

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8726 - L2 Version 2  
Chandra X-Ray Center

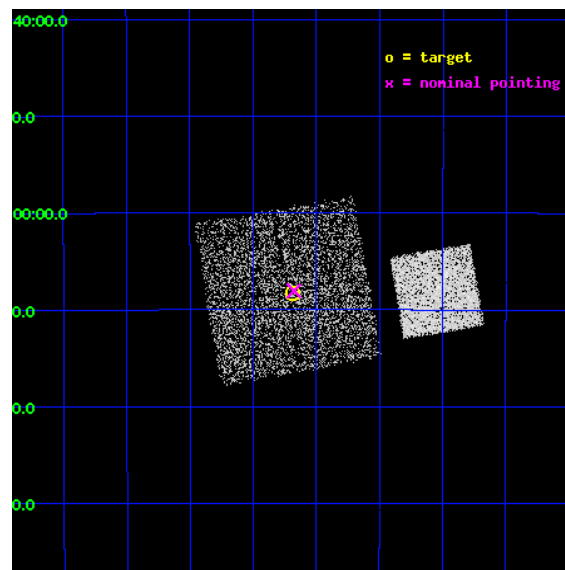
L2 Processing Date : May 14 2012

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# 1 Front

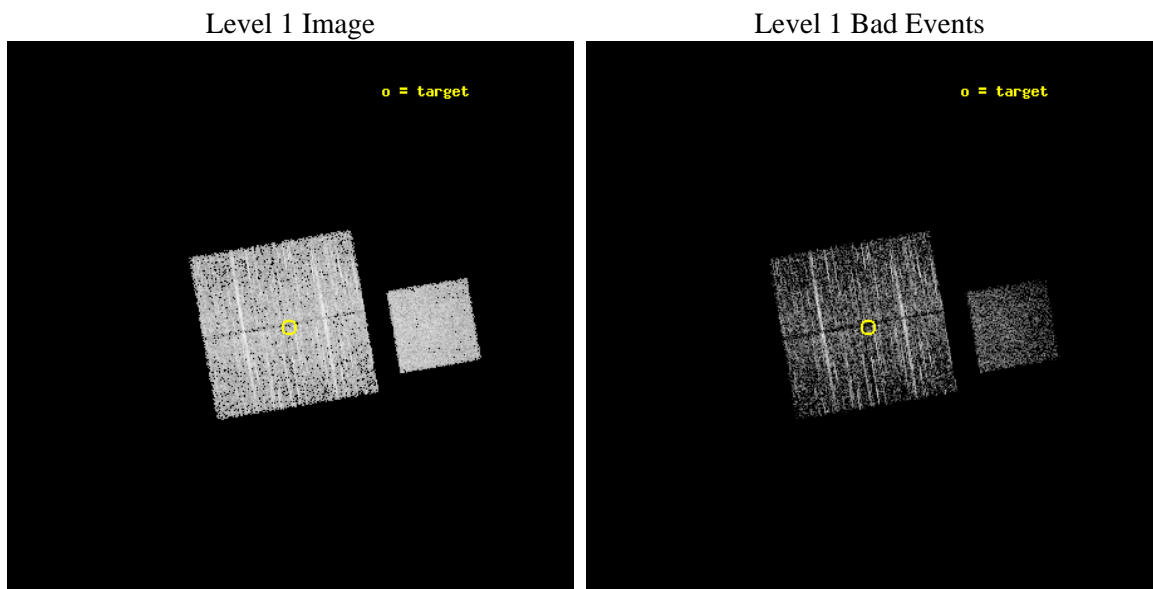
seq_num	400777	Sequence number
obs_id	8726	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	268.671411	Observer's specified target RA [deg]
dec_targ	-28.138757	Observer's specified target Dec [deg]
ra_nom	268.66942318282	Nominal RA [deg]
dec_nom	-28.134170628765	Nominal Dec [deg]
