

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8146 - L2 Version 2  
Chandra X-Ray Center

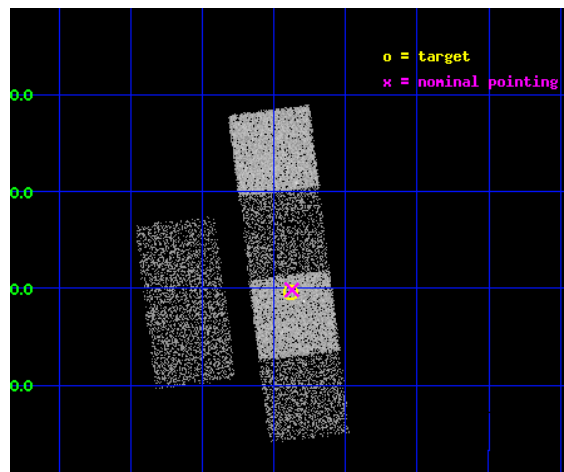
L2 Processing Date : May 10 2012

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# 1 Front

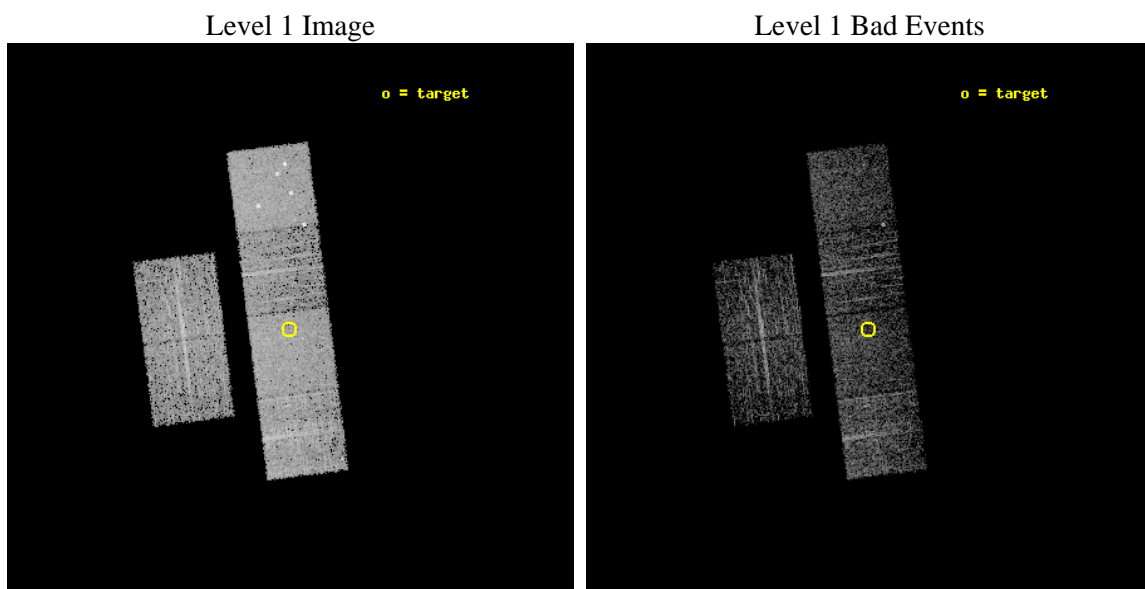
seq_num	900687	Sequence number
obs_id	8146	Observation id
title	ChICAGO GTO: Chandra Identification of Compact ASCA Galactic Objects	&#160
observer	Dr. Stephen Murray	Principal investigator
object	AX J184652-0240	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	281.720833	Observer's specified target RA [deg]
dec_targ	-2.674	Observer's specified target Dec [deg]
ra_nom	281.7188180057	Nominal RA [deg]
dec_nom	-2.6693165683691	Nominal Dec [deg]
roll_nom	82.816271316033	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1939.1999928355	Sum of GTIs [s]
livetime	1914.6446748802	Livetime [s]
ontime2	1939.1999928355	Sum of GTIs [s]
ontime3	1939.1999928355	Sum of GTIs [s]
ontime5	1939.1999928355	Sum of GTIs [s]
ontime6	1939.1999928355	Sum of GTIs [s]
ontime7	1939.1999928355	Sum of GTIs [s]
ontime8	1935.9589924216	Sum of GTIs [s]
l2events	30824	Number of level 2 events



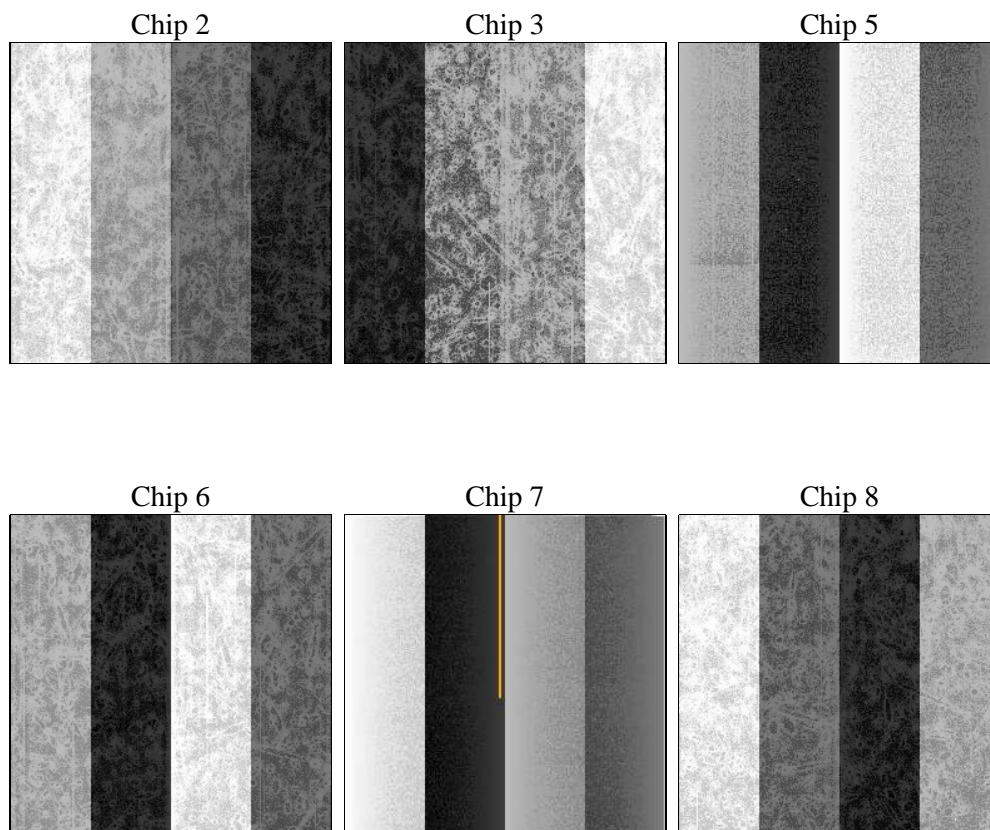
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	1939.1999928355	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	1939.1999928355	Sum of GTIs [s]
date	2012-05-10T21:29:29	Date and time of file creation	ontime3	1939.1999928355	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	1939.1999928355	Sum of GTIs [s]
			ontime6	1939.1999928355	Sum of GTIs [s]
			ontime7	1939.1999928355	Sum of GTIs [s]
			ontime8	1935.9589924216	Sum of GTIs [s]
			l1events	138066	Number of level 1 events

