

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10428 - L2 Version 2  
Chandra X-Ray Center

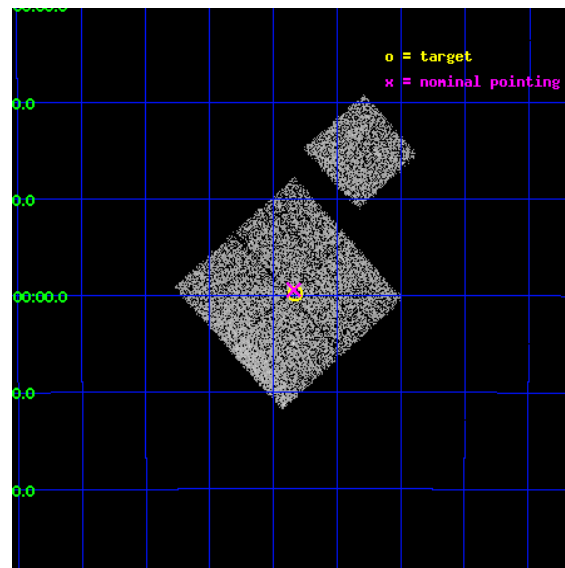
L2 Processing Date : Jun 2 2012

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# 1 Front

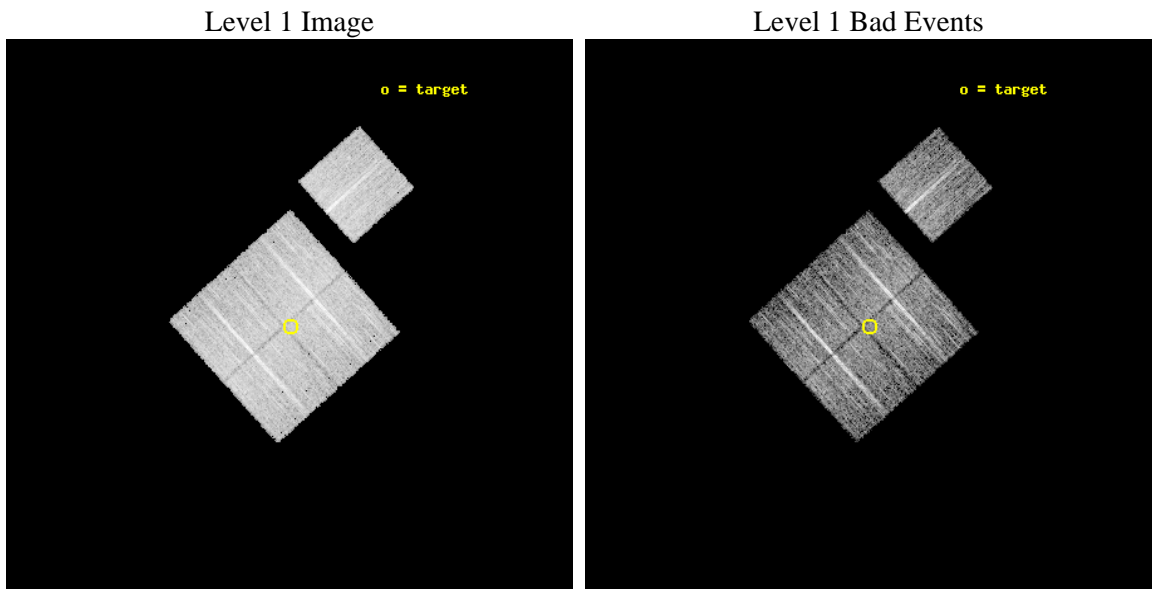
seq_num	800789	Sequence number
obs_id	10428	Observation id
title	A Chandra baseline for galaxy cluster evolution studies	Proposal t
observer	Dr Ben Maughan	Principal investigator
object	A1736	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	201.581021	Observer's specified target RA [deg]
dec_targ	-26.997605	Observer's specified target Dec [deg]
ra_nom	201.58475451705	Nominal RA [deg]
dec_nom	-26.990319435833	Nominal Dec [deg]
roll_nom	48.010389126978	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5885.6931011081	Sum of GTIs [s]
livetime	5808.7921877579	Livetime [s]
ontime0	5888.7109814286	Sum of GTIs [s]
ontime1	5882.4700308442	Sum of GTIs [s]
ontime2	5888.7930614352	Sum of GTIs [s]
ontime3	5885.6931011081	Sum of GTIs [s]
ontime6	5888.6699414253	Sum of GTIs [s]
l2events	25182	Number of level 2 events



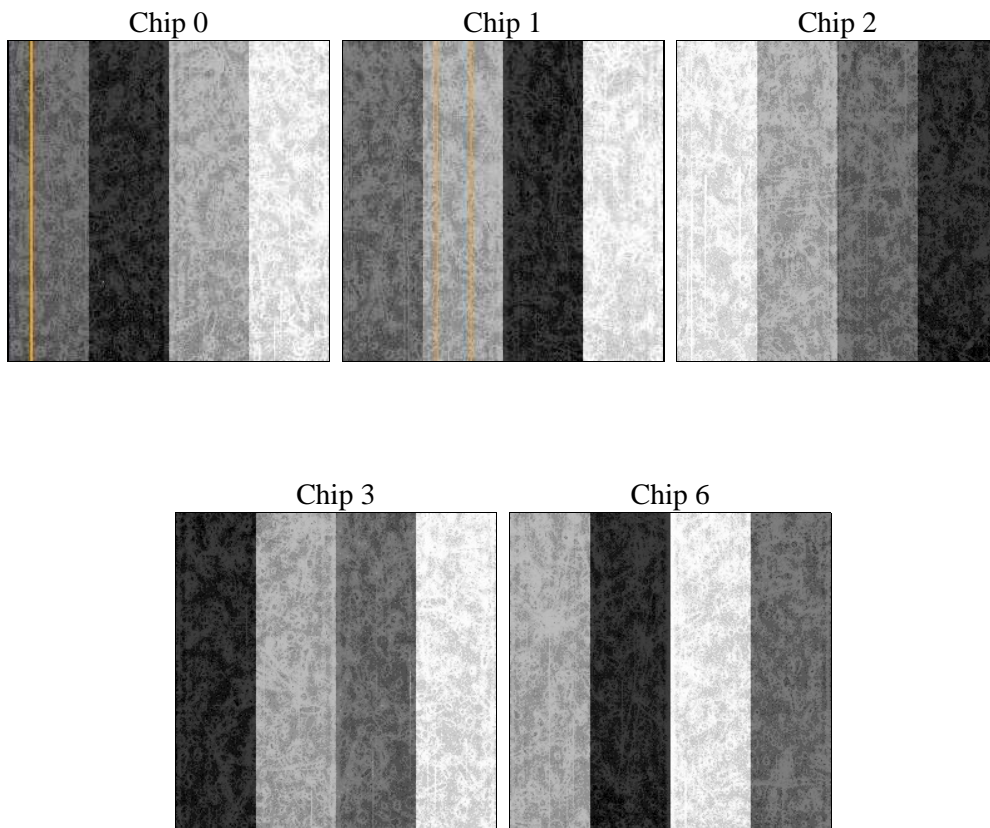
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6114.687000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5885.6931011081	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	5888.7109814286	Sum of GTIs [s]
date	2012-06-02T15:02:31	Date and time of file creation	ontime1	5882.4700308442	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5888.7930614352	Sum of GTIs [s]
			ontime3	5885.6931011081	Sum of GTIs [s]
			ontime6	5888.6699414253	Sum of GTIs [s]
			l1events	255044	Number of level 1 events

