

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 13427 - L2 Version 2  
Chandra X-Ray Center

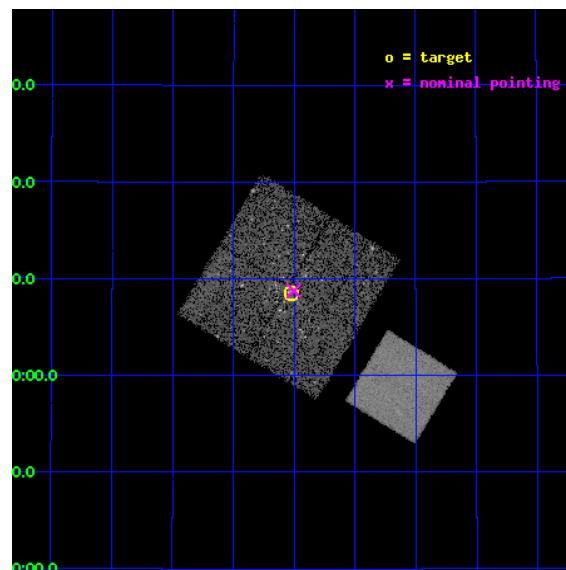
L2 Processing Date : Mar 2 2012

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# 1 Front

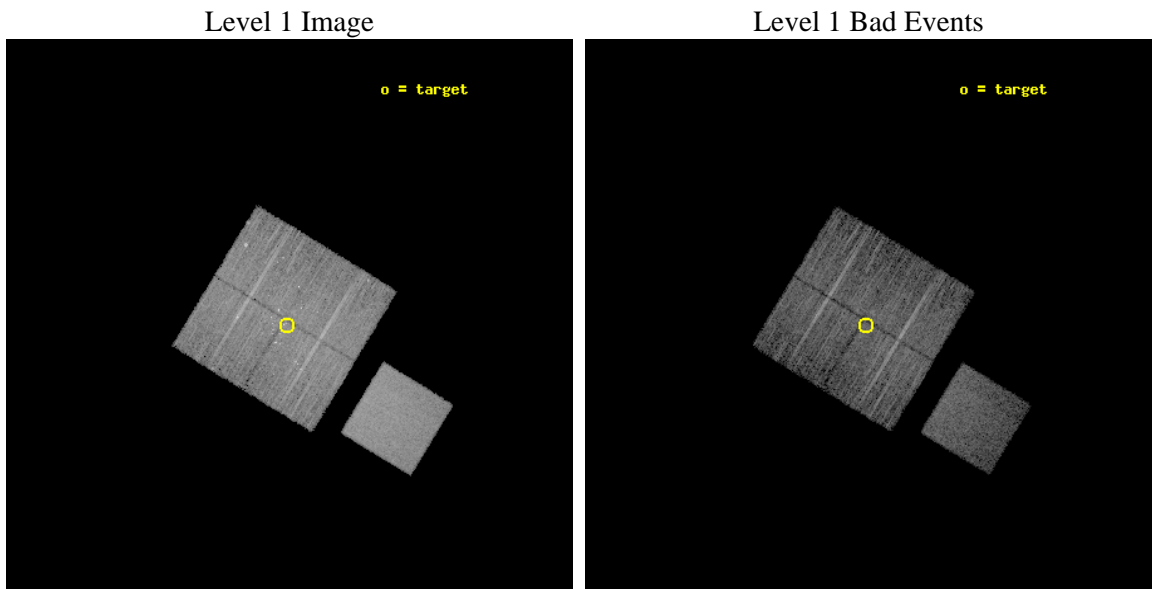
seq_num	200749	Sequence number
obs_id	13427	Observation id
title	Connecting Young Stellar Object Variability Across the Great Observatories: A Combined Spitzer and Chandra Study	Proposal title
observer	Dr. Kevin Flaherty	Principal investigator
object	IC 348	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	56.13125	Observer's specified target RA [deg]
dec_targ	32.142694	Observer's specified target Dec [deg]
ra_nom	56.125555632589	Nominal RA [deg]
dec_nom	32.145863746372	Nominal Dec [deg]
roll_nom	121.35645908484	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10044.000077248	Sum of GTIs [s]
livetime	9912.7678219531	Livetime [s]
ontime0	10044.000077248	Sum of GTIs [s]
ontime1	10044.000077248	Sum of GTIs [s]
ontime2	10044.000077248	Sum of GTIs [s]
ontime3	10044.000077248	Sum of GTIs [s]
ontime7	10044.000077248	Sum of GTIs [s]
l2events	65022	Number of level 2 events



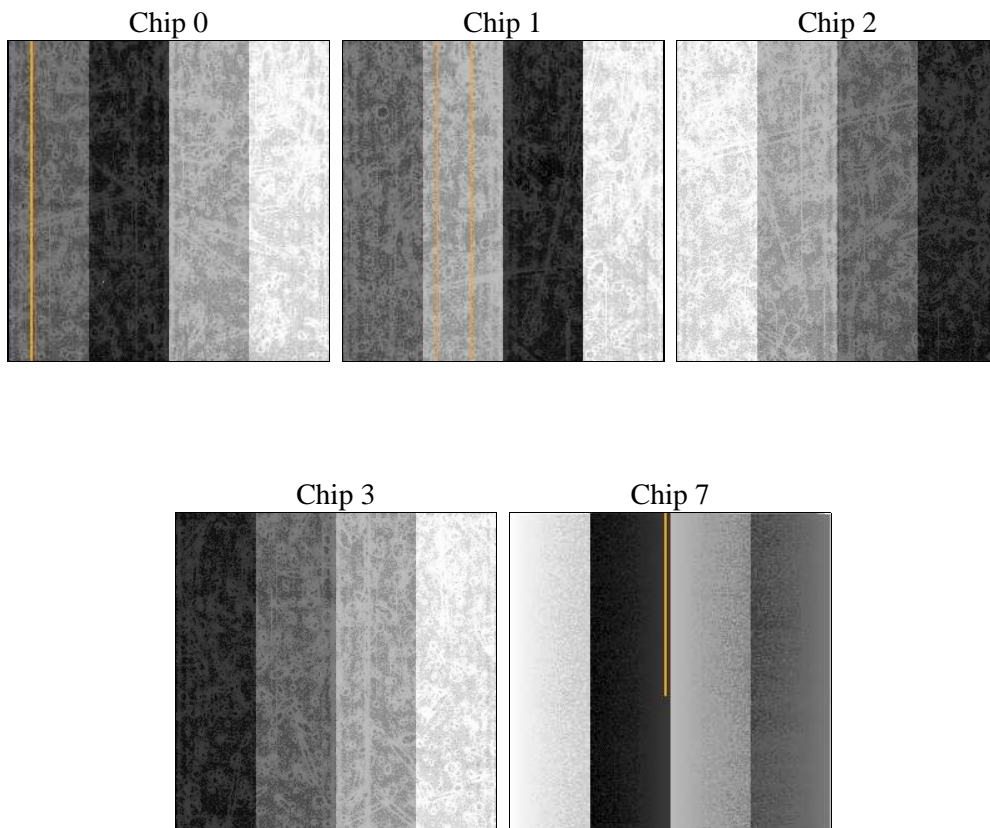
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9999.222000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	10044.000077248	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	10044.000077248	Sum of GTIs [s]
date	2012-03-02T12:53:17	Date and time of file creation	ontime1	10044.000077248	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10044.000077248	Sum of GTIs [s]
			ontime3	10044.000077248	Sum of GTIs [s]
			ontime7	10044.000077248	Sum of GTIs [s]
			l1events	334091	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	64038	60108	63210	65728	81007
rejected events	53393	50619	55231	56641	46224
rejected %	83%	84%	87%	86%	57%

