

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11637 - L2 Version 2  
Chandra X-Ray Center

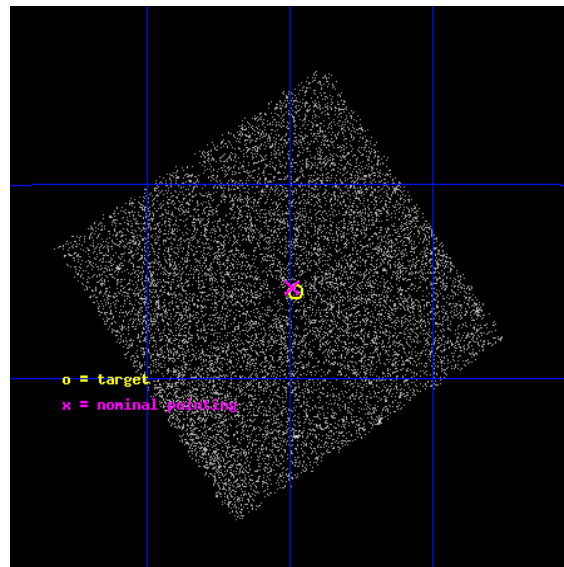
L2 Processing Date : Jun 20 2012

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# 1 Front

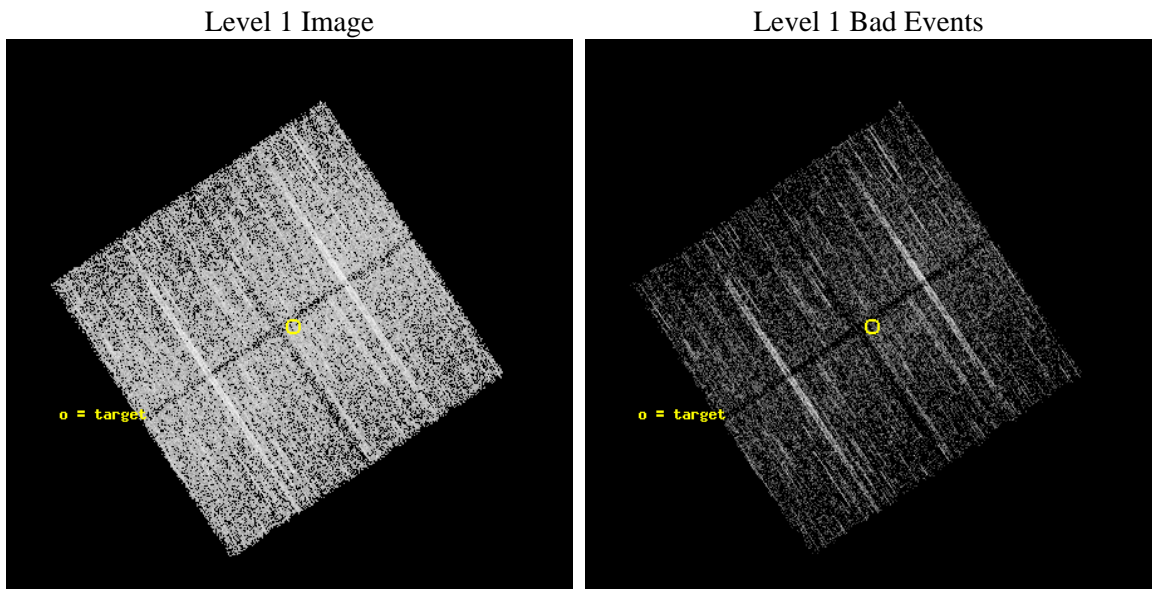
seq_num	702223	Sequence number
obs_id	11637	Observation id
title	AGN ignition in the galaxy group environment	Proposal title
observer	Dr. John Silverman	Principal investigator
object	2PIGG_m1441	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	169.495	Observer's specified target RA [deg]
dec_targ	-4.424583	Observer's specified target Dec [deg]
ra_nom	169.49889434464	Nominal RA [deg]
dec_nom	-4.4220053621957	Nominal Dec [deg]
roll_nom	56.268351143049	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4795.423199296	Sum of GTIs [s]
livetime	4732.767464858	Livetime [s]
ontime0	4792.1590790749	Sum of GTIs [s]
ontime1	4792.2001289129	Sum of GTIs [s]
ontime2	4792.2411690354	Sum of GTIs [s]
ontime3	4795.423199296	Sum of GTIs [s]
l2events	14336	Number of level 2 events



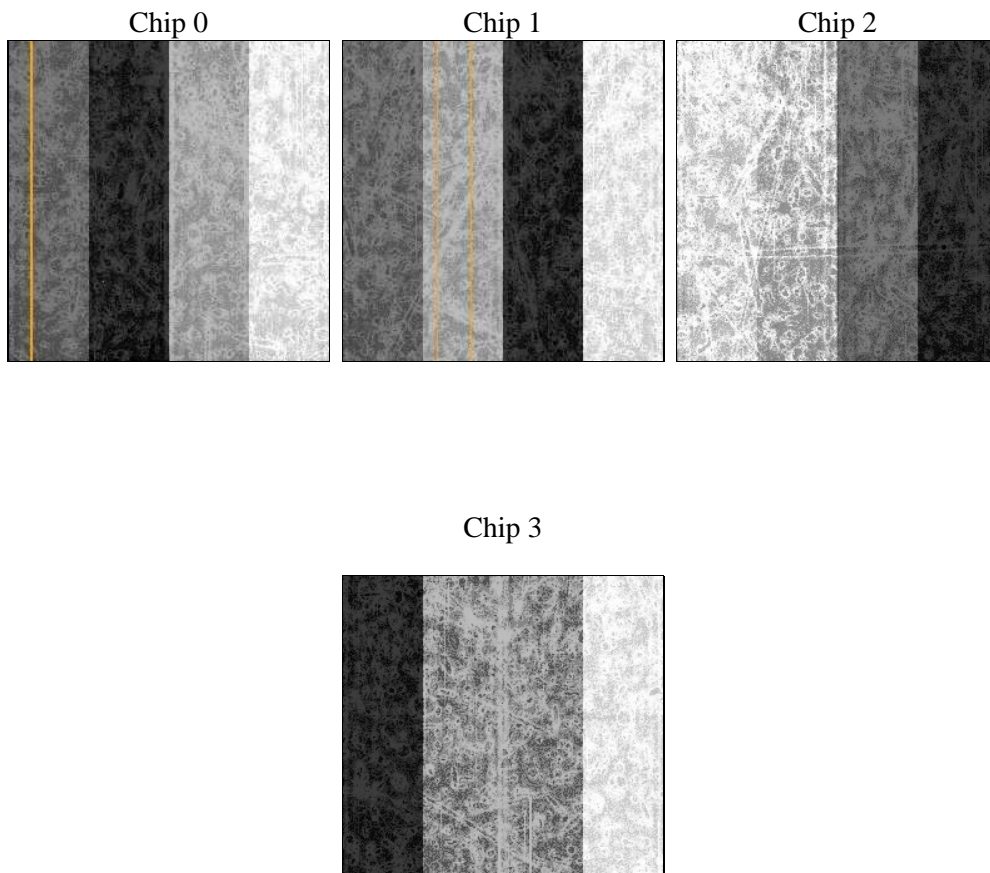
## 2 OBI

### 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	4795.423199296	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	4792.1590790749	Sum of GTIs [s]
date	2012-06-20T23:59:58	Date and time of file creation	ontime1	4792.2001289129	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4792.2411690354	Sum of GTIs [s]
			ontime3	4795.423199296	Sum of GTIs [s]
			l1events	154686	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	37454	38144	40934	38154
rejected events	33060	33357	36731	34158
rejected %	88%	87%	89%	89%