### 2.1.4 Events

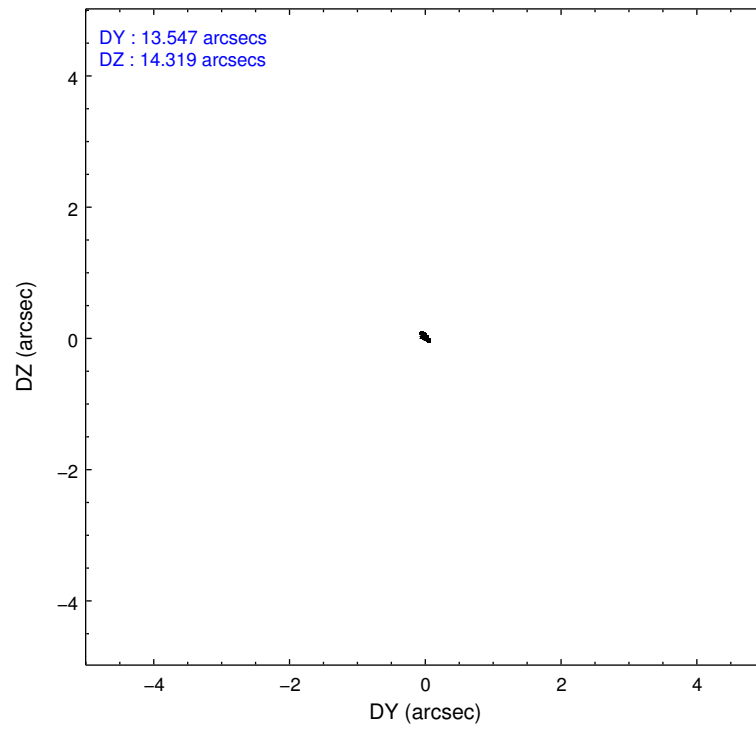
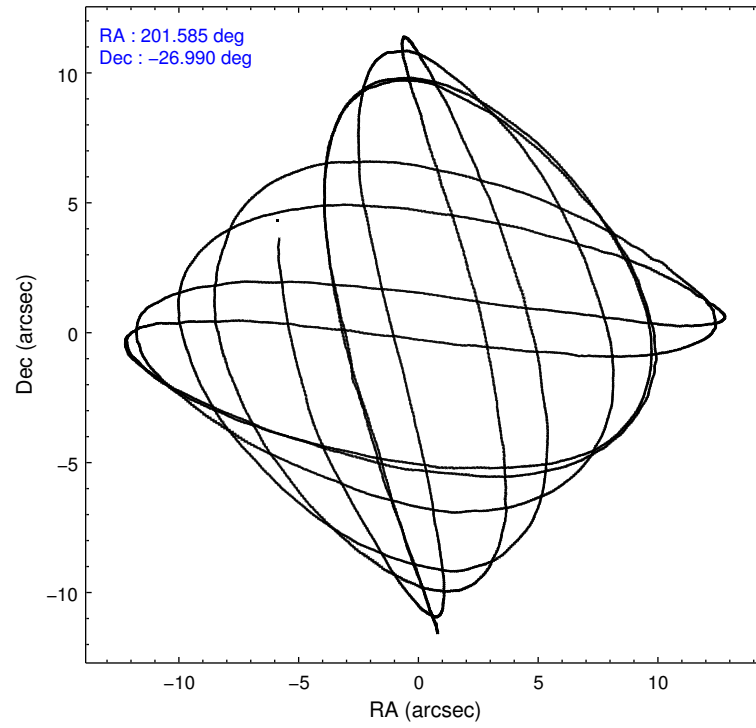
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	49277	49878	51466	50638	53785
rejected events	42963	42511	46053	45424	48236
rejected %	87%	85%	89%	89%	89%

