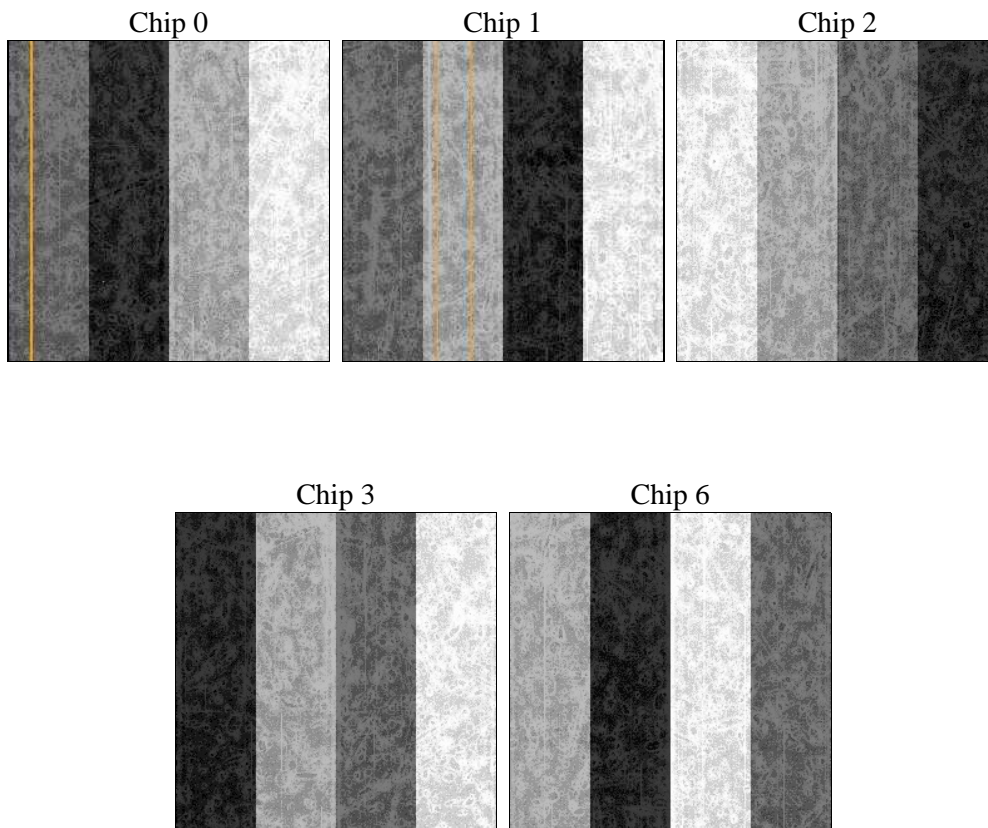
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27153.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	27295.418239355	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	27301.700209975	Sum of GTIs [s]
date	2012-05-11T13:39:40	Date and time of file creation	ontime1	27295.418229401	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	27295.418358862	Sum of GTIs [s]
			ontime3	27295.418239355	Sum of GTIs [s]
			ontime6	27298.559229732	Sum of GTIs [s]
			l1events	1073917	Number of level 1 events

### 2.1.4 Events

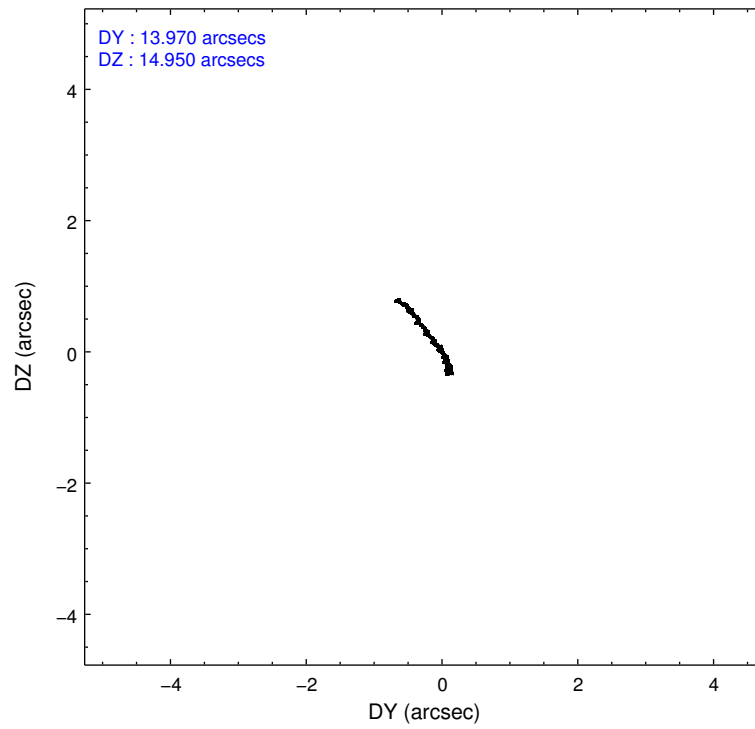
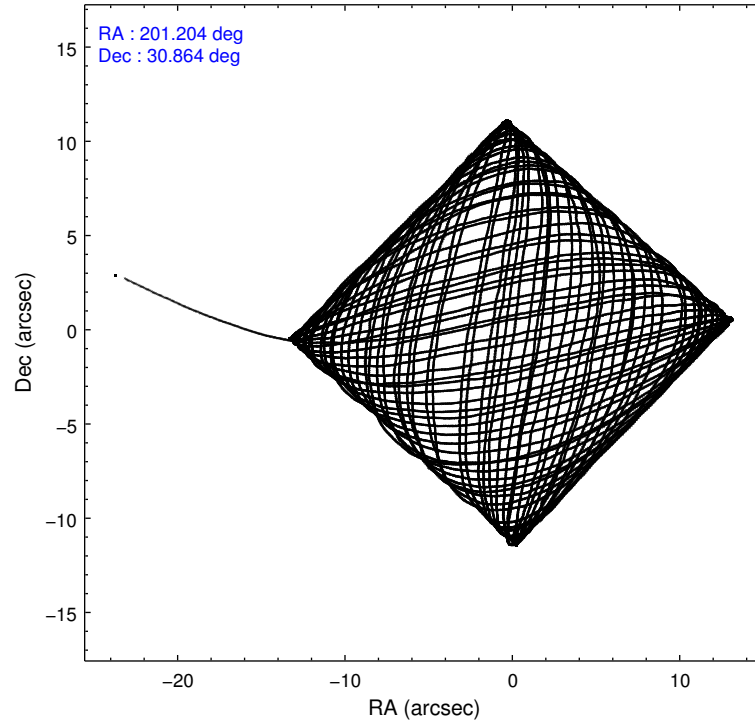
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	207028	203221	227094	218162	218412
rejected events	184594	179077	205362	197488	196009
rejected %	89%	88%	90%	90%	89%