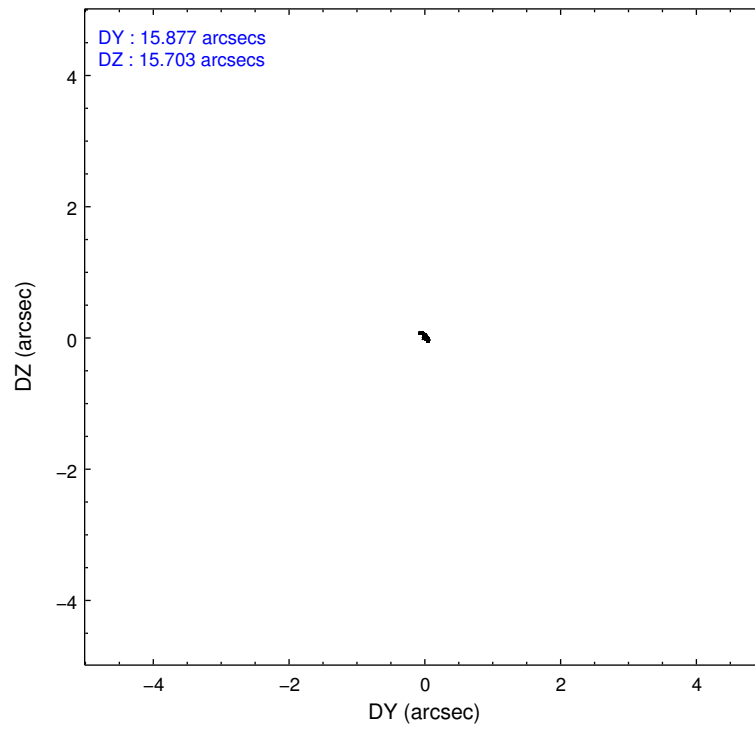
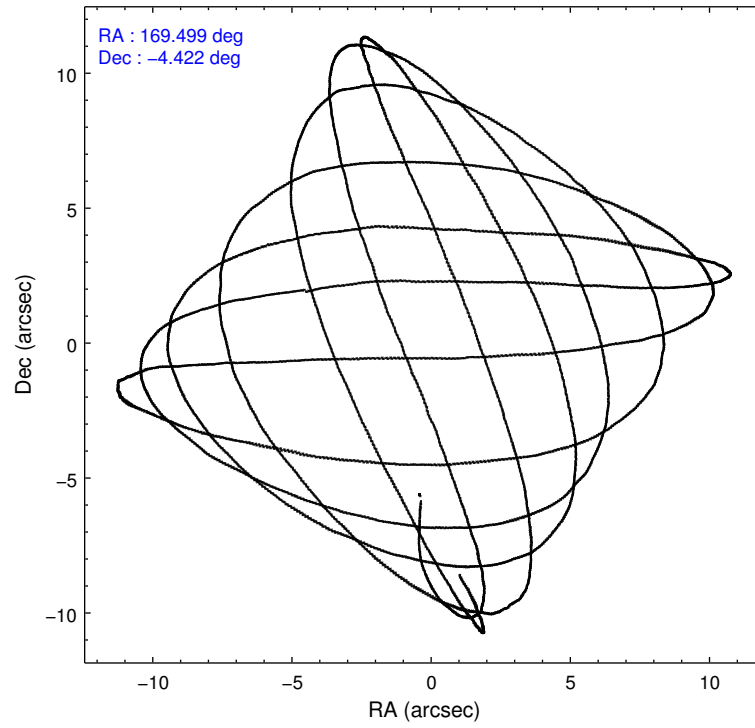
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1575	1770	1481	1436
	4%	4%	3%	3%
grade 1 events	27	21	22	20
	0%	0%	0%	0%
grade 2 events	1062	1063	1041	877
	2%	2%	2%	2%
grade 3 events	459	537	432	436
	1%	1%	1%	1%
grade 4 events	436	474	454	450
	1%	1%	1%	1%
grade 5 events	1507	1702	1501	1752
	4%	4%	3%	4%
grade 6 events	864	946	797	797
	2%	2%	1%	2%
grade 7 events	31524	31631	35206	32386
	84%	82%	86%	84%

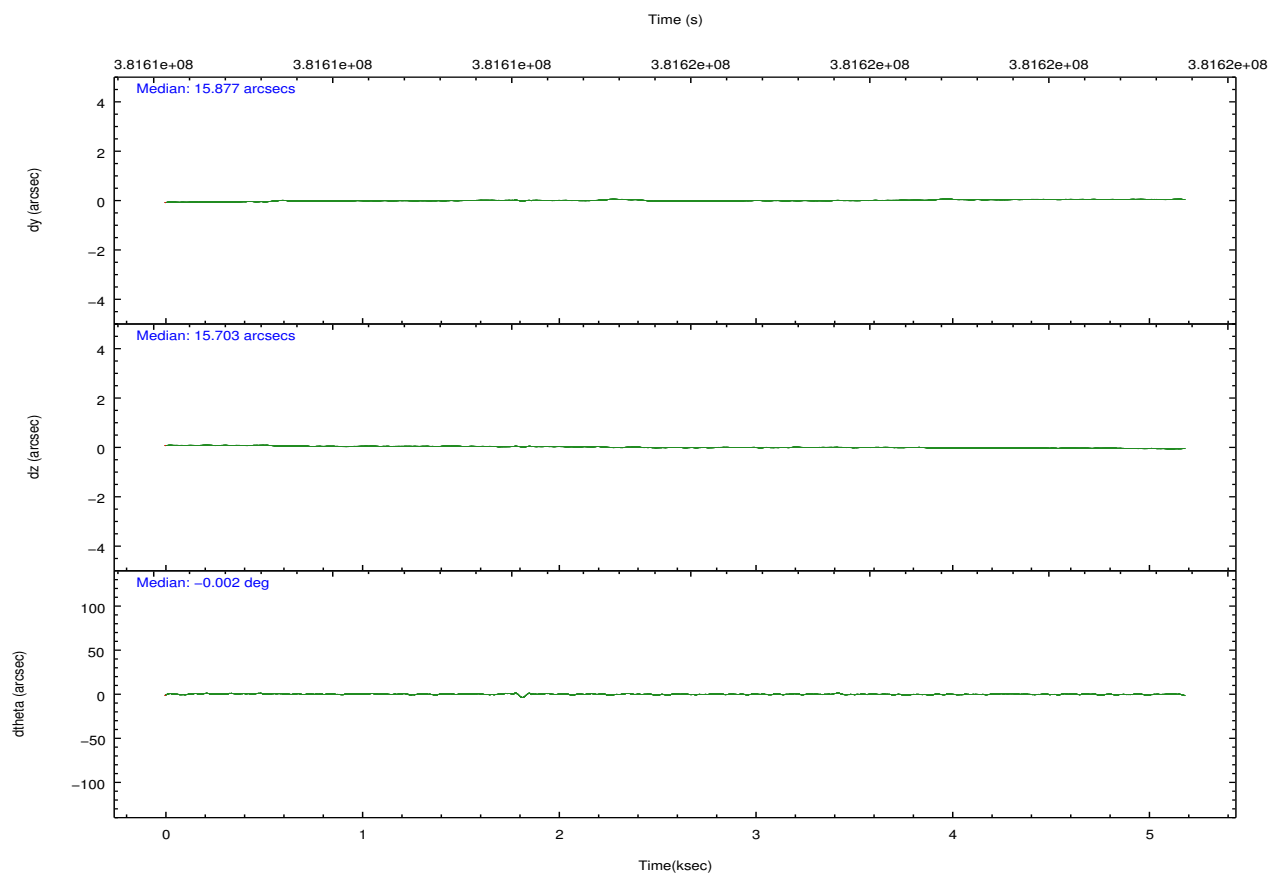
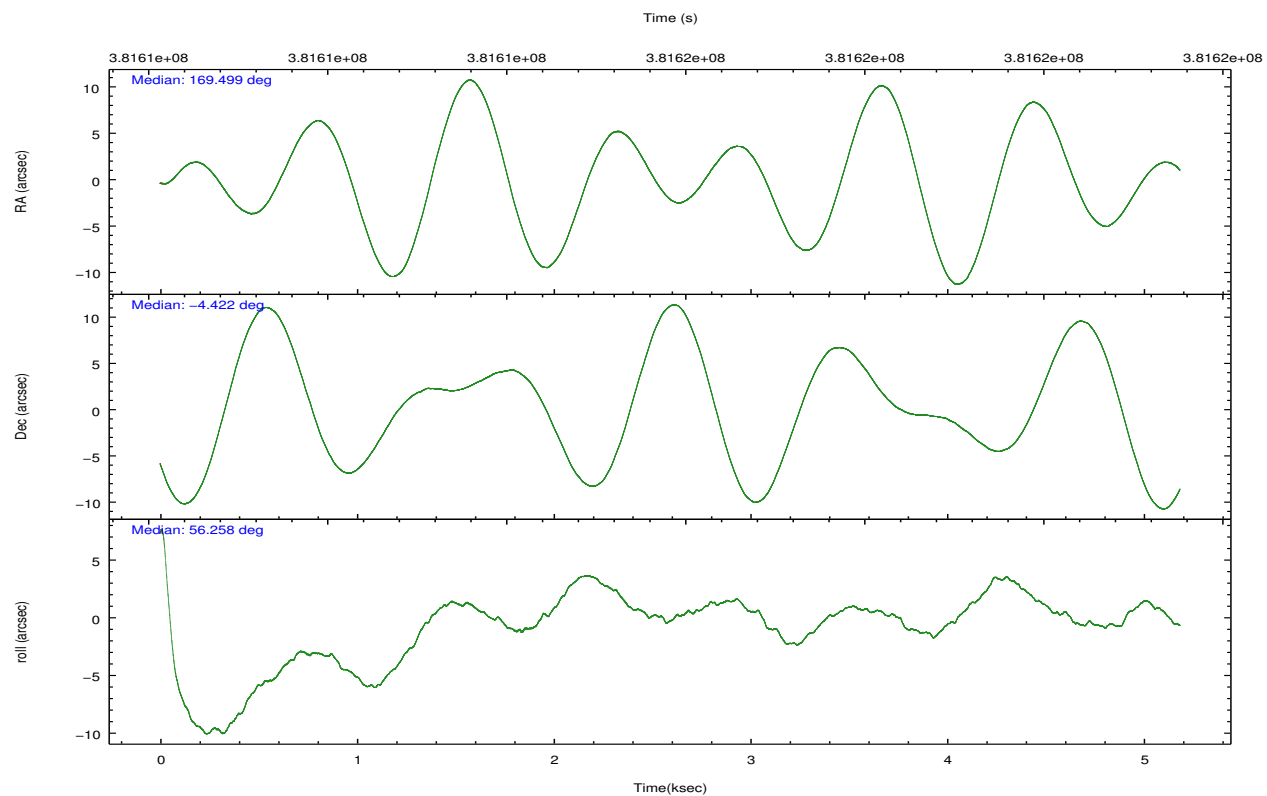