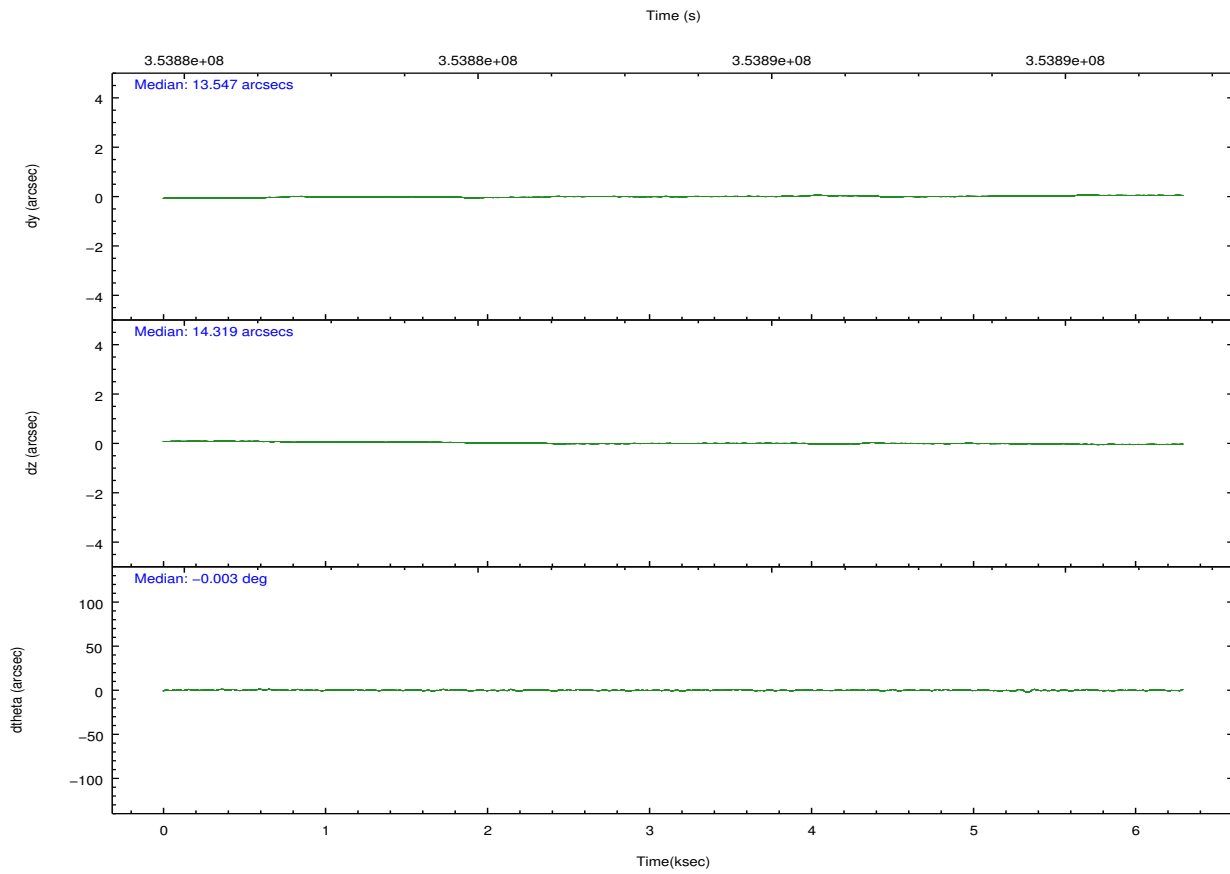
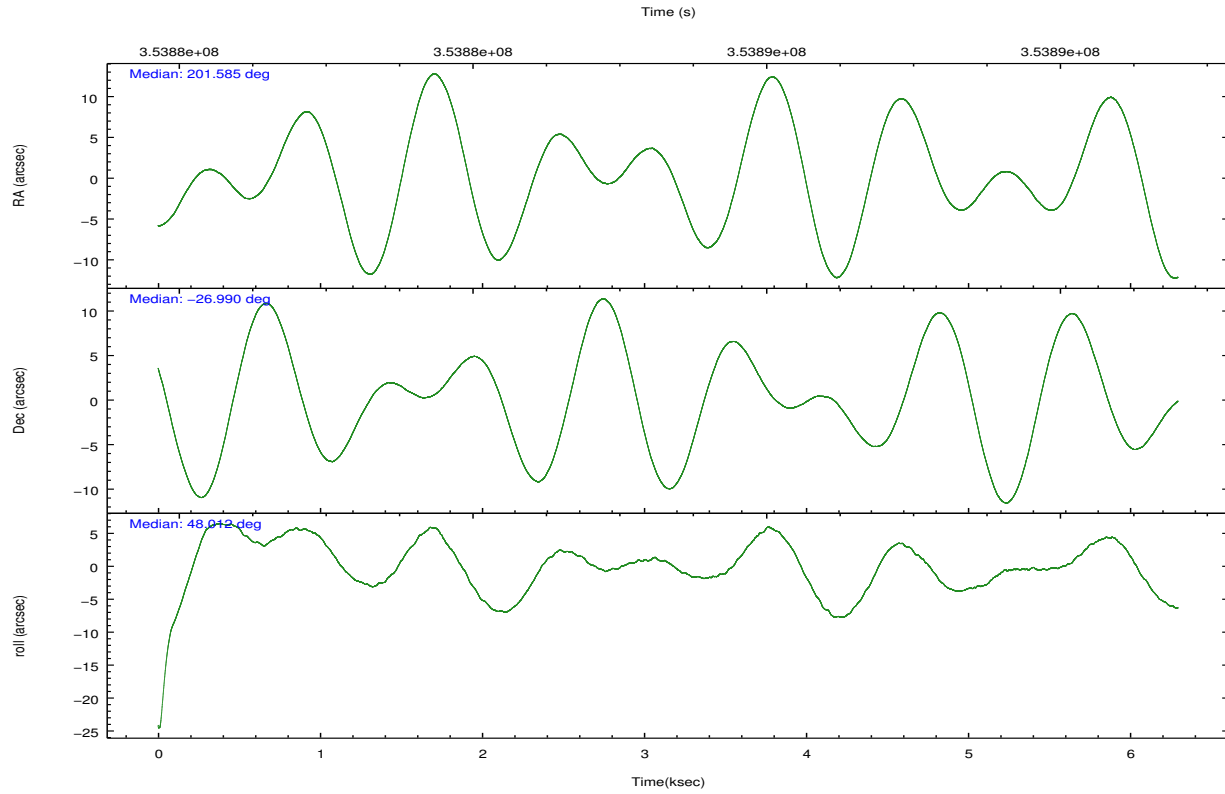
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2723	3308	2095	1962	2065
	5%	6%	4%	3%	3%
grade 1 events	29	34	36	34	38
	0%	0%	0%	0%	0%
grade 2 events	1368	1491	1301	1130	1166
	2%	2%	2%	2%	2%
grade 3 events	571	693	510	580	575
	1%	1%	0%	1%	1%
grade 4 events	558	672	563	565	558
	1%	1%	1%	1%	1%
grade 5 events	1826	2021	1735	2200	2099
	3%	4%	3%	4%	3%
grade 6 events	1095	1209	948	983	1190
	2%	2%	1%	1%	2%
grade 7 events	41107	40450	44278	43184	46094
	83%	81%	86%	85%	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	201.578524	201.5847545170488	CCD I2 on	Y	Y
[deg] Pointing Dec	-27.017187	-26.9903194358334	CCD I3 on	Y	Y
[deg] Pointing Roll	47.798864	48.01038912697816	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)	353882354.184000	353881978.54363	CCD S5 on	N	N
Observation start date	2009-03-19T20:38:08	2009-03-19T20:32:58	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	353888469.184000	353888702.03146	On-chip summing requested	N	N
Observation end date	2009-03-19T22:20:03	2009-03-19T22:25:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