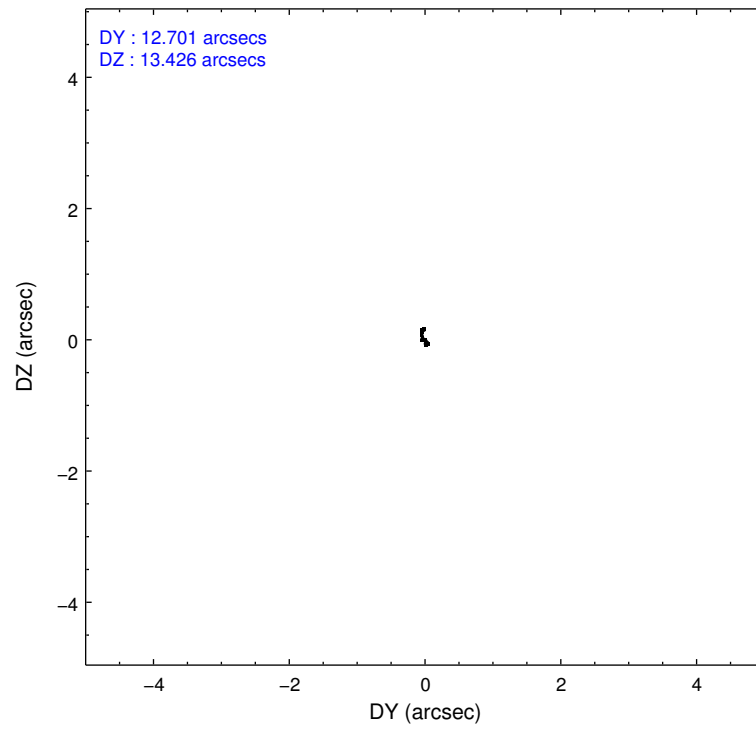
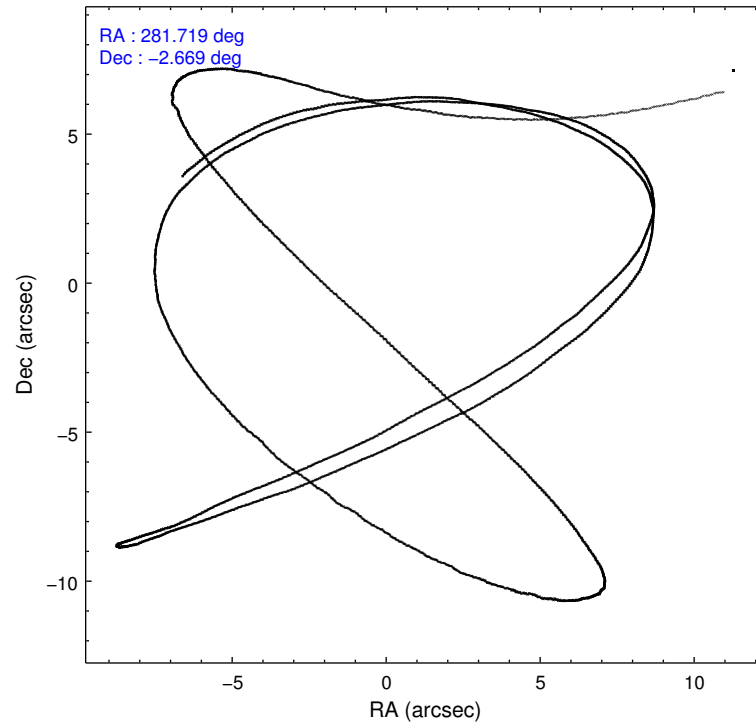
### 2.1.4 Events

