

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9598 - L2 Version 2  
Chandra X-Ray Center

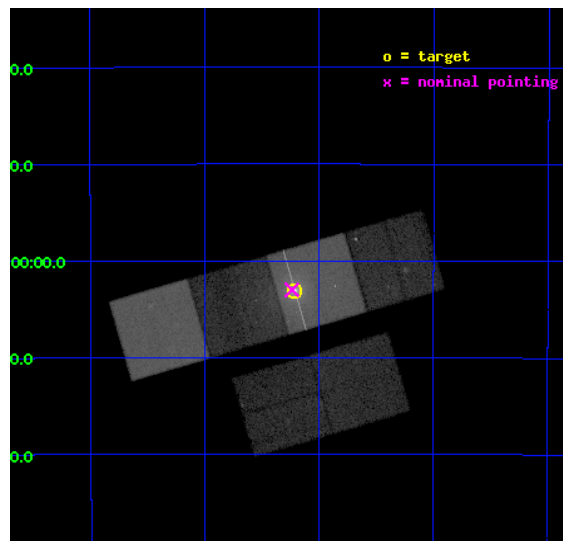
L2 Processing Date : May 17 2012

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# 1 Front

seq_num	300232	Sequence number
obs_id	9598	Observation id
title	A Chandra Legacy Survey of Dynamically Active Globular Clusters	Pr
observer	Prof. David Pooley	Principal investigator
object	NGC 6441	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.55375	Observer's specified target RA [deg]
dec_targ	-37.051389	Observer's specified target Dec [deg]
ra_nom	267.55957140258	Nominal RA [deg]
dec_nom	-37.050106624602	Nominal Dec [deg]
roll_nom	343.76014524827	Nominal Roll [deg]
revision	2	Processing version of data
ontime	18198.399932265	Sum of GTIs [s]
livetime	17967.960834562	Livetime [s]
ontime2	18198.399932265	Sum of GTIs [s]
ontime3	18198.399932265	Sum of GTIs [s]
ontime5	18198.399932265	Sum of GTIs [s]
ontime6	18198.399932265	Sum of GTIs [s]
ontime7	18198.399932265	Sum of GTIs [s]
ontime8	18198.399932265	Sum of GTIs [s]
l2events	406408	Number of level 2 events

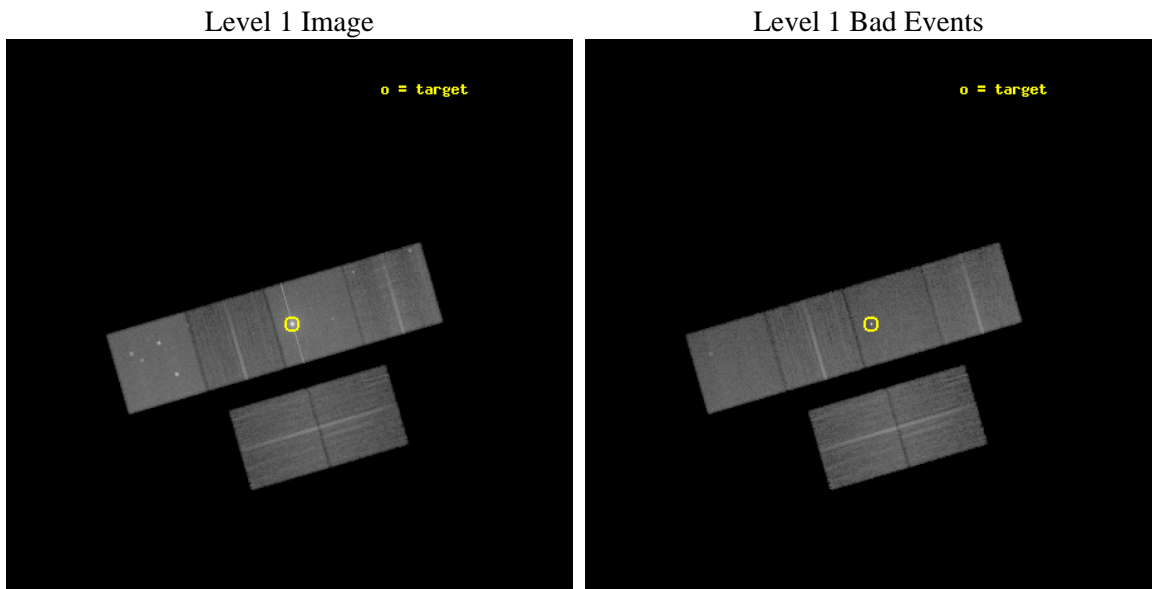




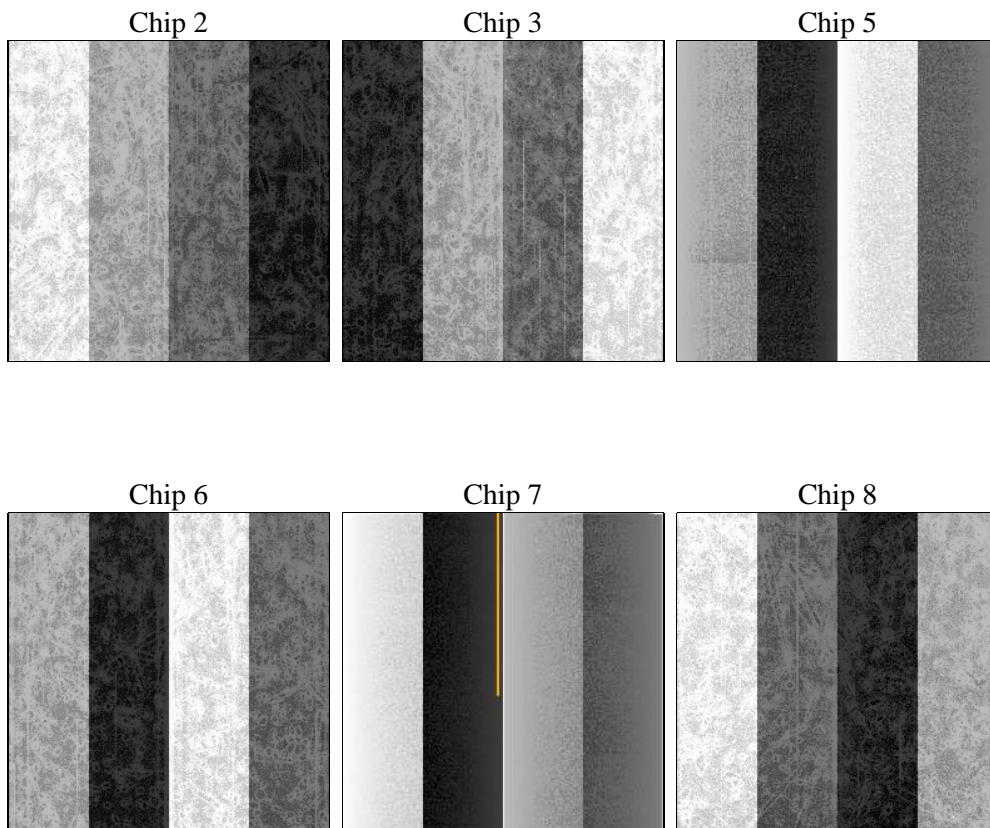
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18034.503000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	18198.399932265	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	18198.399932265	Sum of GTIs [s]
date	2012-05-17T02:36:35	Date and time of file creation	ontime3	18198.399932265	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	18198.399932265	Sum of GTIs [s]
			ontime6	18198.399932265	Sum of GTIs [s]
			ontime7	18198.399932265	Sum of GTIs [s]
			ontime8	18198.399932265	Sum of GTIs [s]
			l1events	1404369	Number of level 1 events