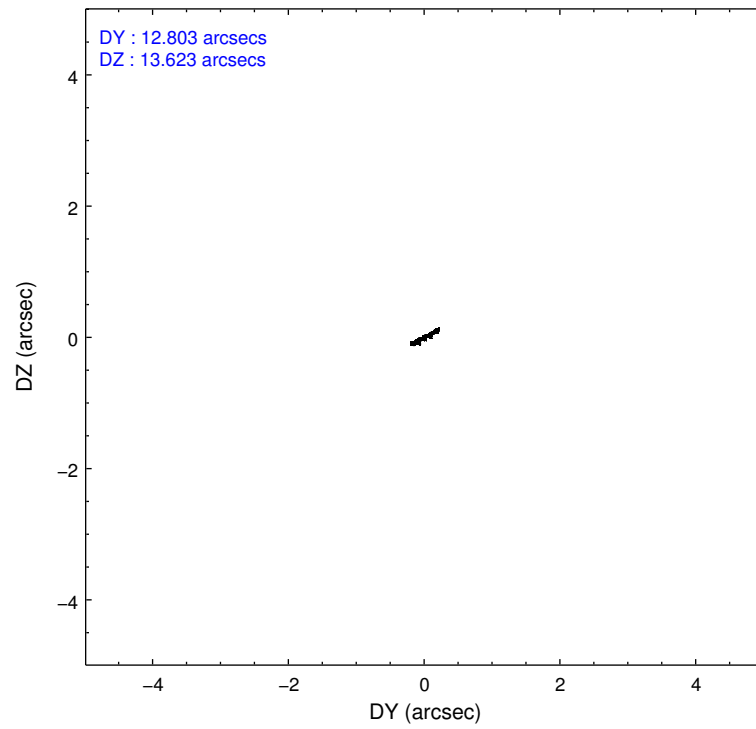
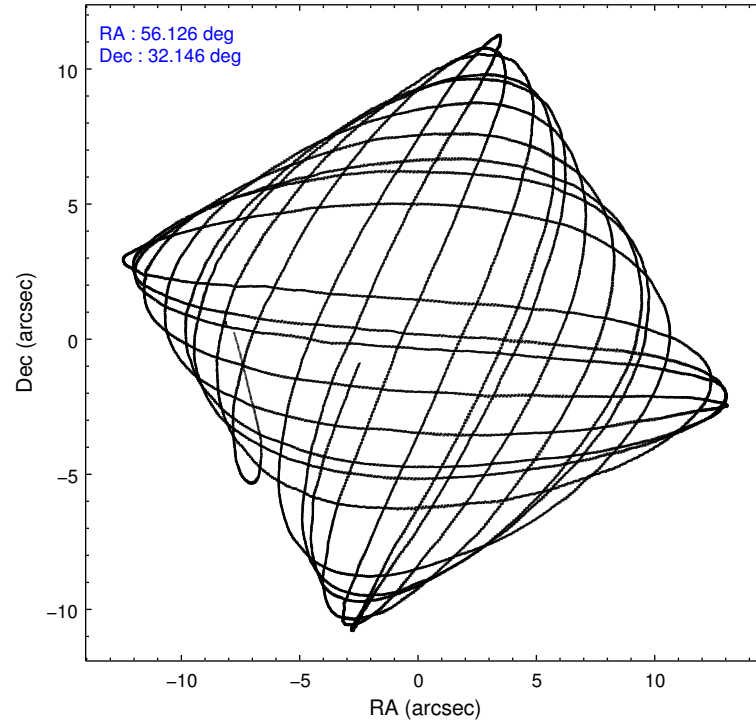
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	4567	4165	3467	4397	2862
	7%	6%	5%	6%	3%
grade 1 events	79	54	52	60	91
	0%	0%	0%	0%	0%
grade 2 events	2845	1981	1737	1704	7010
	4%	3%	2%	2%	8%
grade 3 events	916	836	738	788	2870
	1%	1%	1%	1%	3%
grade 4 events	814	779	714	784	2915
	1%	1%	1%	1%	3%
grade 5 events	2778	2831	2597	3060	8054
	4%	4%	4%	4%	9%
grade 6 events	1508	1734	1324	1416	19135
	2%	2%	2%	2%	23%
grade 7 events	50531	47728	52581	53519	38070
	78%	79%	83%	81%	46%