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	169.497213	169.4988943446368	Subarray requested	NONE	NONE
[deg] Pointing Dec	-4.449364	-4.422005362195688	Alternating exposures requested	N	N
[deg] Pointing Roll	56.059496	56.26835114304947	[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)	381612500.184000	381611777.97201			
Observation start date	2010-02-03T19:27:14	2010-02-03T19:16:17			
[s] Observation end time (MET)	381617500.184000	381618454.30985			
Observation end date	2010-02-03T20:50:34	2010-02-03T21:07:34			
Read mode	TIMED	TIMED			

## 2.3 Aspect



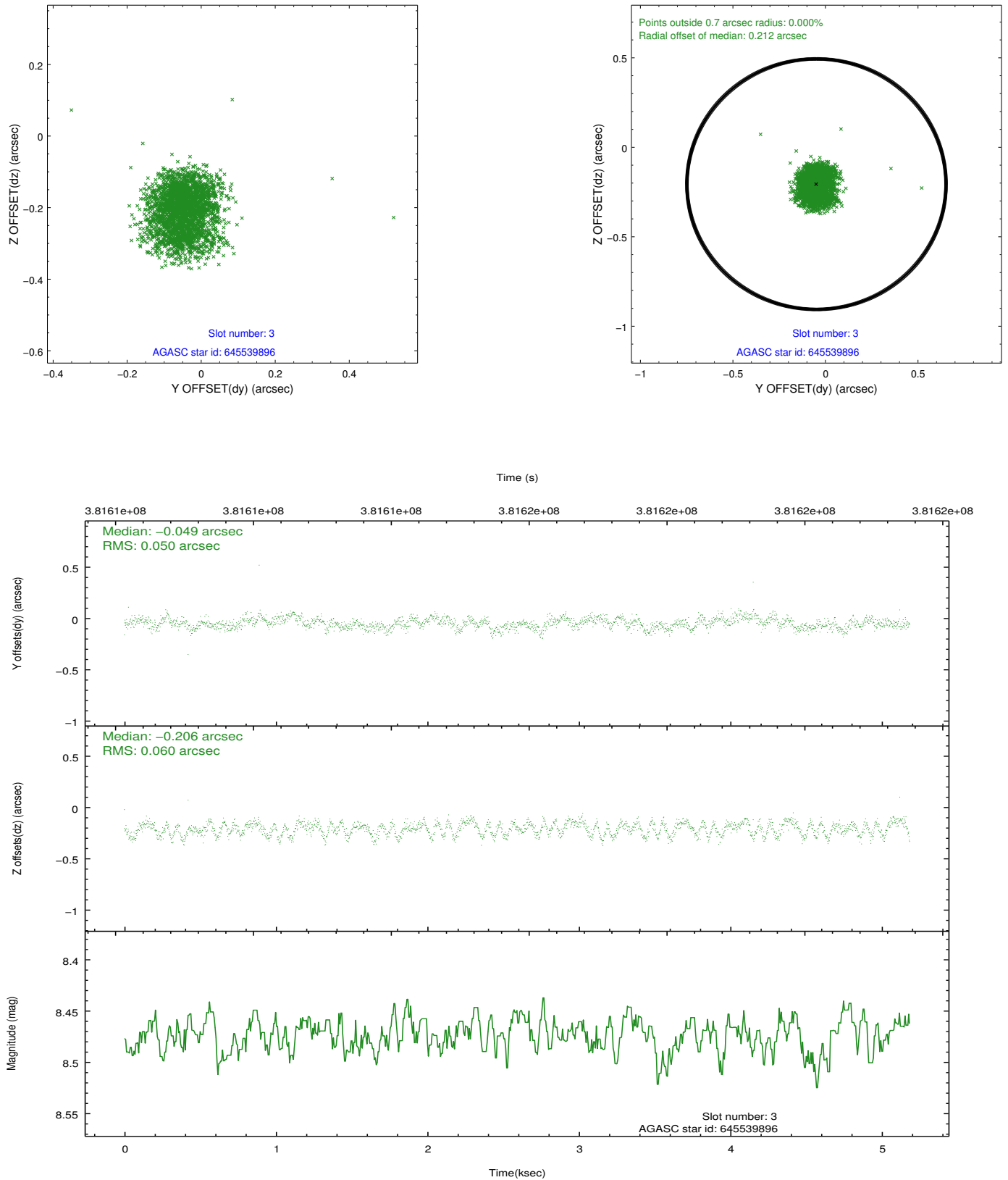


### Slot Statistics

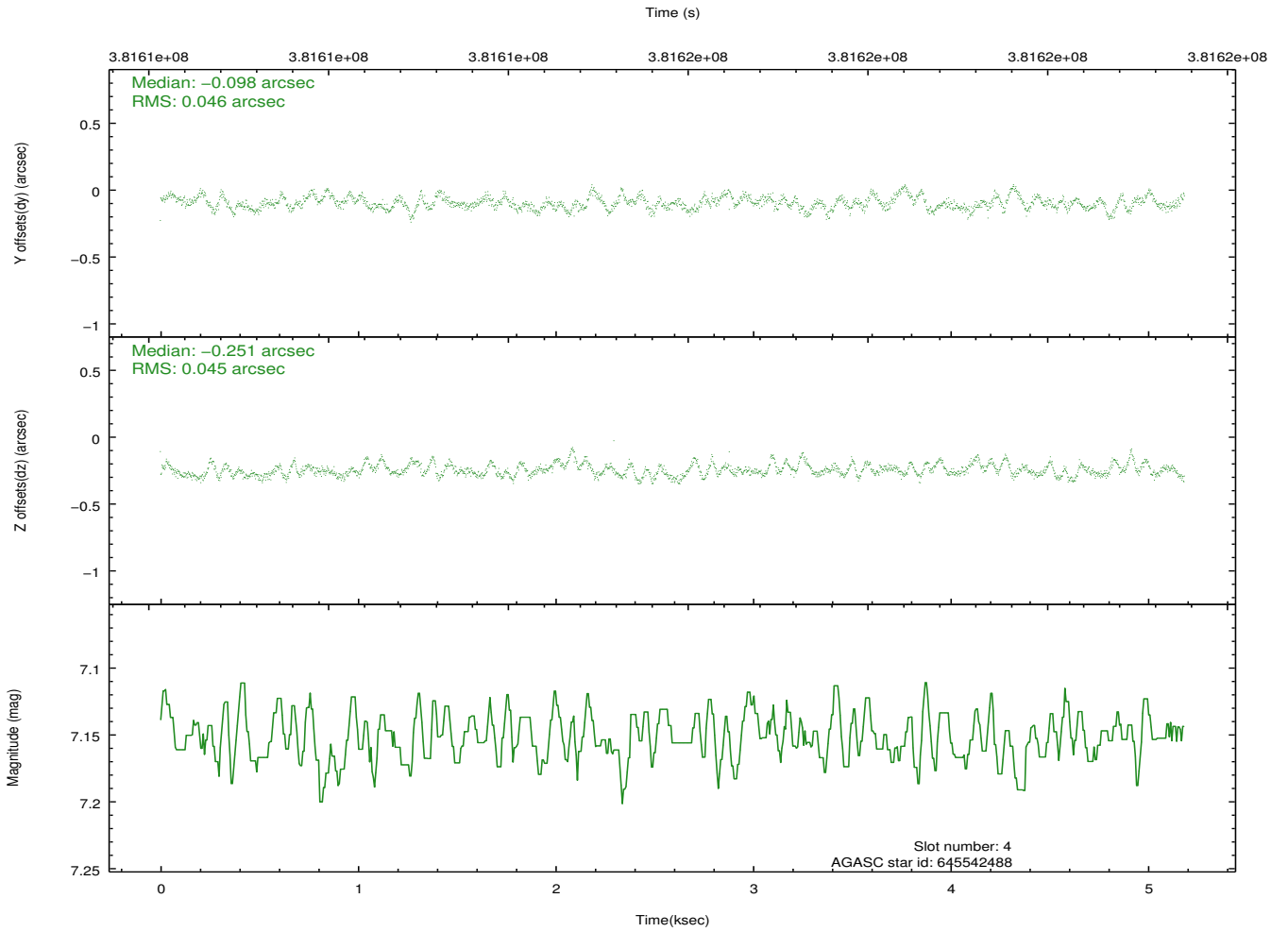
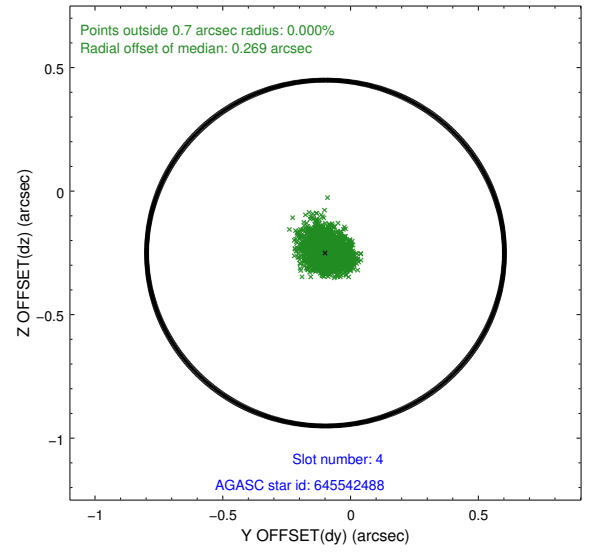
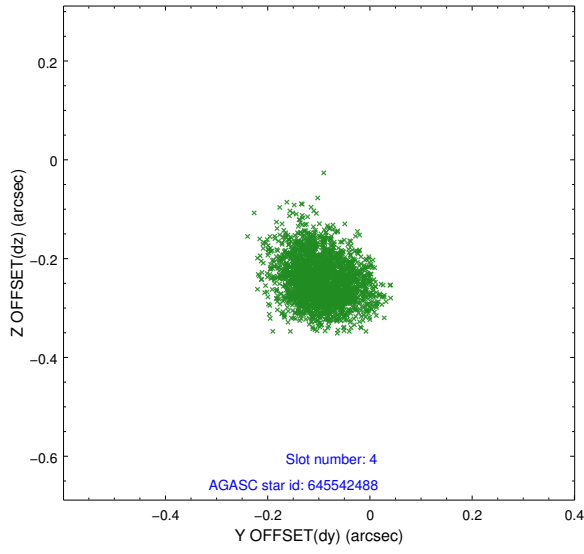
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.04	1265	0.056	-0.047	0.006	0.011	0.000000	0.000000	923.61	-839.38
1	FID	ACIS-I-5	7.02	1265	-0.233	0.047	0.005	0.009	0.000000	0.000000	-1824.14	1057.62
2	FID	ACIS-I-6	7.03	1265	0.086	0.071	0.006	0.010	0.000000	0.000000	387.91	1703.47
3	GUIDE	645539896	8.47	2528	-0.049	-0.206	0.083	0.129	169.185928	-3.942919	888.30	1945.49
4	GUIDE	645542488	7.15	2529	-0.098	-0.251	0.068	0.111	169.151898	-3.966784	749.11	1999.28
5	GUIDE	645670512	8.00	2529	-0.023	0.145	0.080	0.129	170.317995	-4.366202	1893.19	-2276.27
6	GUIDE	645538776	9.44	2529	0.204	0.091	0.112	0.176	168.926021	-4.509124	-1322.52	1579.25
7	GUIDE	645669832	9.37	2528	-0.044	0.222	0.098	0.159	170.295297	-4.380193	1804.88	-2237.30