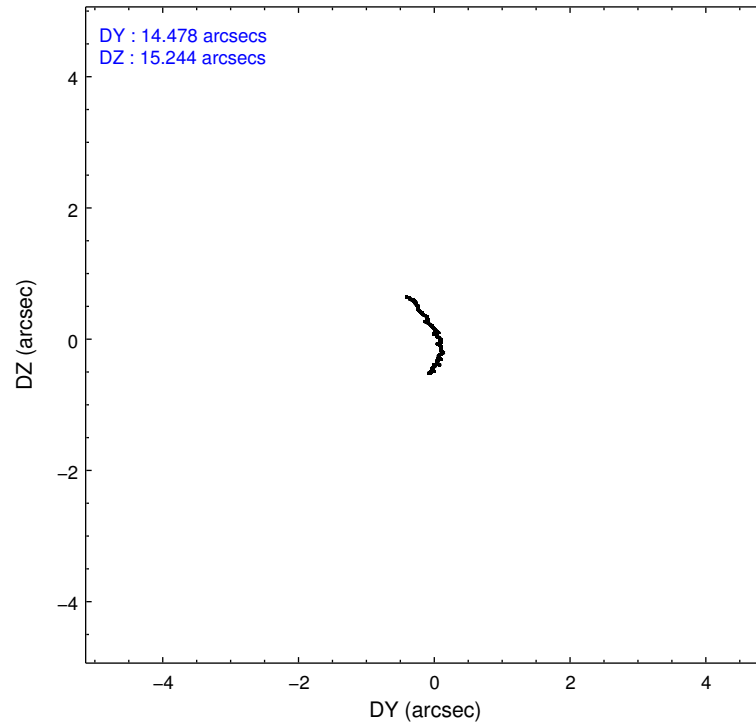
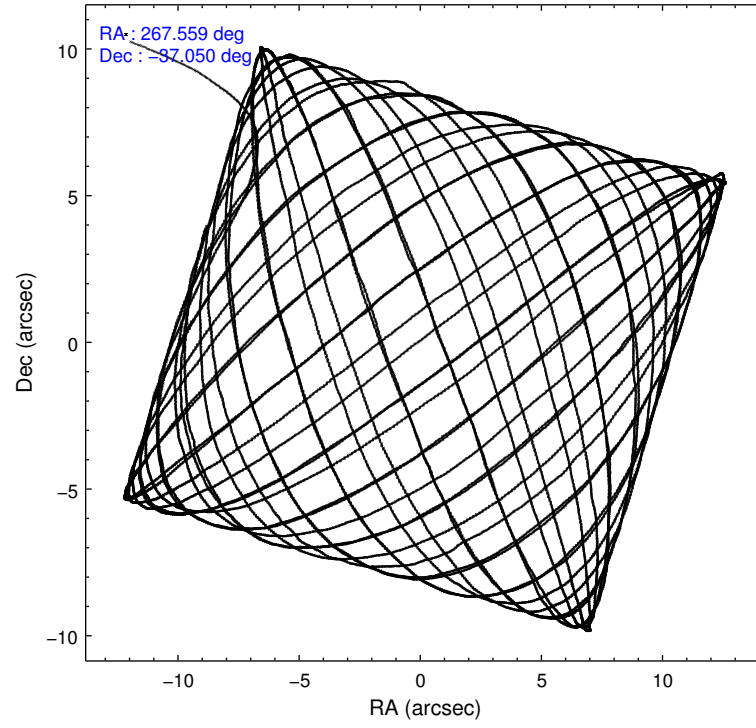
### 2.1.4 Events