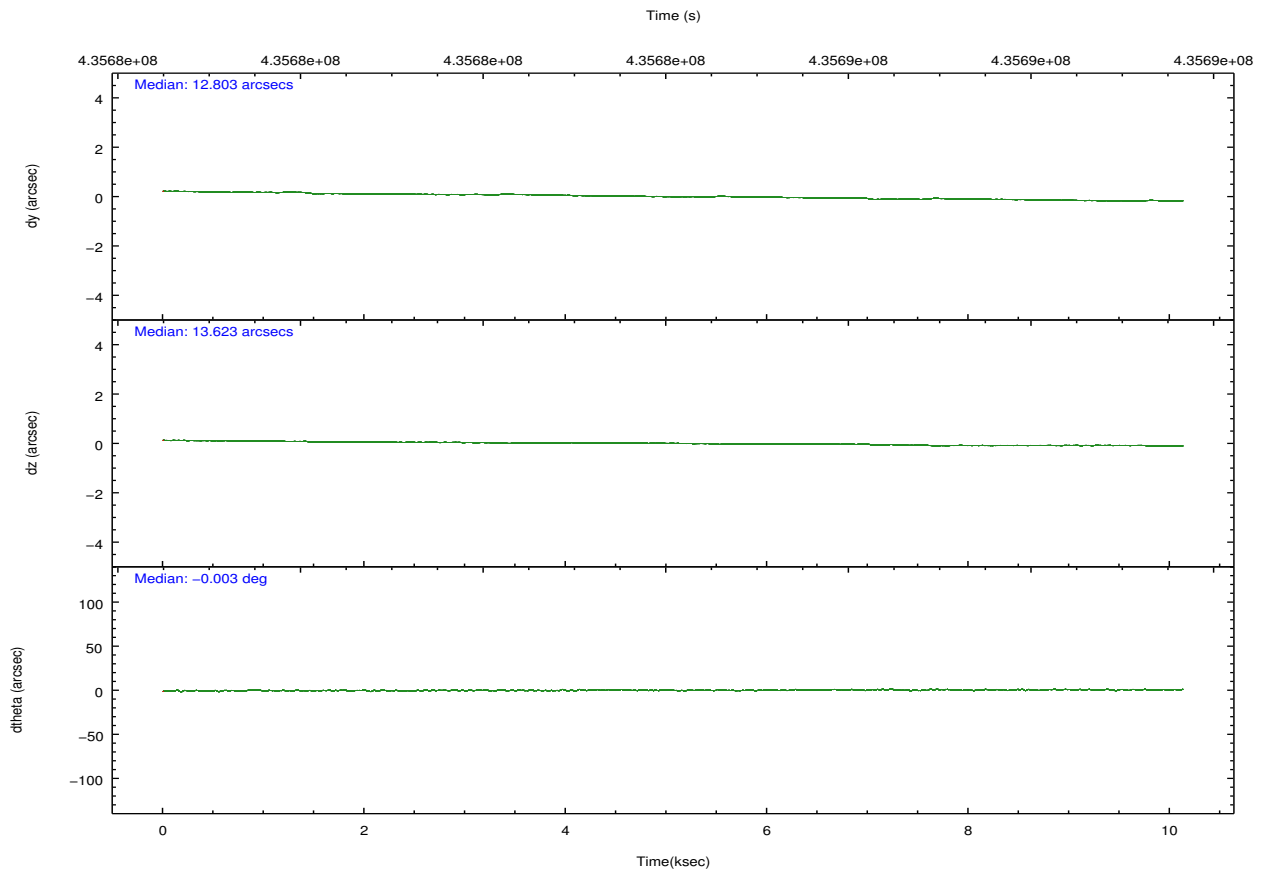
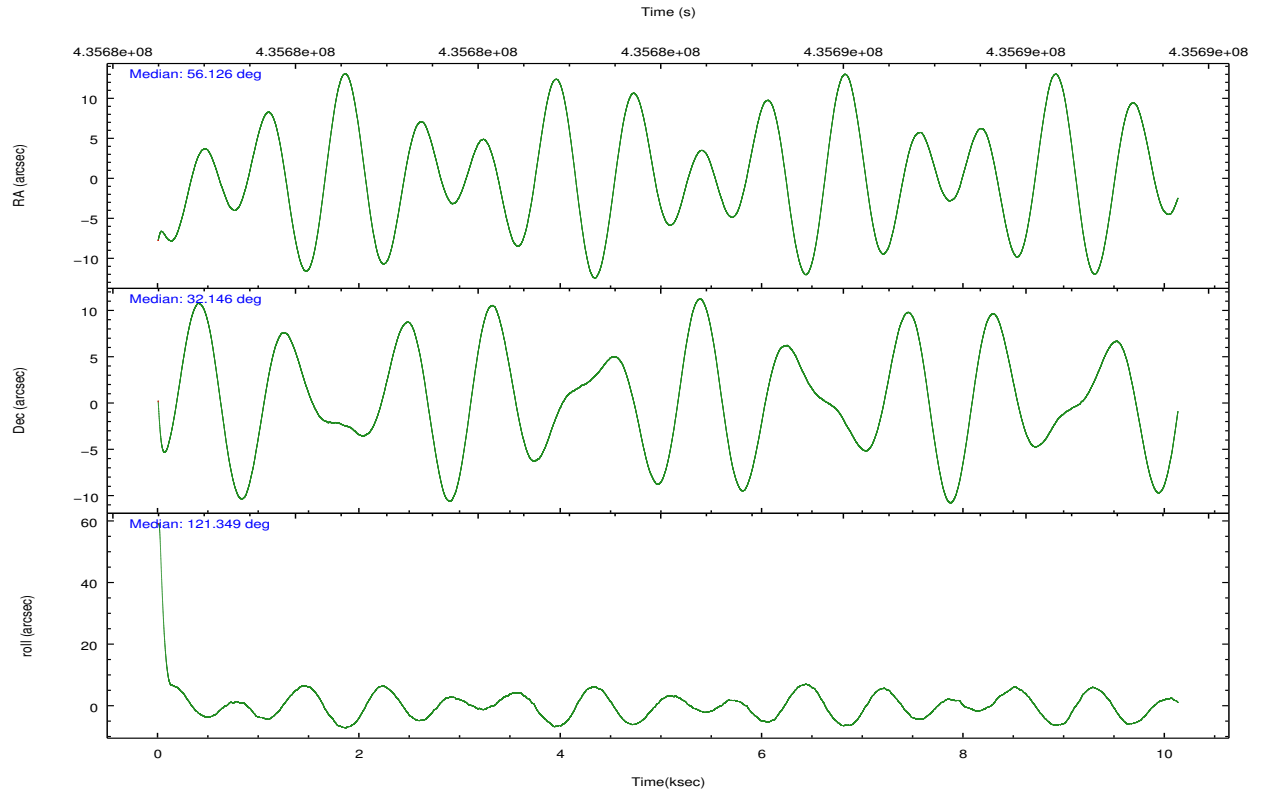


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	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	56.154177	56.12555563258893	CCD I2 on	Y	Y
[deg] Pointing Dec	32.132810	32.14586374637204	CCD I3 on	Y	Y
[deg] Pointing Roll	121.132473	121.3564590848439	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	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	435679144.184000	435677557.8878	CCD S5 on	N	N
Observation start date	2011-10-22T13:57:58	2011-10-22T13:32:37	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	435689143.184000	435689380.23842	On-chip summing requested	N	N
Observation end date	2011-10-22T16:44:37	2011-10-22T16:49:40	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



