

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11649 - L2 Version 2  
Chandra X-Ray Center

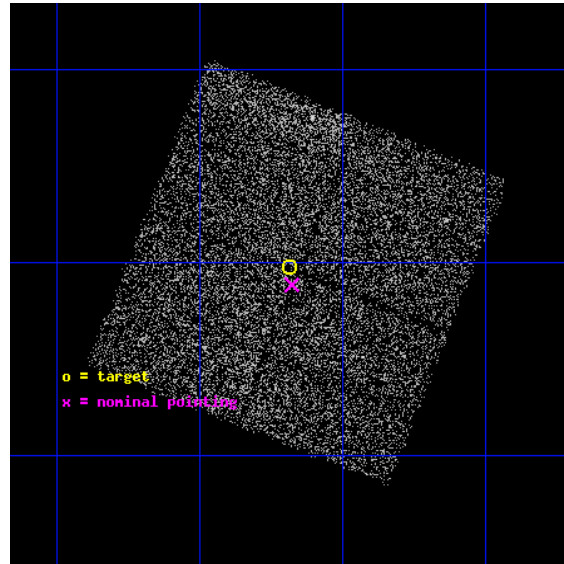
L2 Processing Date : Jun 25 2012

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# 1 Front

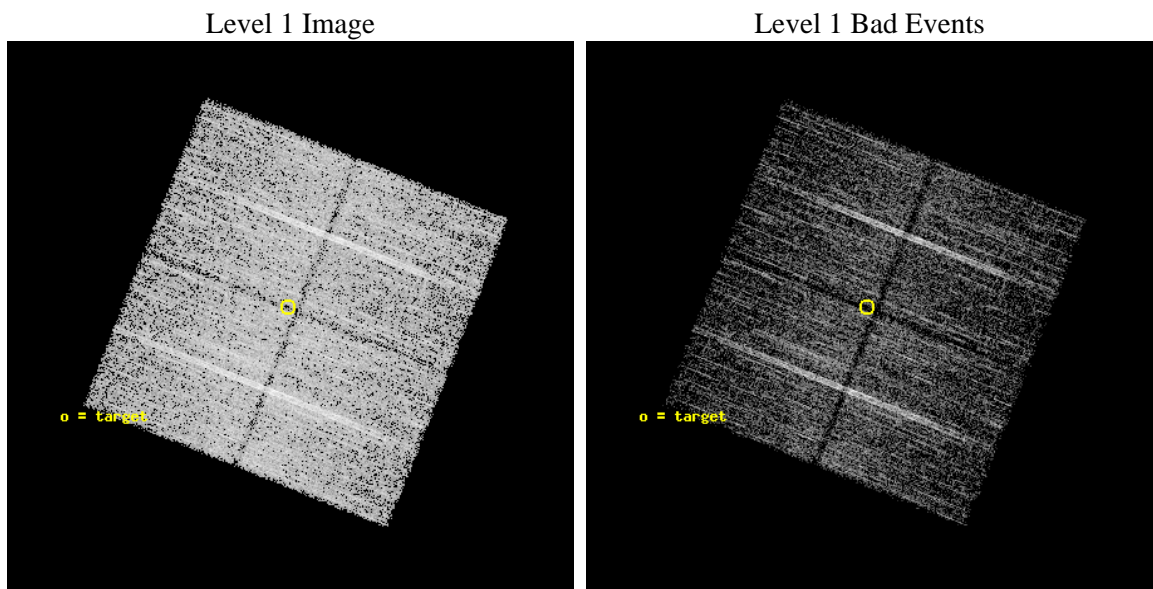
seq_num	702235	Sequence number
obs_id	11649	Observation id
title	AGN ignition in the galaxy group environment	Proposal title
observer	Dr. John Silverman	Principal investigator
object	2PIGG_m1746	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	220.046667	Observer's specified target RA [deg]
dec_targ	-3.670722	Observer's specified target Dec [deg]
ra_nom	220.04429144975	Nominal RA [deg]
dec_nom	-3.6859019049122	Nominal Dec [deg]
roll_nom	201.7880658114	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7629.1000586748	Sum of GTIs [s]
livetime	7529.4202499465	Livetime [s]
ontime0	7629.1000586748	Sum of GTIs [s]
ontime1	7629.1000586748	Sum of GTIs [s]
ontime2	7629.1000586748	Sum of GTIs [s]
ontime3	7629.1000586748	Sum of GTIs [s]
l2events	20747	Number of level 2 events



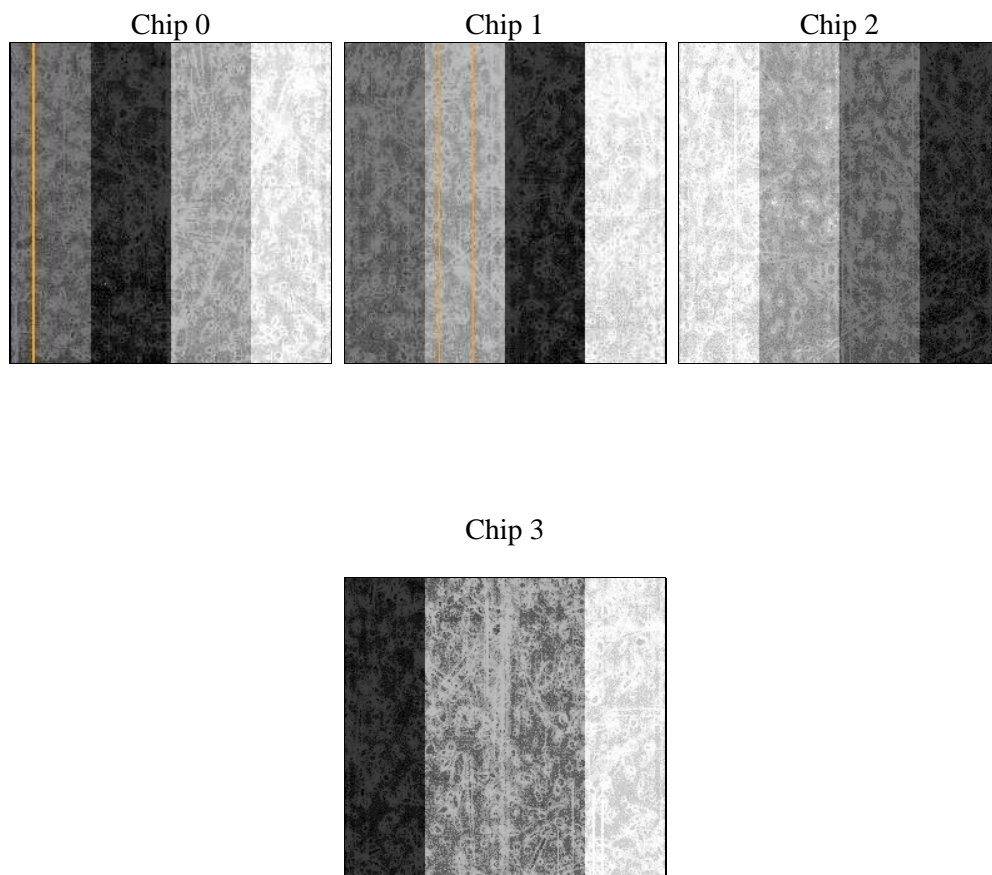
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7629.1000586748	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	7629.1000586748	Sum of GTIs [s]
date	2012-06-25T09:50:26	Date and time of file creation	ontime1	7629.1000586748	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	7629.1000586748	Sum of GTIs [s]
			ontime3	7629.1000586748	Sum of GTIs [s]
			l1events	231964	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	54415	56373	61239	59937
rejected events	48256	49398	55131	54238
rejected %	88%	87%	90%	90%