roll_nom	80.207753909675	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2185.5000168085	Sum of GTIs [s]
livetime	2156.9448501472	Livetime [s]
ontime0	2185.5000168085	Sum of GTIs [s]
ontime1	2179.2180761099	Sum of GTIs [s]
ontime2	2185.5000168085	Sum of GTIs [s]
ontime3	2185.5000168085	Sum of GTIs [s]
ontime7	2185.5000168085	Sum of GTIs [s]
l2events	15707	Number of level 2 events



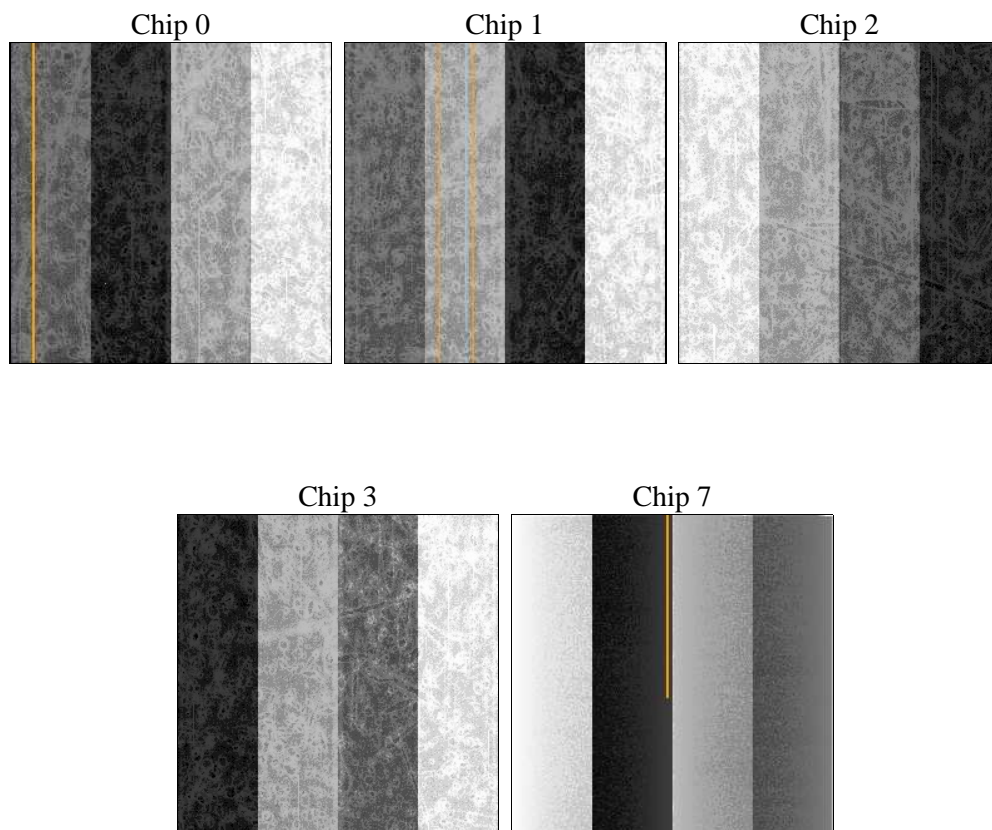
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2185.5000168085	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2185.5000168085	Sum of GTIs [s]