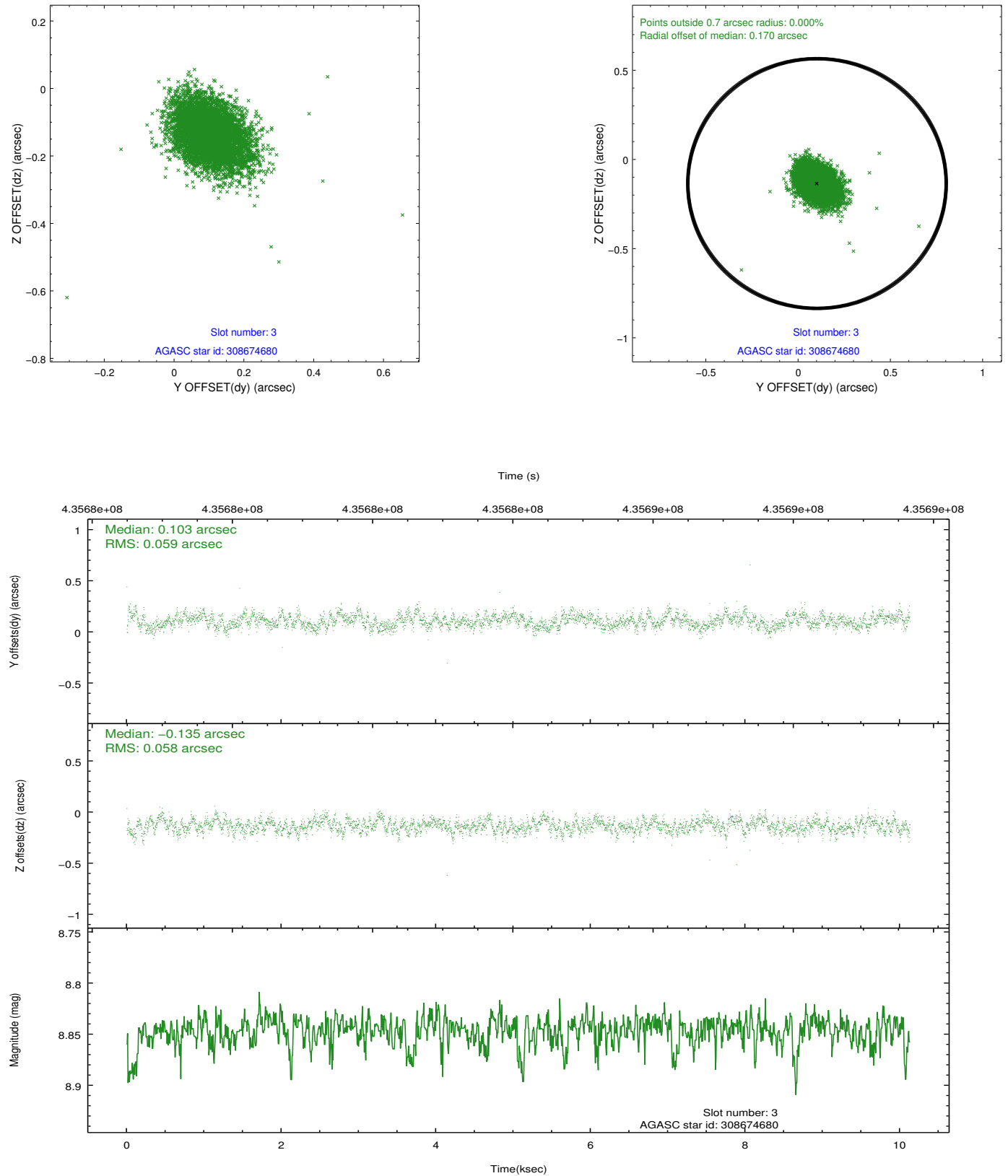


### Slot Statistics

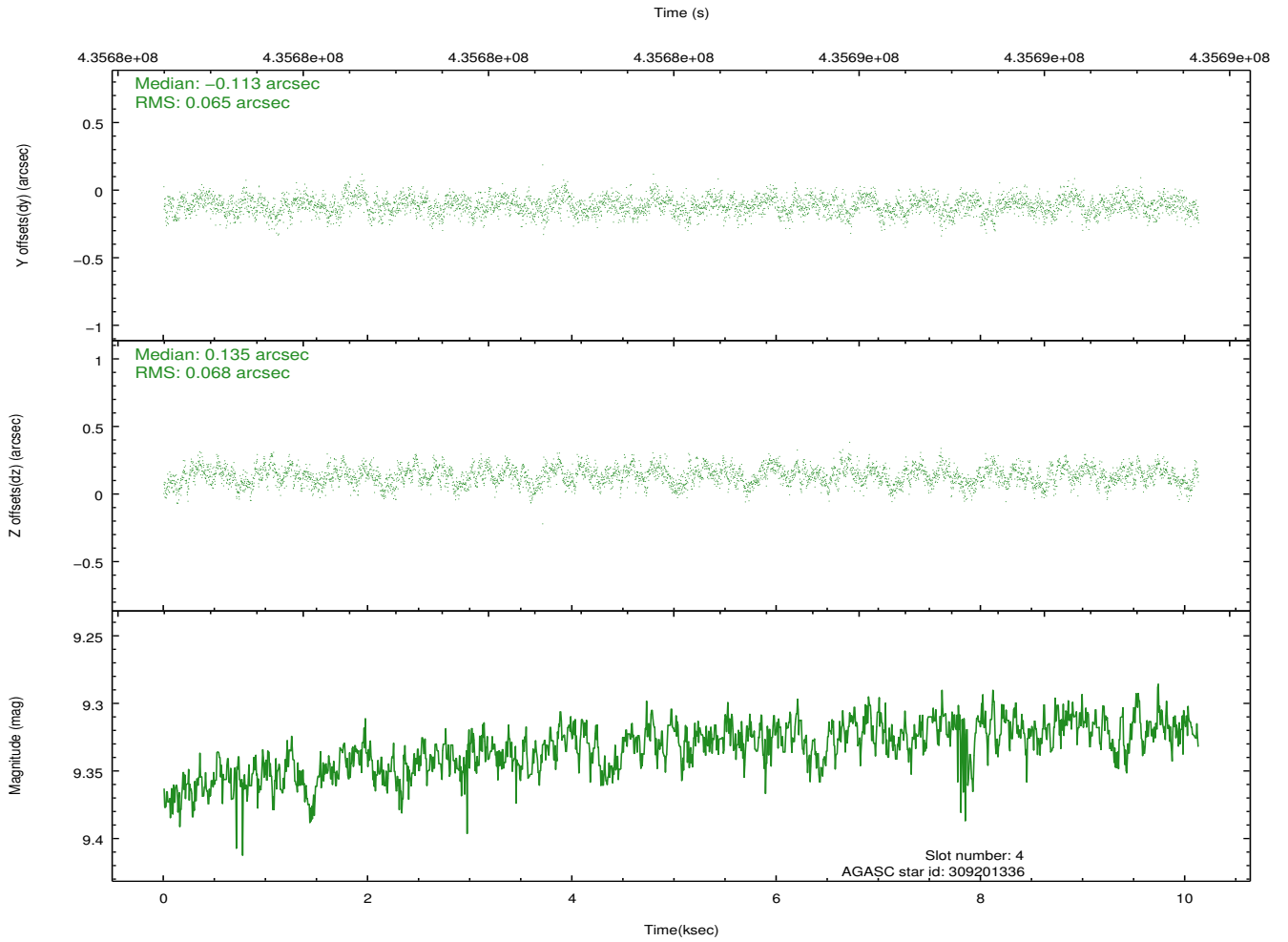
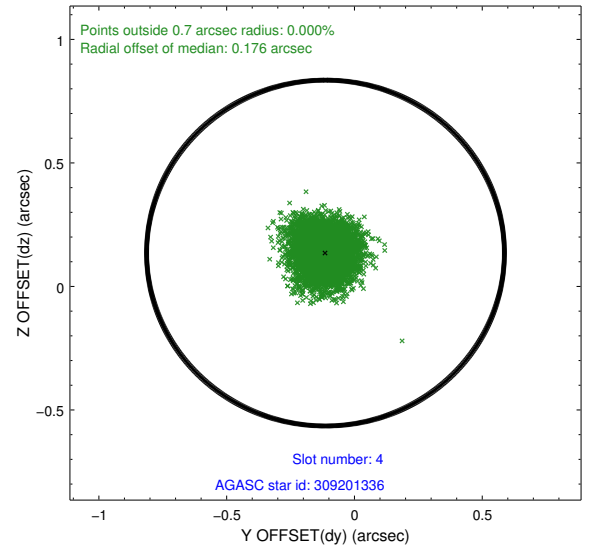
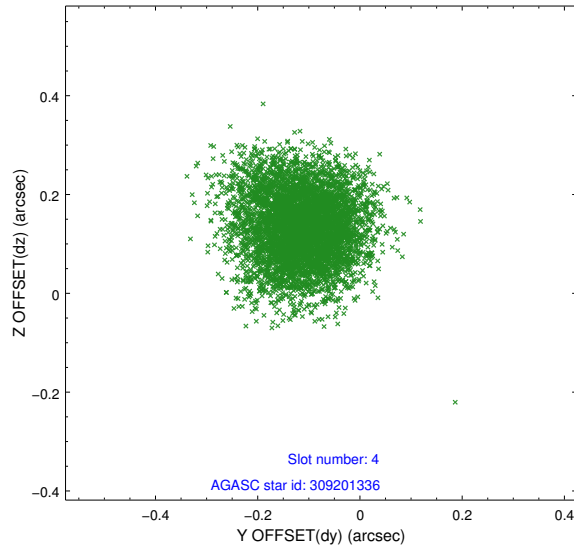
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.15	2471	0.056	-0.003	0.006	0.010	0.000000	0.000000	926.78	-837.17
1	FID	ACIS-I-5	7.15	2471	-0.235	0.058	0.006	0.011	0.000000	0.000000	-1821.35	1060.08
2	FID	ACIS-I-6	7.15	2471	0.088	0.015	0.007	0.011	0.000000	0.000000	391.76	1705.16
3	GUIDE	308674680	8.85	4939	0.103	-0.135	0.086	0.140	55.747345	31.652644	-832.81	1958.47
4	GUIDE	309201336	9.33	4936	-0.113	0.135	0.101	0.160	55.980135	32.629910	1804.82	-473.21
5	GUIDE	309205288	9.19	4935	-0.031	0.176	0.119	0.186	55.920876	32.625581	1885.11	-311.72
6	GUIDE	309336160	7.08	4941	-0.104	0.141	0.076	0.117	56.670296	32.290187	-323.27	-1639.43
7	GUIDE	308676888	9.13	4938	0.141	-0.311	0.091	0.144	55.566279	31.676245	-471.96	2388.16