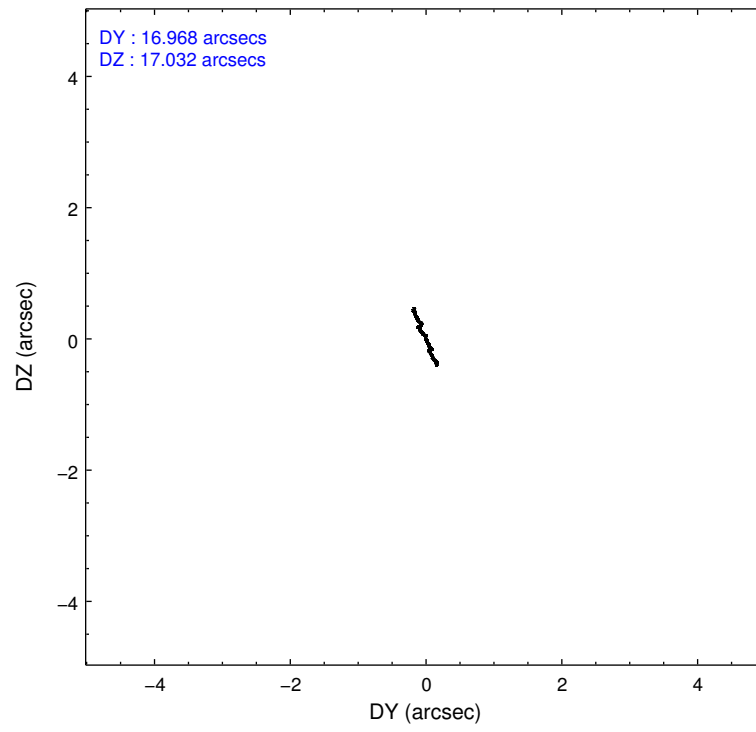
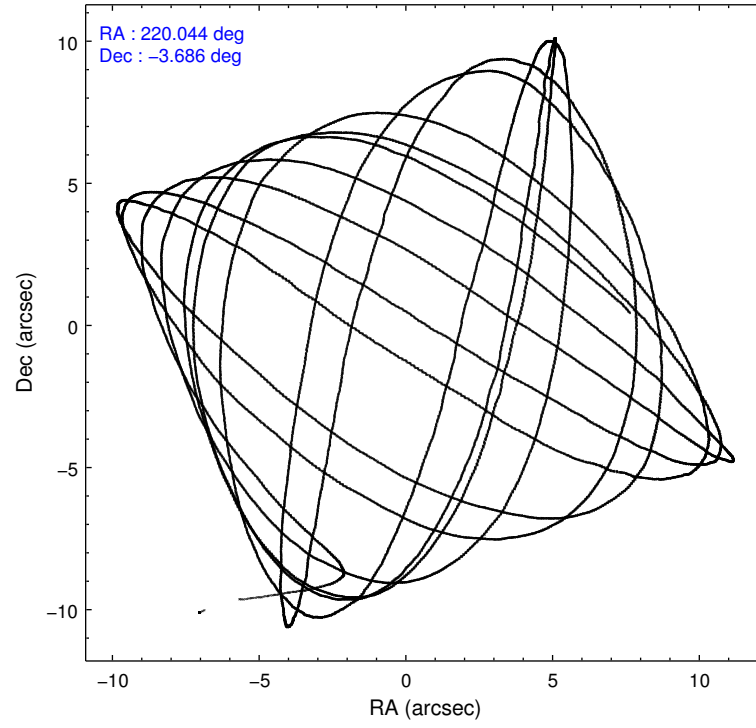
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	2325	2643	2325	2167
	4%	4%	3%	3%
grade 1 events	34	30	33	39
	0%	0%	0%	0%
grade 2 events	1623	1670	1569	1282
	2%	2%	2%	2%
grade 3 events	703	803	656	647
	1%	1%	1%	1%
grade 4 events	611	780	708	693
	1%	1%	1%	1%
grade 5 events	2373	2539	2288	2722
	4%	4%	3%	4%
grade 6 events	1218	1505	1192	1266
	2%	2%	1%	2%
grade 7 events	45528	46403	52468	51121
	83%	82%	85%	85%

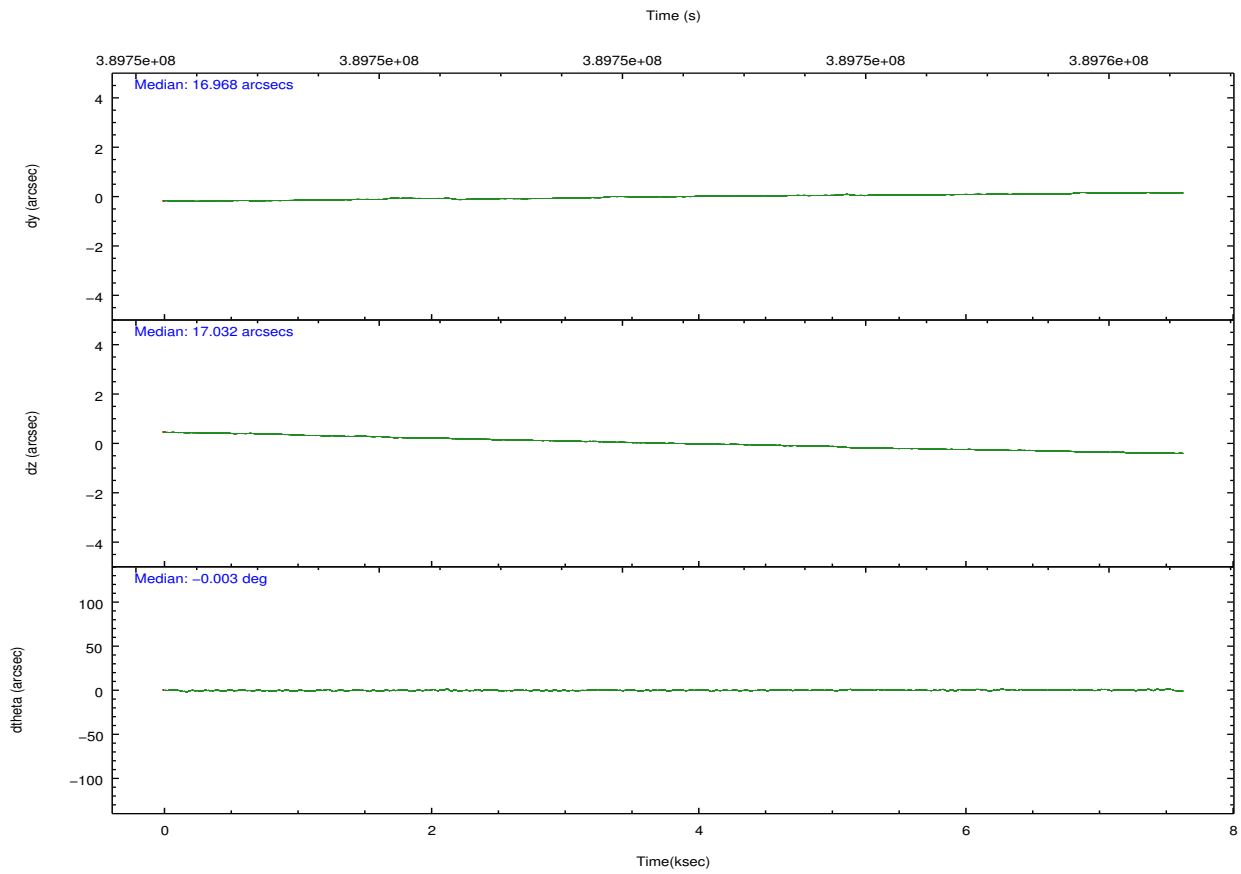
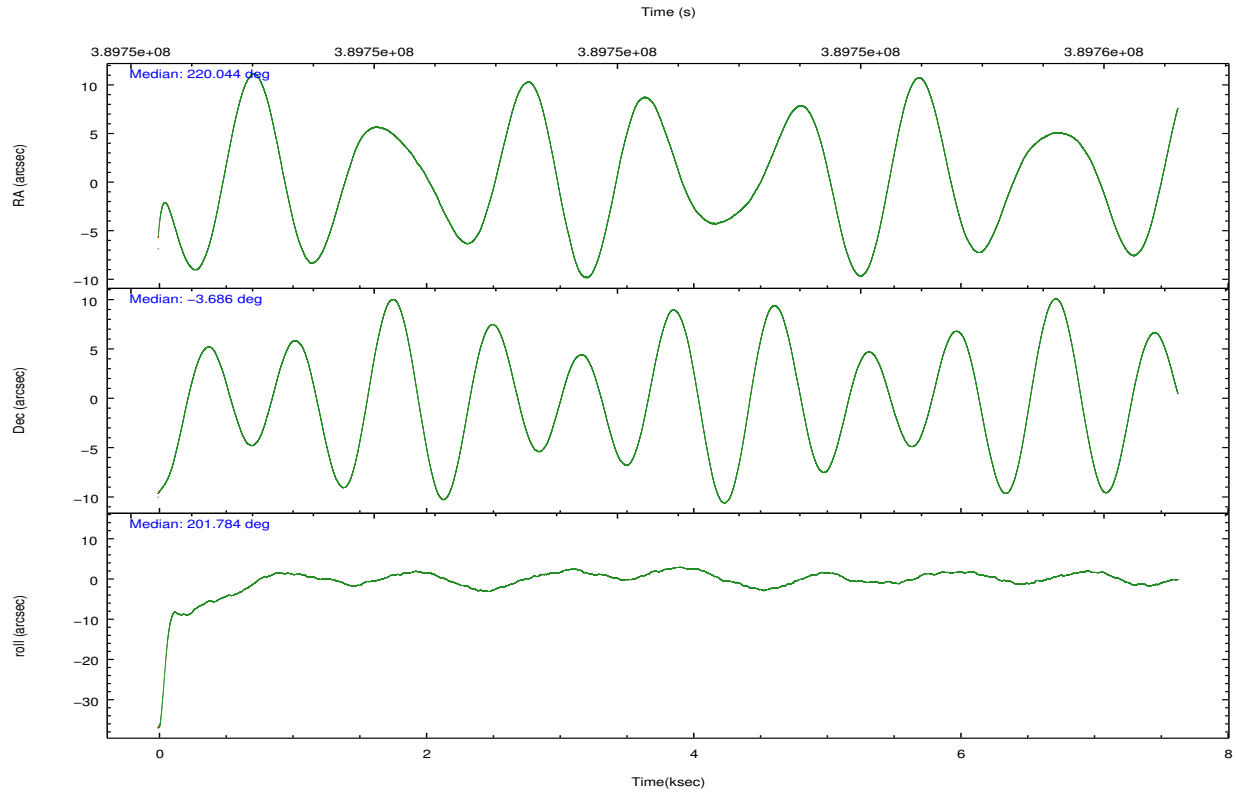