## 2.4 Star Slots

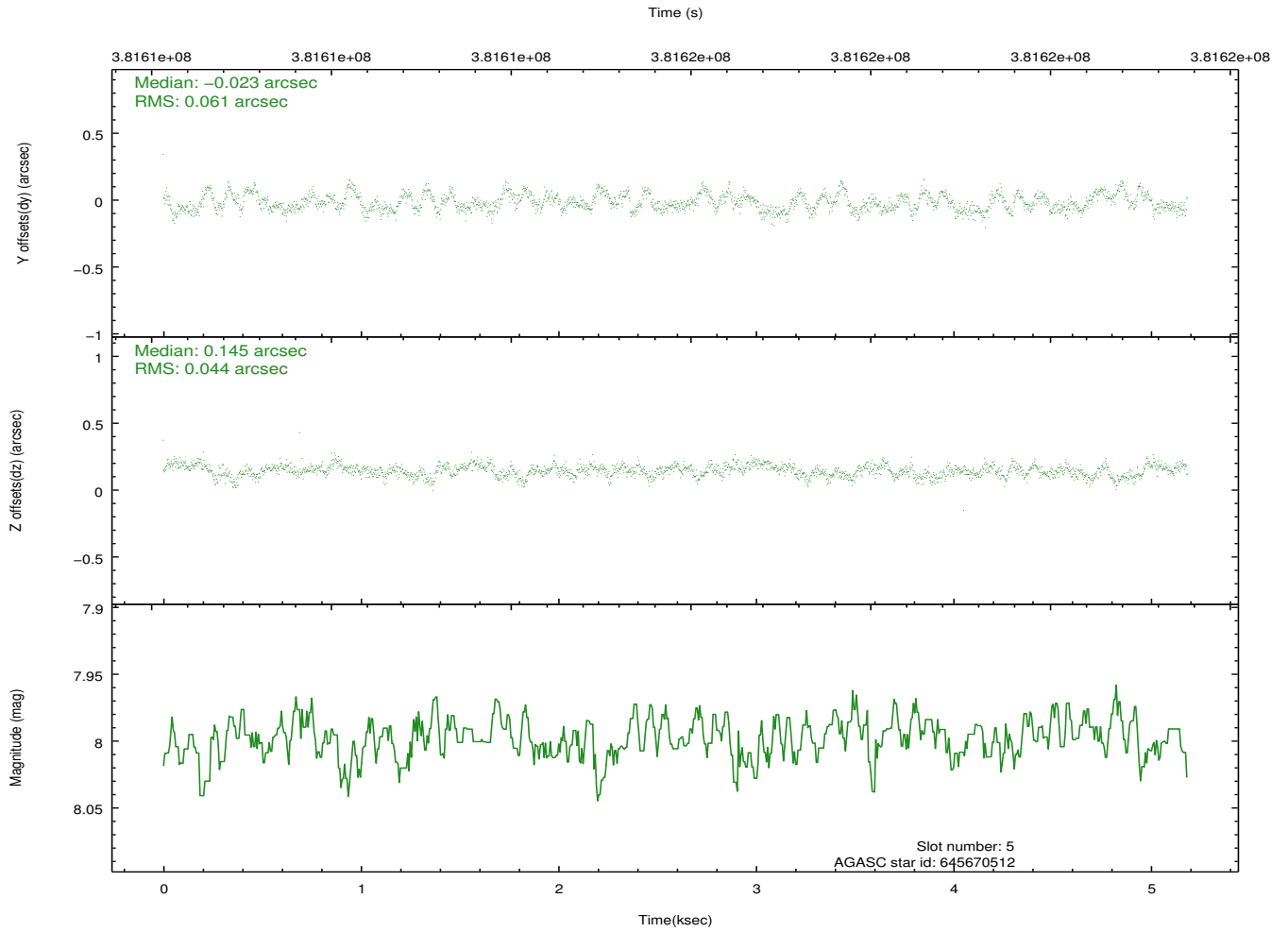
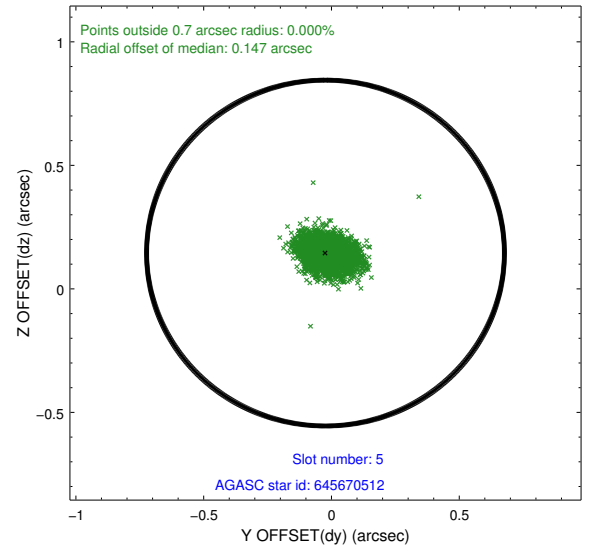
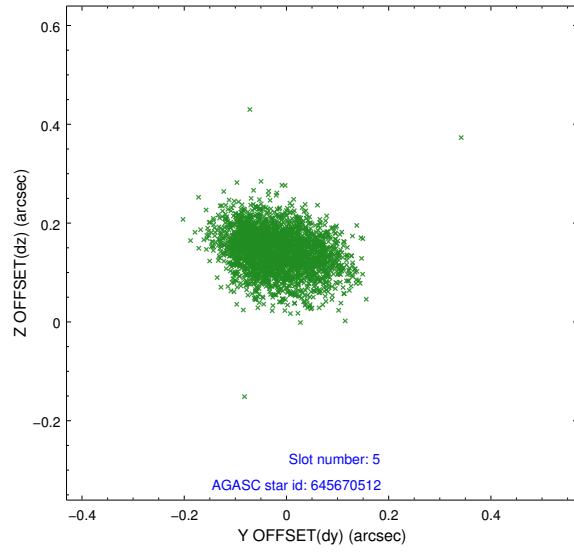
### 2.4.1 Slot 3