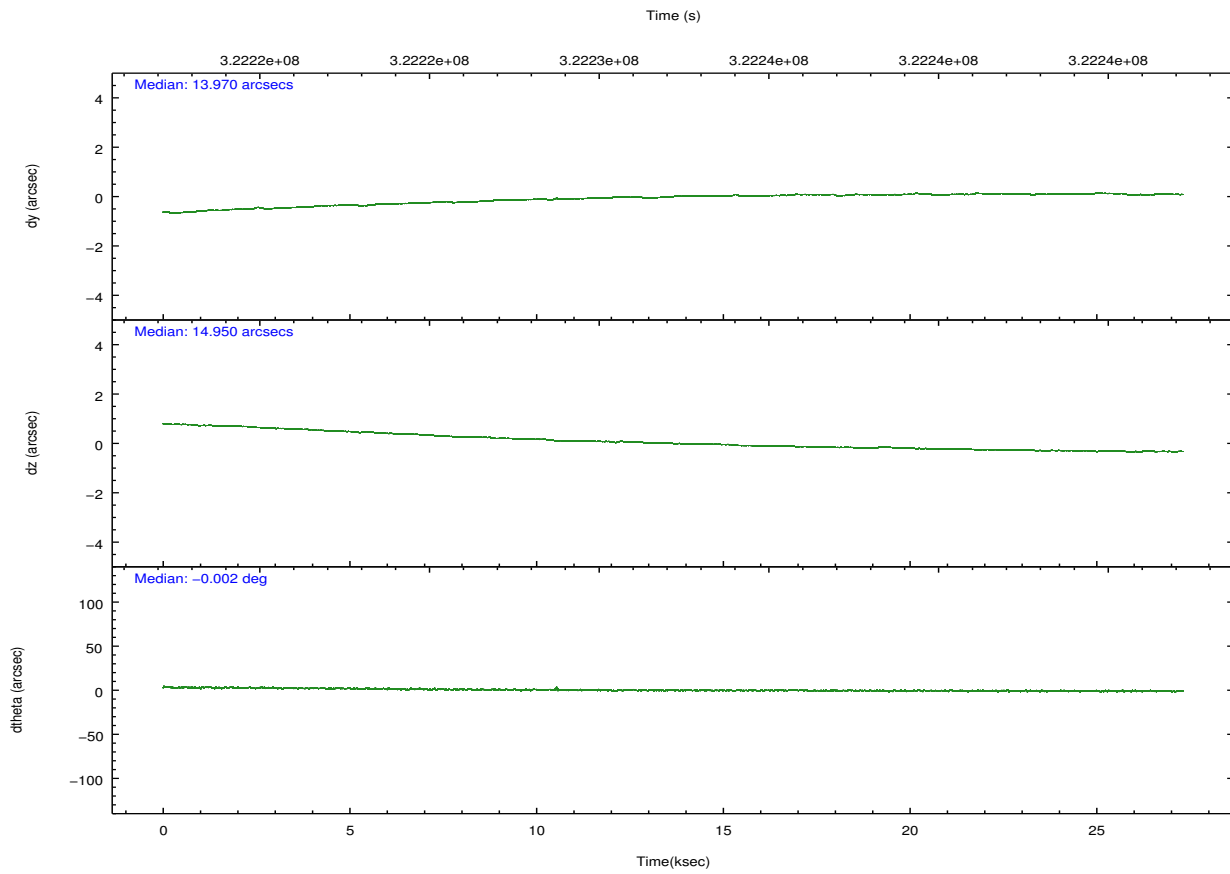
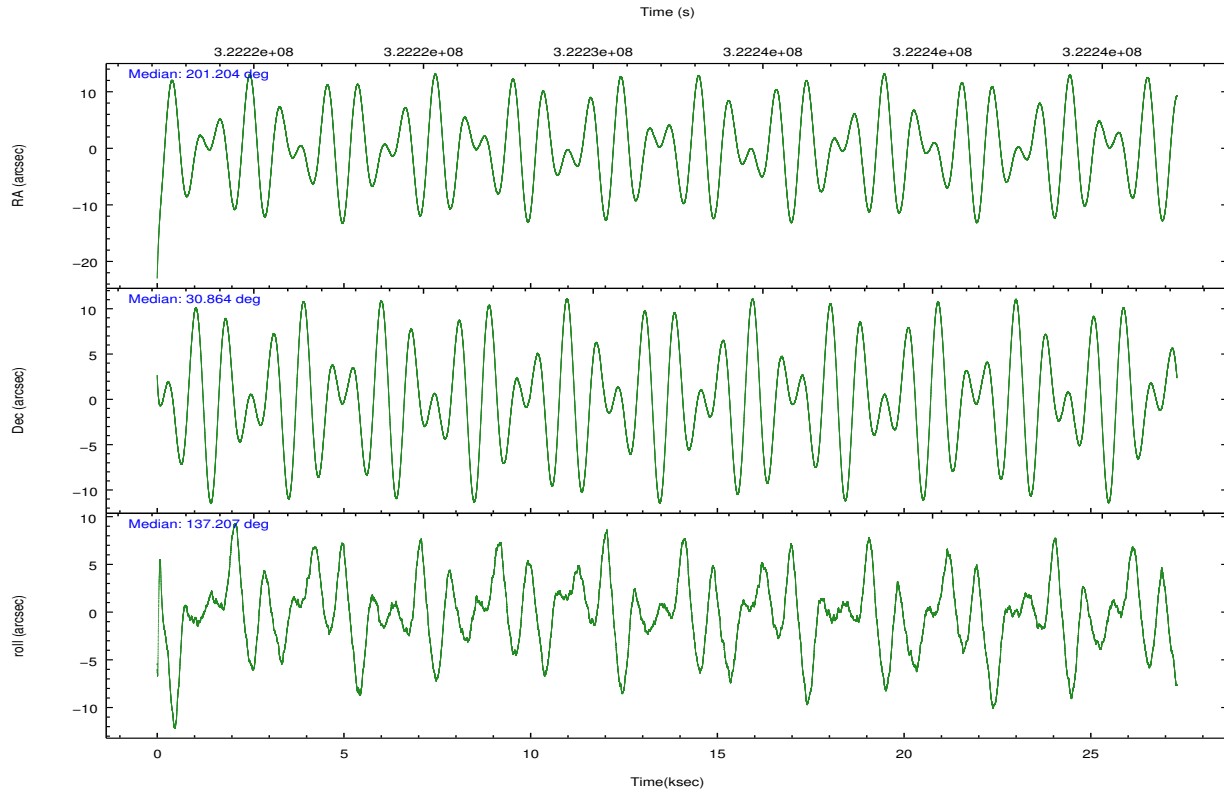
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8193	8950	8121	7426	8043
	3%	4%	3%	3%	3%
grade 1 events	107	118	122	133	101
	0%	0%	0%	0%	0%
grade 2 events	5574	5437	5241	4590	4990
	2%	2%	2%	2%	2%
grade 3 events	2459	2534	2307	2455	2475
	1%	1%	1%	1%	1%
grade 4 events	2294	2610	2314	2352	2438
	1%	1%	1%	1%	1%
grade 5 events	7966	8611	7536	9055	8616
	3%	4%	3%	4%	3%
grade 6 events	4316	5033	4094	4191	4858
	2%	2%	1%	1%	2%
grade 7 events	176119	169928	197359	187960	186891
	85%	83%	86%	86%	85%