## 2.2 Compared Parameters

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	220.061335	220.0442914497546	Subarray requested	NONE	NONE
[deg] Pointing Dec	-3.664219	-3.685901904912174	Alternating exposures requested	N	N
[deg] Pointing Roll	201.580513	201.7880658113951	[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)	389748733.184000	389747612.87256			
Observation start date	2010-05-08T23:31:07	2010-05-08T23:13:32			
[s] Observation end time (MET)	389756233.184000	389756804.56052			
Observation end date	2010-05-09T01:36:07	2010-05-09T01:46:44			
Read mode	TIMED	TIMED			

## 2.3 Aspect



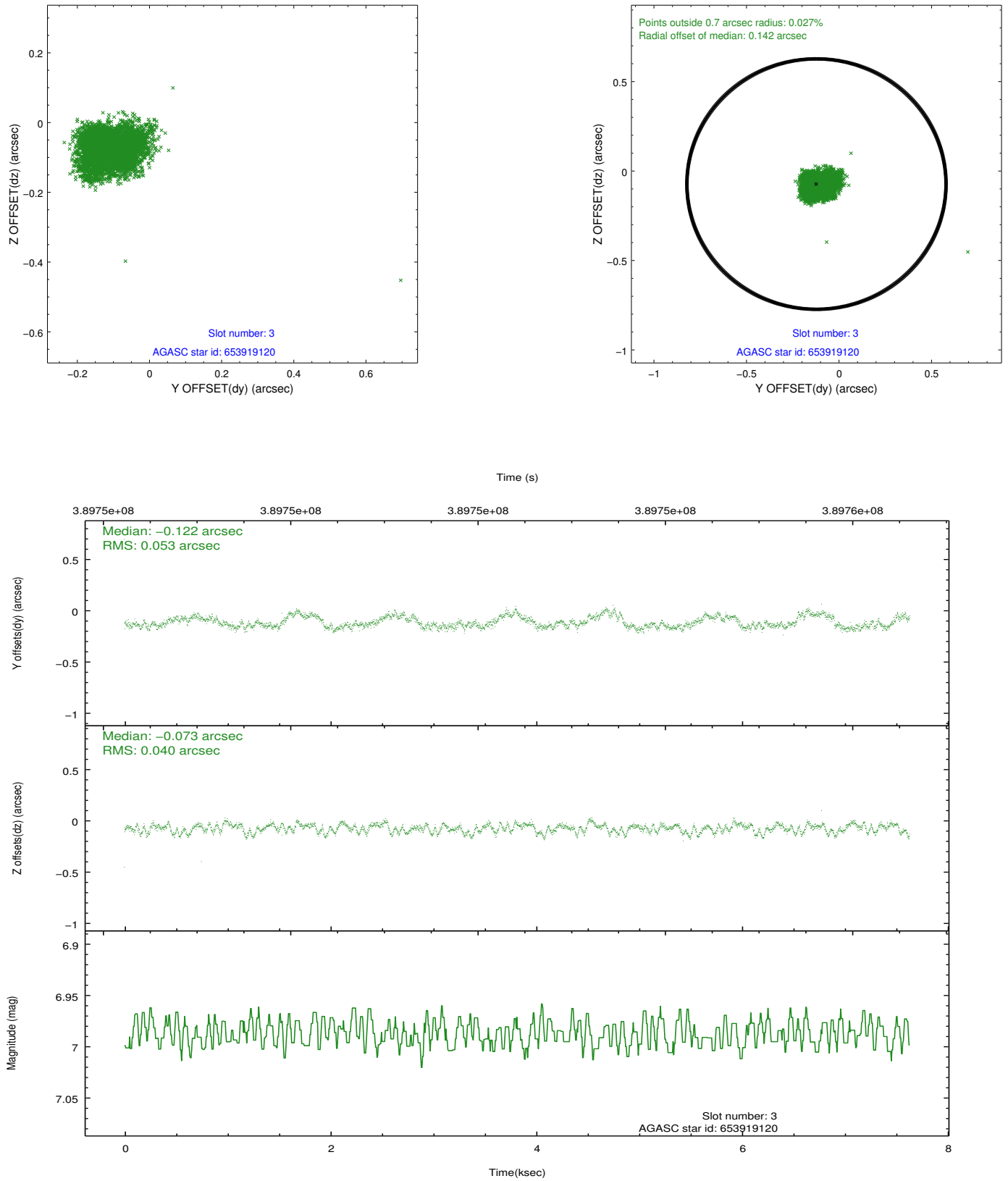


### Slot Statistics

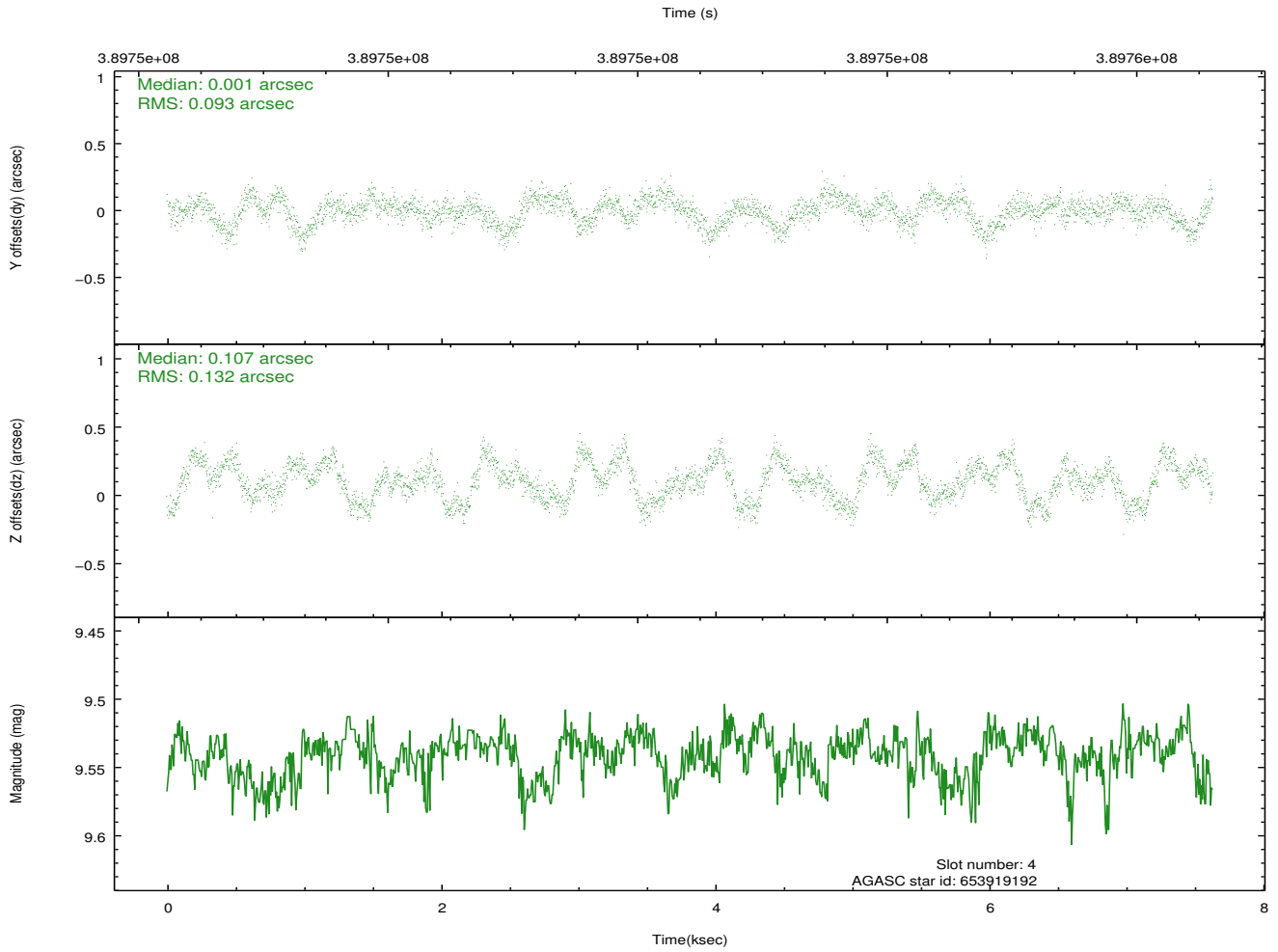
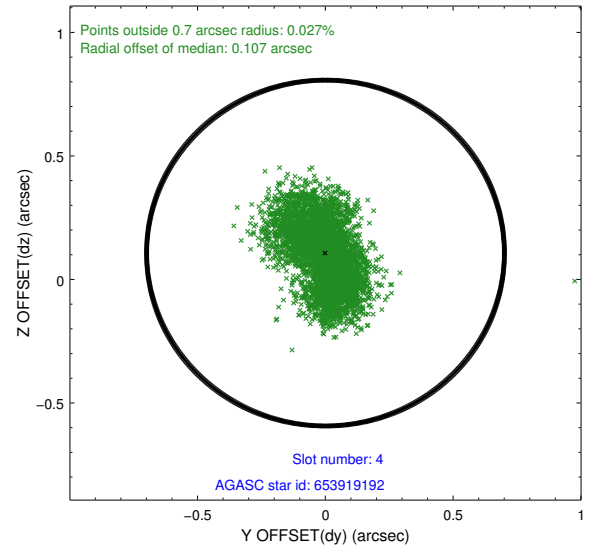
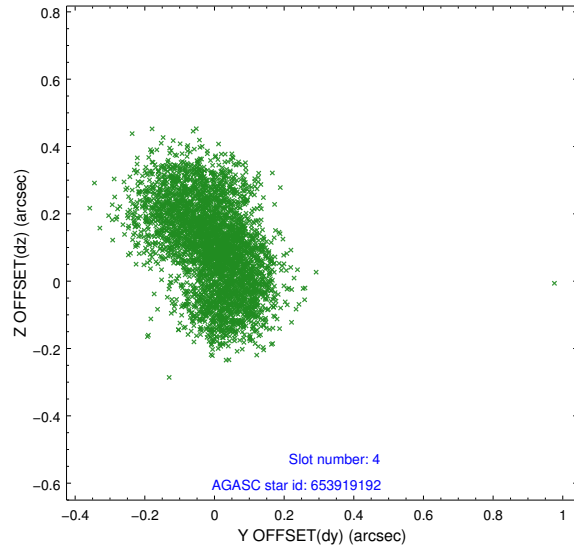
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	6.99	1863	-0.034	-0.089	0.013	0.020	0.000000	0.000000	922.43	-840.77
1	FID	ACIS-I-4	6.92	1863	0.160	0.101	0.011	0.016	0.000000	0.000000	2143.05	1058.87
2	FID	ACIS-I-5	6.98	1863	-0.225	0.058	0.014	0.021	0.000000	0.000000	-1824.83	1057.47
3	GUIDE	653919120	6.99	3725	-0.122	-0.073	0.070	0.109	220.494654	-3.523621	-1634.13	102.72
4	GUIDE	653919192	9.54	3717	0.001	0.107	0.179	0.269	219.732665	-3.659667	1091.87	-448.67
5	GUIDE	653921296	6.16	3725	-0.062	0.101	0.075	0.108	219.620684	-3.611082	1402.44	-759.27
6	GUIDE	654443784	9.57	3713	0.091	0.079	0.120	0.195	220.872991	-3.949714	-2331.97	2030.24
7	GUIDE	654444152	10.18	3719	0.089	-0.214	0.189	0.294	220.478939	-4.050219	-883.69	1844.72