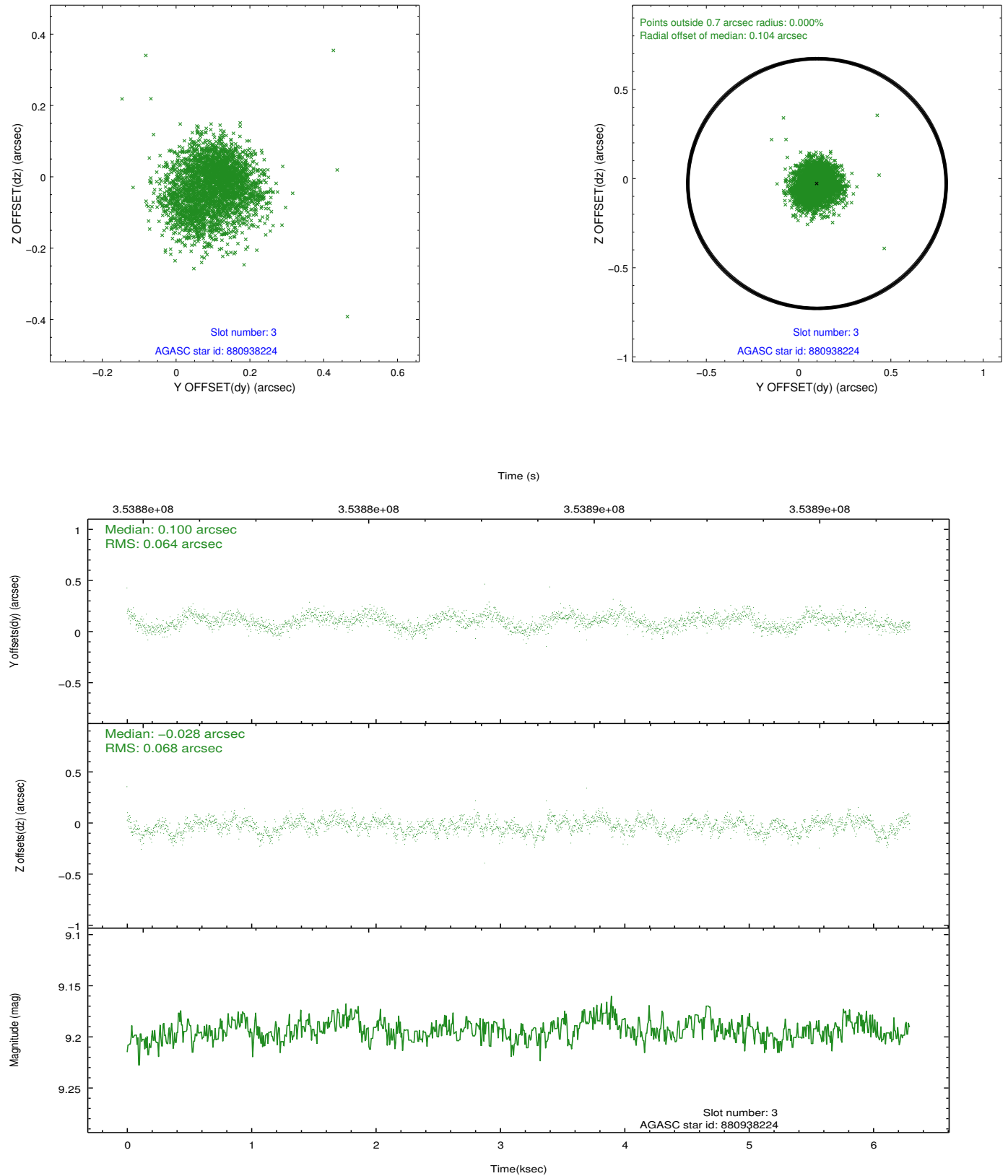


### Slot Statistics

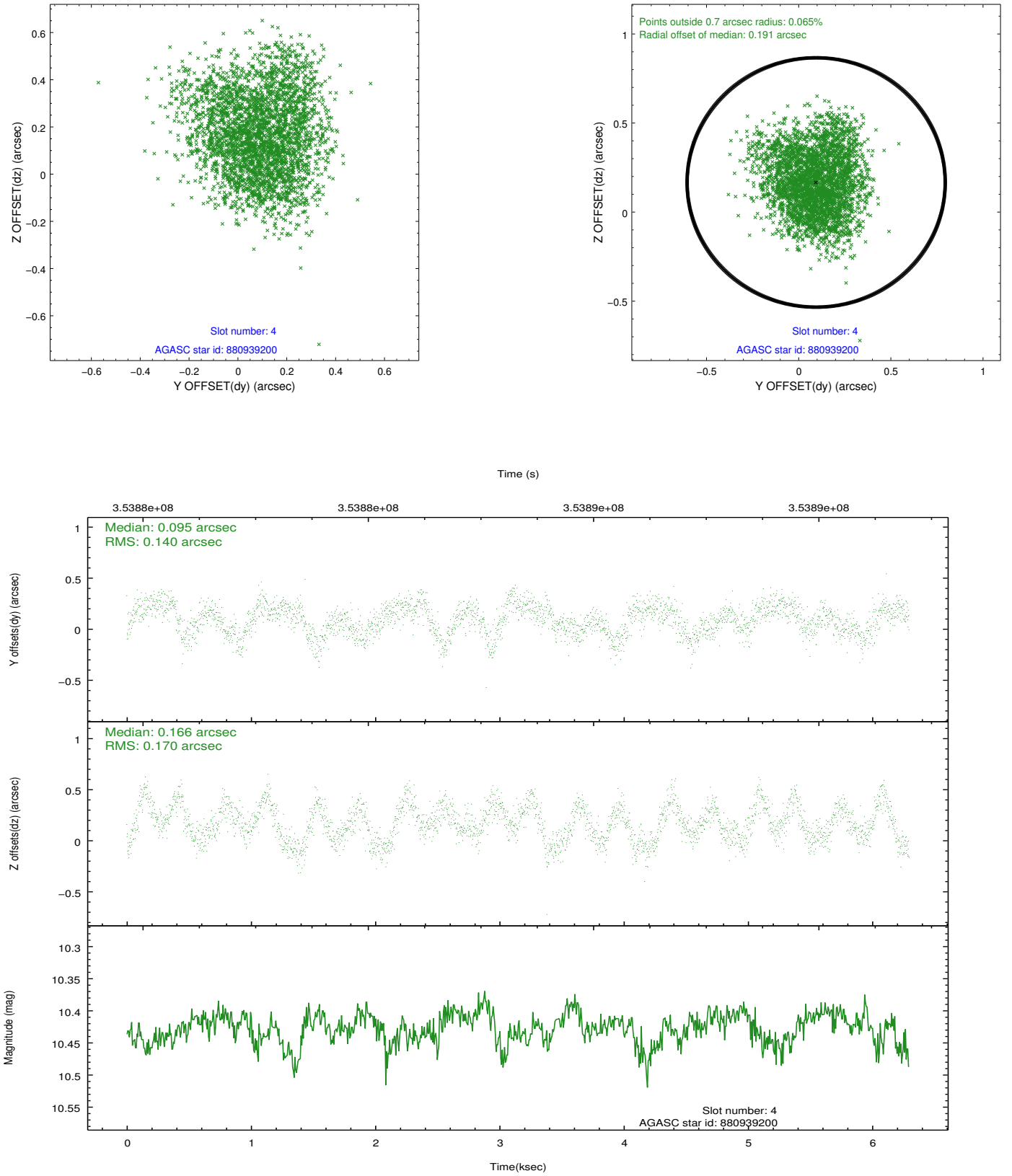
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.05	1536	0.036	0.008	0.006	0.010	0.000000	0.000000	926.01	-837.89
1	FID	ACIS-I-5	7.04	1536	-0.219	0.043	0.005	0.009	0.000000	0.000000	-1821.87	1059.12
2	FID	ACIS-I-6	7.04	1536	0.091	0.019	0.006	0.010	0.000000	0.000000	390.54	1704.70
3	GUIDE	880938224	9.19	3065	0.100	-0.028	0.101	0.153	201.238253	-27.148228	-1082.16	489.71
4	GUIDE	880939200	10.43	3064	0.095	0.166	0.239	0.369	201.573261	-27.236329	-595.54	-517.03
5	GUIDE	880942912	9.42	3068	0.075	-0.003	0.109	0.172	201.397572	-27.695037	-2195.20	-1212.23
6	GUIDE	880943920	8.92	3060	-0.004	0.062	0.090	0.147	201.335153	-27.473794	-1740.68	-529.05
7	GUIDE	880945376	8.01	3071	-0.262	-0.195	0.079	0.131	201.527731	-26.606601	984.29	1113.68