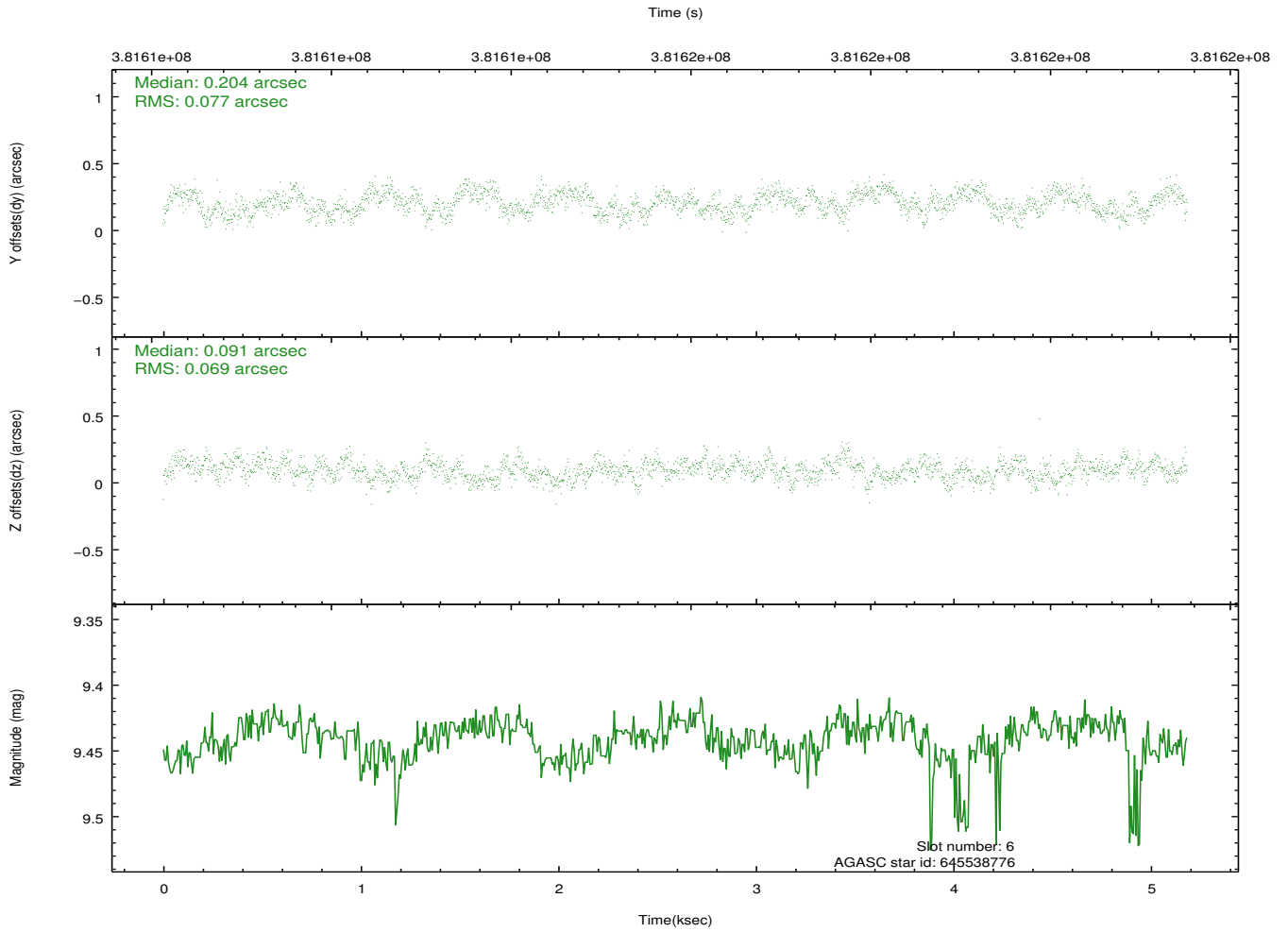
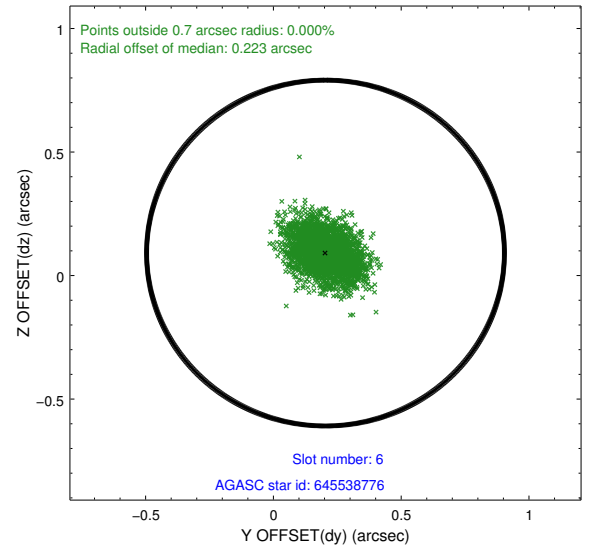
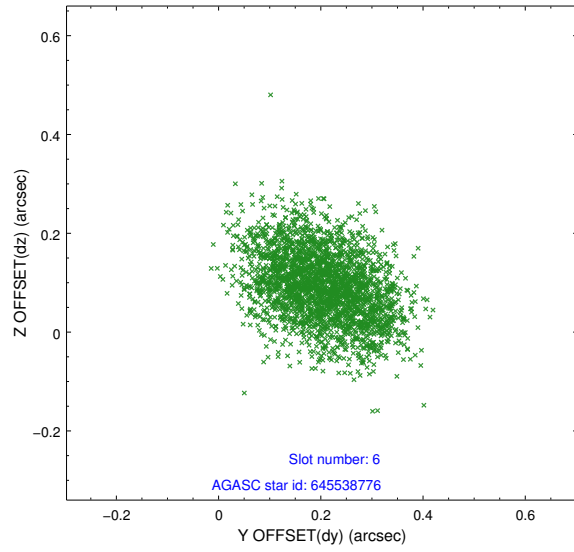