## 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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	201.235170	201.203891902094	CCD I2 on	Y	Y
[deg] Pointing Dec	30.857735	30.86373172185592	CCD I3 on	Y	Y
[deg] Pointing Roll	136.985172	137.2098892888605	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	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	322218681.184000	322217474.26474	CCD S5 on	N	N
Observation start date	2008-03-18T09:10:16	2008-03-18T08:51:14	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	322245834.184000	322246778.50367	On-chip summing requested	N	N
Observation end date	2008-03-18T16:42:49	2008-03-18T16:59:38	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



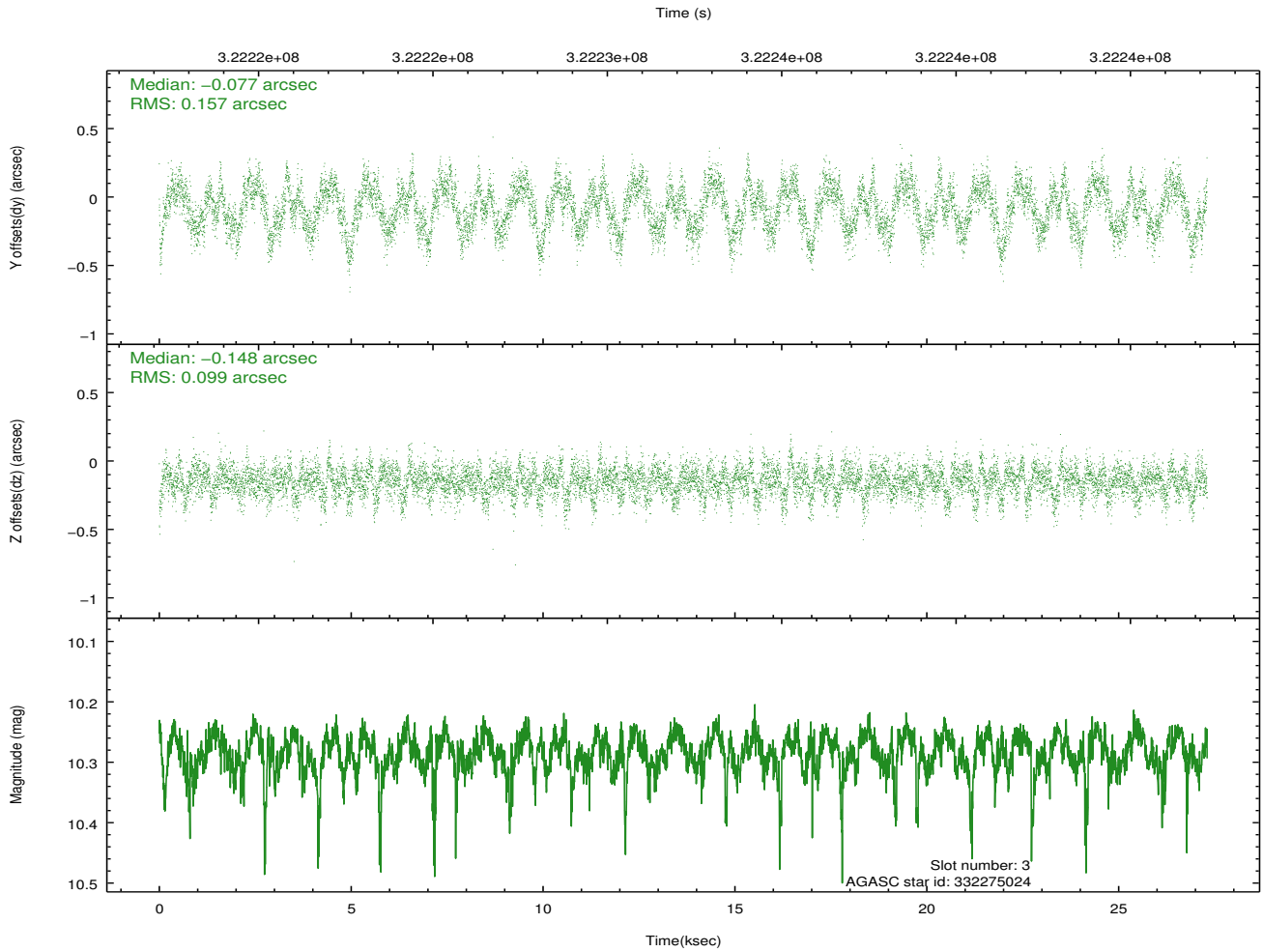
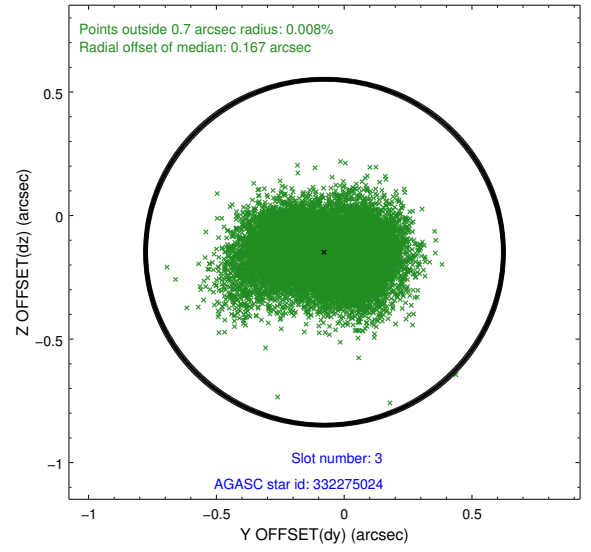
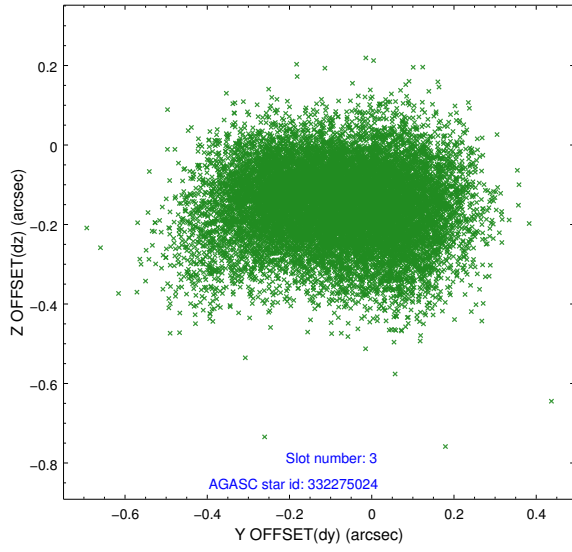