## 2.4 Star Slots

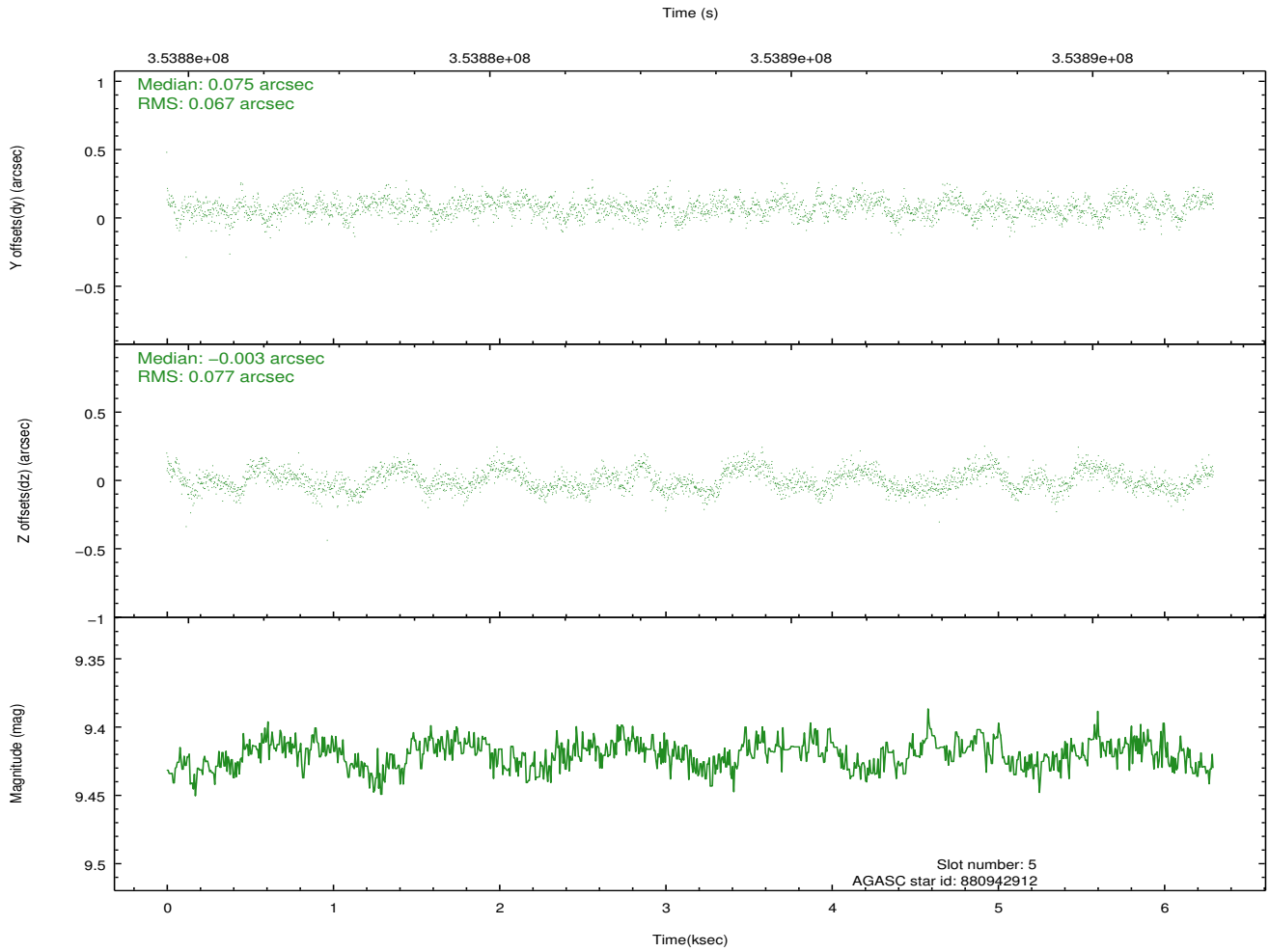
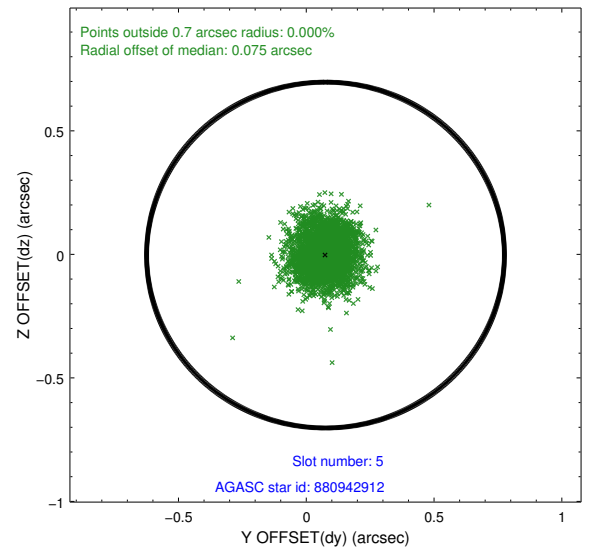
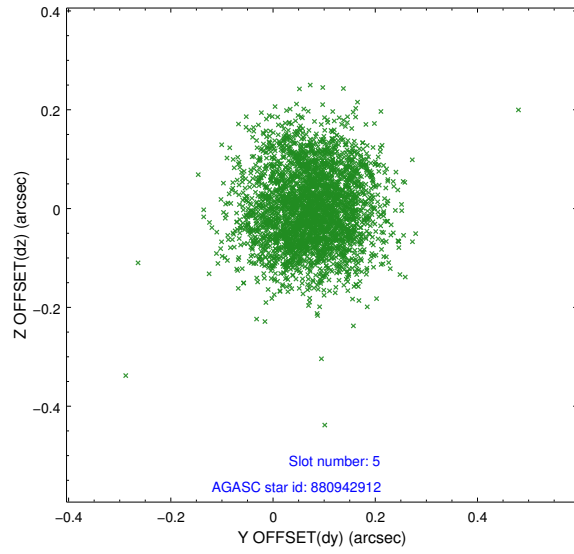
### 2.4.1 Slot 3