## 2.4 Star Slots

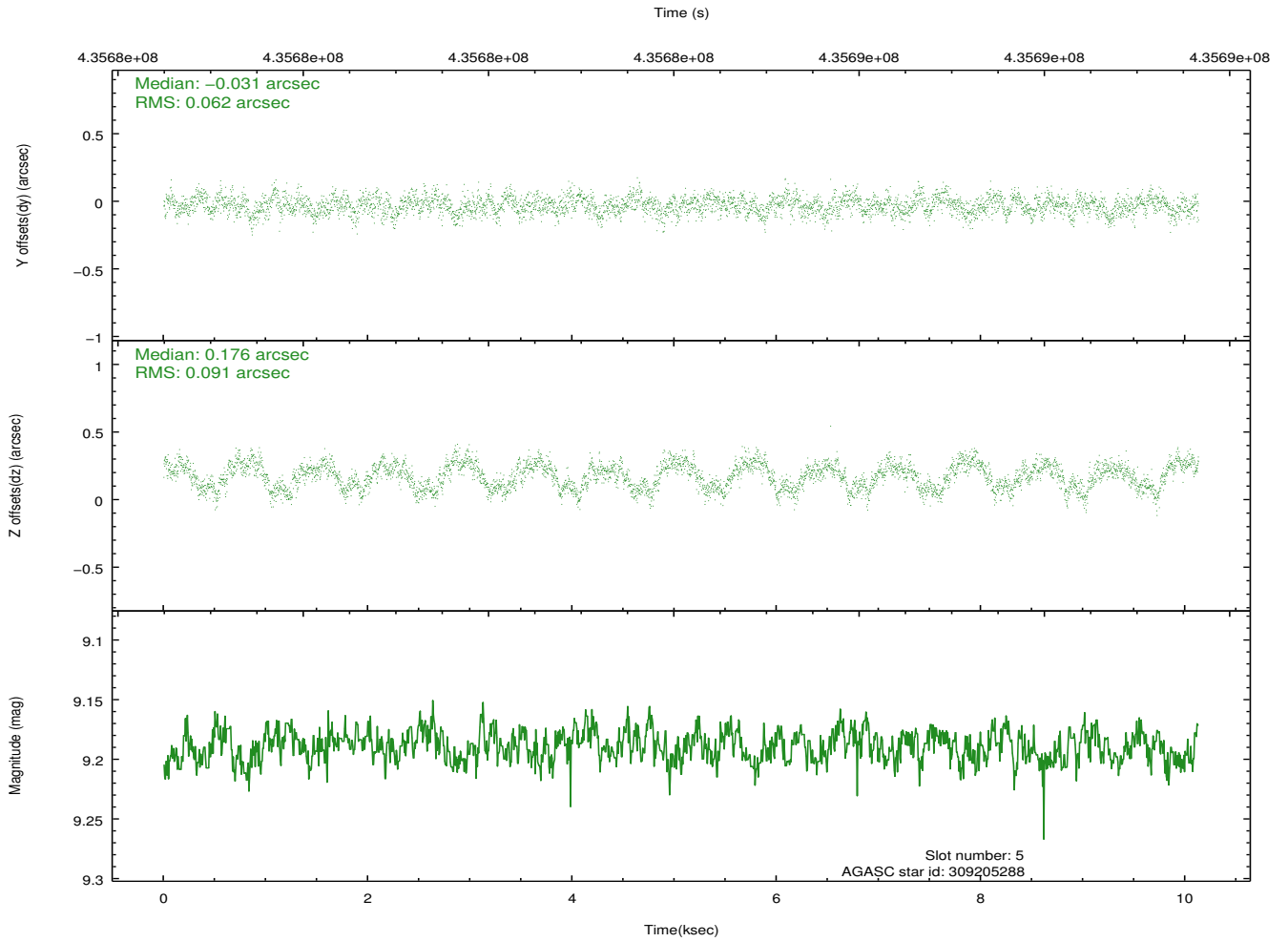
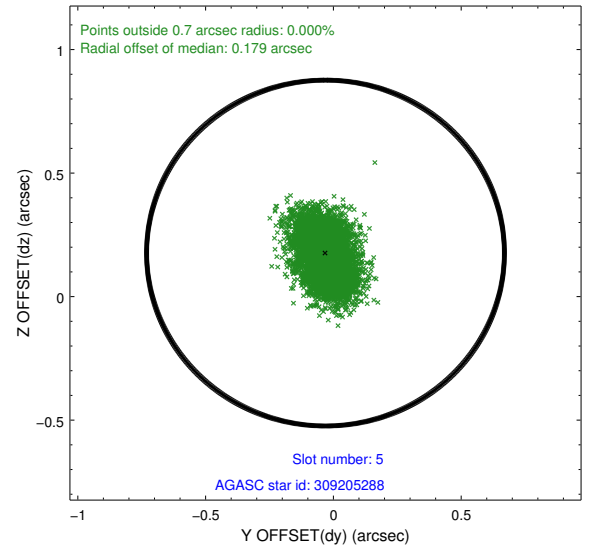
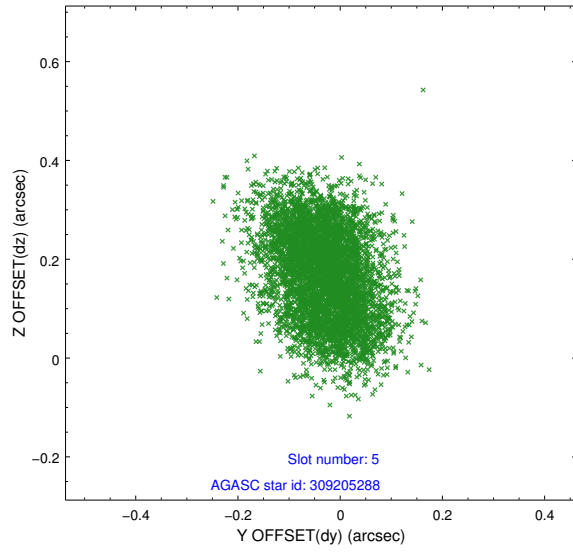
### 2.4.1 Slot 3