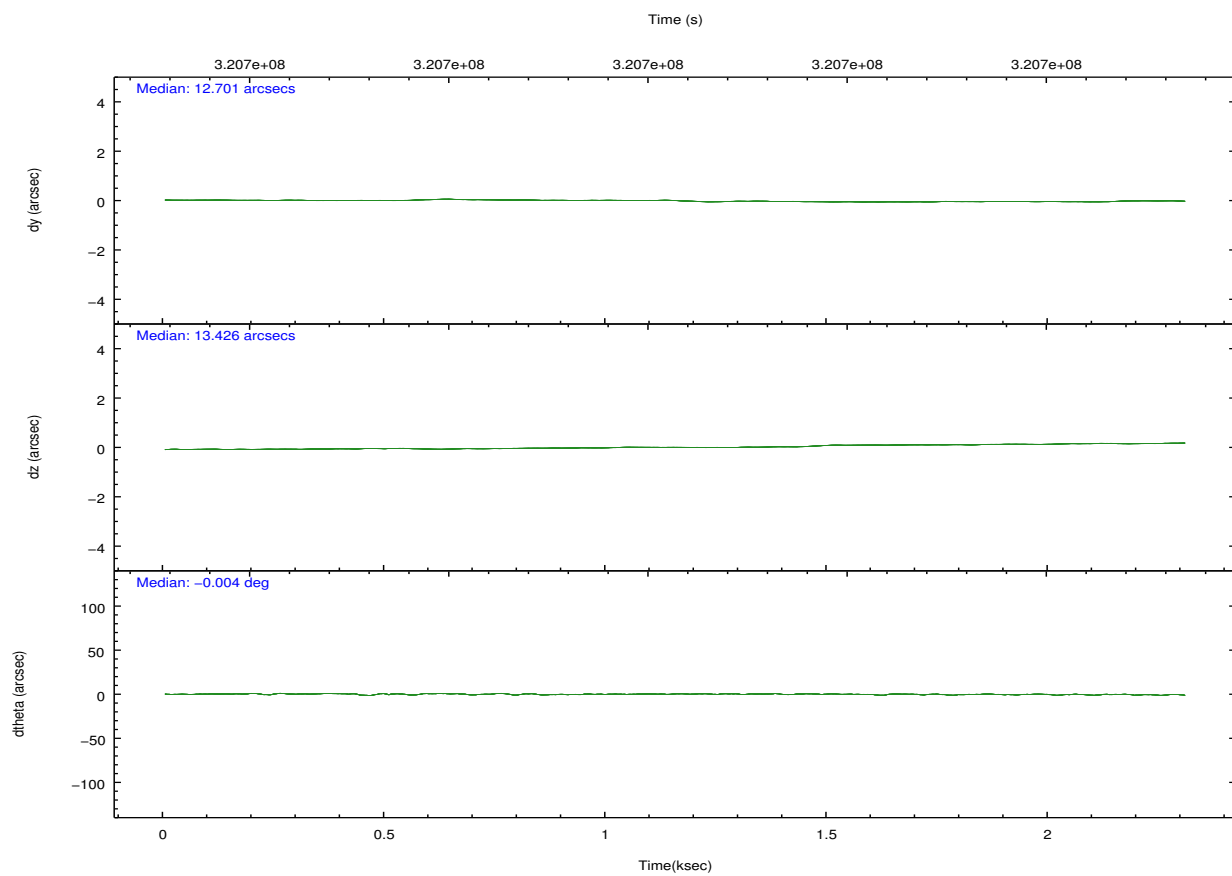
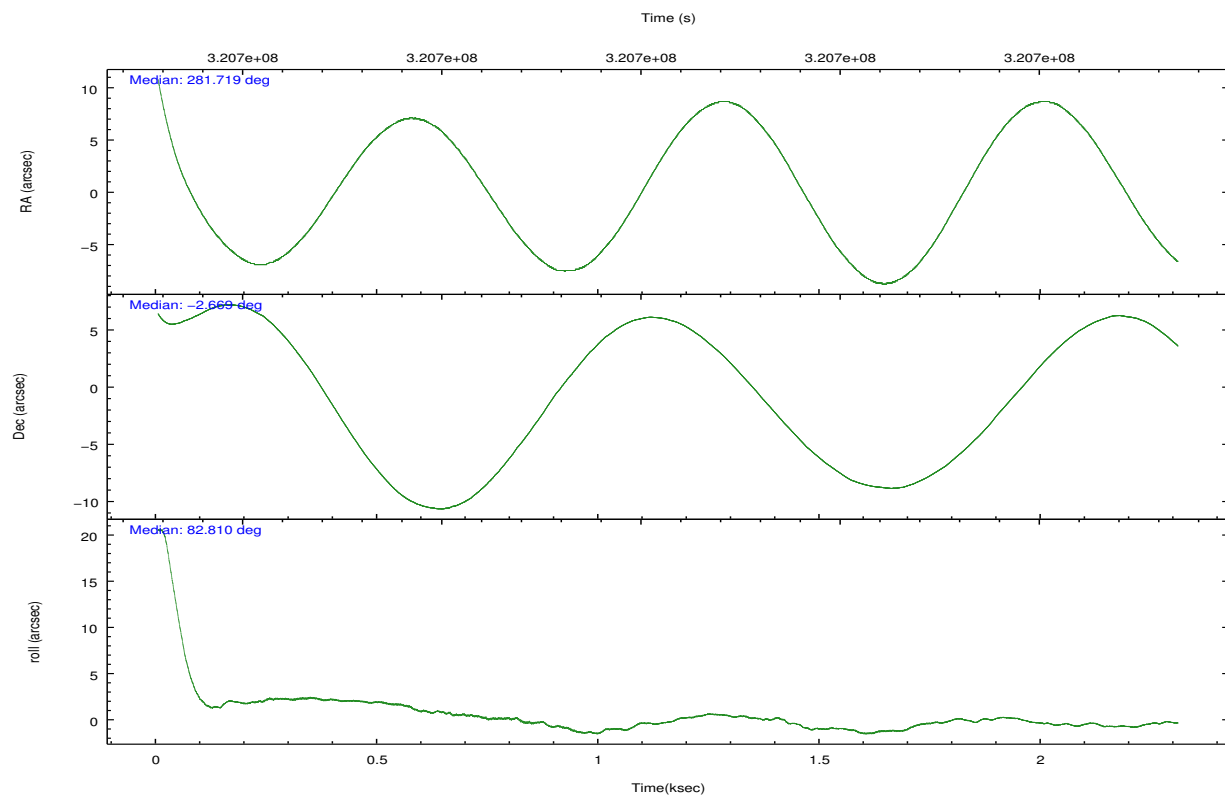
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	19826	17432	30972	18152	25817	25867	grade 0 events	946	976	2247	878	939	1829
rejected events	17601	15190	15773	15908	15246	20345		4%	5%	7%	4%	3%	7%
rejected %	88%	87%	50%	87%	59%	78%	grade 1 events	8	18	92	11	26	24
								0%	0%	0%	0%	0%	0%
							grade 2 events	486	463	4507	518	2224	1141
								2%	2%	14%	2%	8%	4%
							grade 3 events	210	206	438	206	881	581
								1%	1%	1%	1%	3%	2%
							grade 4 events	194	229	482	210	852	514
								0%	1%	1%	1%	3%	1%
							grade 5 events	751	852	2175	846	2506	1068
								3%	4%	7%	4%	9%	4%
							grade 6 events	398	374	7546	438	5694	1466
								2%	2%	24%	2%	22%	5%
							grade 7 events	16833	14314	13485	15045	12695	19244
								84%	82%	43%	82%	49%	74%

## 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	281.729779	281.7188180057012	CCD I2 on	O2	Y
[deg] Pointing Dec	-2.694649	-2.669316568369051	CCD I3 on	O3	Y
[deg] Pointing Roll	82.660074	82.81627131603253	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	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	O4	Y