## 2.4 Star Slots

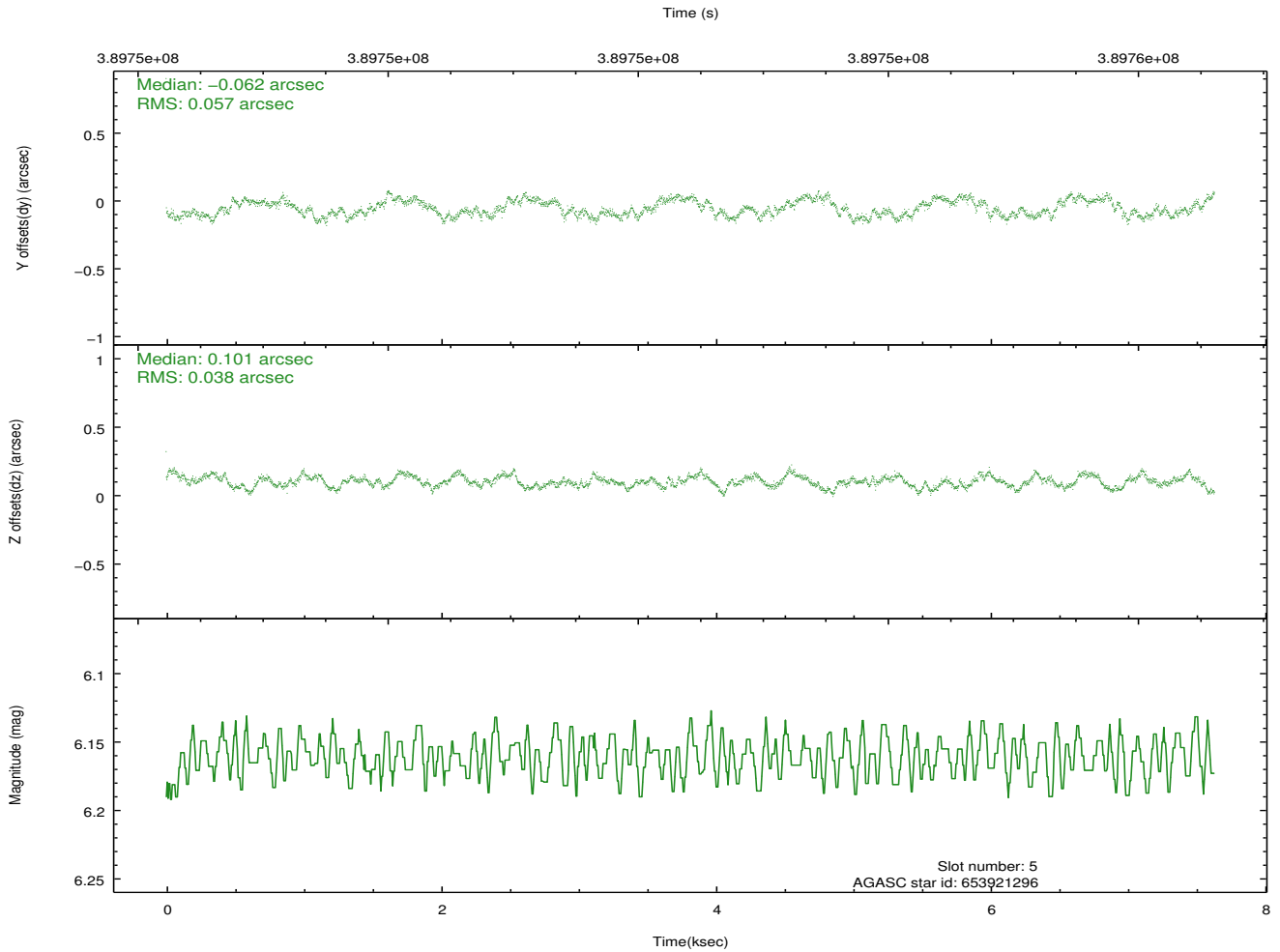
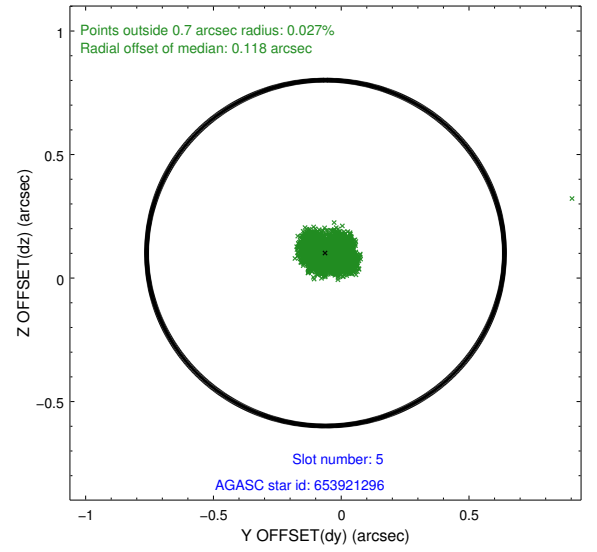
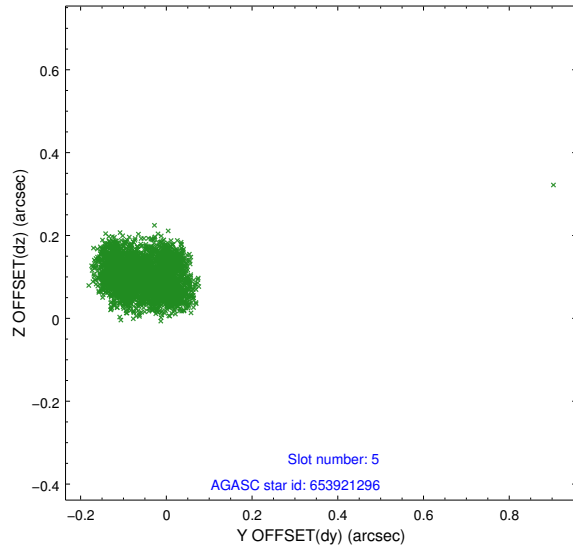
### 2.4.1 Slot 3