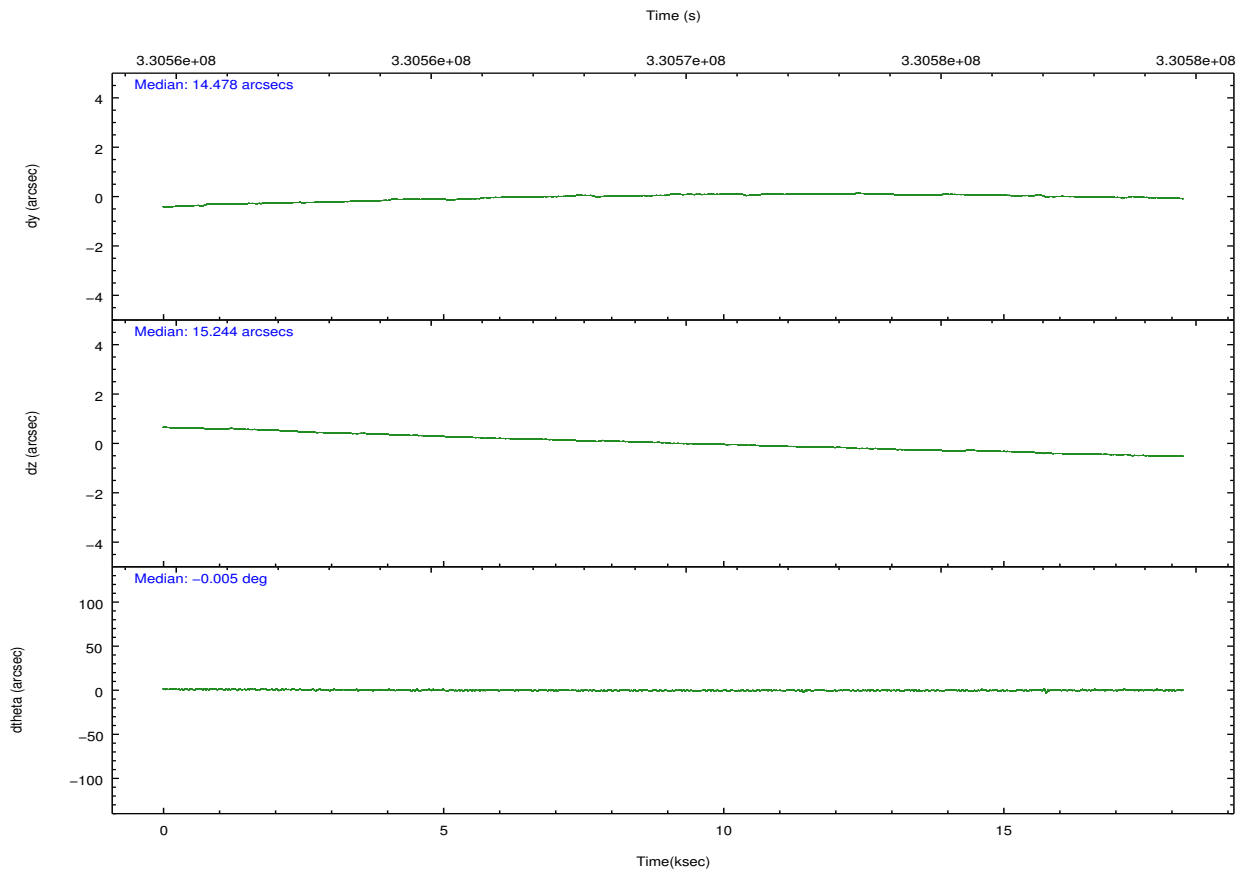
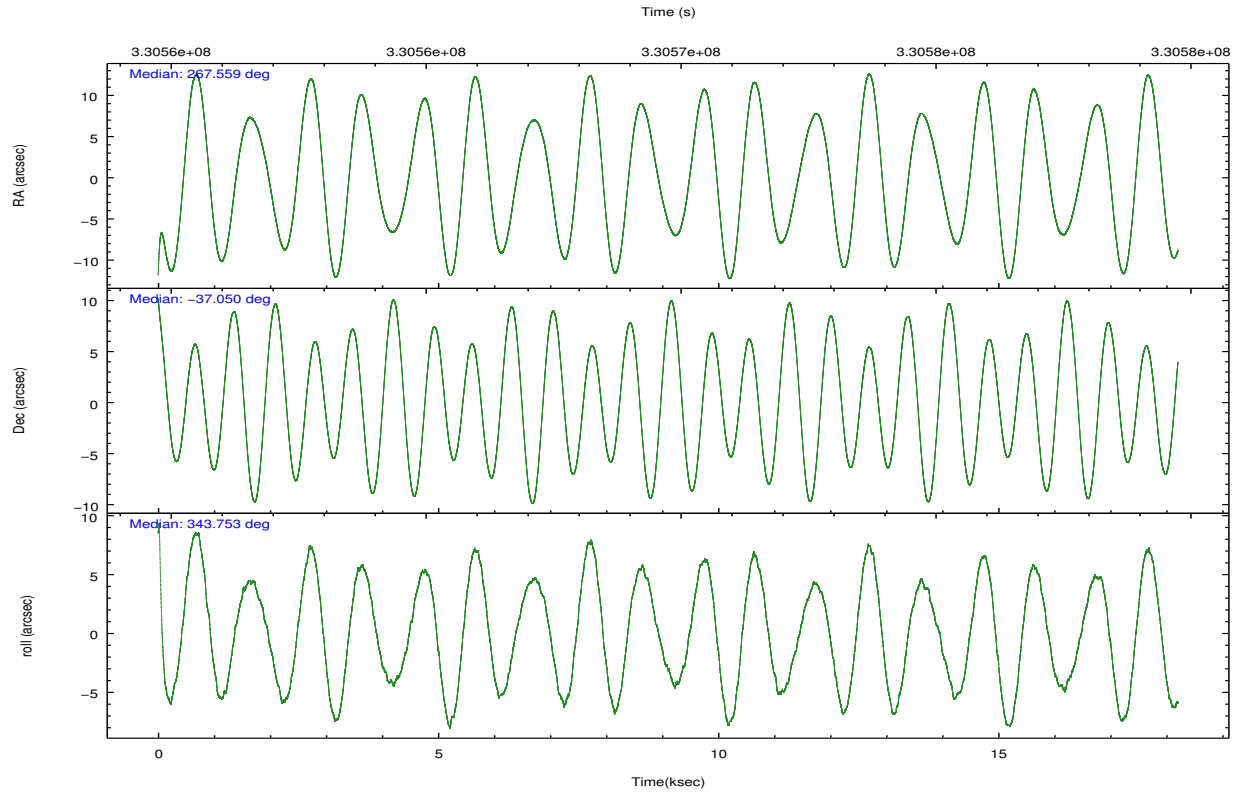
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	184190	171834	283804	188114	348527	227900	grade 0 events	11025	10996	16921	16024	29729	20231
rejected events	160938	148710	150391	157372	152786	172245		5%	6%	5%	8%	8%	8%
rejected %	87%	86%	52%	83%	43%	75%	grade 1 events	140	116	401	141	950	207
								0%	0%	0%	0%	0%	0%
							grade 2 events	4826	4434	40548	5848	45023	11897
								2%	2%	14%	3%	12%	5%
							grade 3 events	2013	1993	4852	2264	19252	5502
								1%	1%	1%	1%	5%	2%
							grade 4 events	1972	2045	4493	2278	19058	5140
								1%	1%	1%	1%	5%	2%
							grade 5 events	7167	8191	19531	8462	25106	11141
								3%	4%	6%	4%	7%	4%
							grade 6 events	3622	3849	67706	4579	84201	13278
								1%	2%	23%	2%	24%	5%
							grade 7 events	153425	140210	129352	148518	125208	160504
								83%	81%	45%	78%	35%	70%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	267.526444	267.559571402581	CCD I2 on	O1	Y
[deg] Pointing Dec	-37.056958	-37.05010662460231	CCD I3 on	O2	Y
[deg] Pointing Roll	343.583543	343.7601452482728	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	330560803.184000	330559663.69645	CCD S5 on	N	N
Observation start date	2008-06-22T22:25:38	2008-06-22T22:07:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	330578837.184000	330579063.8724	On-chip summing requested	N	N
Observation end date	2008-06-23T03:26:12	2008-06-23T03:31:03	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