[s] Observation start time (MET)	320696549.184000	320695349.70326	CCD S5 on	N	N
Observation start date	2008-02-29T18:21:24	2008-02-29T18:02:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	320698729.184000	320698891.07844	On-chip summing requested	N	N
Observation end date	2008-02-29T18:57:44	2008-02-29T19:01:31	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





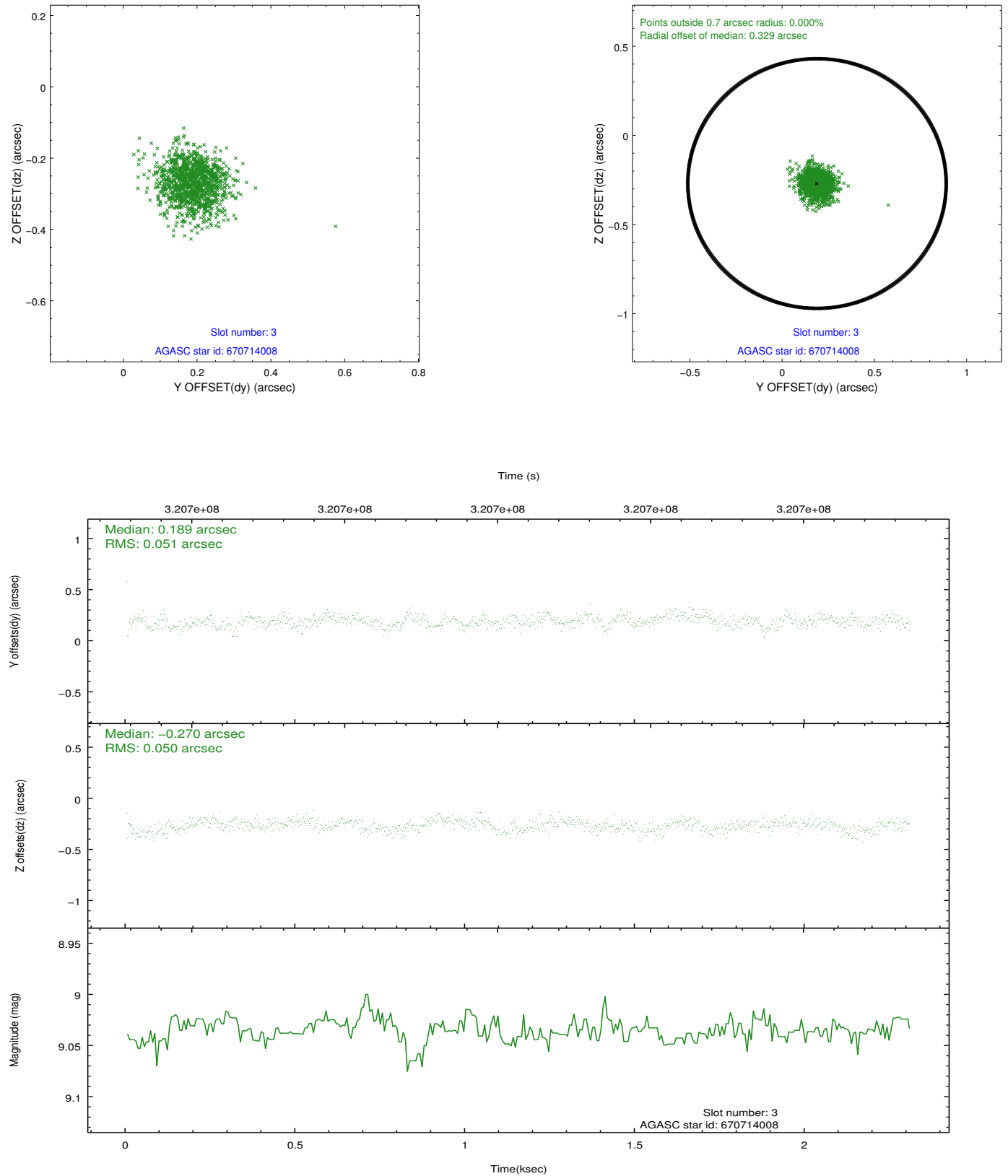
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-4	7.19	563	0.135	0.009	0.006	0.010	0.000000	0.000000	2147.89	173.91
1	FID	ACIS-S-5	7.24	563	-0.148	0.011	0.005	0.009	0.000000	0.000000	-1814.97	167.73
2	FID	ACIS-S-6	7.33	562	-0.015	-0.007	0.007	0.011	0.000000	0.000000	392.95	811.42
3	GUIDE	670714008	9.04	1124	0.189	-0.270	0.075	0.124	281.129237	-3.153193	-1914.47	1929.84
4	GUIDE	670827848	9.68	1125	-0.096	0.130	0.130	0.228	282.233886	-2.502228	915.81	-1707.73
5	GUIDE	670829600	8.62	1125	-0.022	0.306	0.063	0.100	282.227270	-3.031765	-975.43	-1930.04
6	GUIDE	670830264	8.74	1126	0.174	-0.113	0.074	0.119	281.361536	-3.231556	-2088.00	1063.97
7	GUIDE	670827280	9.41	1125	-0.242	-0.060	0.095	0.149	281.434708	-1.976010	2426.42	1385.14