### Slot Statistics

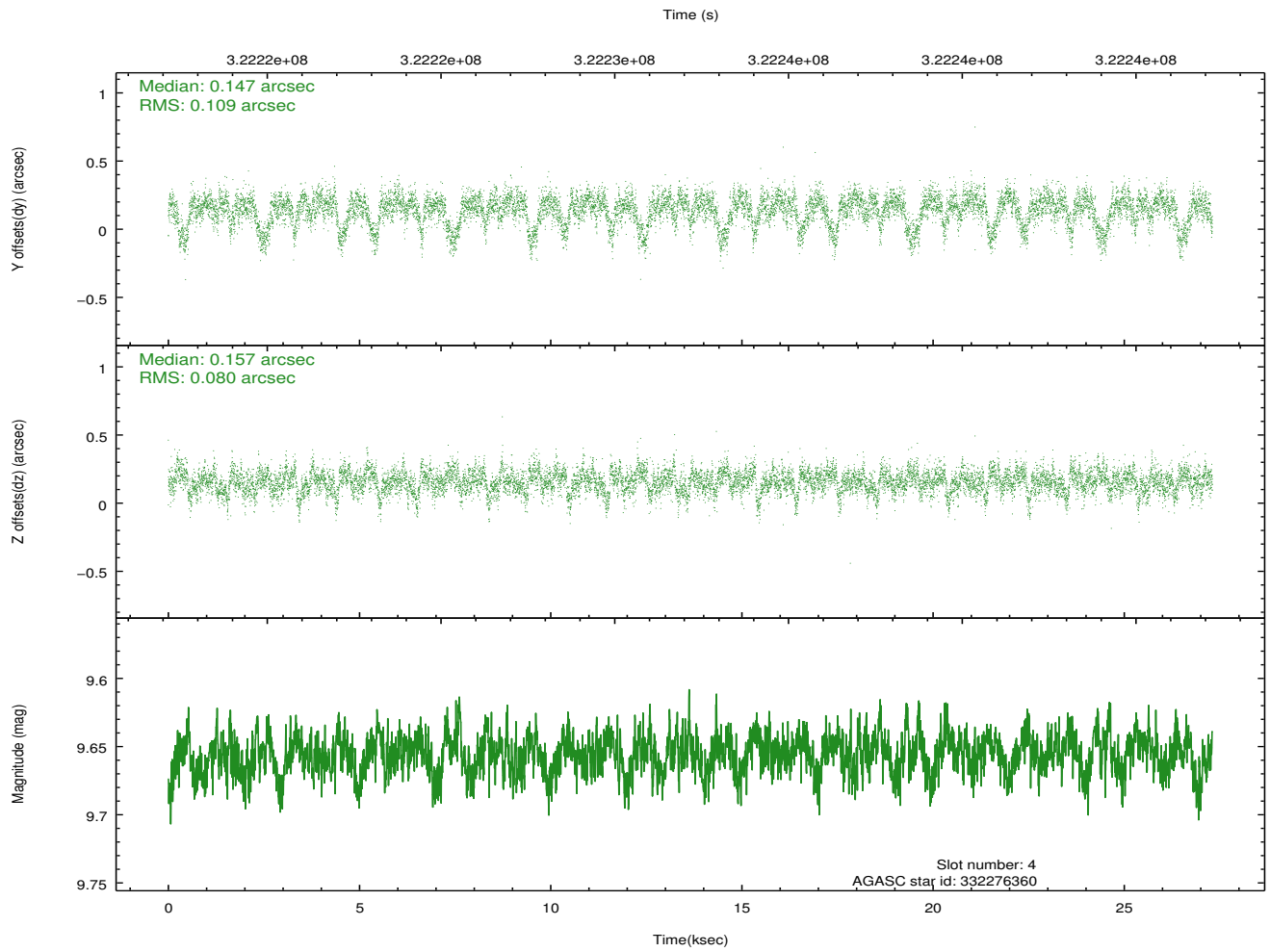
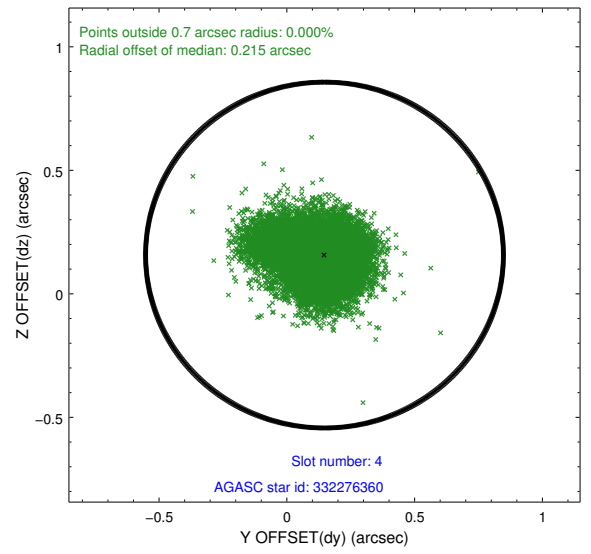
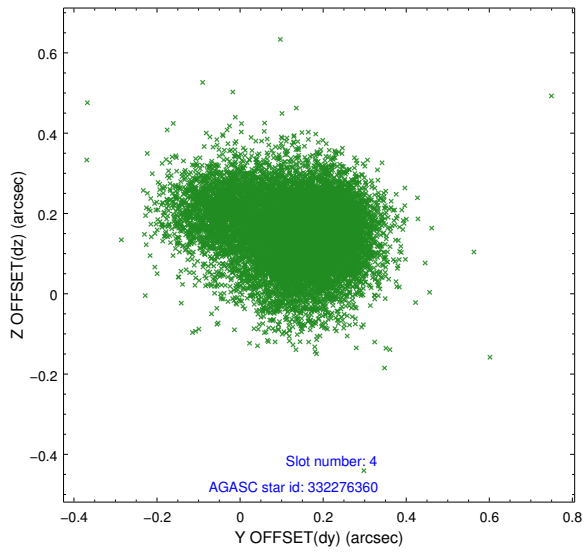
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	6660	0.036	-0.017	0.018	0.033	0.000000	0.000000	925.66	-838.66
1	FID	ACIS-I-5	7.22	6660	-0.210	0.039	0.008	0.015	0.000000	0.000000	-1822.64	1058.85
2	FID	ACIS-I-6	7.24	6660	0.083	0.049	0.015	0.027	0.000000	0.000000	391.15	1703.47
3	GUIDE	332275024	10.28	13292	-0.077	-0.148	0.198	0.322	200.716549	30.947068	1393.35	855.42
4	GUIDE	332276360	9.66	13309	0.147	0.157	0.139	0.248	200.487946	31.060060	2187.35	1034.35
5	GUIDE	332400040	8.92	13305	0.029	-0.025	0.103	0.160	201.663081	30.837002	-1015.91	-849.14
6	GUIDE	332401000	9.57	13297	0.049	-0.072	0.133	0.228	201.249948	30.730833	-345.38	303.81
7	GUIDE	332402160	8.15	13318	-0.139	0.099	0.085	0.170	201.528672	30.702288	-1044.70	-210.98