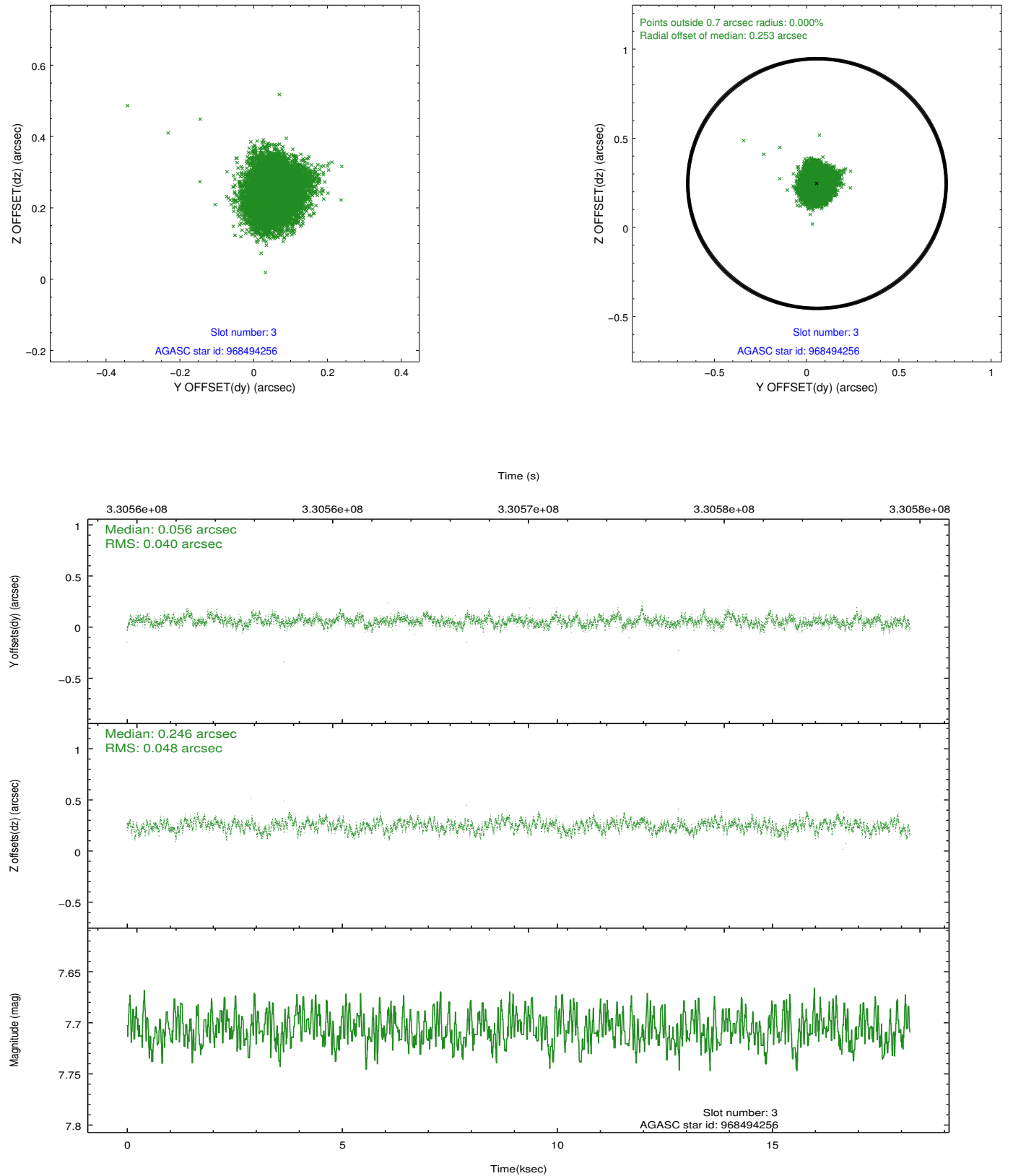


### Slot Statistics

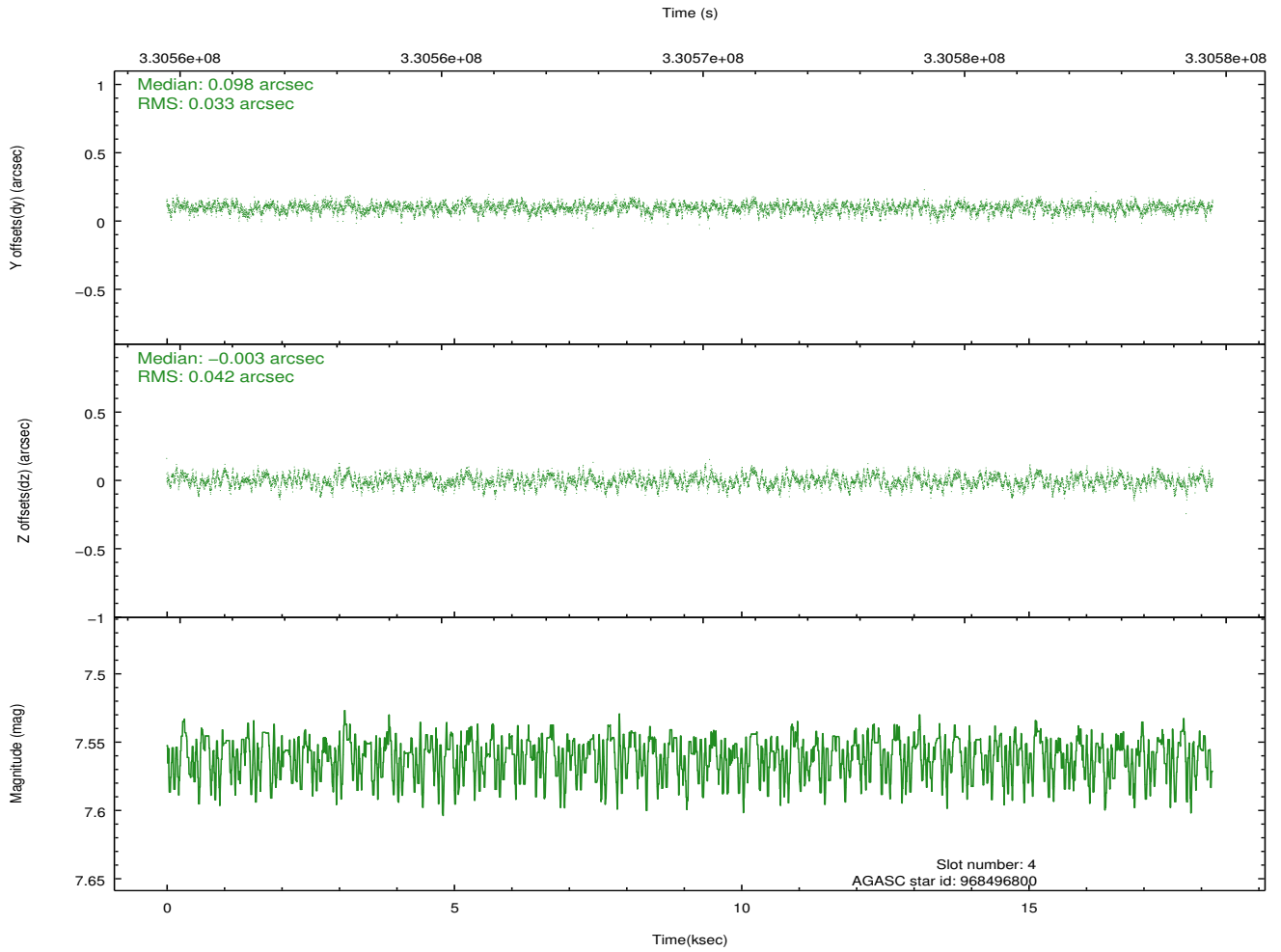
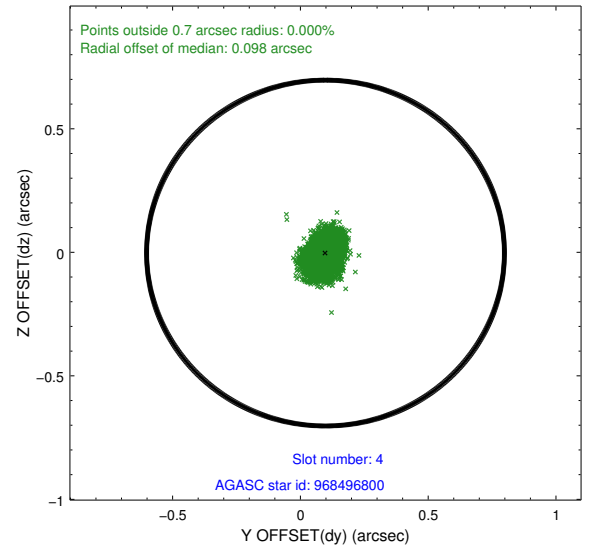
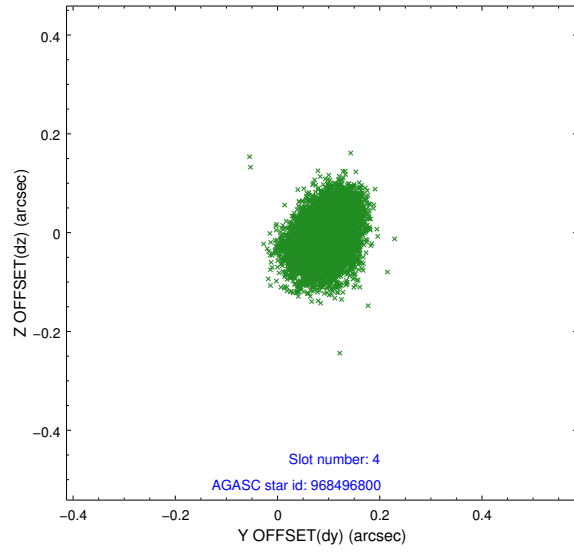
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-4	6.96	4440	0.121	-0.002	0.007	0.012	0.000000	0.000000	2146.08	172.08
1	FID	ACIS-S-5	6.99	4441	-0.165	-0.007	0.006	0.011	0.000000	0.000000	-1820.12	165.52
2	FID	ACIS-S-6	7.09	4440	0.015	0.024	0.009	0.015	0.000000	0.000000	393.98	809.32
3	GUIDE	968494256	7.71	8880	0.056	0.246	0.068	0.107	266.804762	-36.985927	-2060.31	-348.72
4	GUIDE	968496800	7.56	8878	0.098	-0.003	0.056	0.093	267.208106	-37.412075	-511.02	-1484.99
5	GUIDE	968630688	7.04	8881	-0.152	-0.100	0.046	0.076	268.313872	-37.080057	2195.74	550.44
6	GUIDE	968641112	7.16	8880	-0.100	-0.222	0.065	0.109	267.924934	-36.467732	508.06	2358.46
7	GUIDE	1033645360	8.11	8815	0.098	0.074	0.070	0.113	267.815704	-37.809705	1556.28	-2367.42