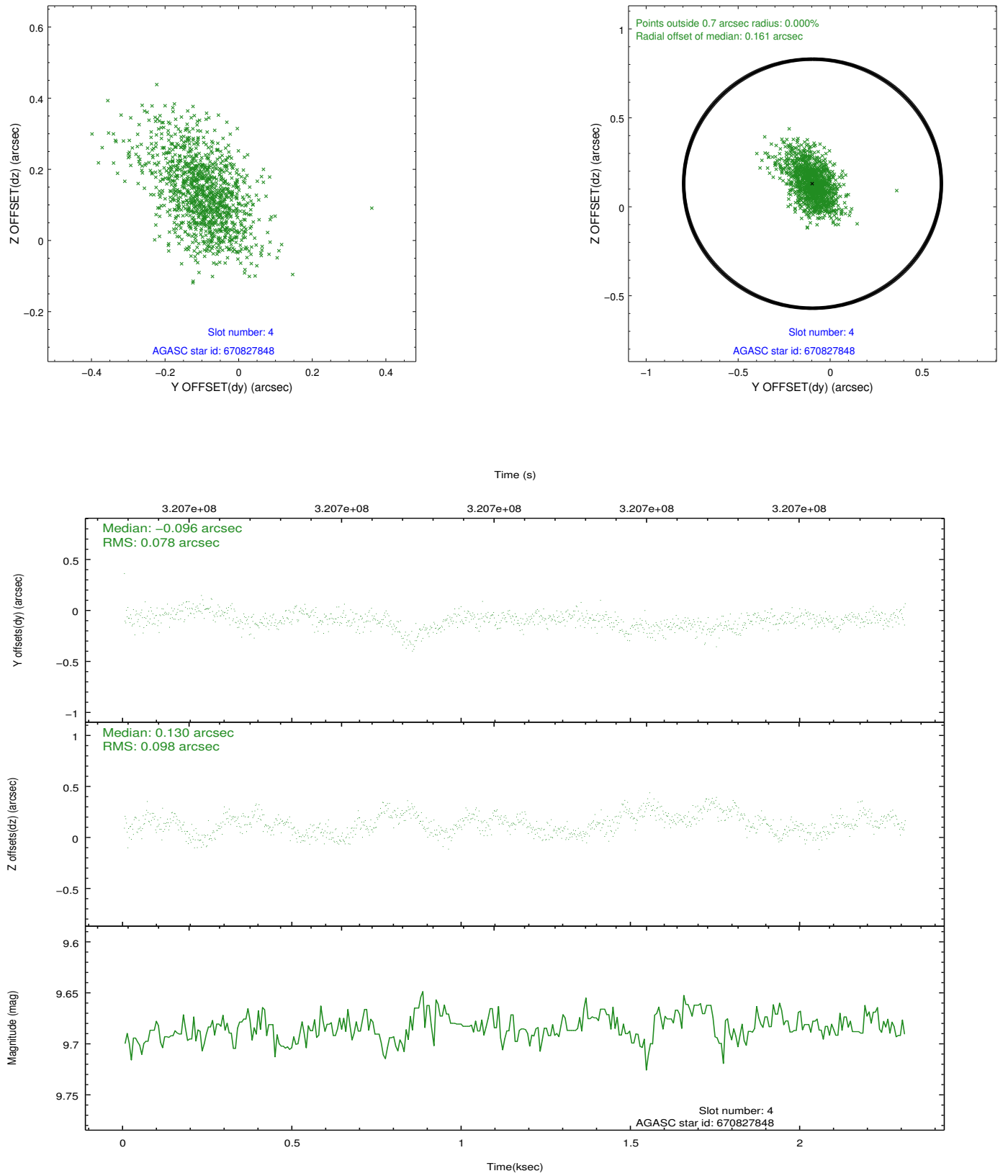


## 2.4 Star Slots

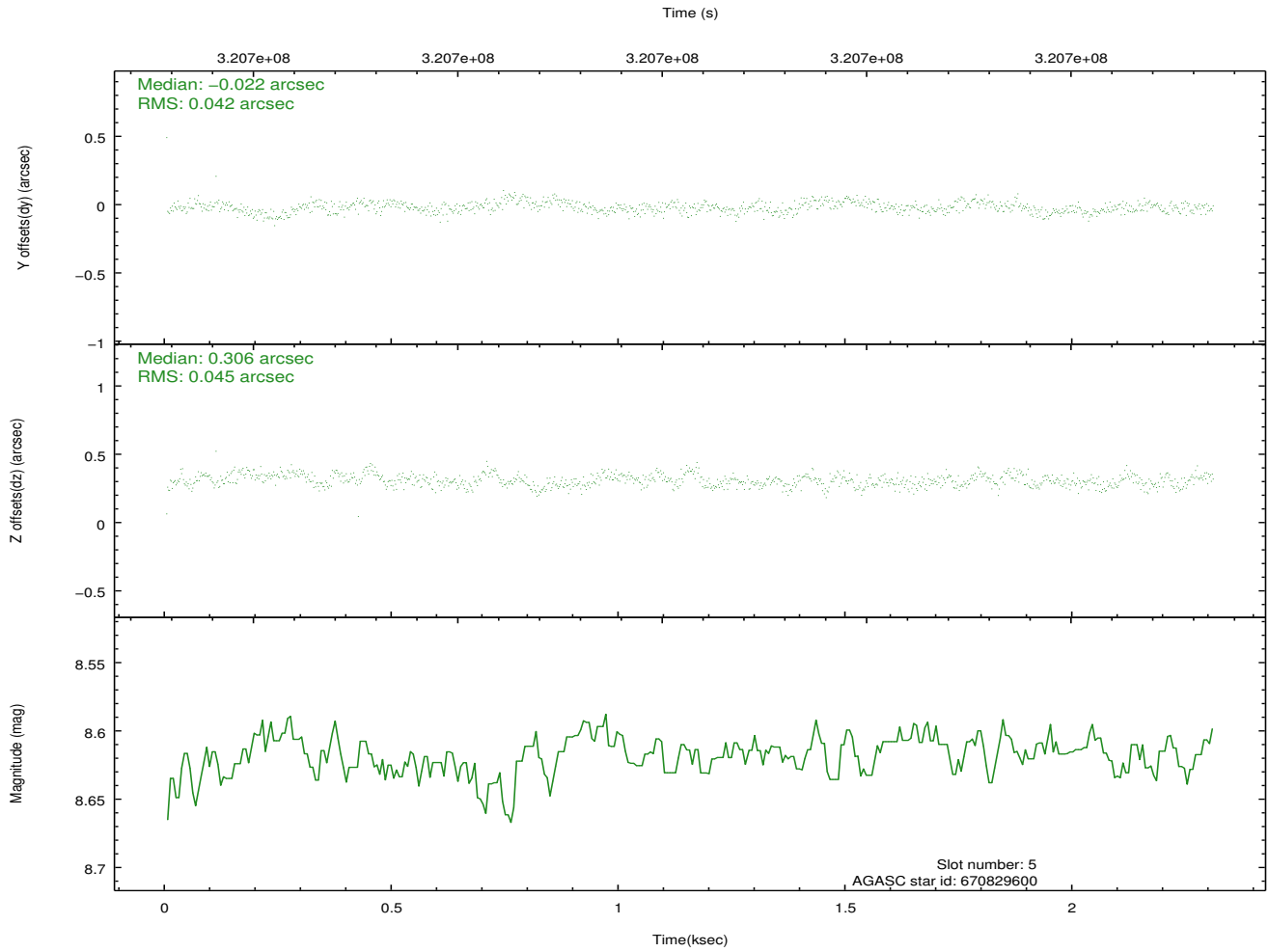
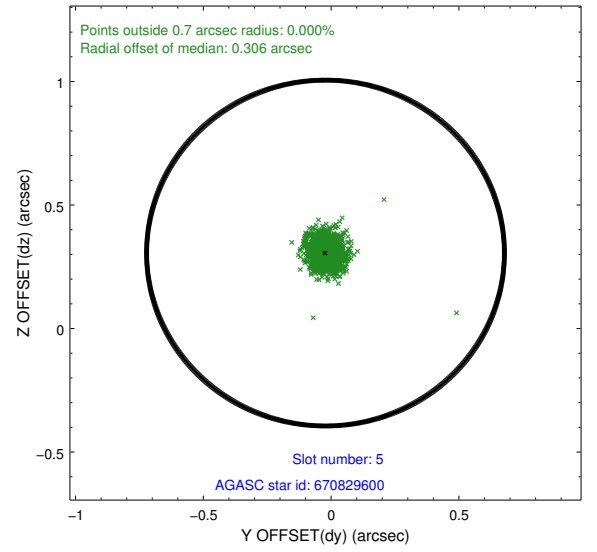
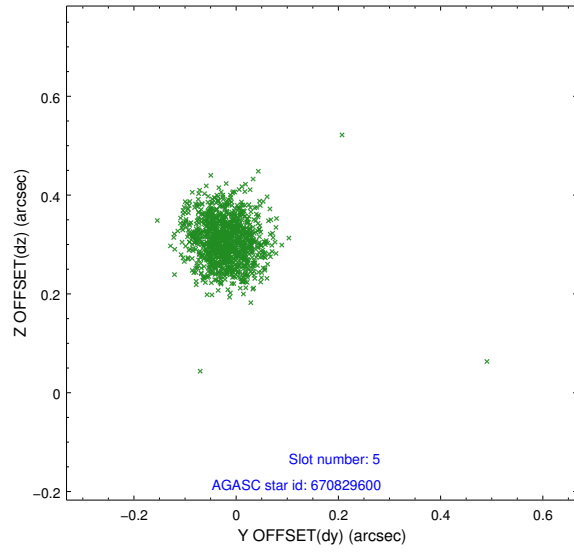
### 2.4.1 Slot 3