date	2012-05-14T20:45:34	Date and time of file creation	ontime1	2179.2180761099	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2185.5000168085	Sum of GTIs [s]
			ontime3	2185.5000168085	Sum of GTIs [s]
			ontime7	2185.5000168085	Sum of GTIs [s]
			l1events	103376	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	19643	19197	21833	20115	22588
rejected events	17635	16927	19830	18158	13469
rejected %	89%	88%	90%	90%	59%

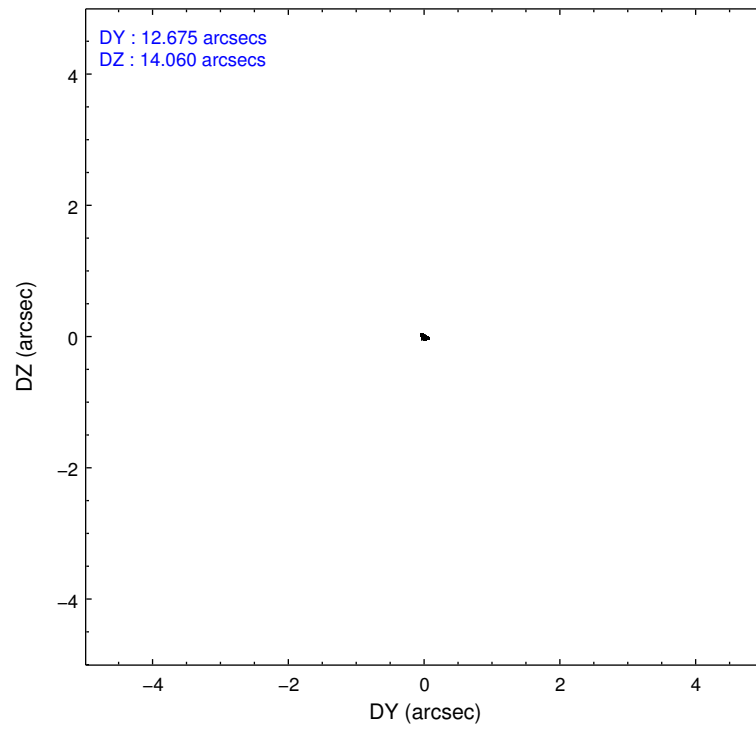
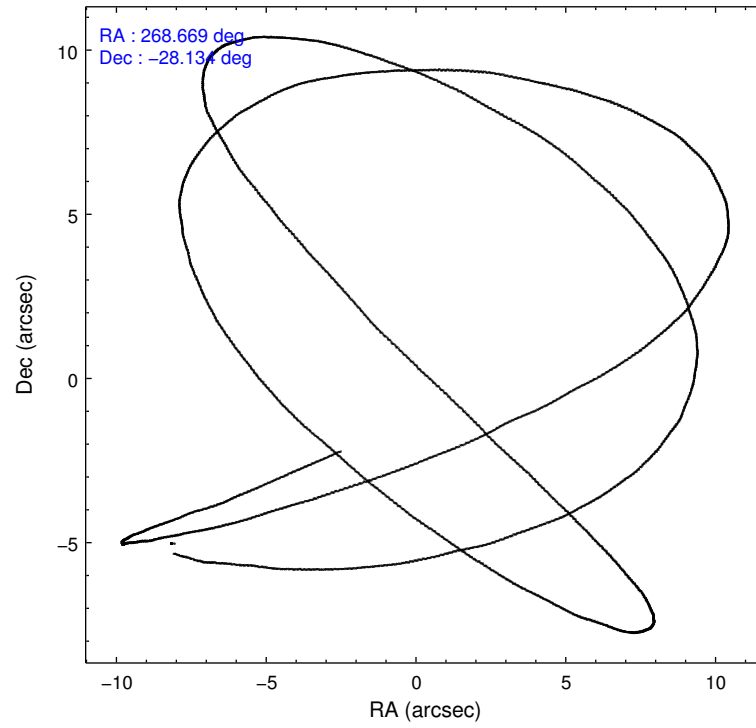
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	925	1097	939	976	1068
	4%	5%	4%	4%	4%
grade 1 events	13	11	9	12	21
	0%	0%	0%	0%	0%
grade 2 events	527	536	497	474	2156