## 2.4 Star Slots

### 2.4.1 Slot 3

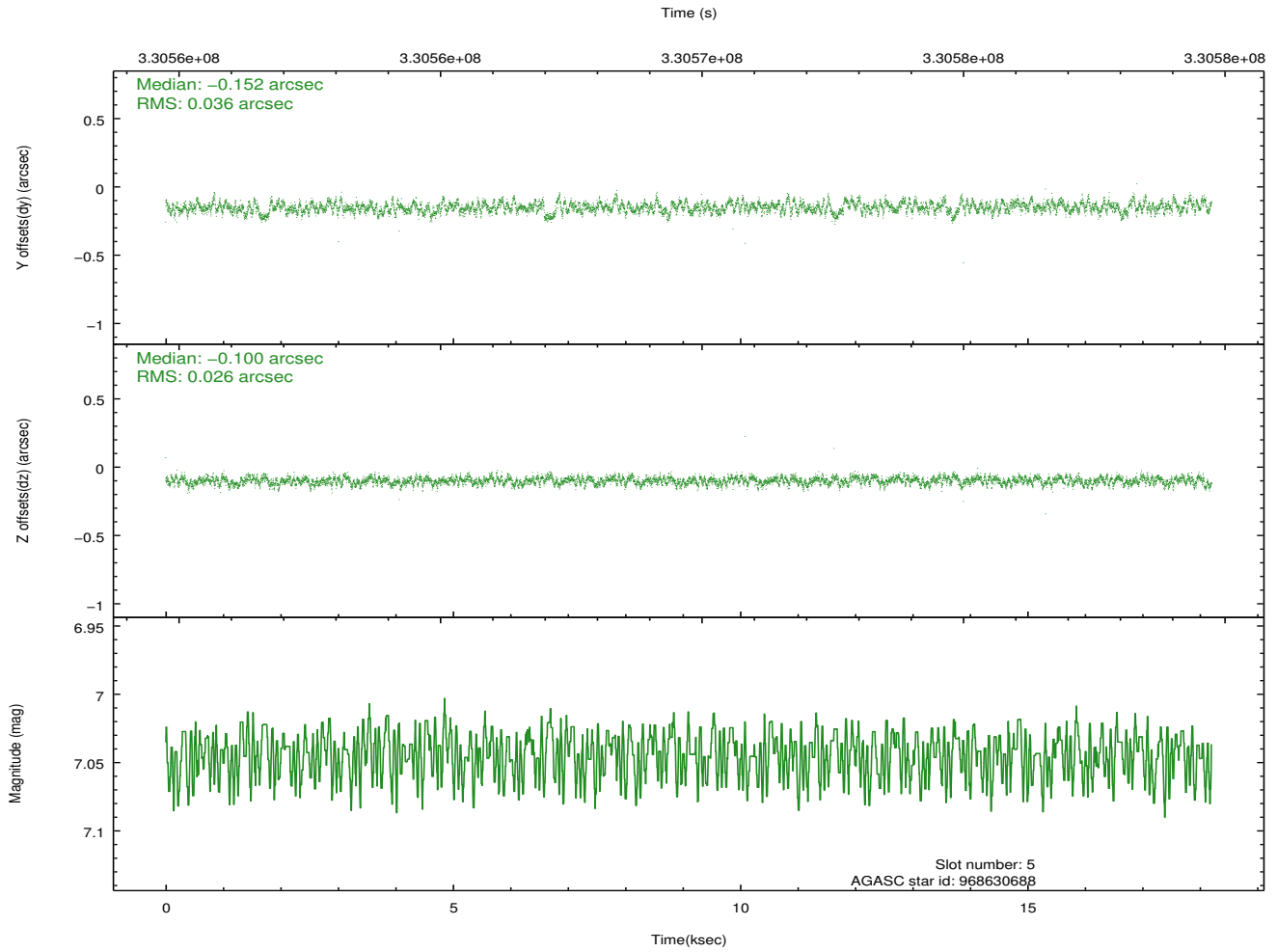
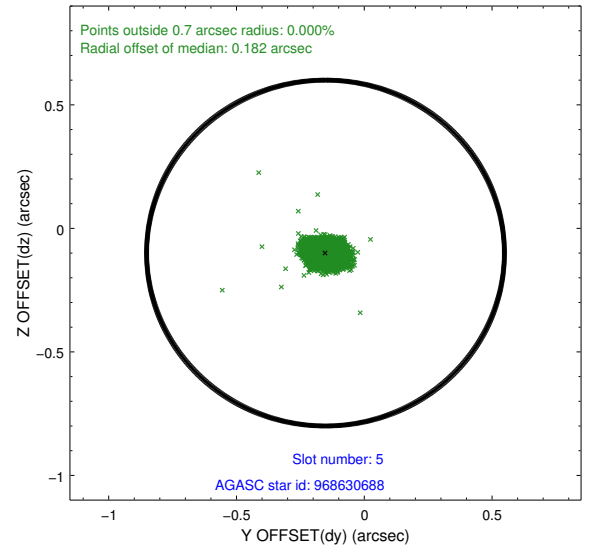
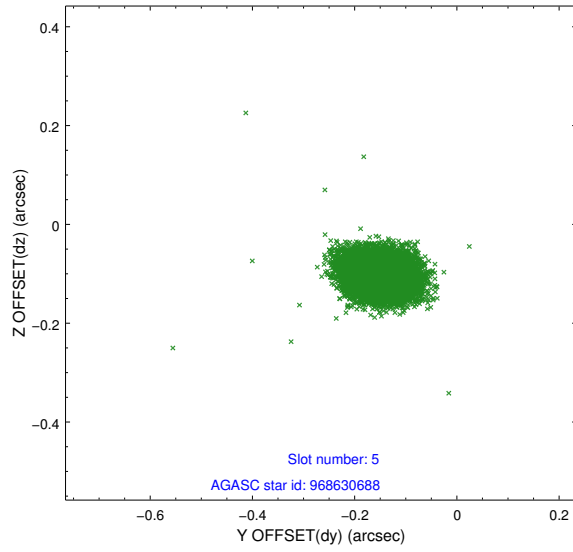