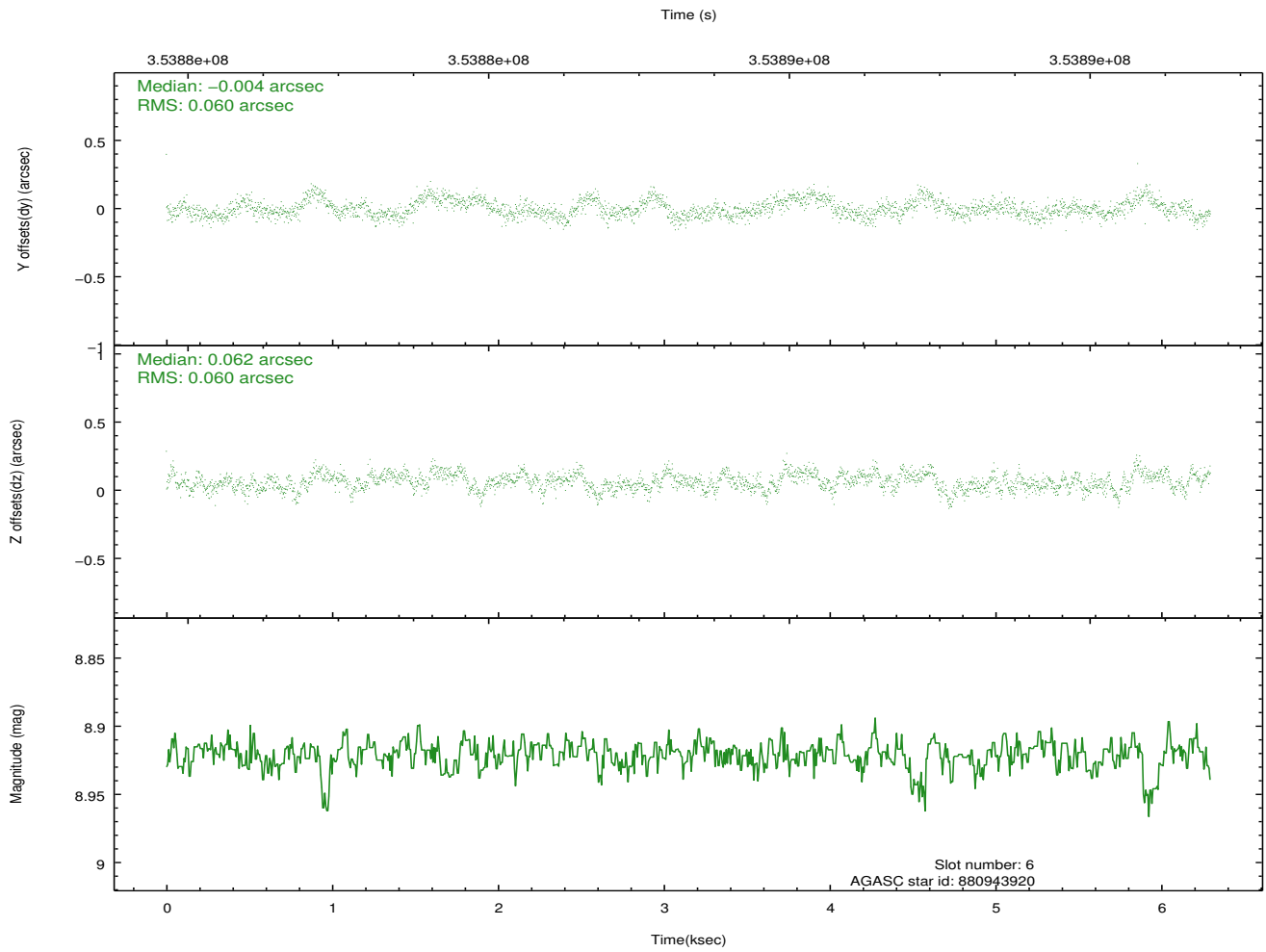
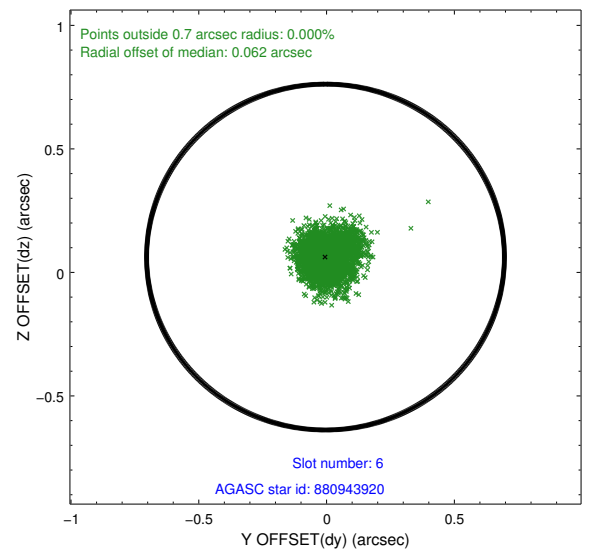
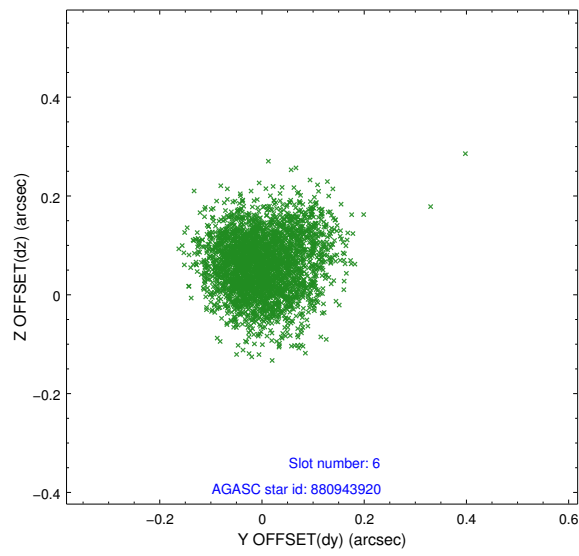