	2%	2%	2%	2%	9%
grade 3 events	224	247	239	209	974
	1%	1%	1%	1%	4%
grade 4 events	224	256	213	206	958
	1%	1%	0%	1%	4%
grade 5 events	698	782	701	775	2313
	3%	4%	3%	3%	10%
grade 6 events	399	495	393	371	5337
	2%	2%	1%	1%	23%
grade 7 events	16633	15773	18842	17092	9761
	84%	82%	86%	84%	43%

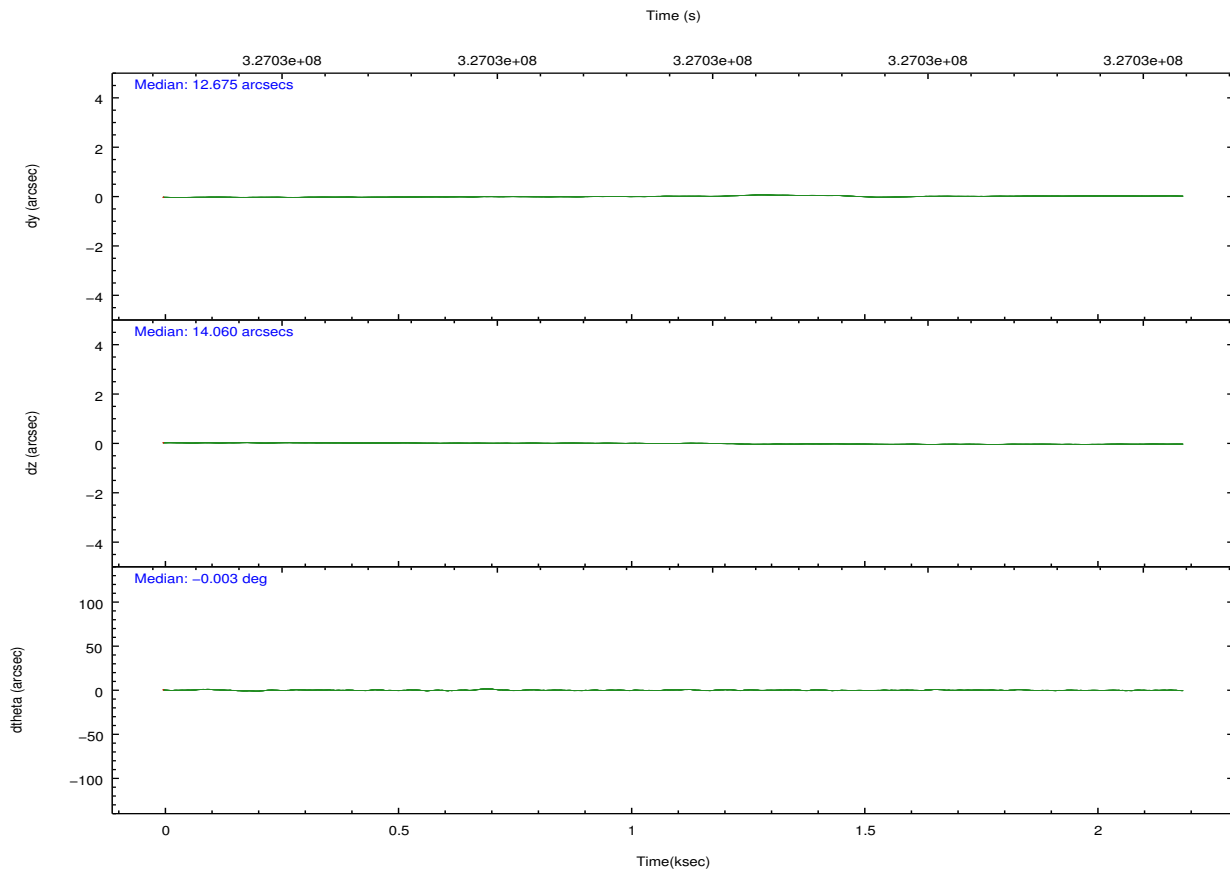
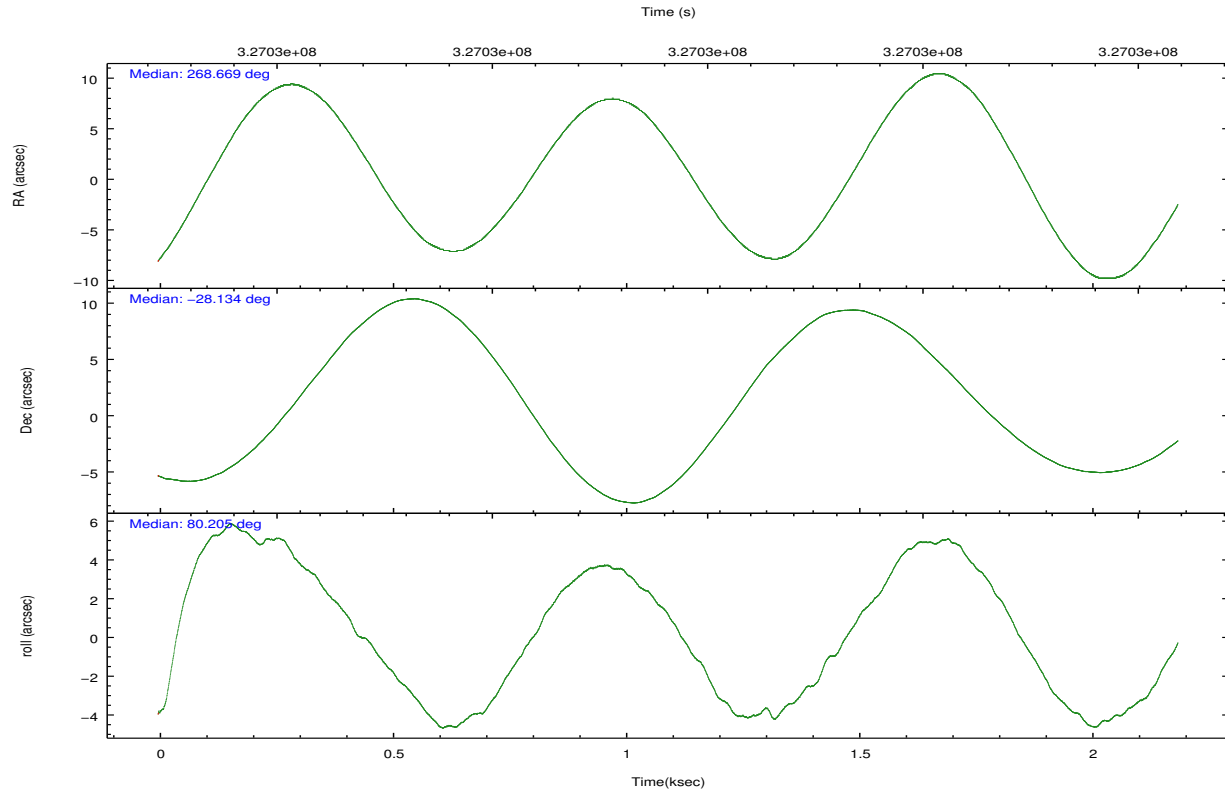
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01237	ACIS-01237
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	268.680455	268.6694231828191
[deg] Pointing Dec	-28.159792	-28.13417062876542