## 2.4.2 Slot 4

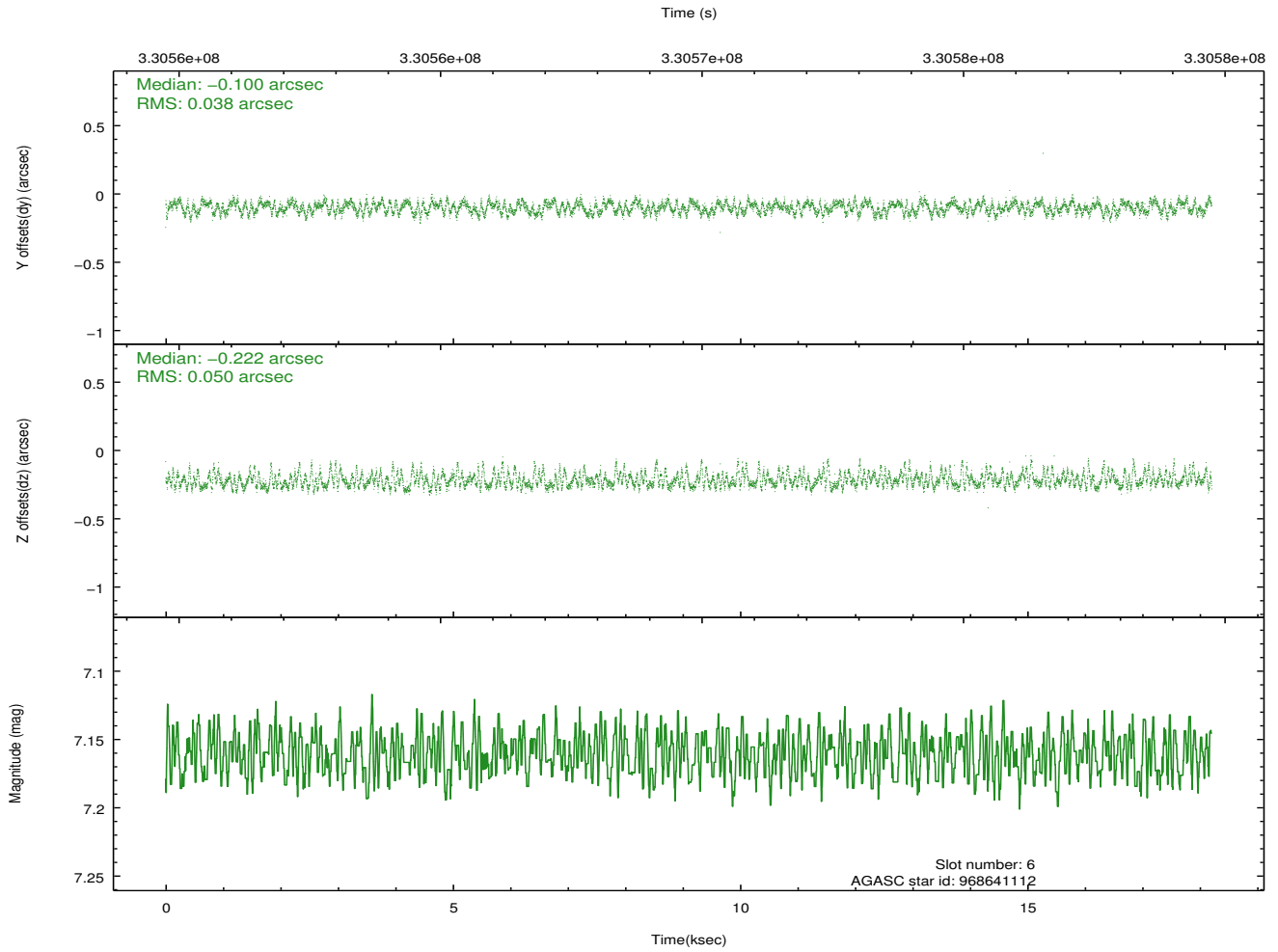
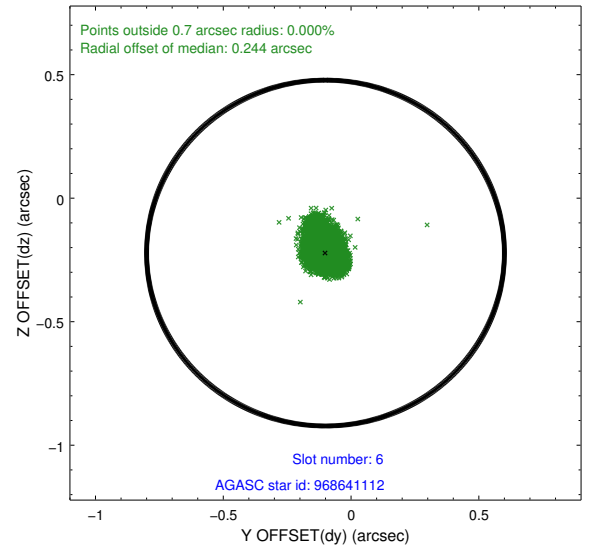
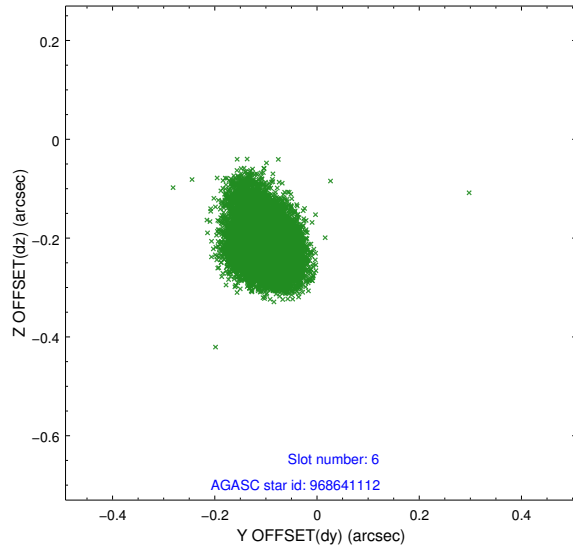