## 2.4 Star Slots

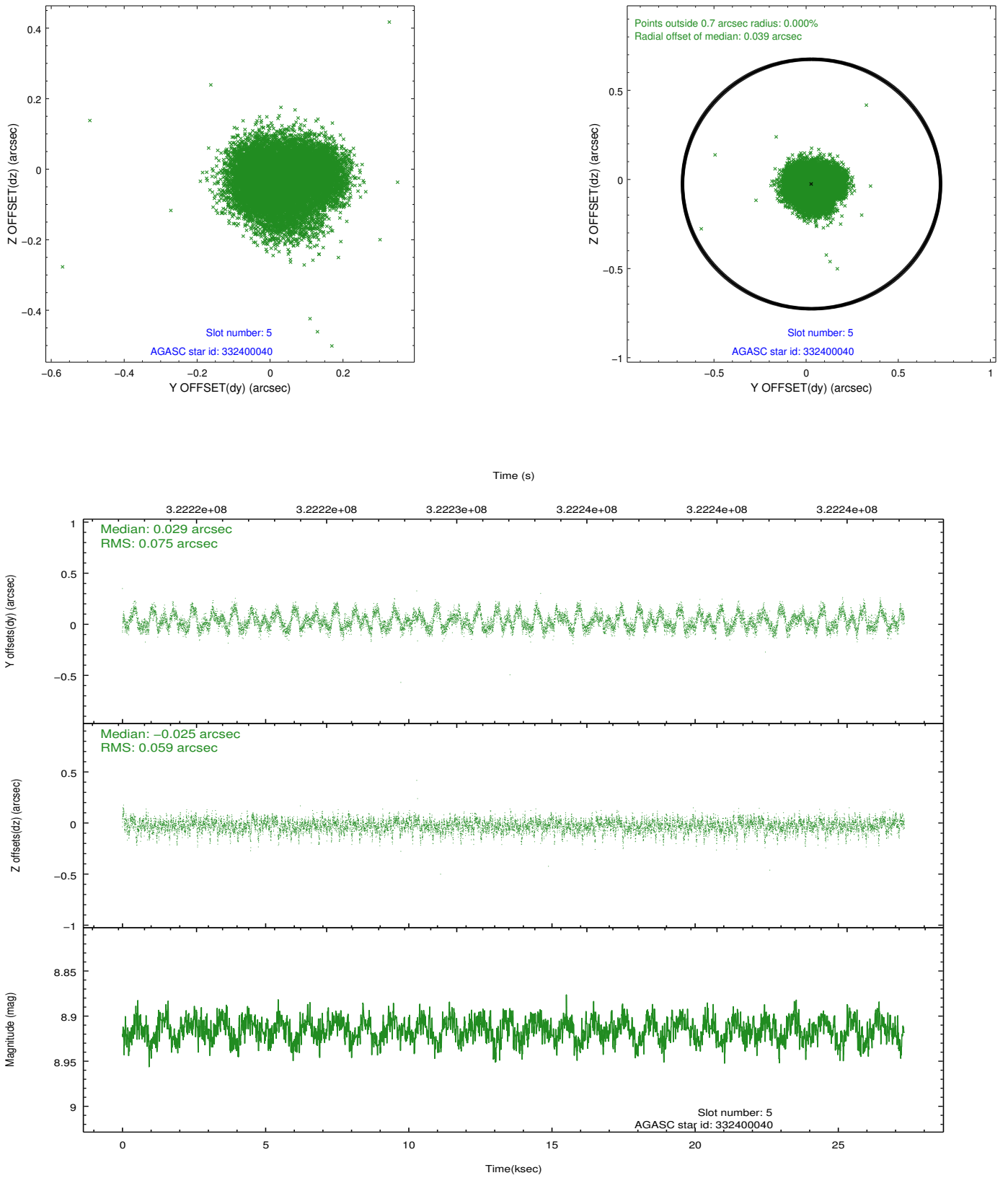
### 2.4.1 Slot 3



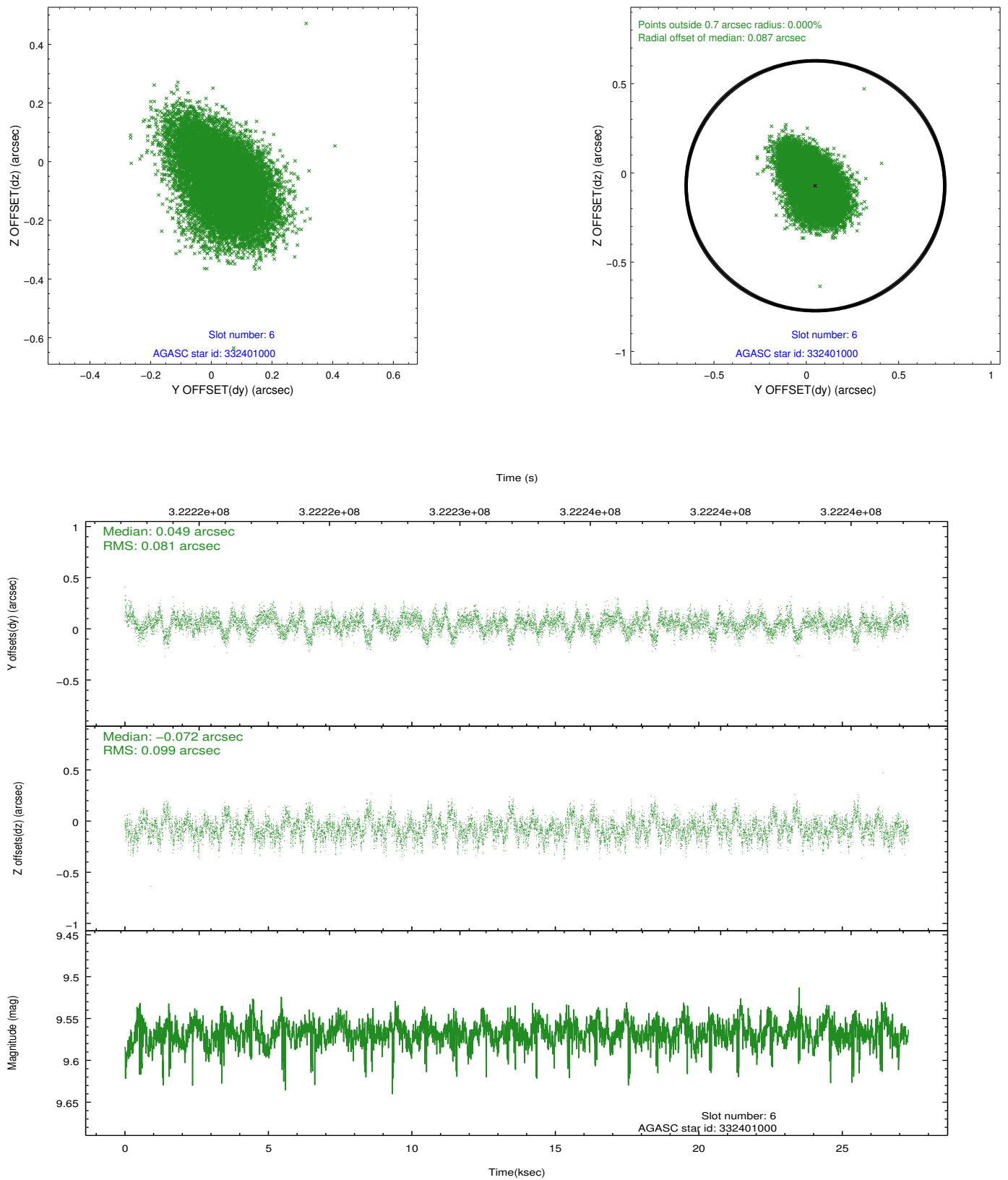