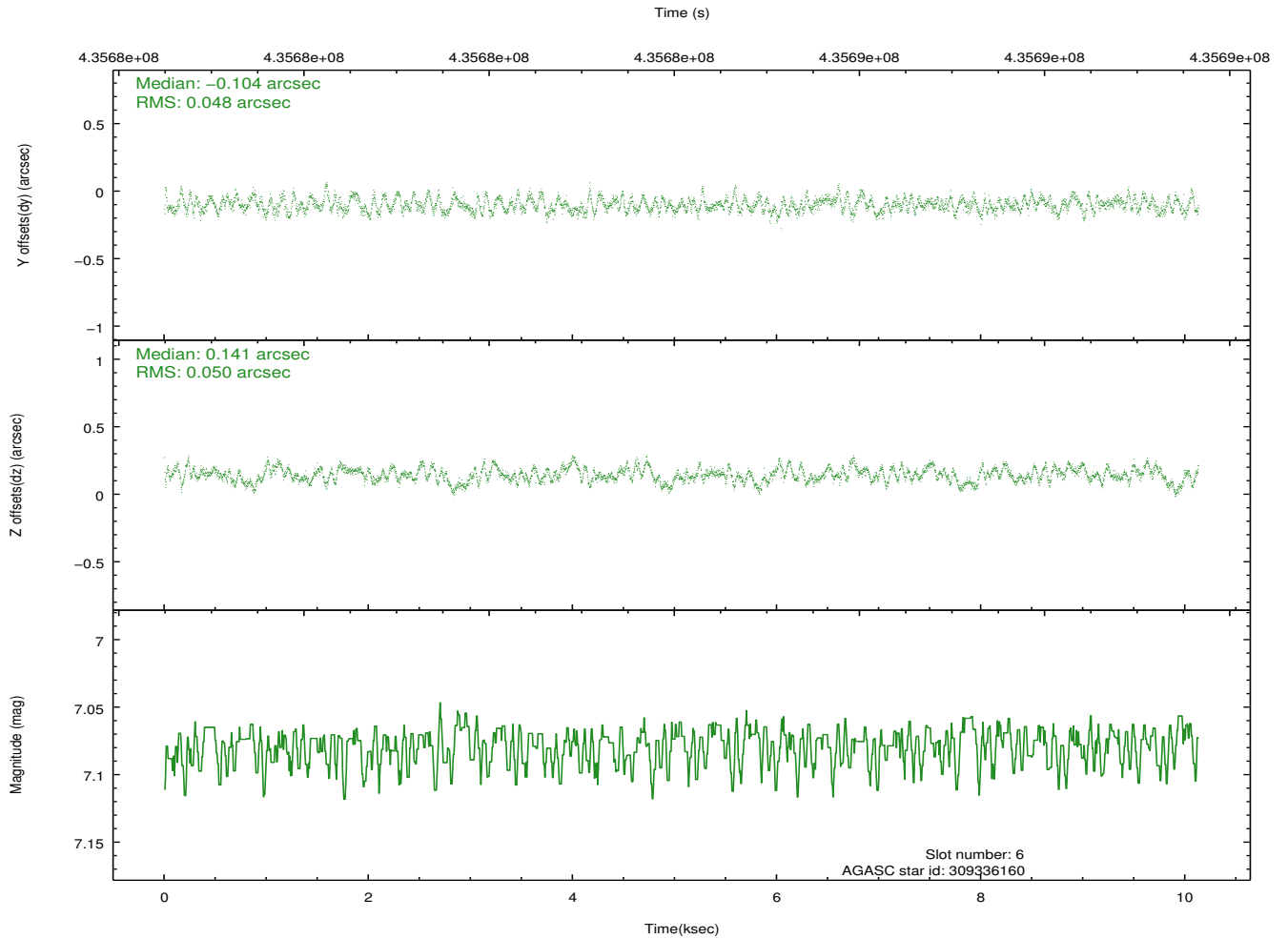
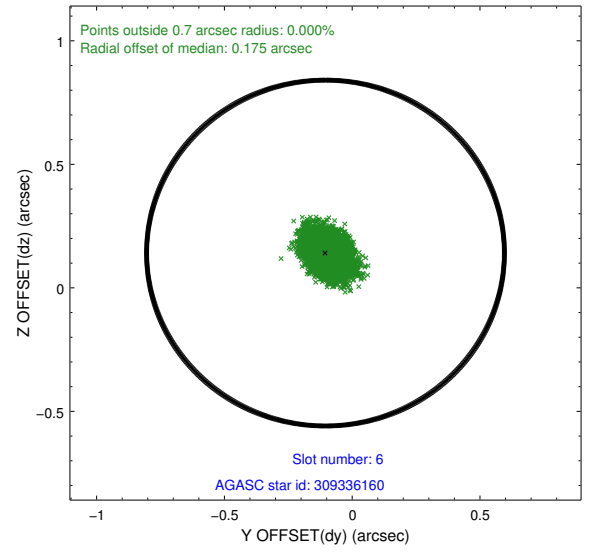
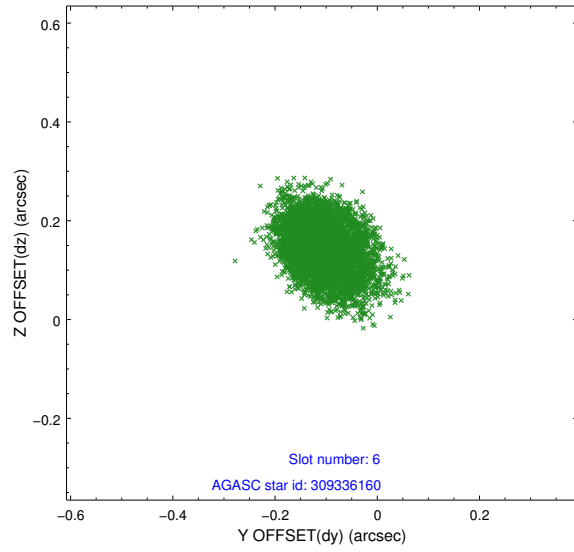
## 2.4.2 Slot 4