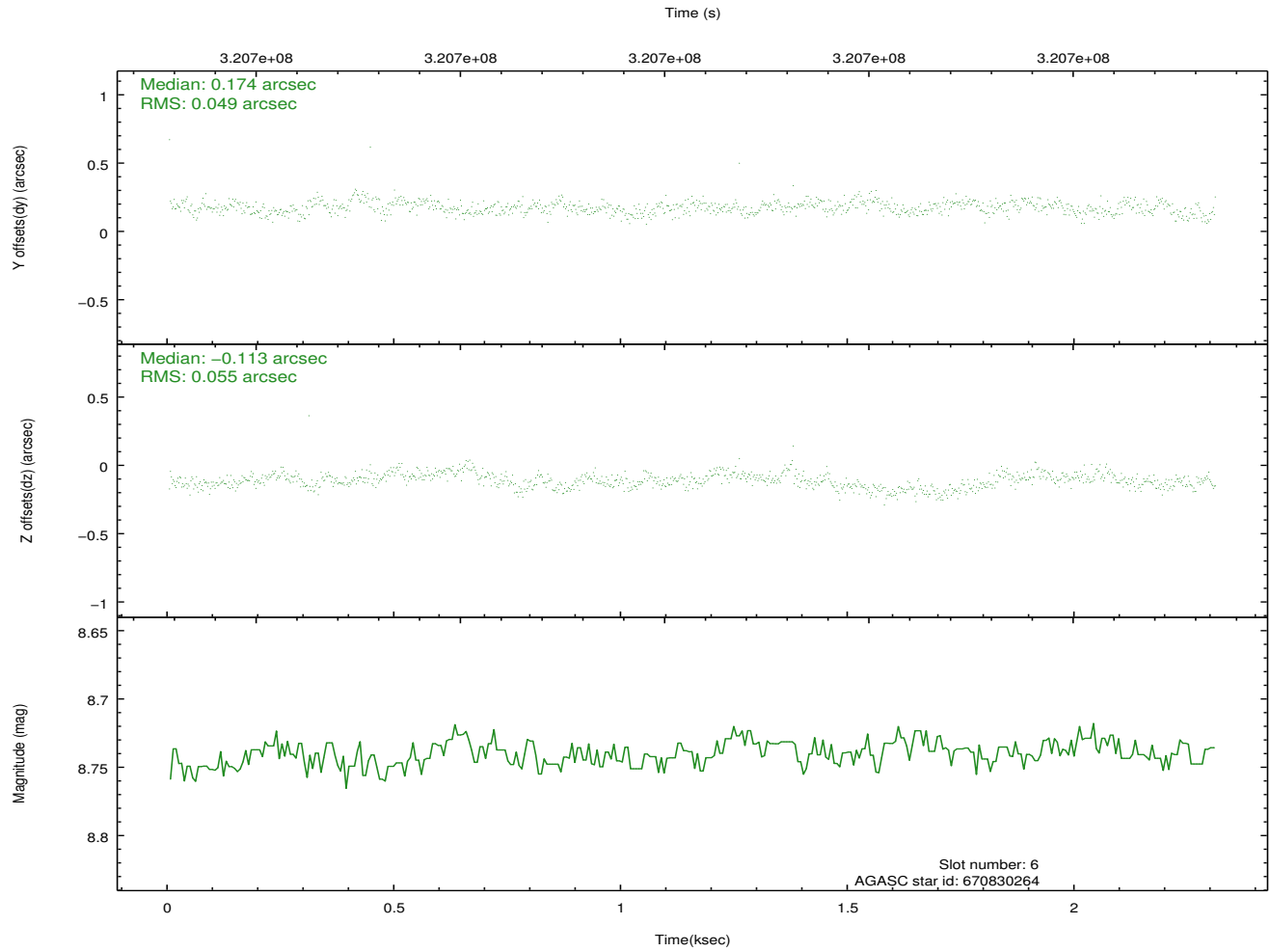
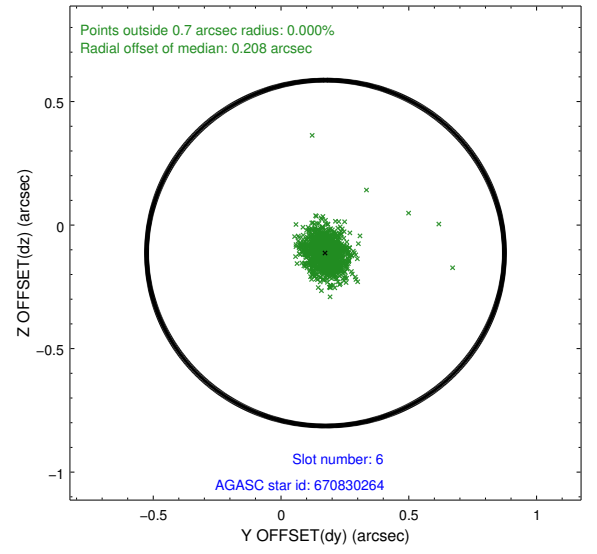
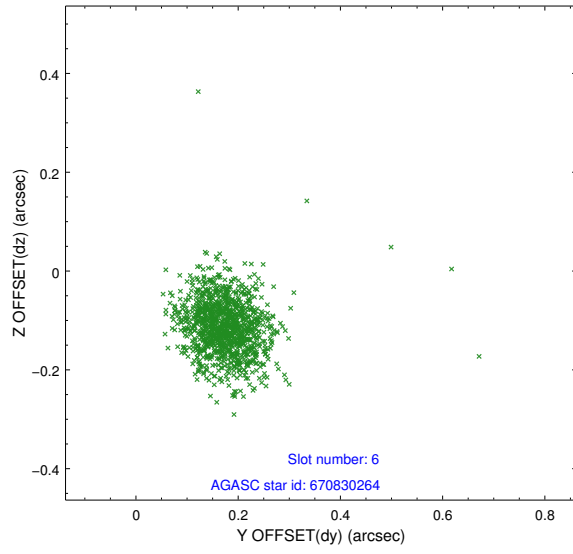