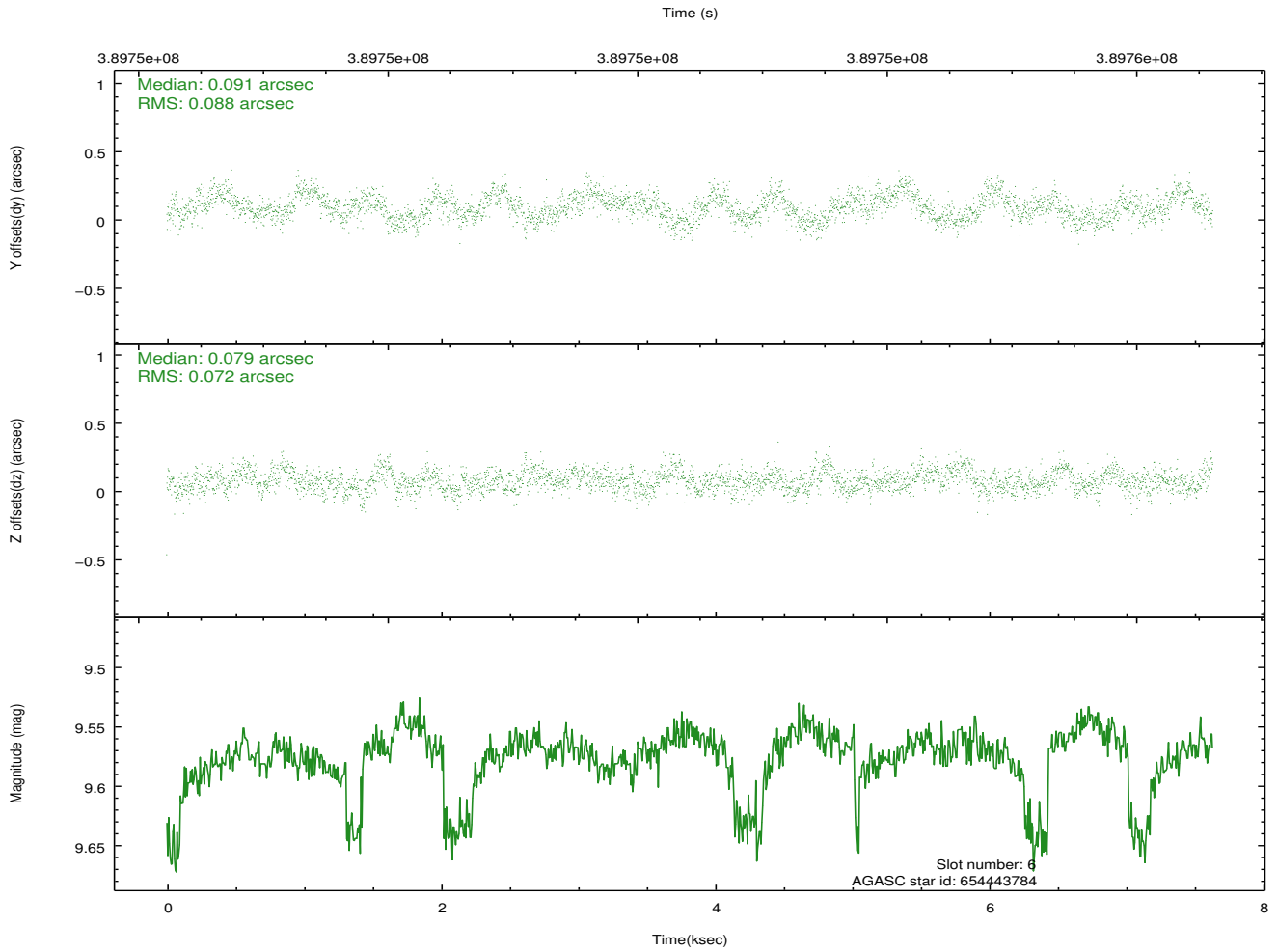
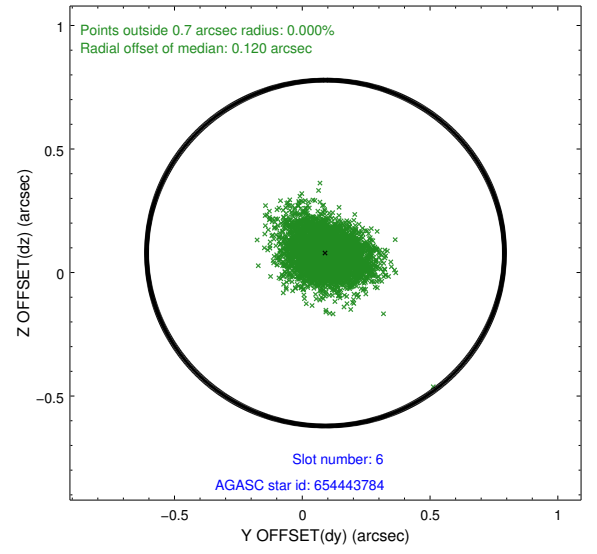
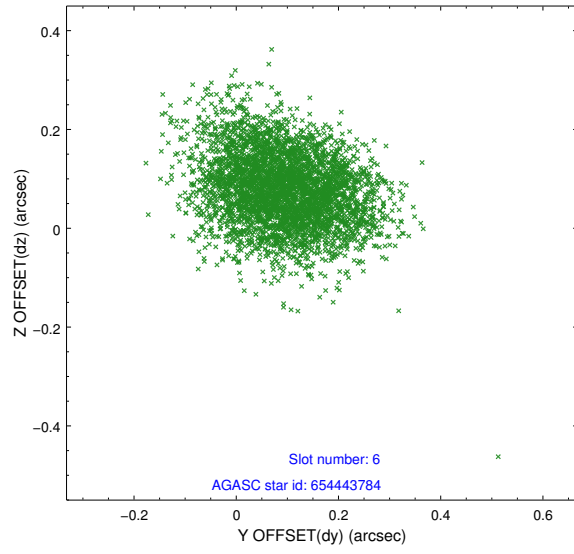