## 2.4.2 Slot 4



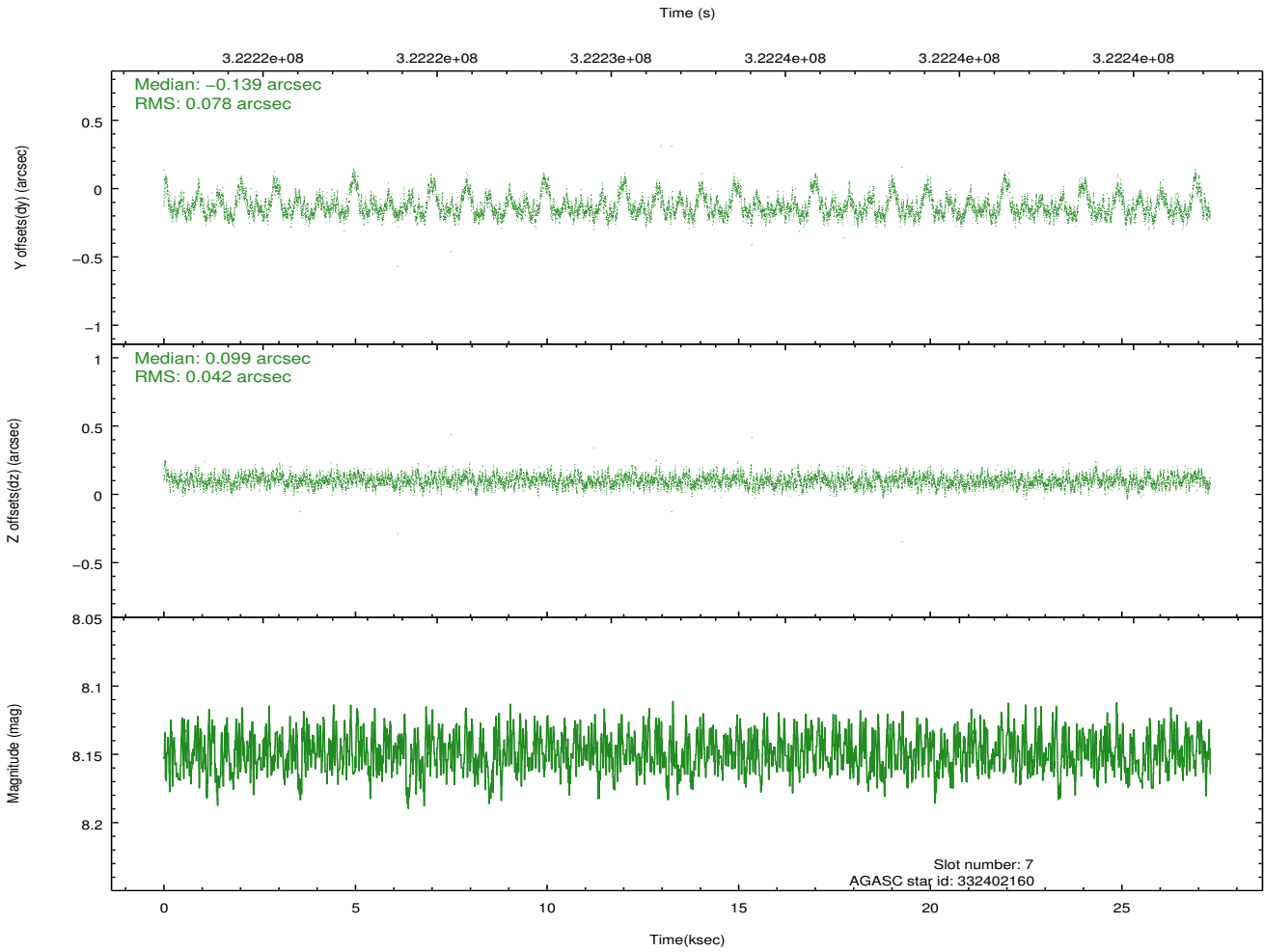
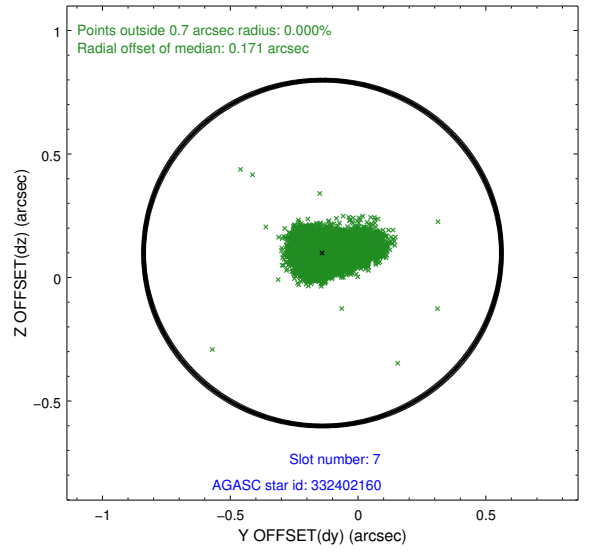
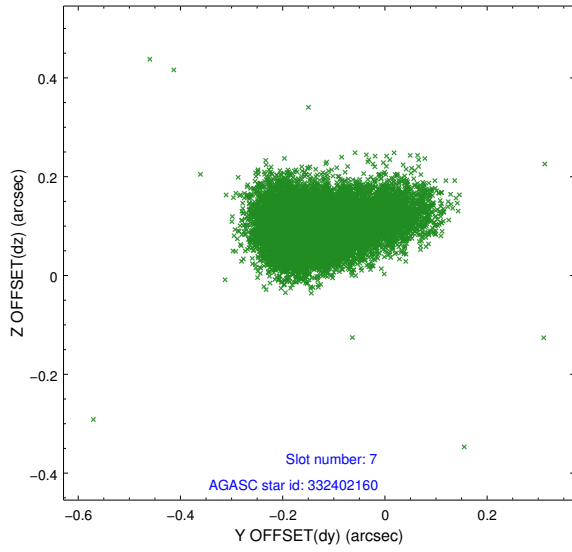
### 2.4.3 Slot 5