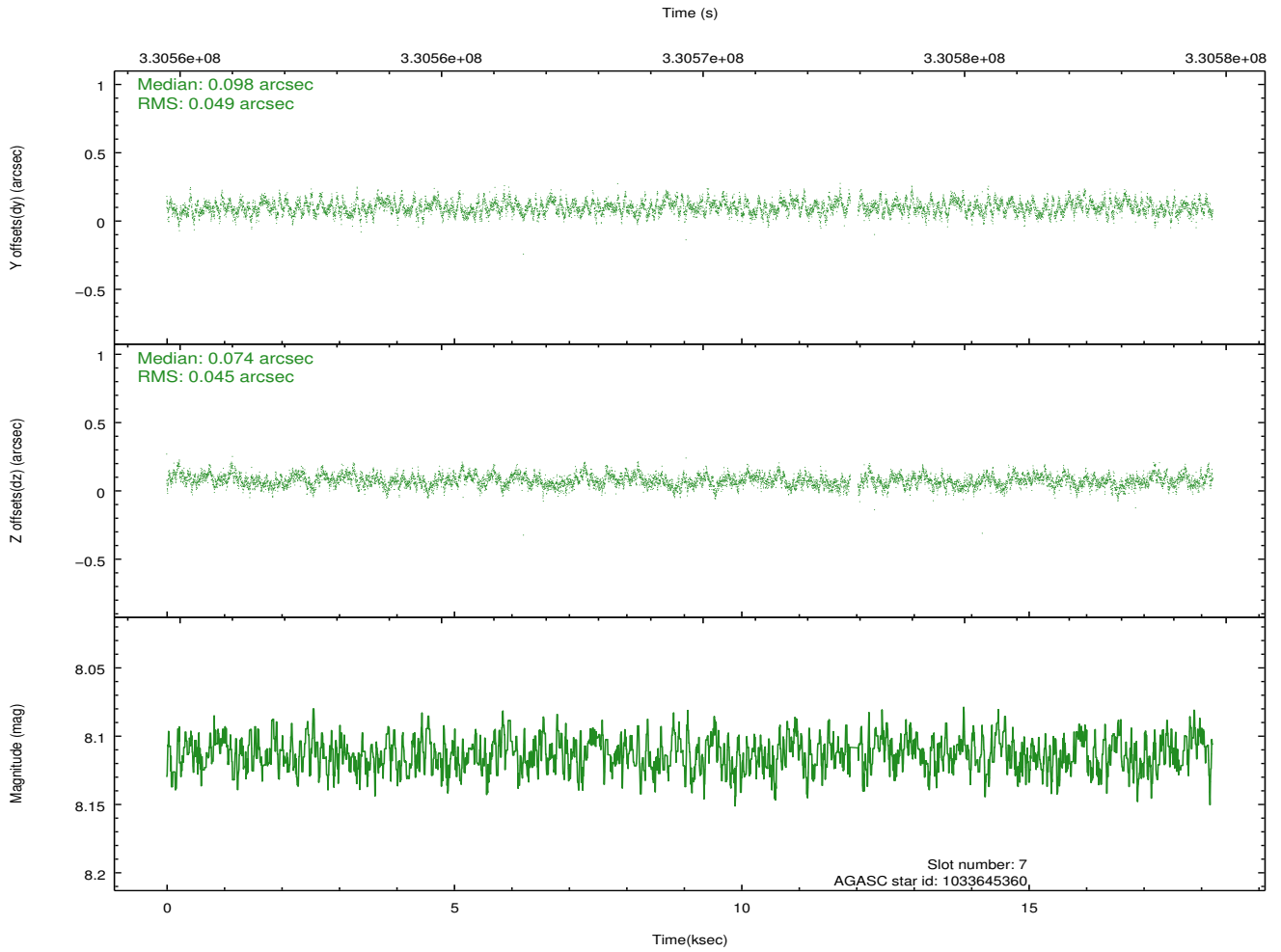
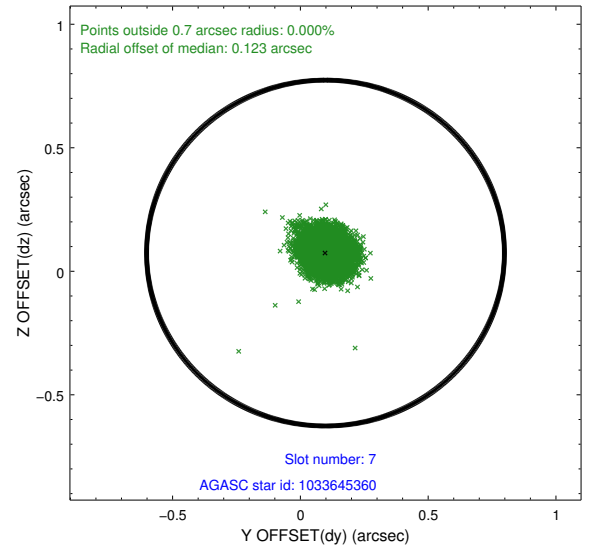
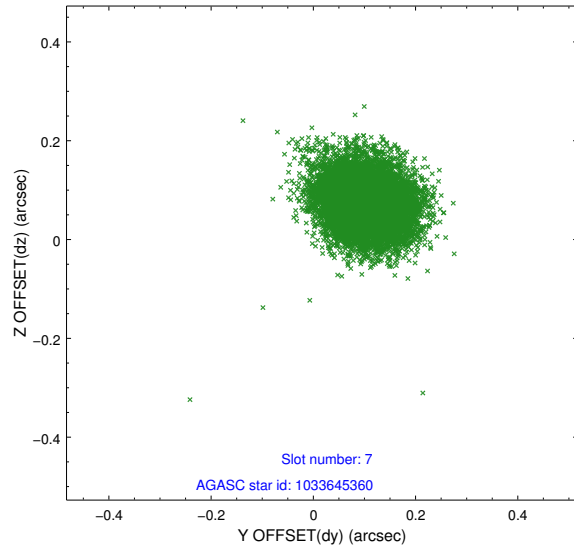
### 2.4.3 Slot 5