## 2.4.2 Slot 4



### 2.4.3 Slot 5

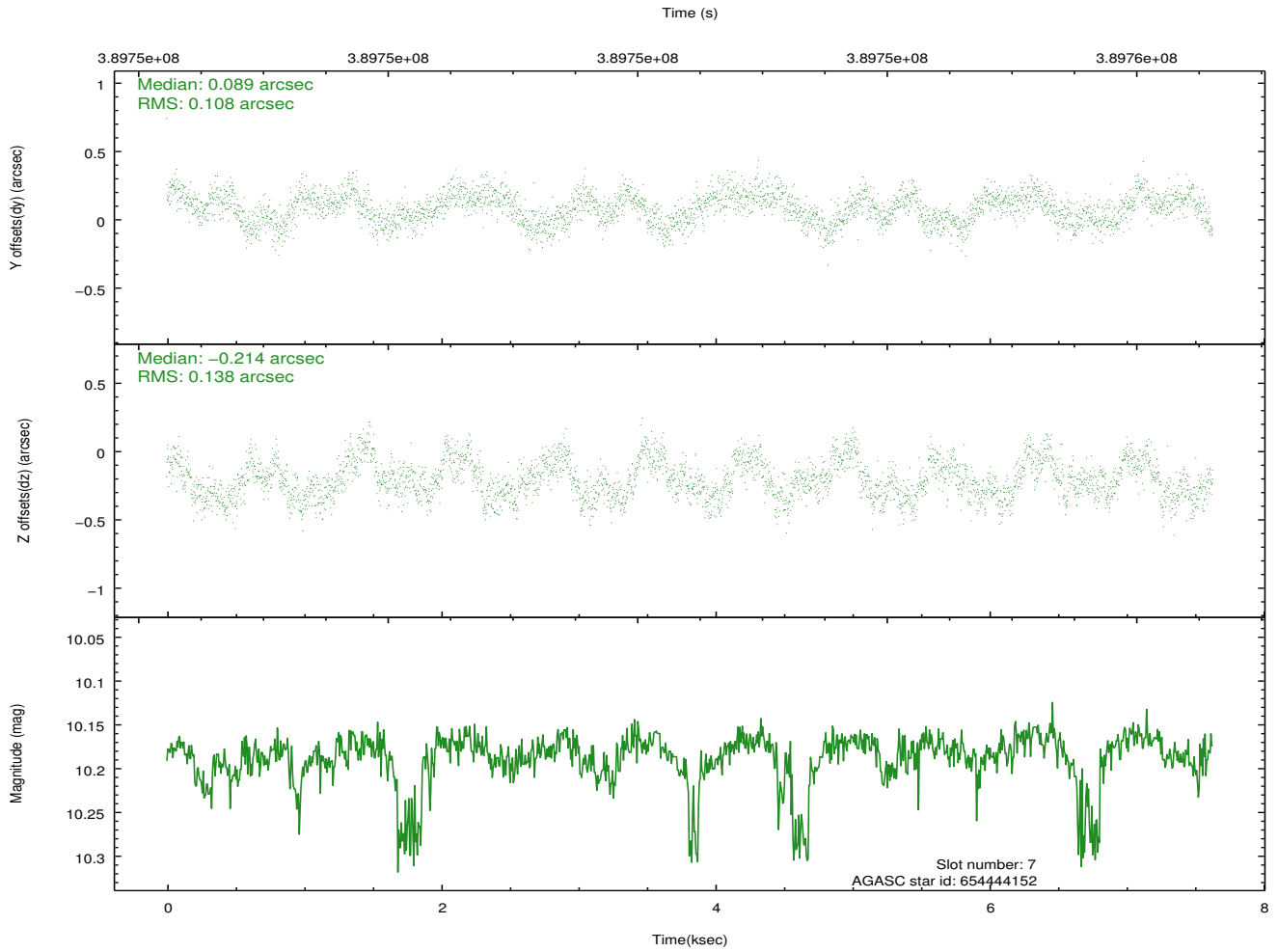
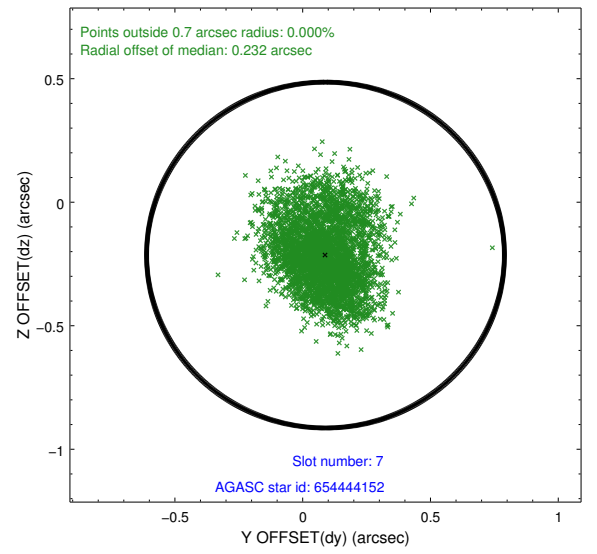
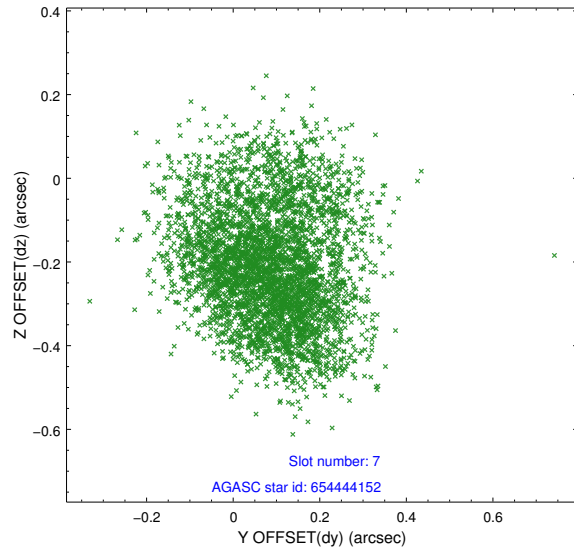