## 2.4.4 Slot 6

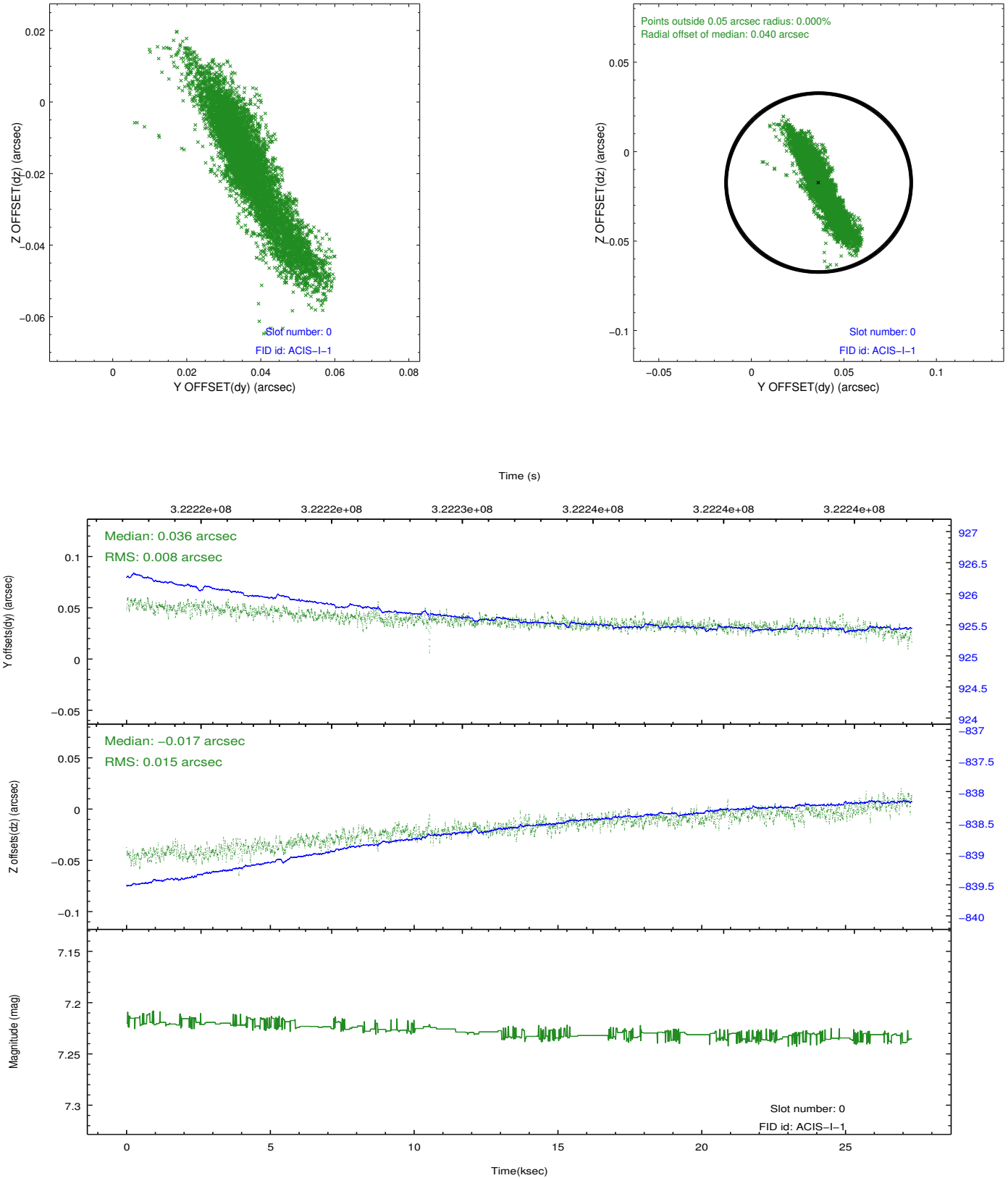


### 2.4.5 Slot 7

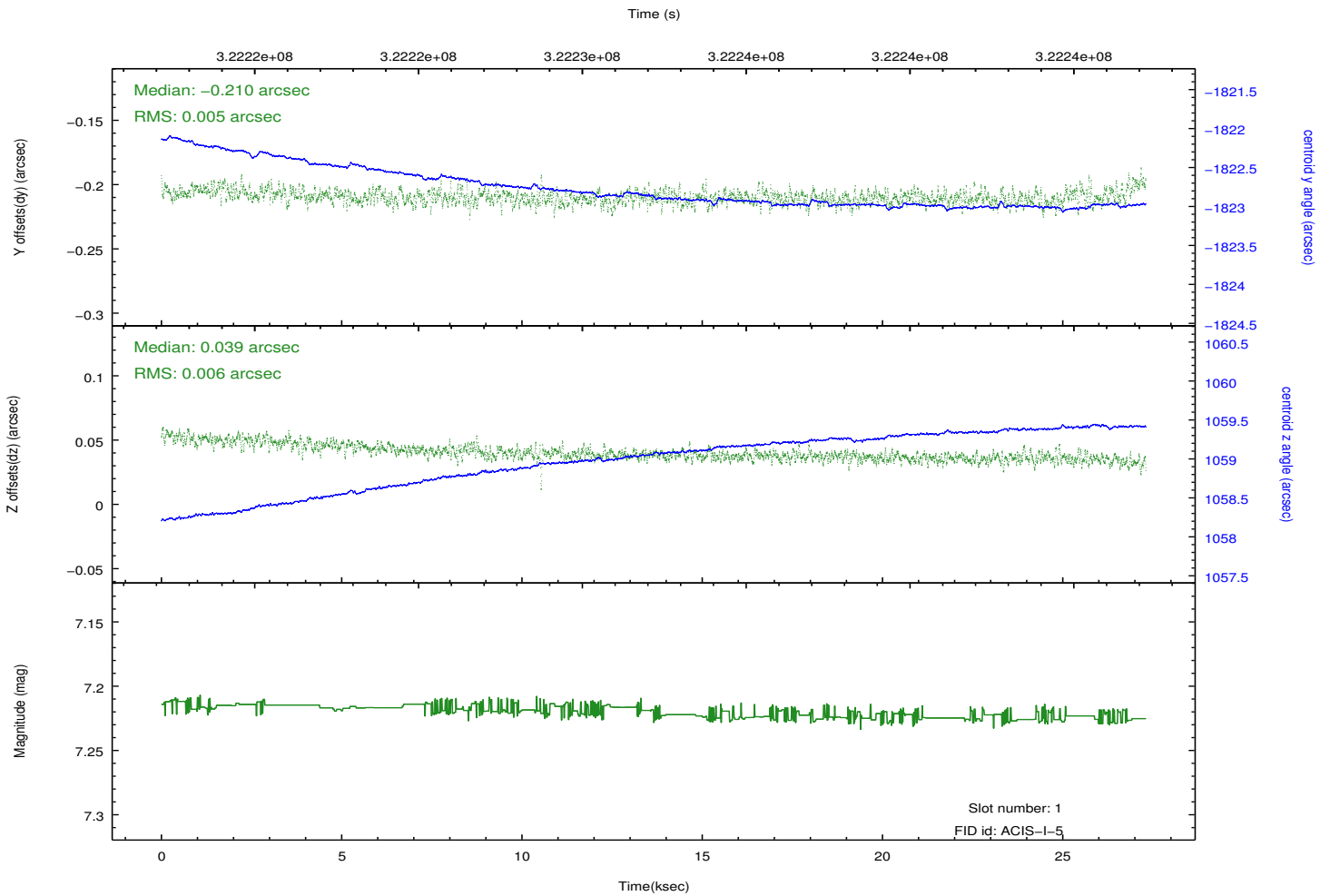
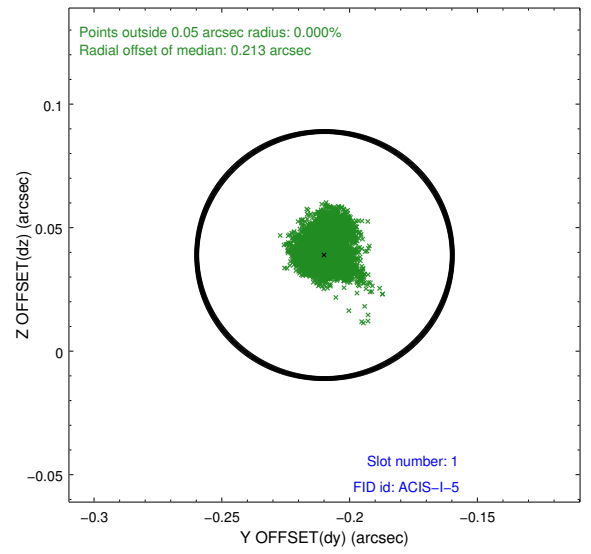
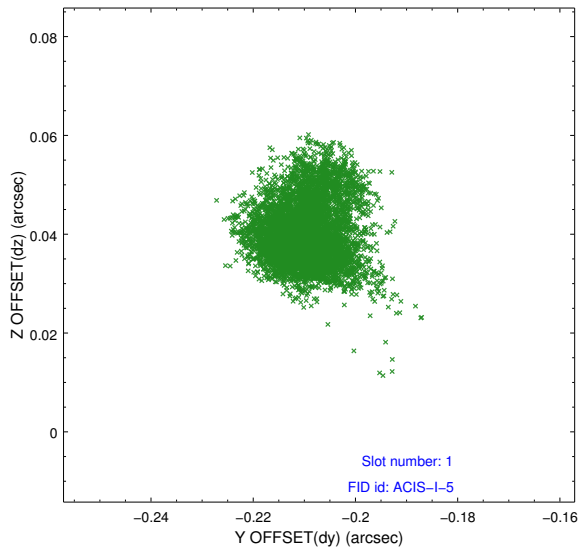