## 2.4.4 Slot 6

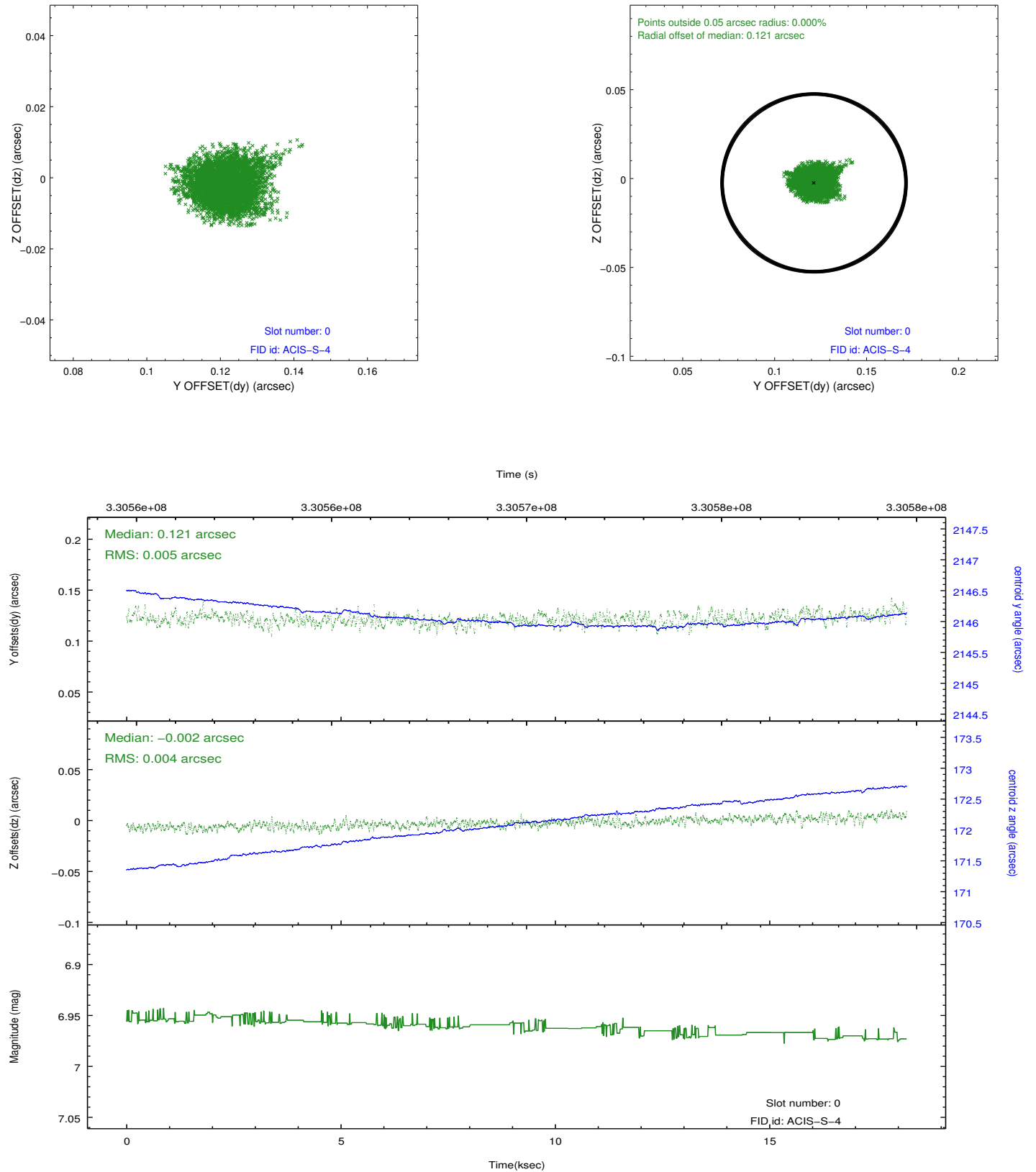


## 2.4.5 Slot 7

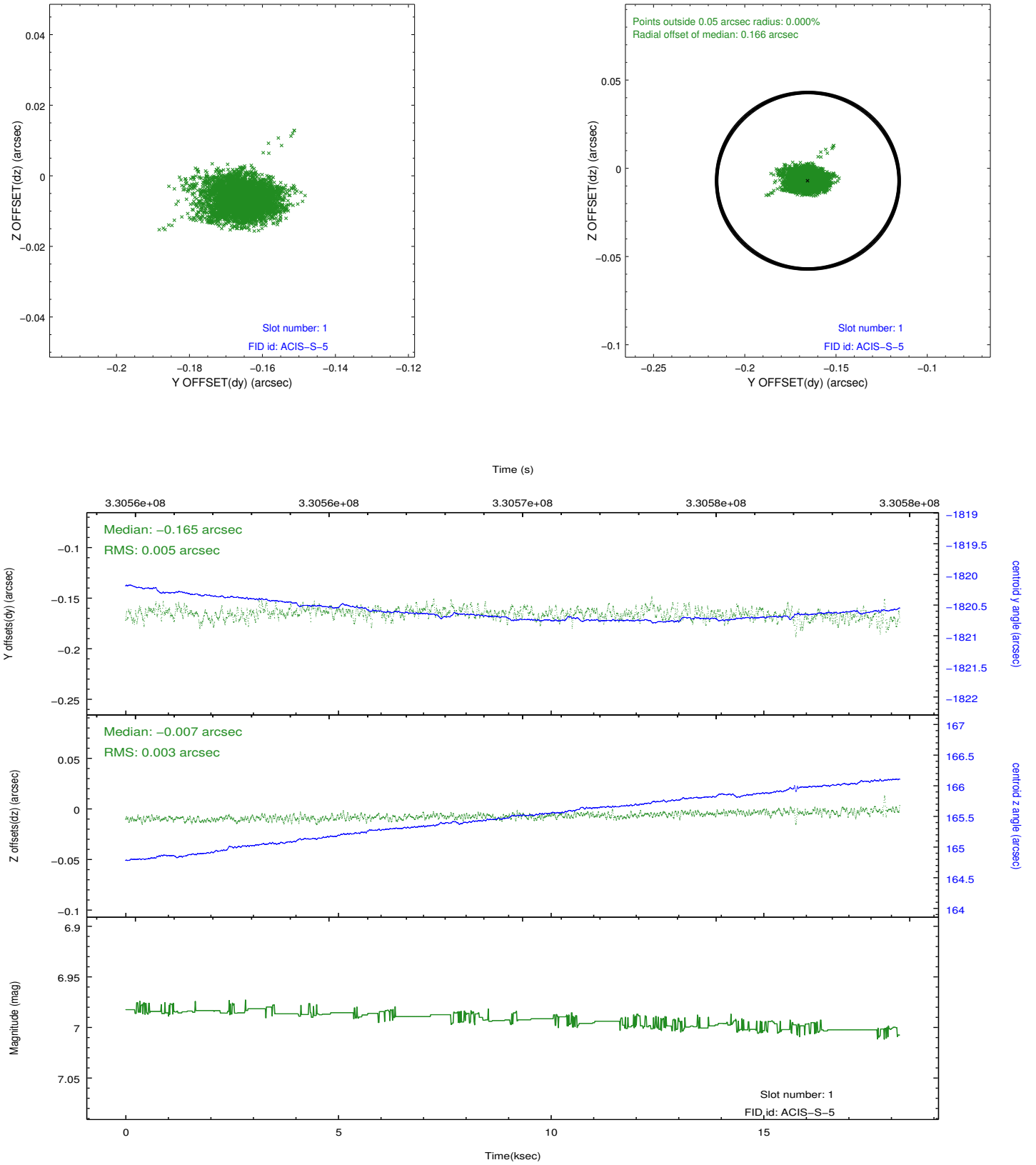


## 2.5 FID Slots

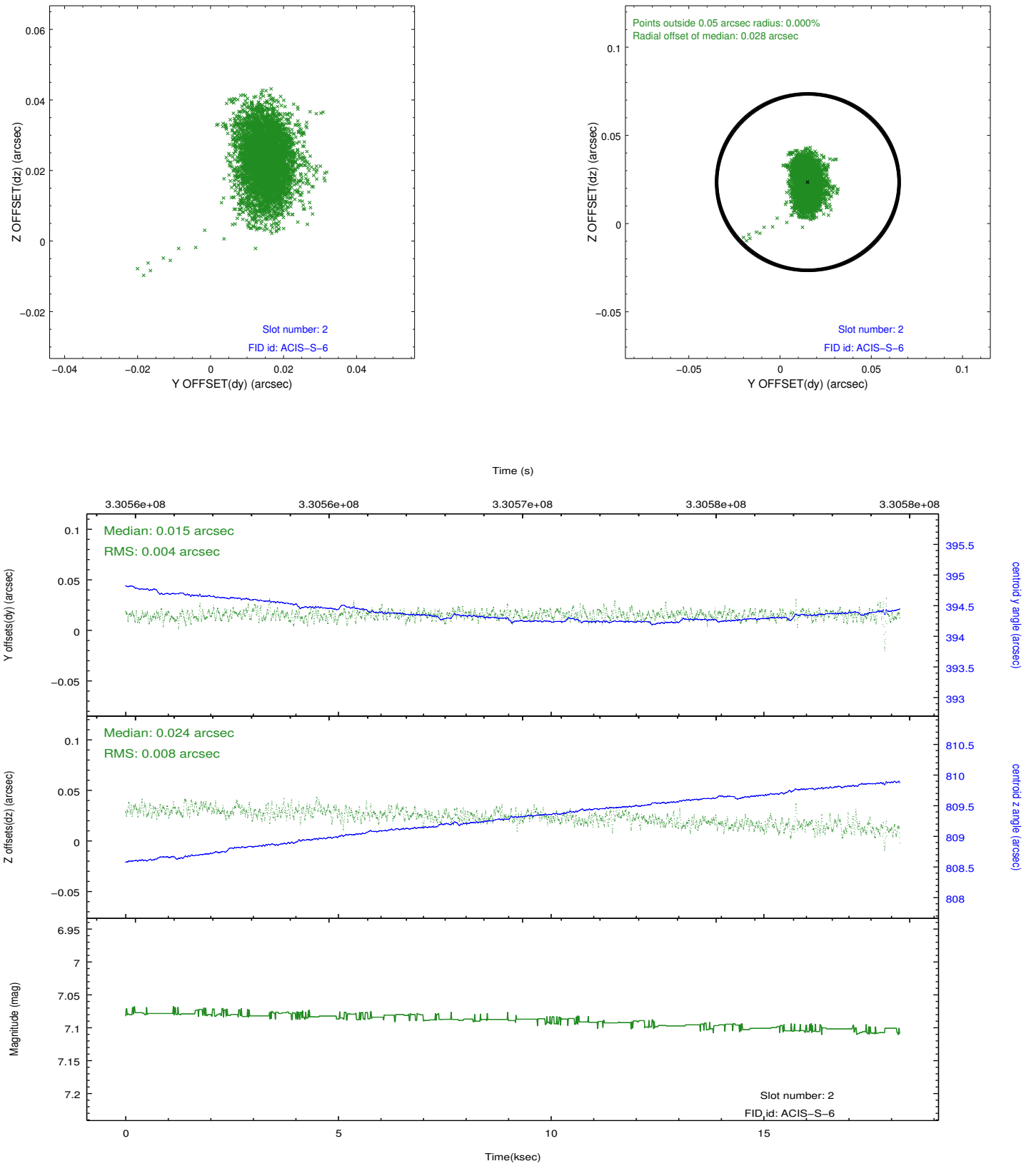
### 2.5.1 Slot 0



## 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)	2012.05.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.1983999

### A.2 Comments