## 2.4.4 Slot 6



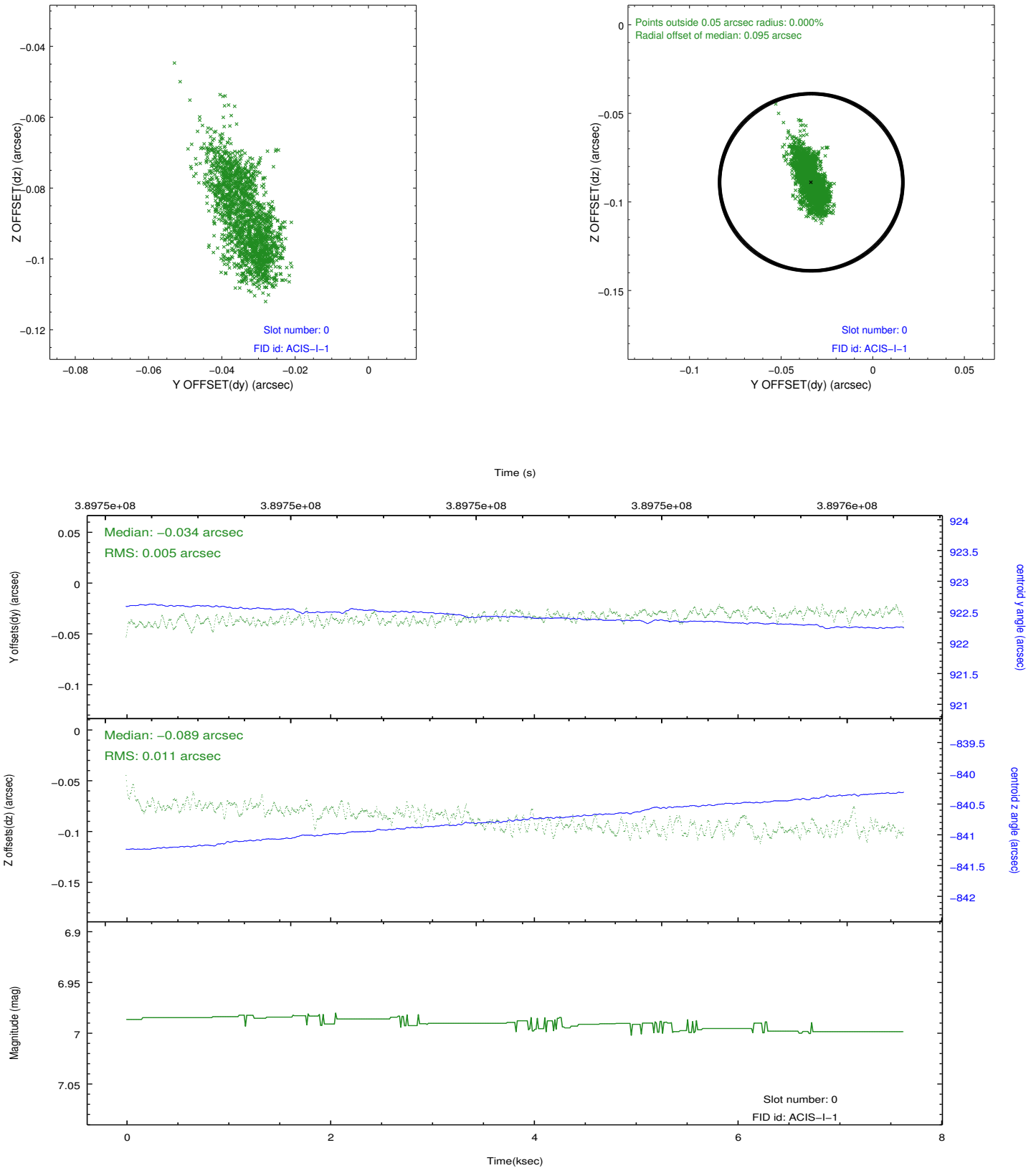


## 2.4.5 Slot 7

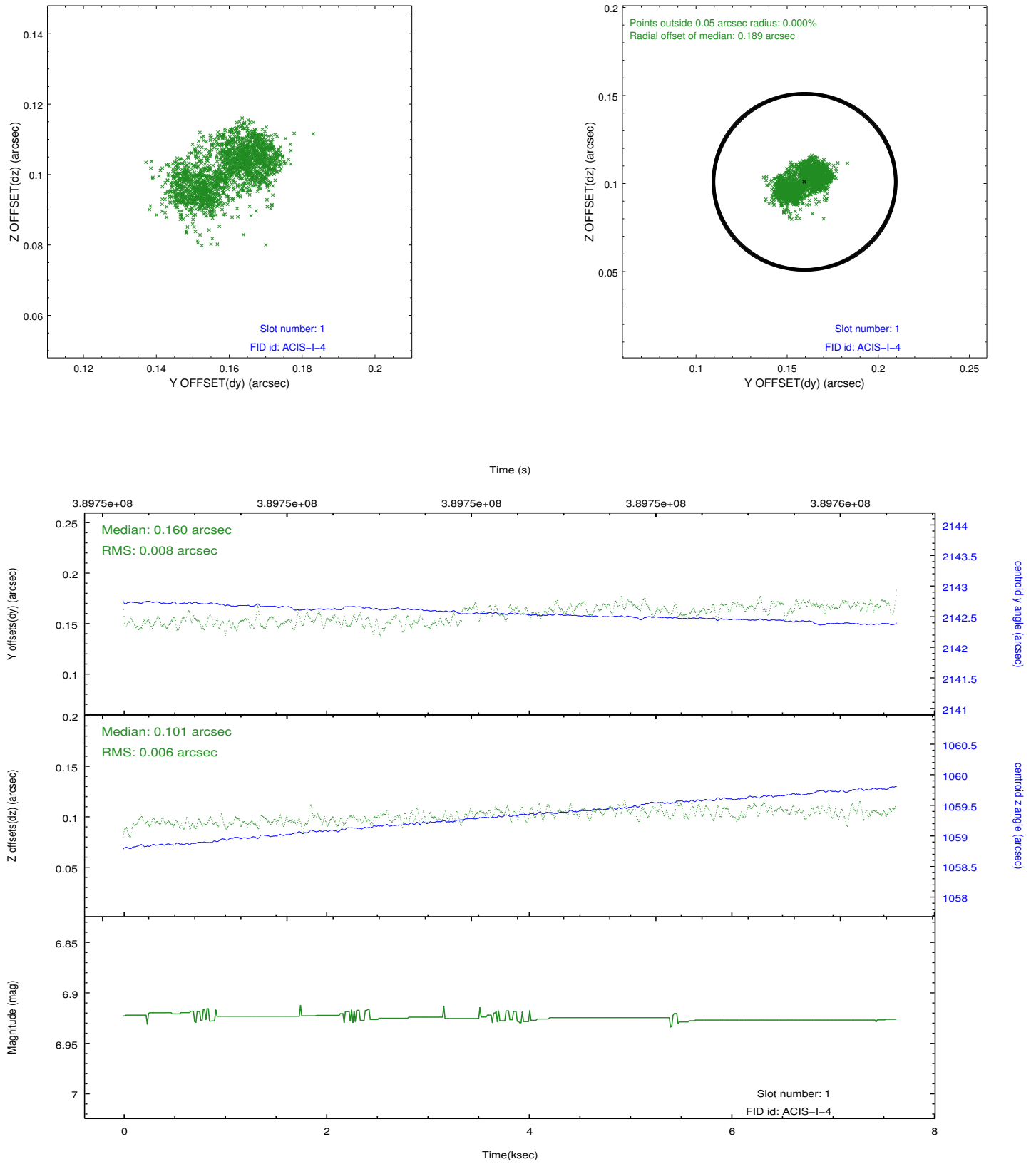


## 2.5 FID Slots

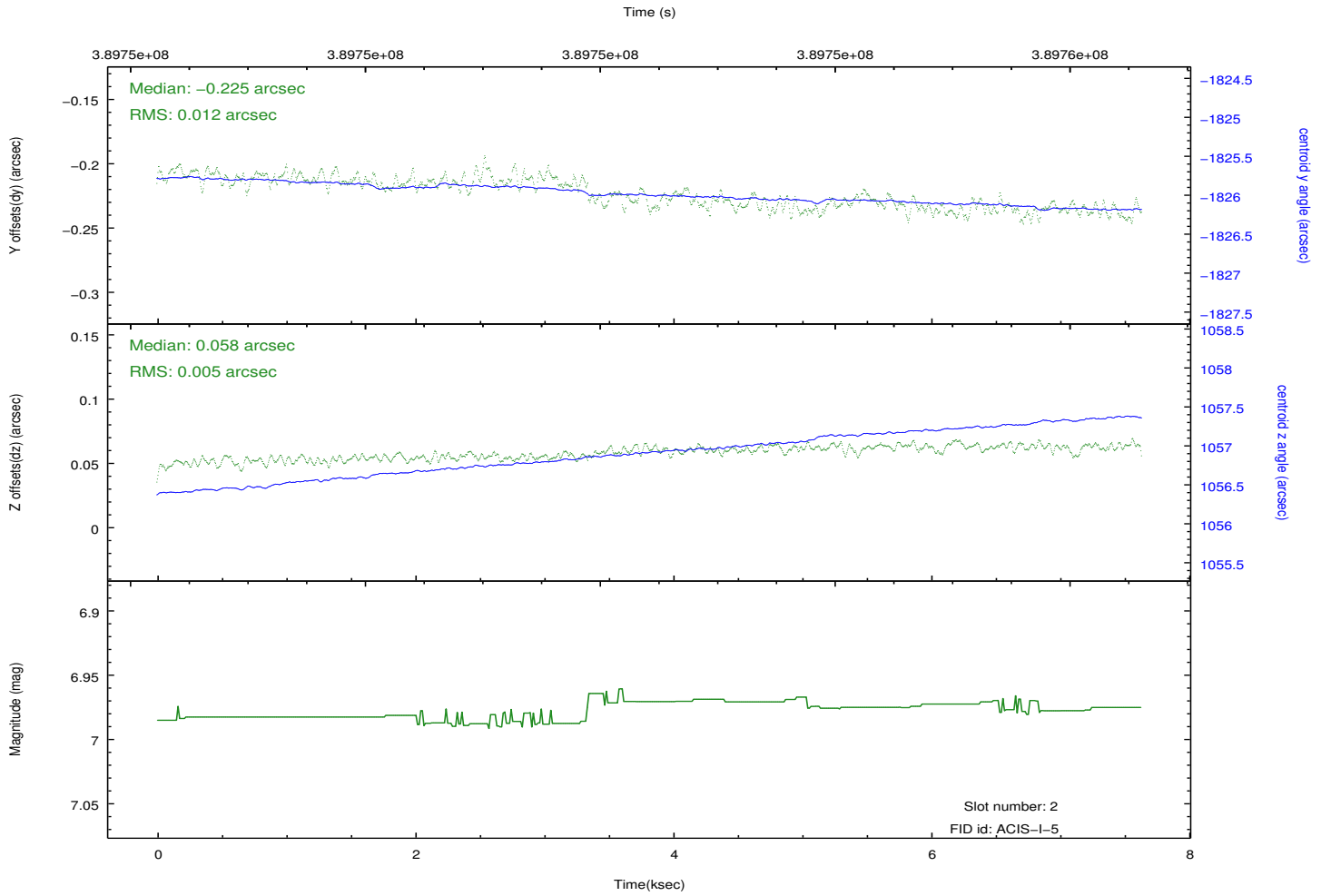
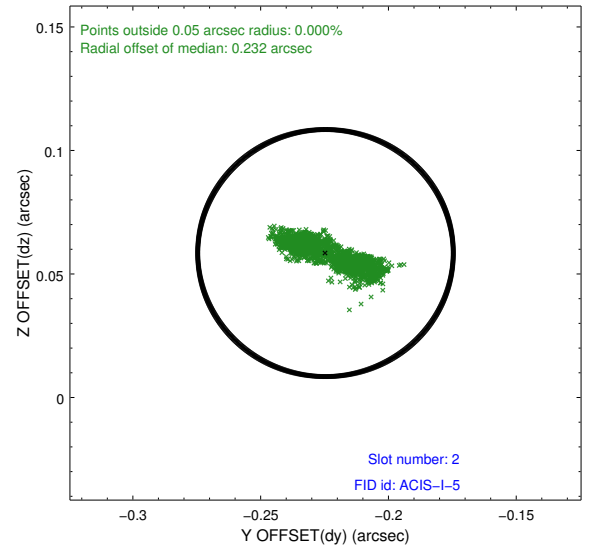
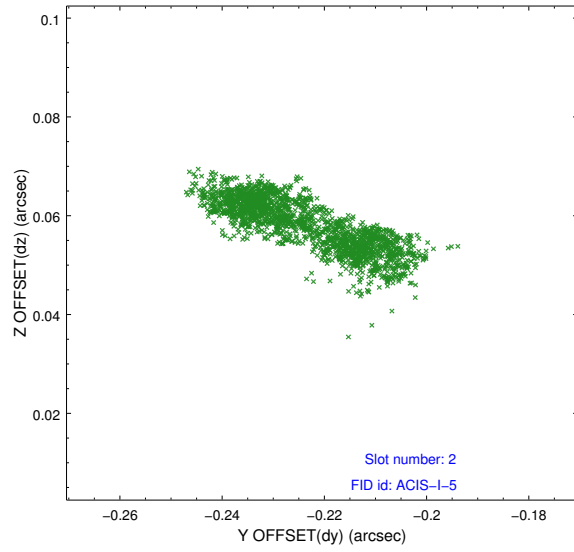
### 2.5.1 Slot 0



## 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)	2012.07.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.6291000586748

### A.2 Comments