## 2.4.2 Slot 4



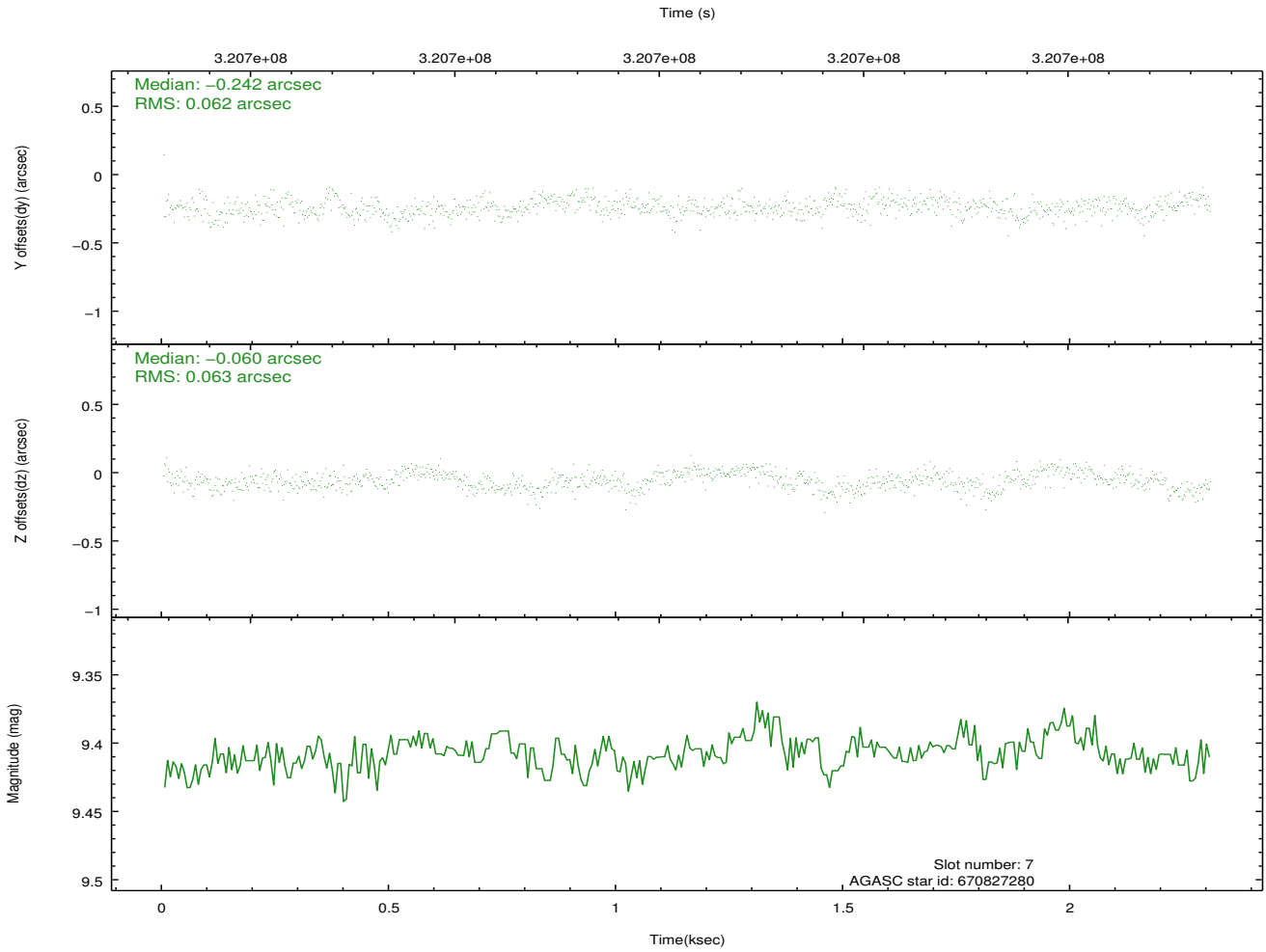
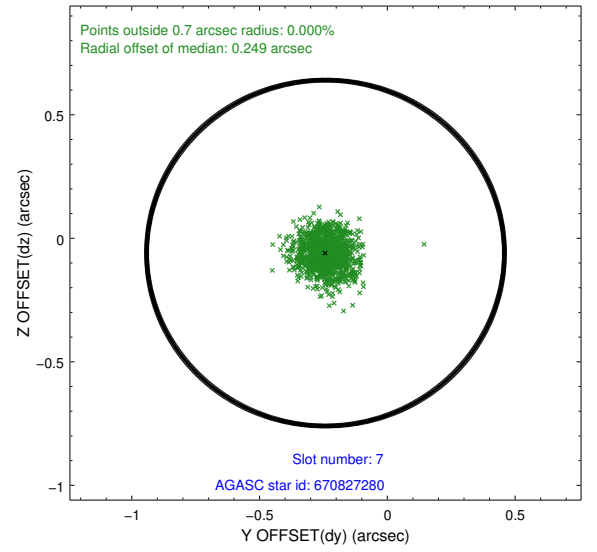
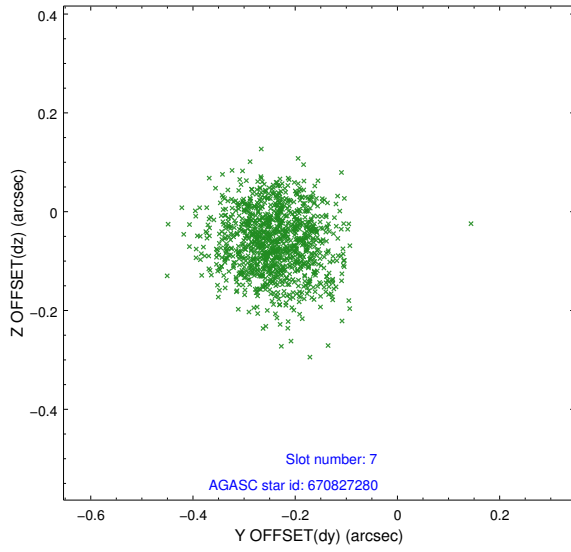
### 2.4.3 Slot 5