### 2.4.3 Slot 5

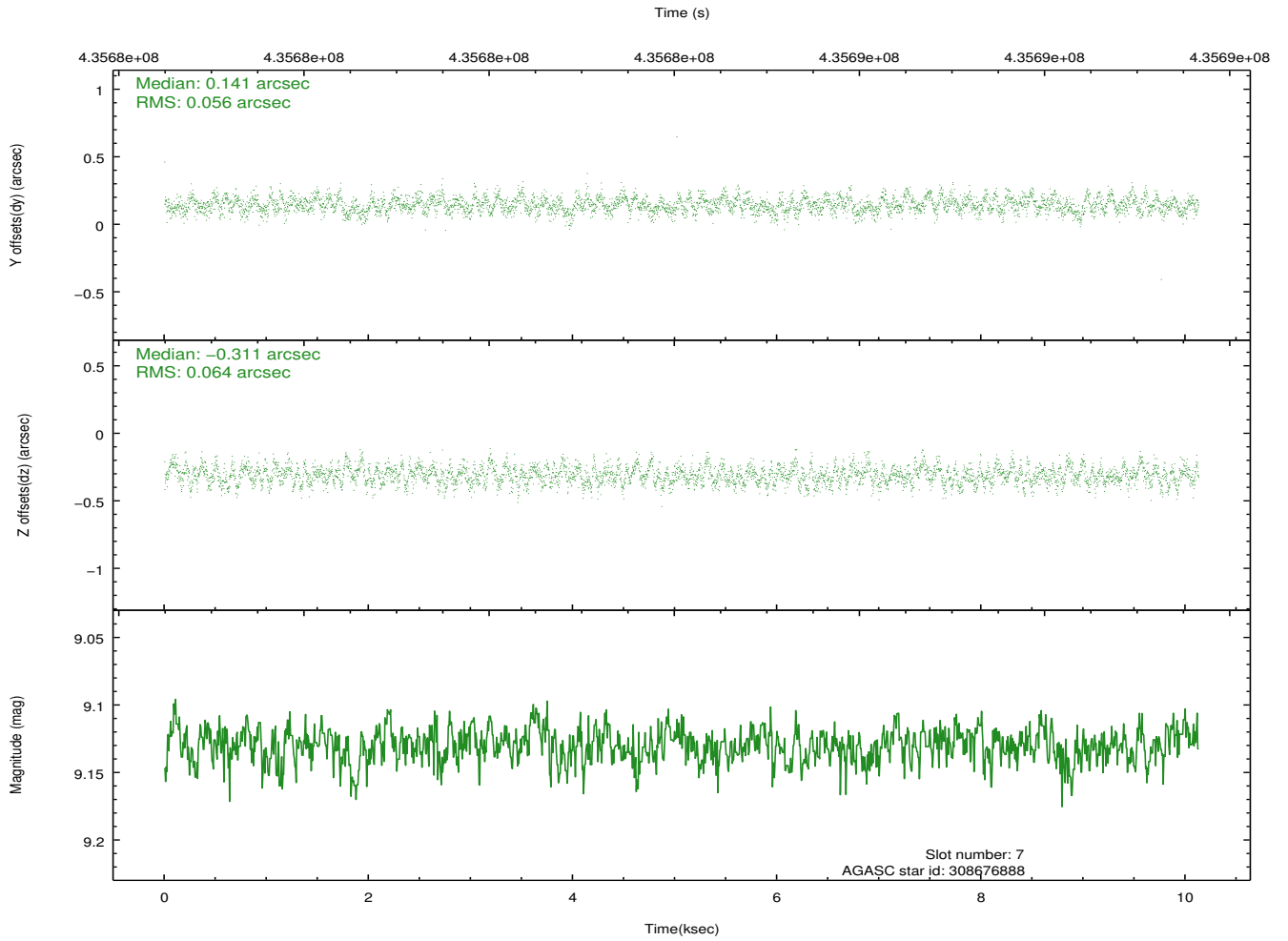
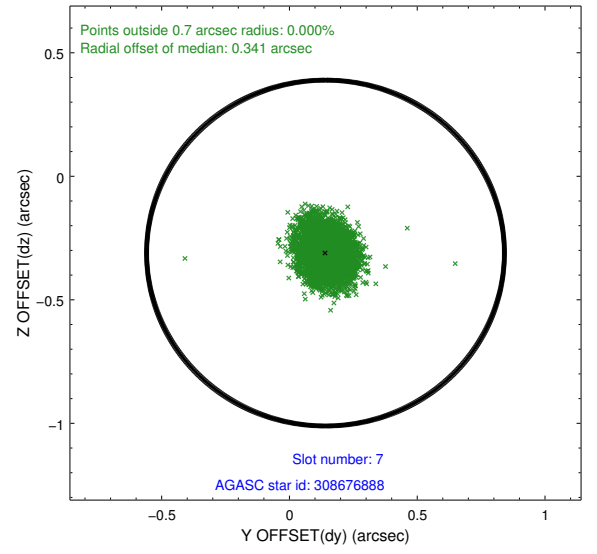
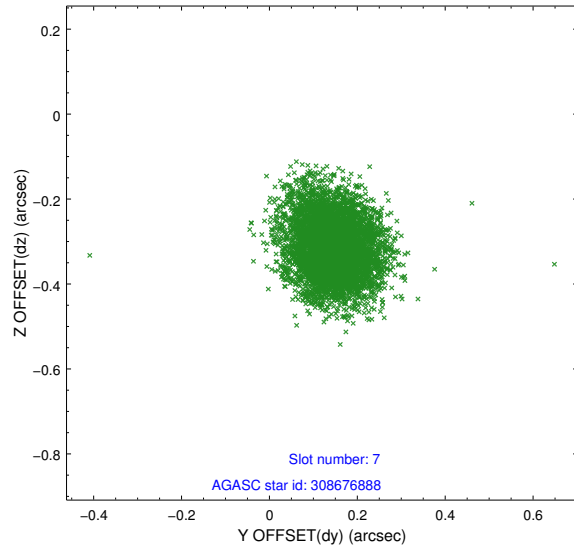