## 2.5 FID Slots

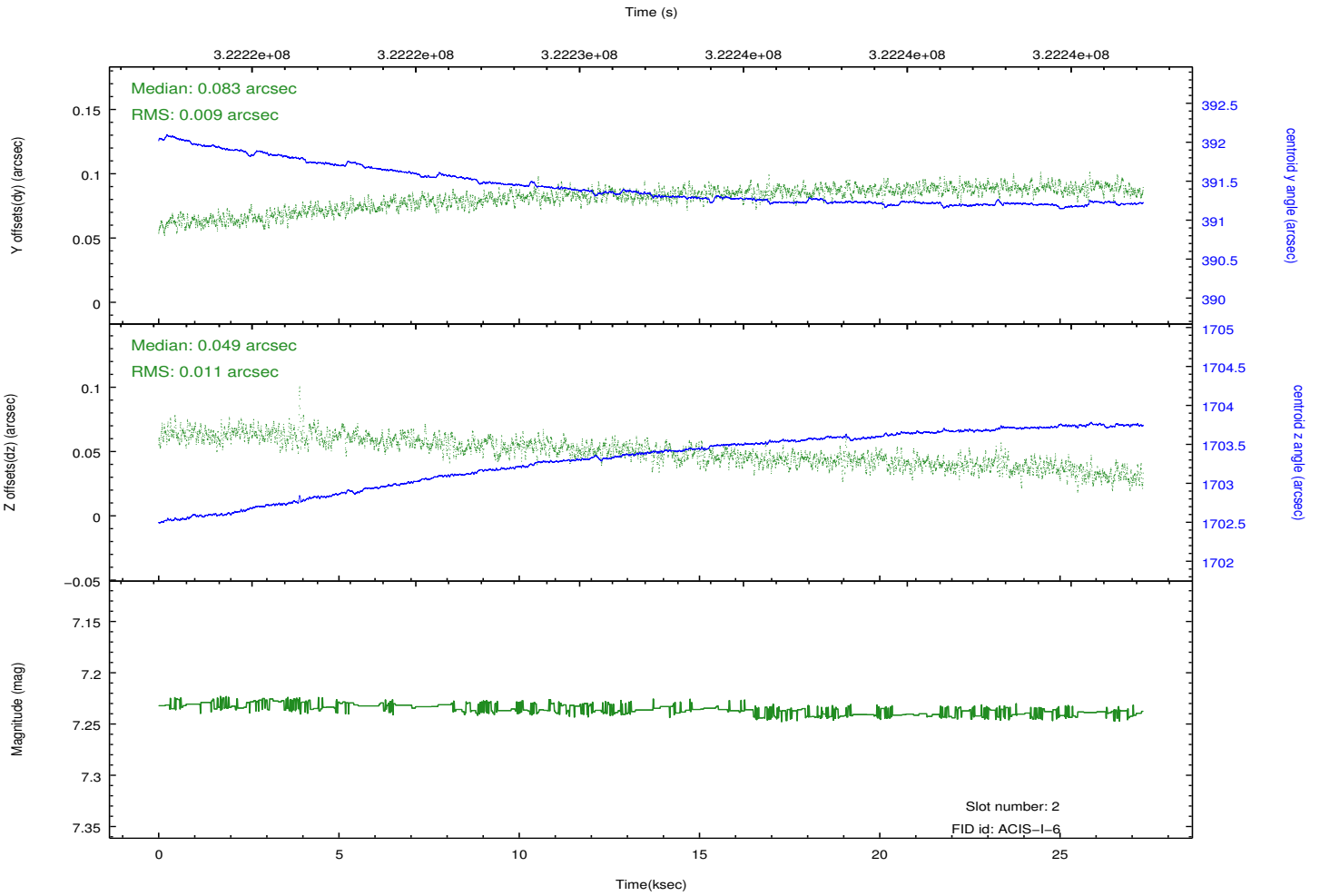
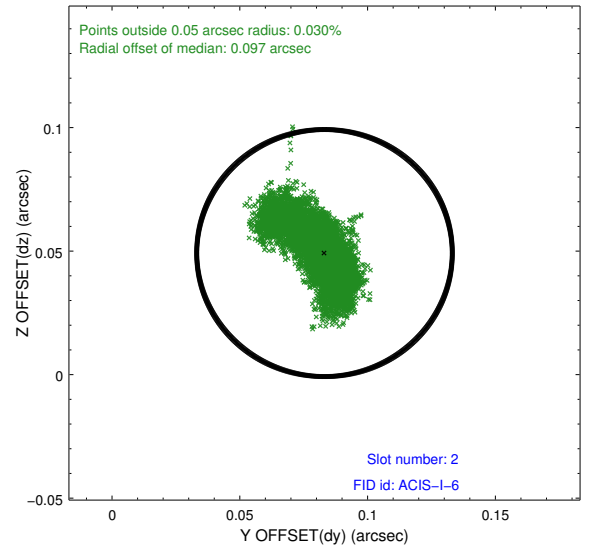
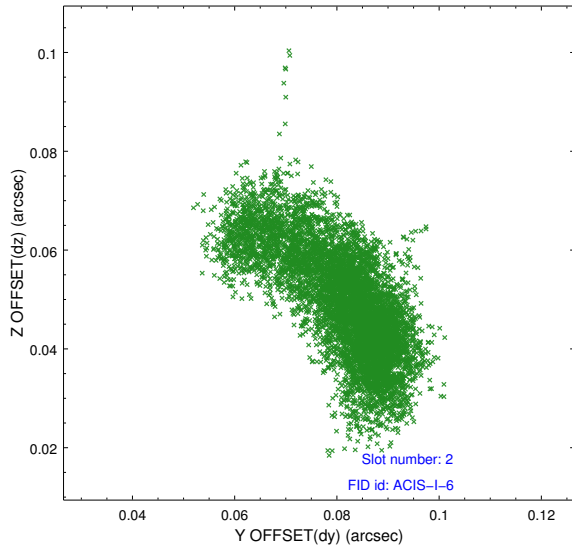
### 2.5.1 Slot 0



## 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)	2012.05.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.2954182

## A.2 Comments

Joint proposal with NRAO.