## 2.4.2 Slot 4



### 2.4.3 Slot 5

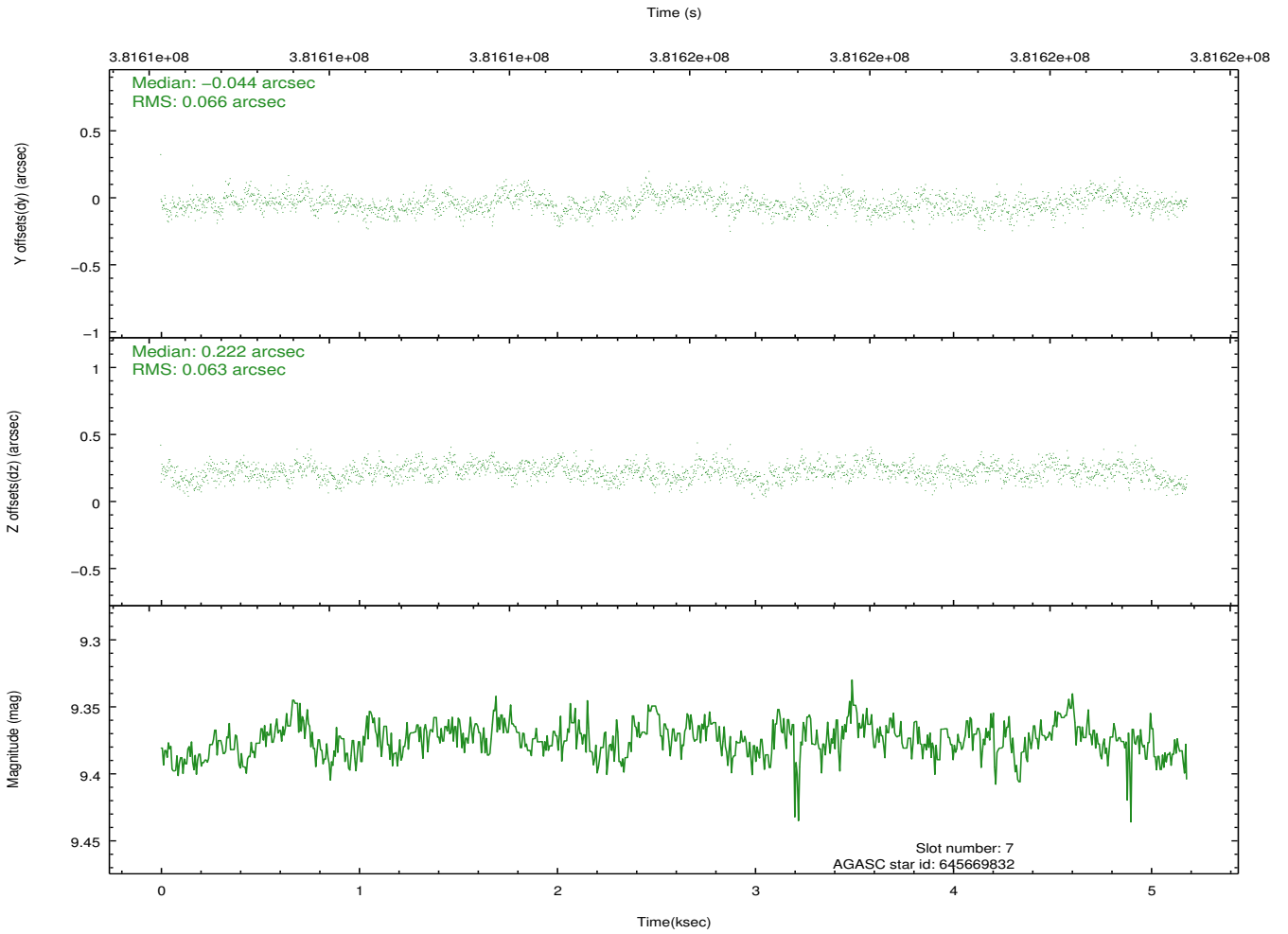
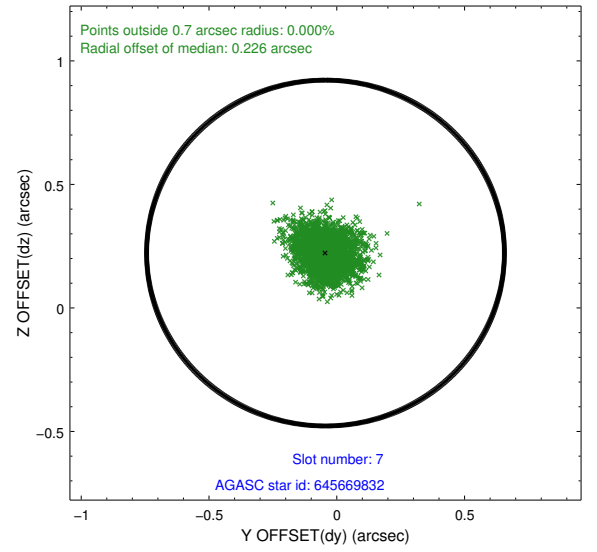
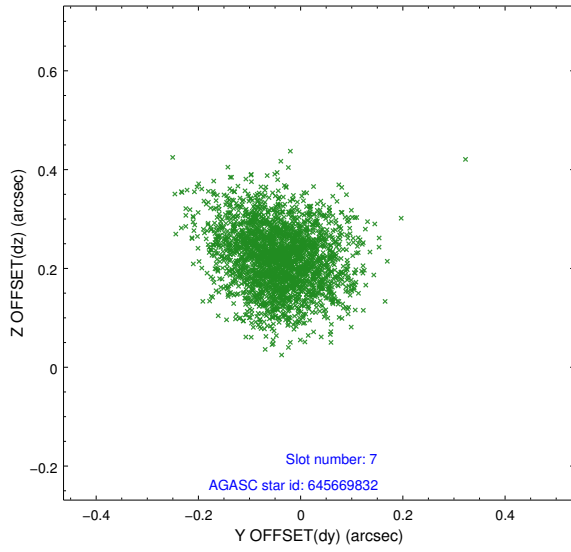