## 2.4.2 Slot 4



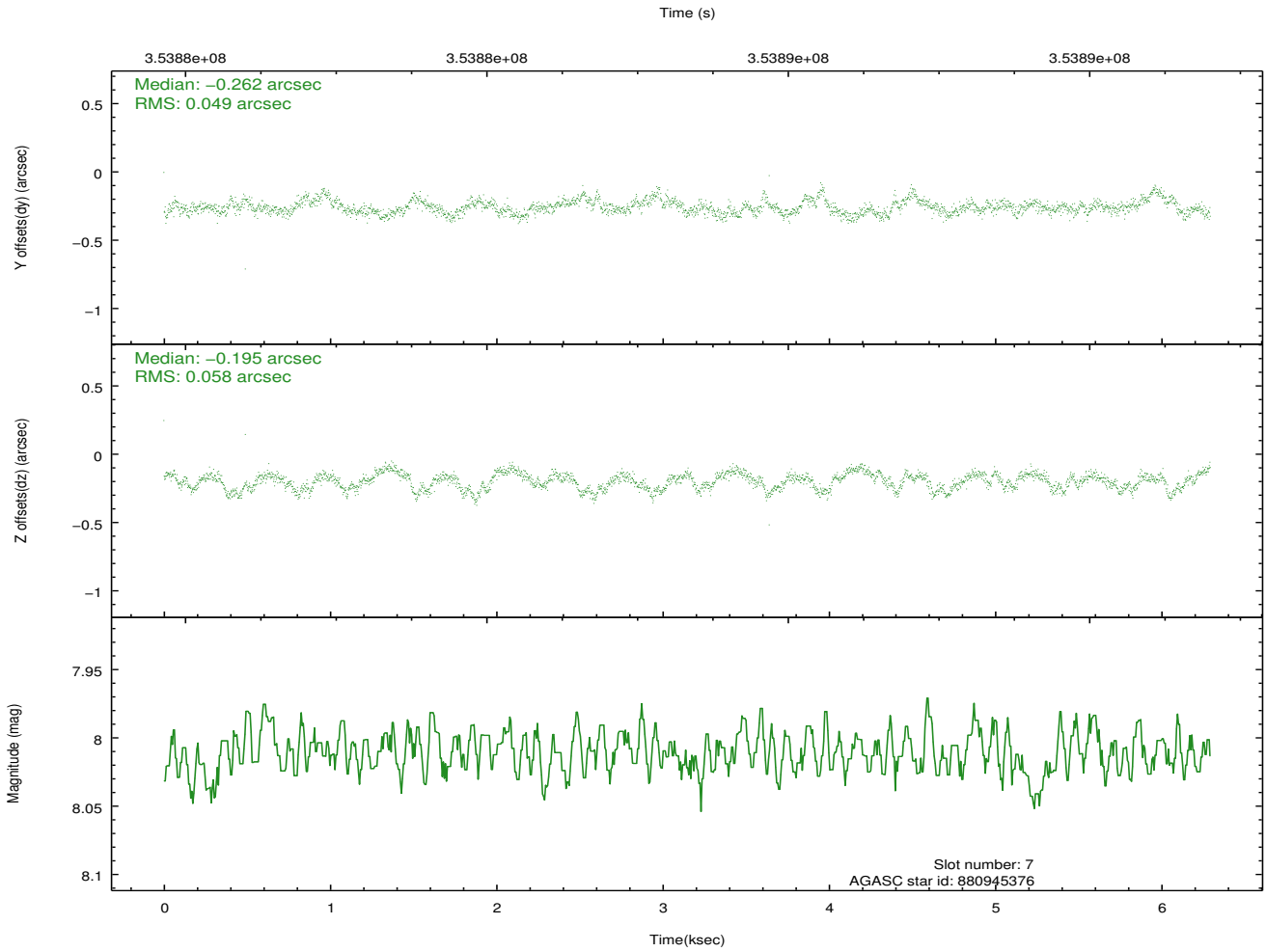
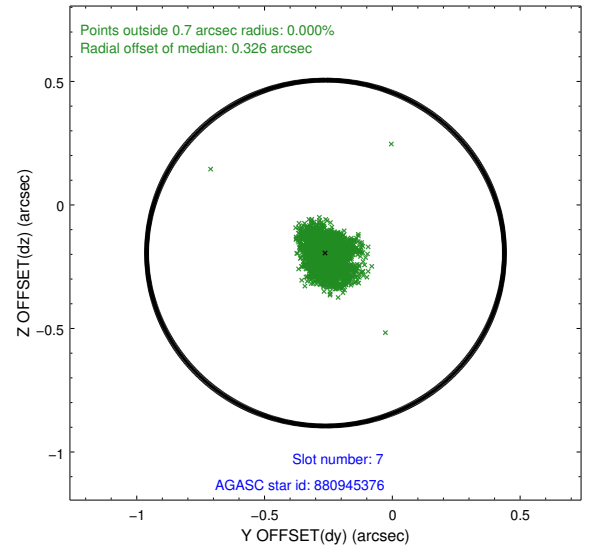
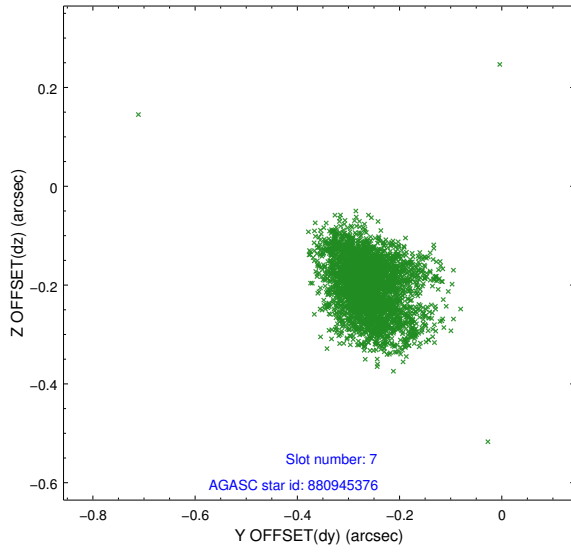
### 2.4.3 Slot 5