## 2.4.4 Slot 6

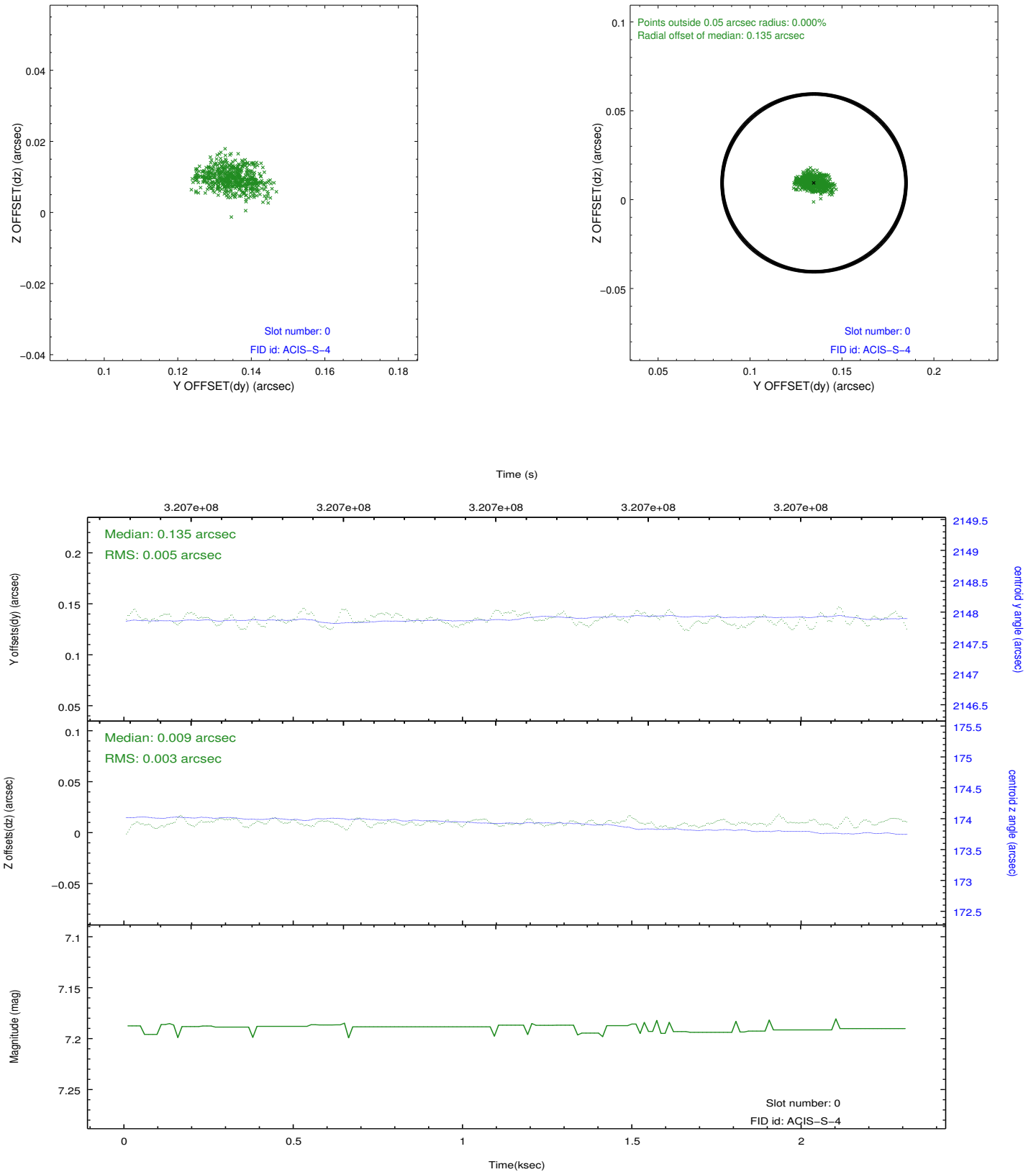


### 2.4.5 Slot 7

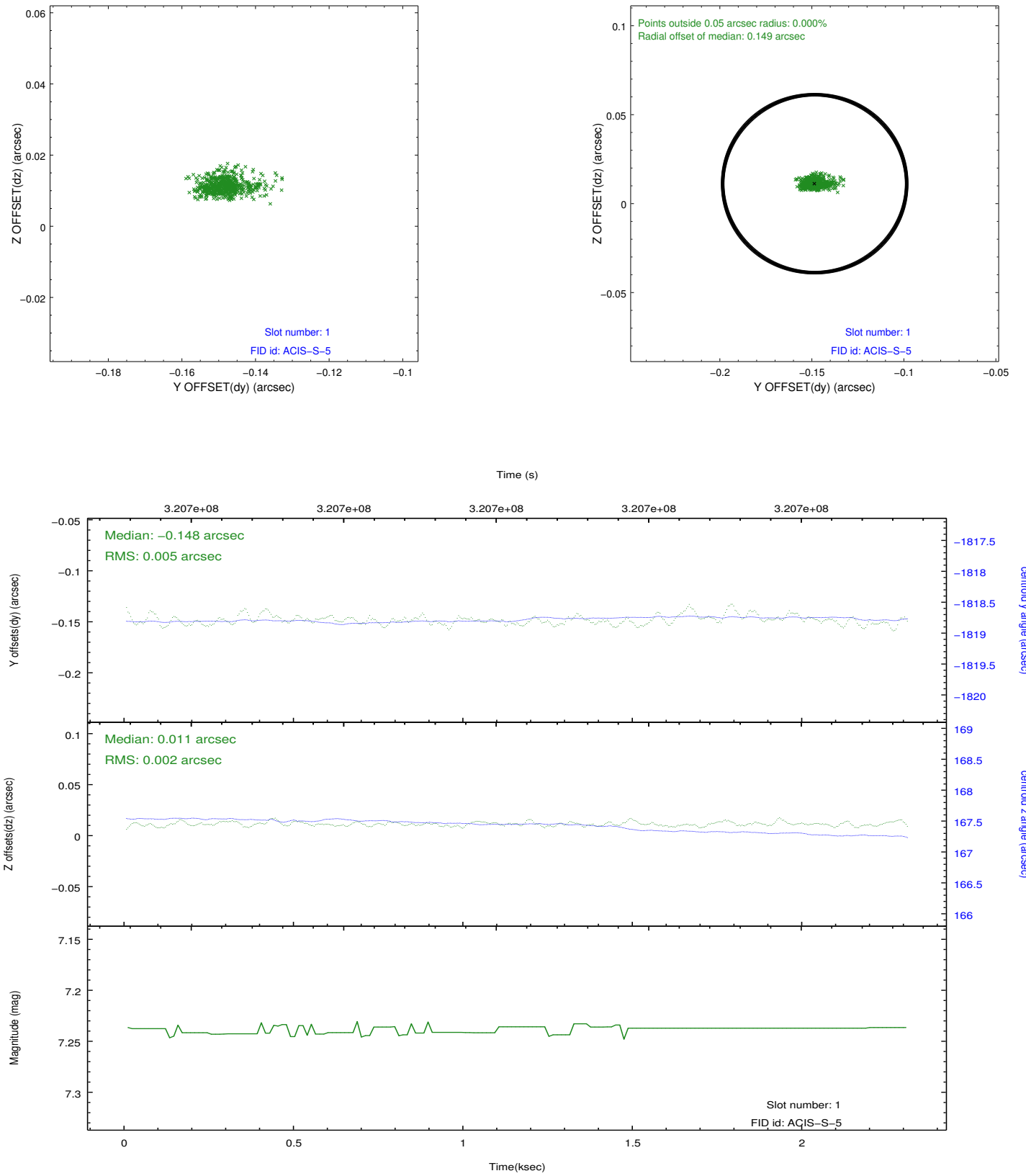


## 2.5 FID Slots

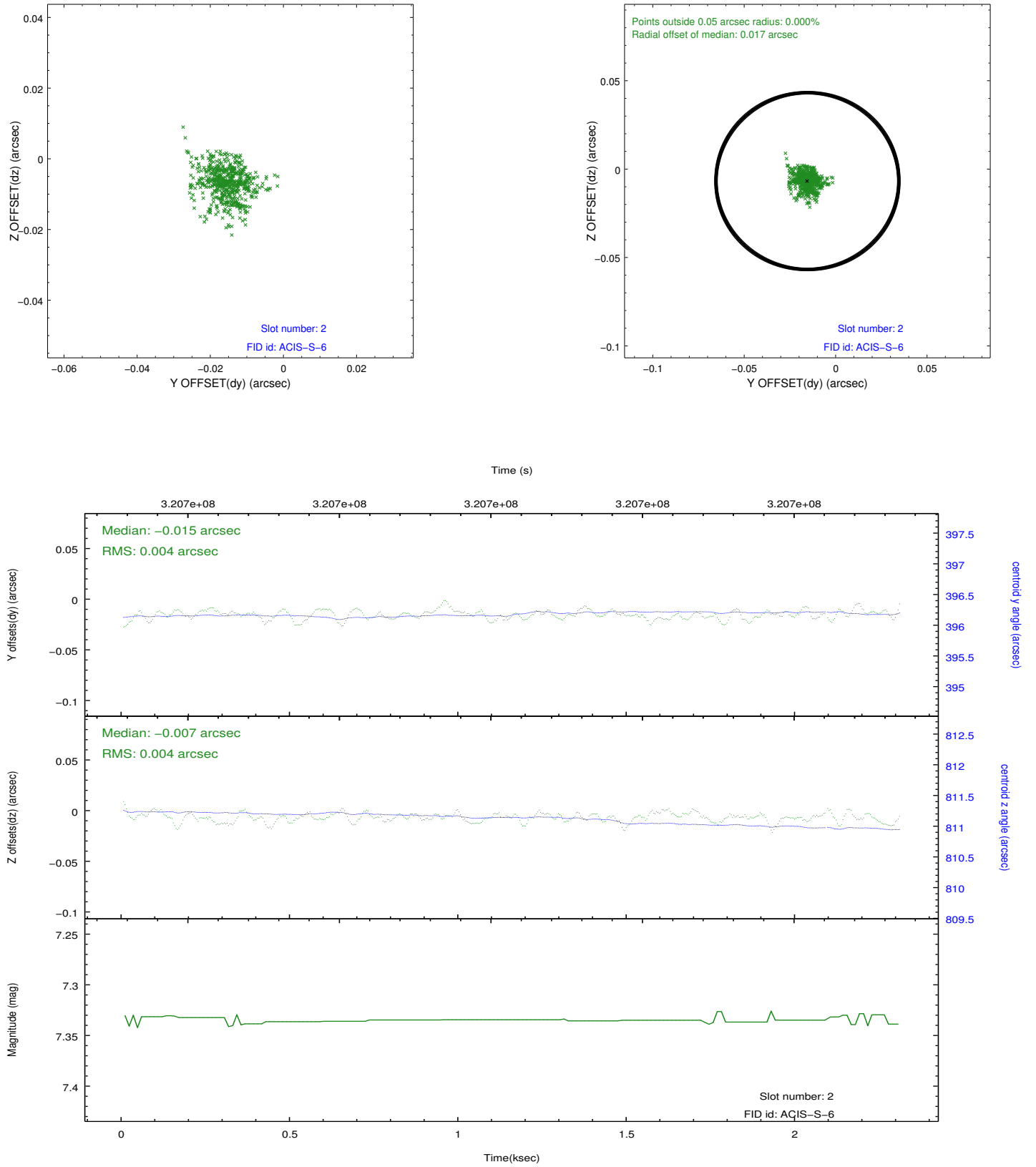
### 2.5.1 Slot 0



## 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)	2012.05.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.93919999

### A.2 Comments