## 2.4.4 Slot 6



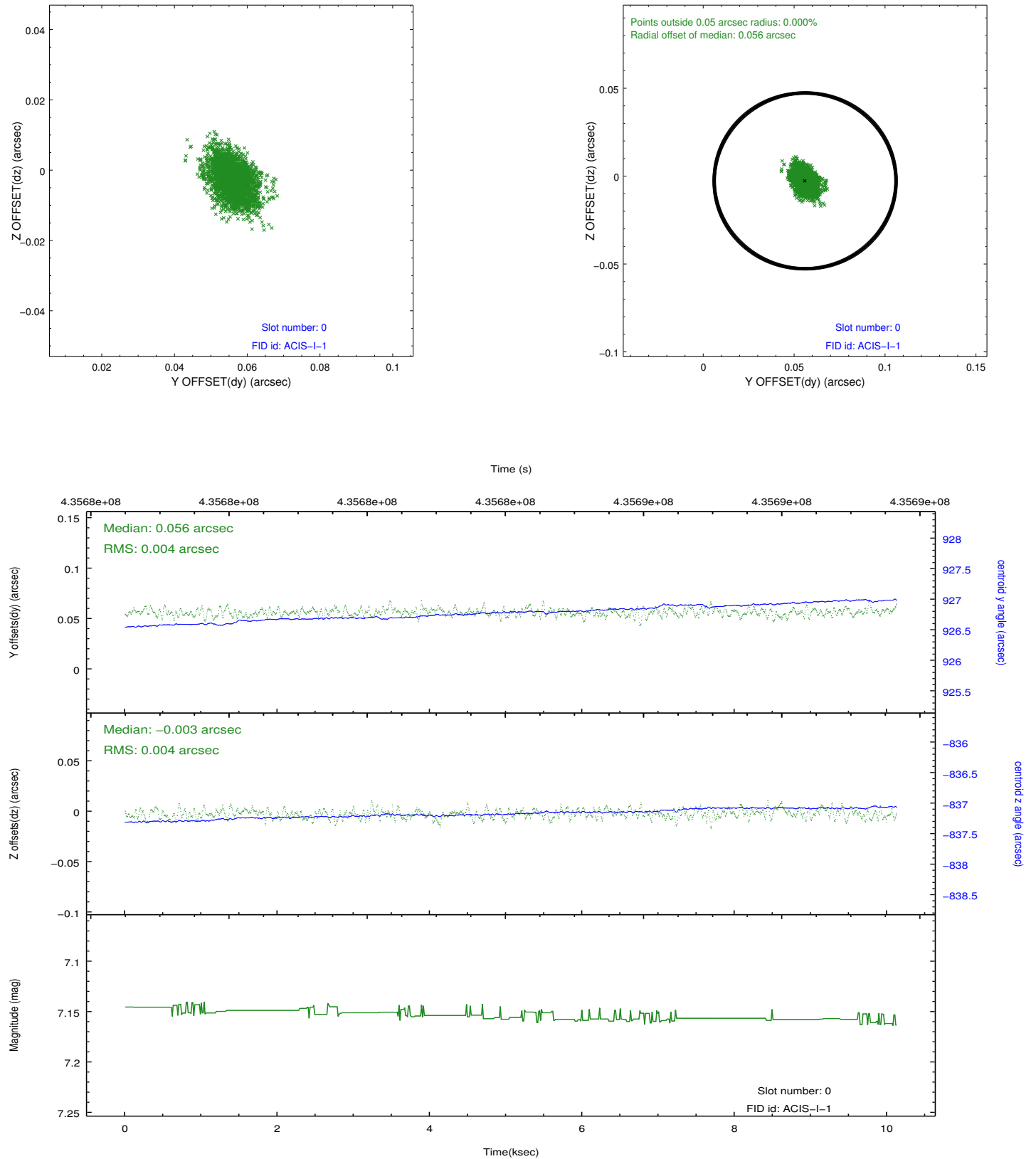


## 2.4.5 Slot 7

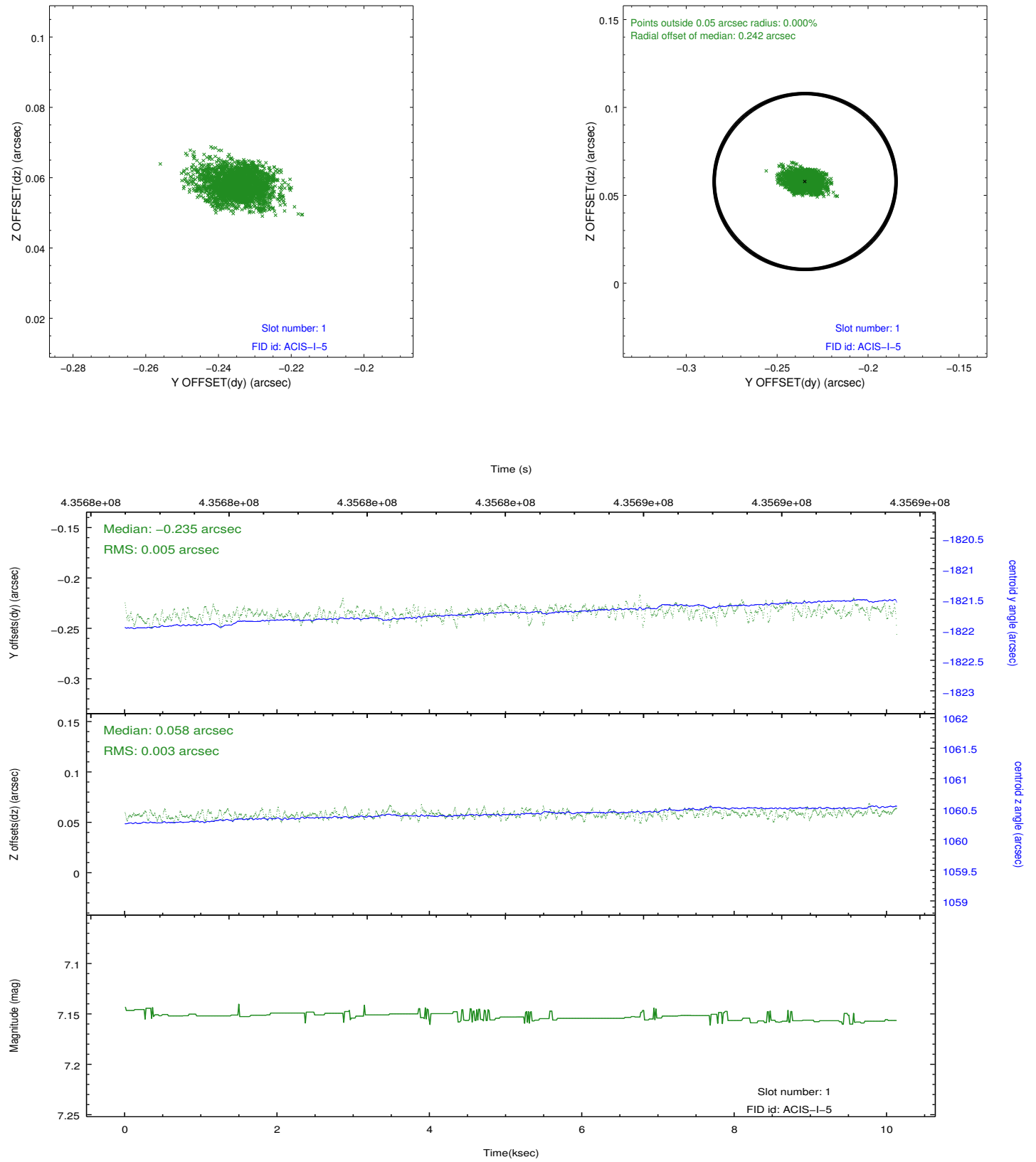


## 2.5 FID Slots

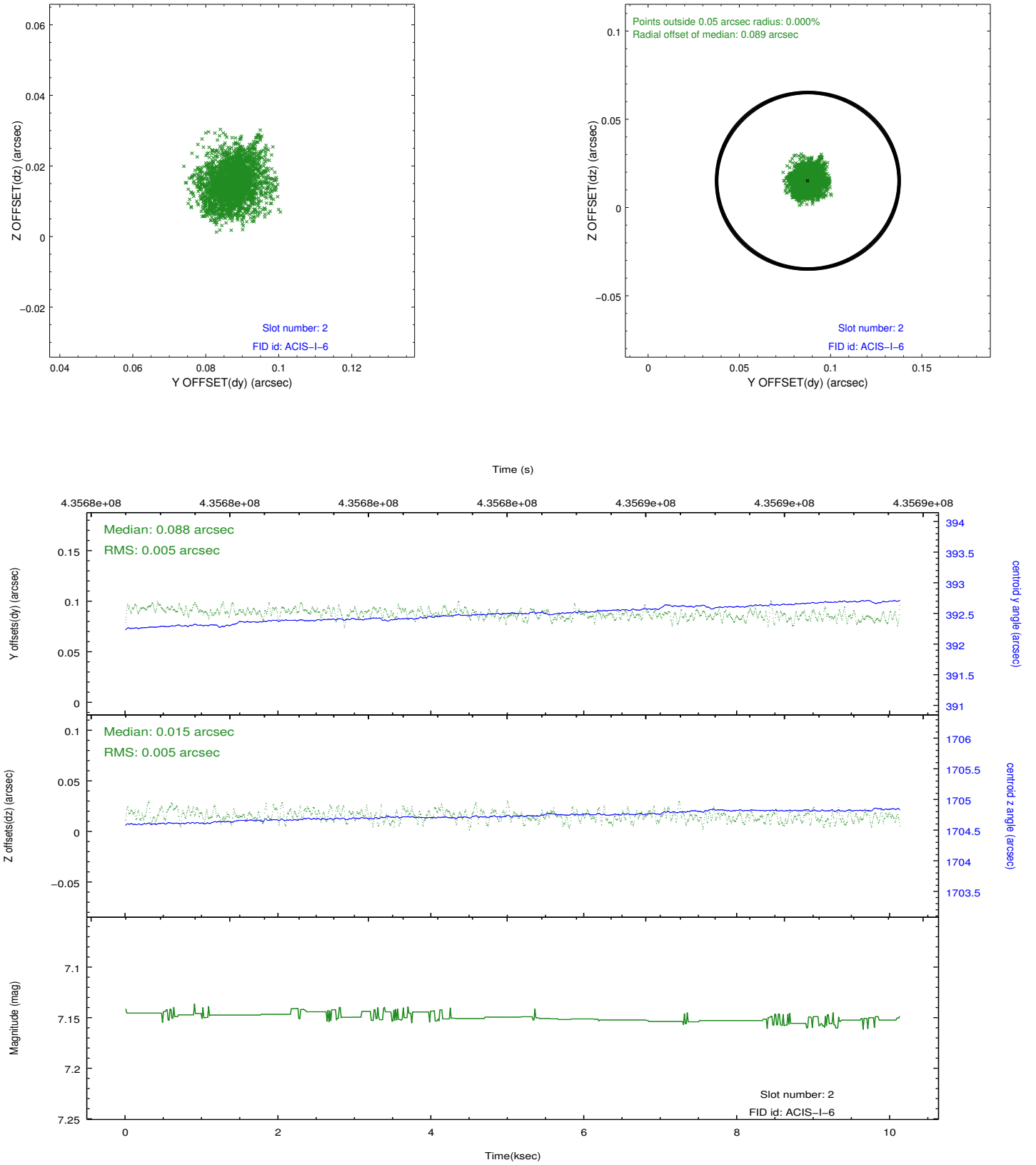
### 2.5.1 Slot 0



## 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)	2012.03.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.044000077248

### A.2 Comments

Joint proposal with Spitzer.