## 2.4.4 Slot 6

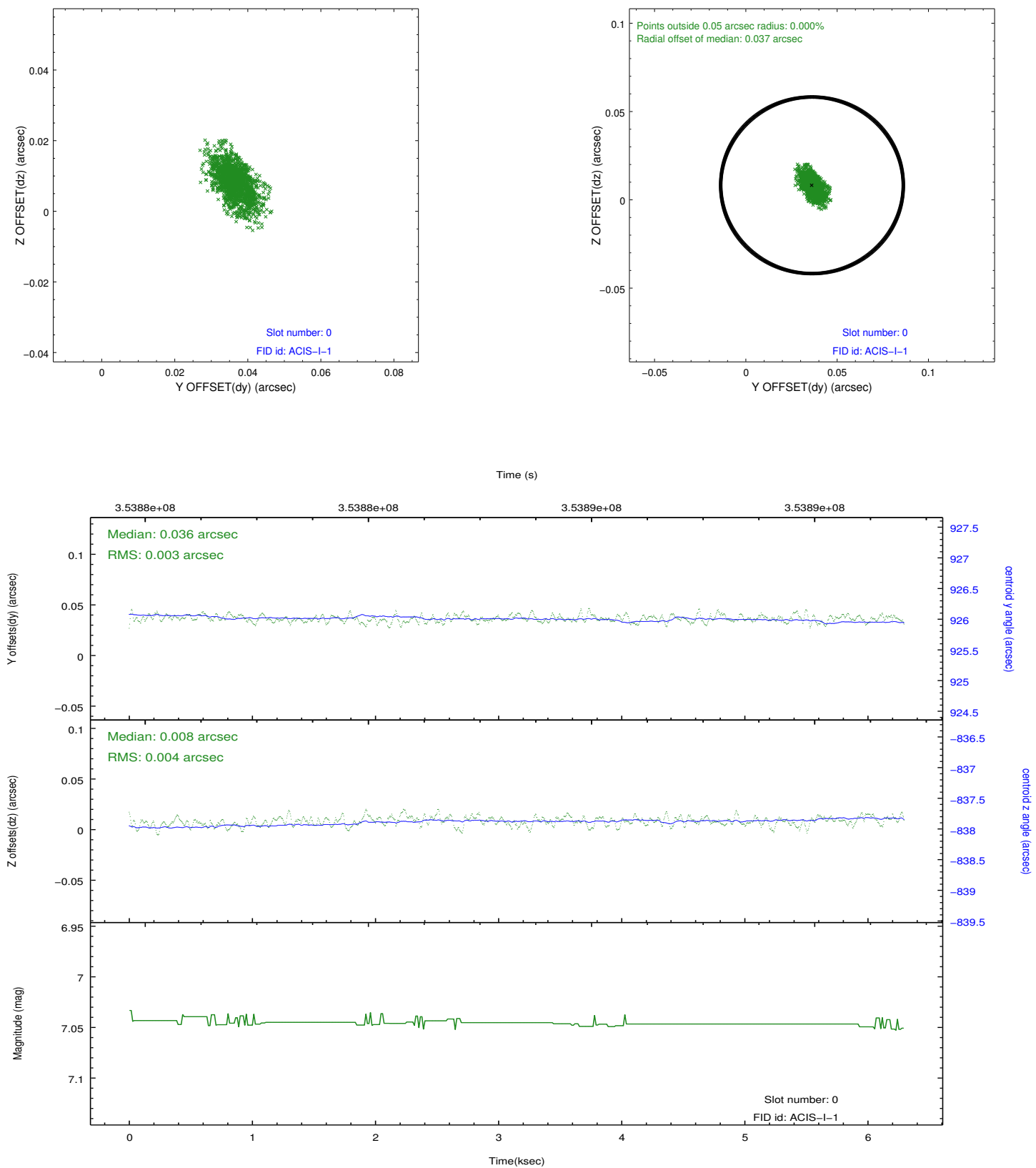


## 2.4.5 Slot 7

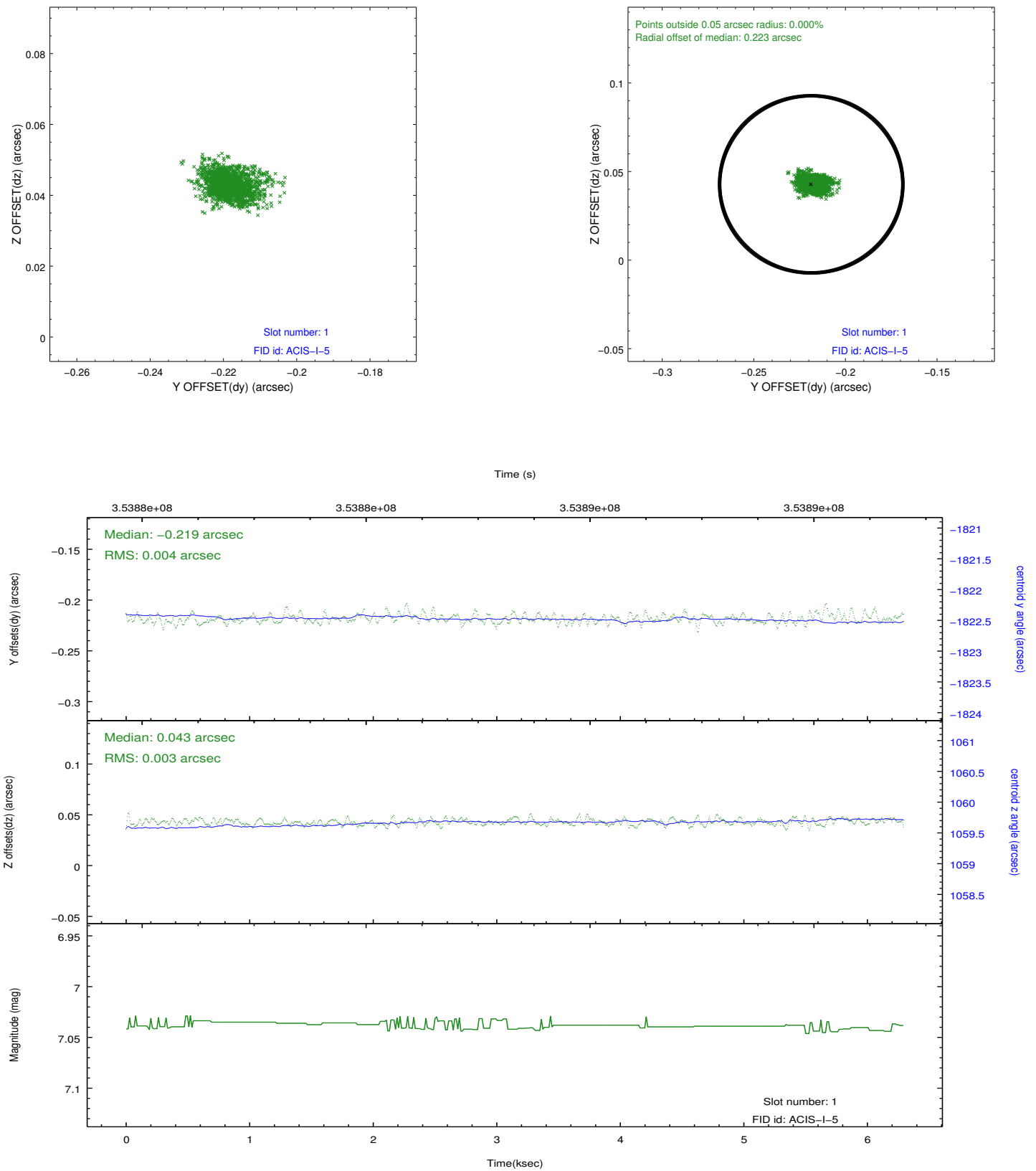


## 2.5 FID Slots

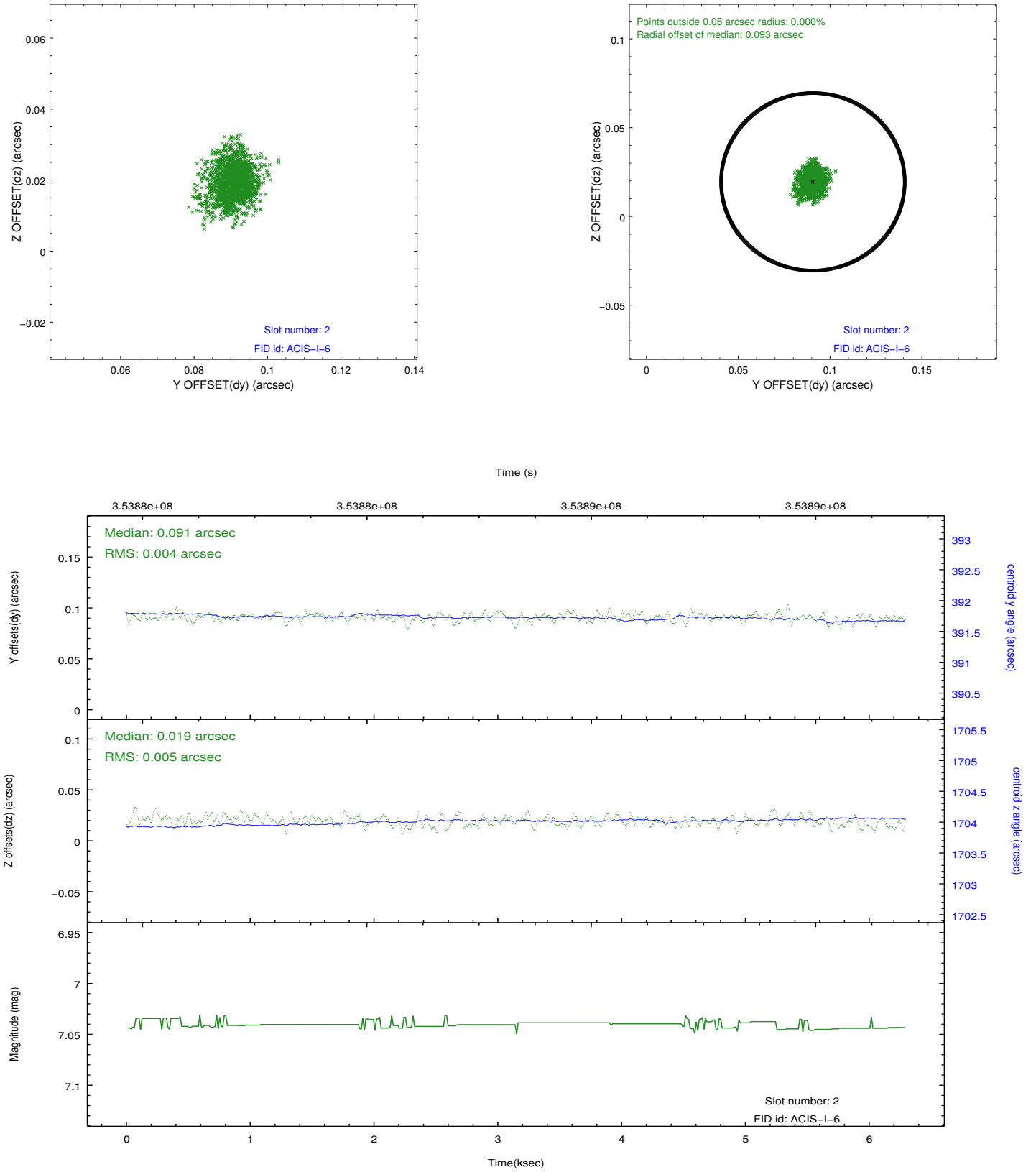
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.88685904

### A.2 Comments