## 2.4.4 Slot 6



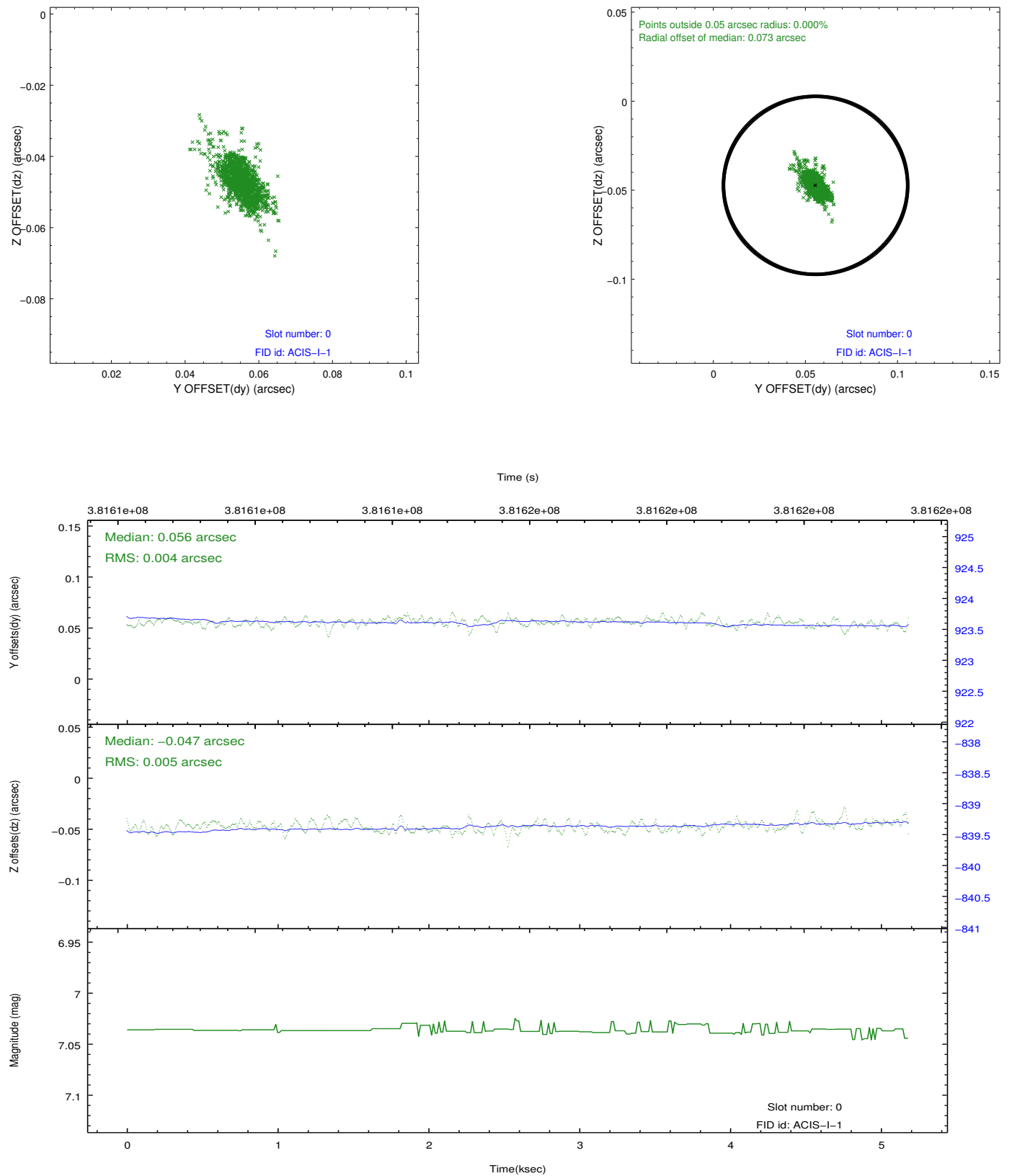


### 2.4.5 Slot 7

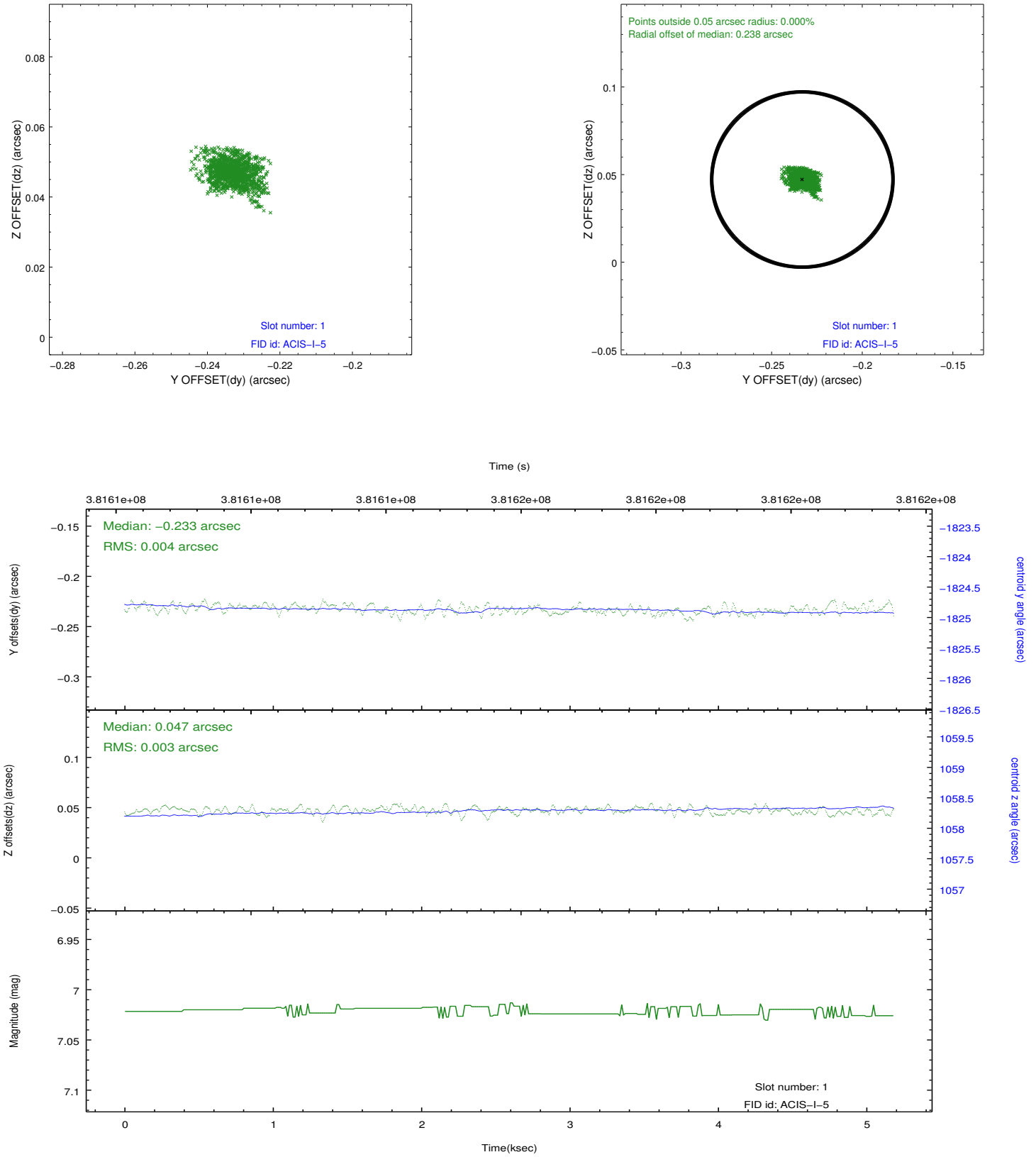


## 2.5 FID Slots

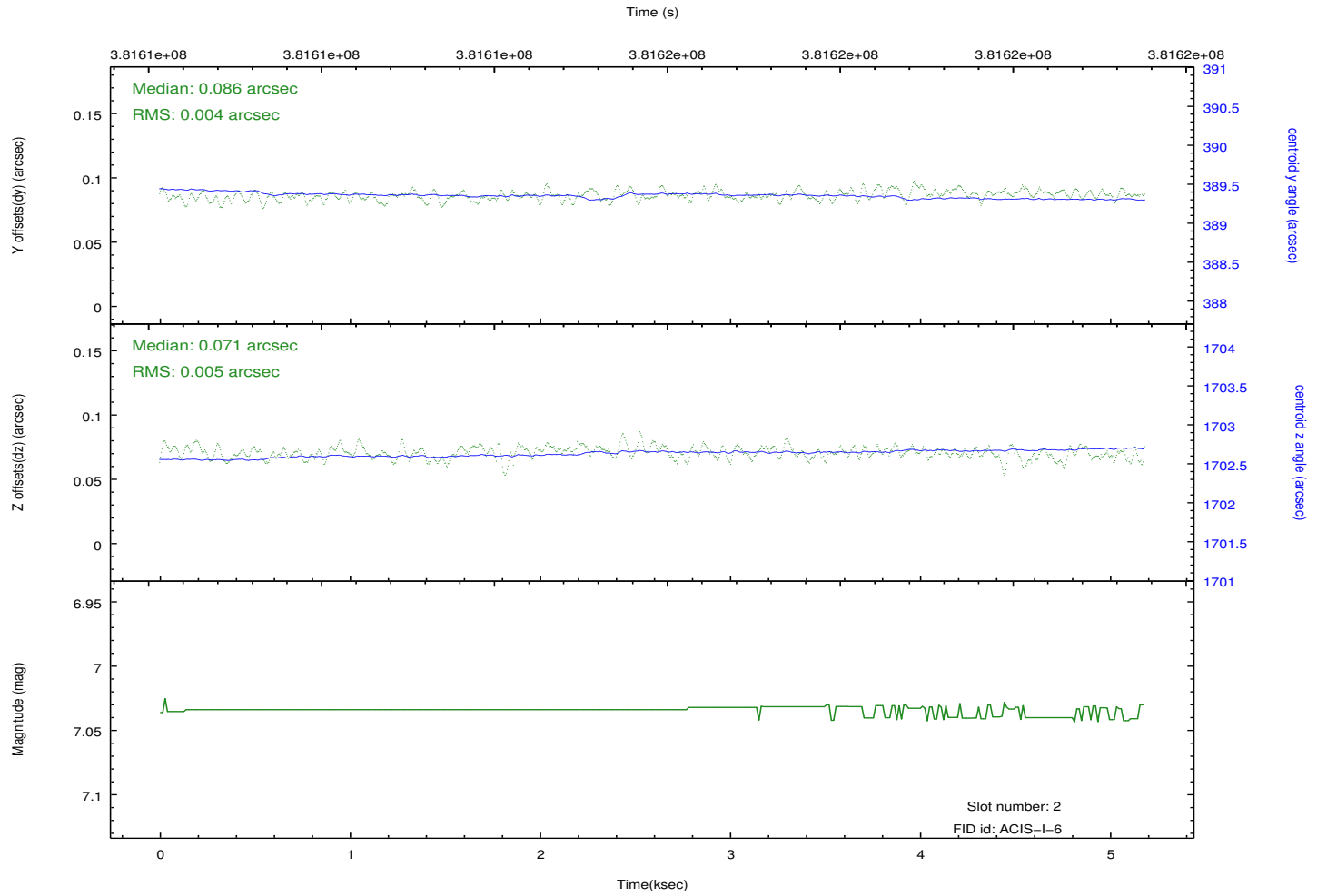
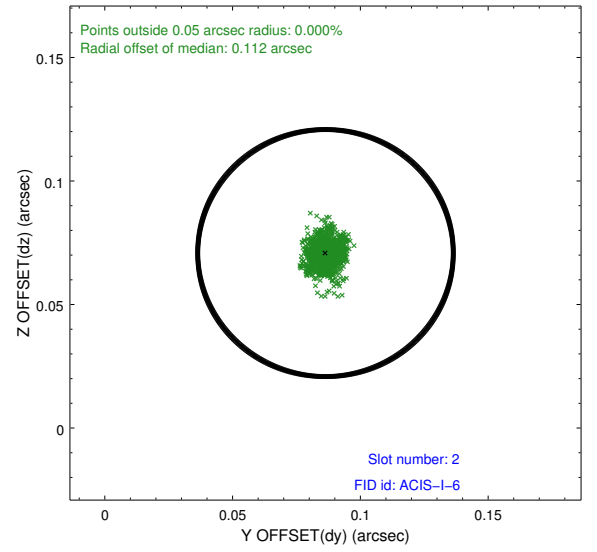
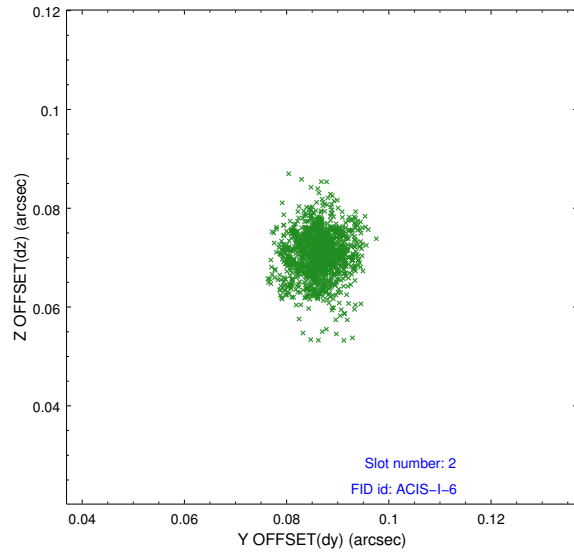
### 2.5.1 Slot 0



## 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)	2012.06.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.7954232005477

### A.2 Comments