[deg] Pointing Roll	80.004271	80.20775390967513
[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)	327028502.184000	327028125.9615
Observation start date	2008-05-13T01:13:57	2008-05-13T01:08:45
[s] Observation end time (MET)	327030502.184000	327030636.18662
Observation end date	2008-05-13T01:47:17	2008-05-13T01:50:36
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	N	N
CCD S3 on	O1	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





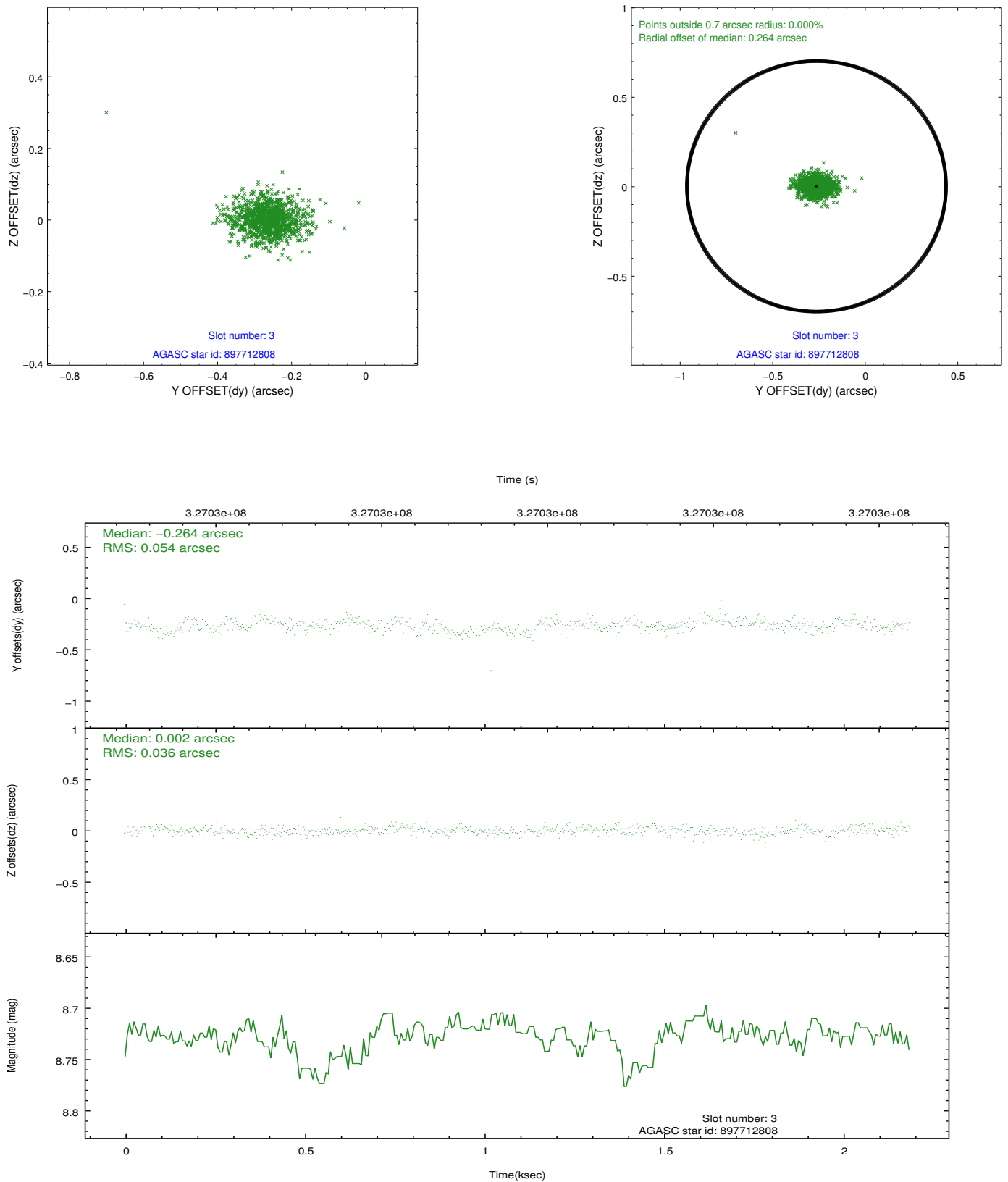
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.01	534	0.010	0.032	0.006	0.010	0.000000	0.000000	926.86	-837.59
1	FID	ACIS-I-5	7.00	534	-0.175	0.030	0.006	0.010	0.000000	0.000000	-1819.80	1058.38
2	FID	ACIS-I-6	7.01	534	0.074	0.009	0.007	0.011	0.000000	0.000000	389.21	1706.26
3	GUIDE	897712808	8.73	1068	-0.264	0.002	0.065	0.114	268.777505	-27.542029	2244.00	80.81
4	GUIDE	897720600	8.23	1067	-0.106	0.041	0.054	0.087	268.319864	-27.628963	1683.16	1464.12
5	GUIDE	897721048	7.75	1068	-0.072	0.187	0.043	0.068	268.989561	-28.030814	628.74	-885.65
6	GUIDE	898238128	7.69	1068	0.049	-0.210	0.055	0.086	268.450740	-28.688500	-1999.78	382.58
7	GUIDE	898243552	8.73	1067	0.391	-0.020	0.079	0.126	267.970066	-28.622317	-2036.93	1920.70

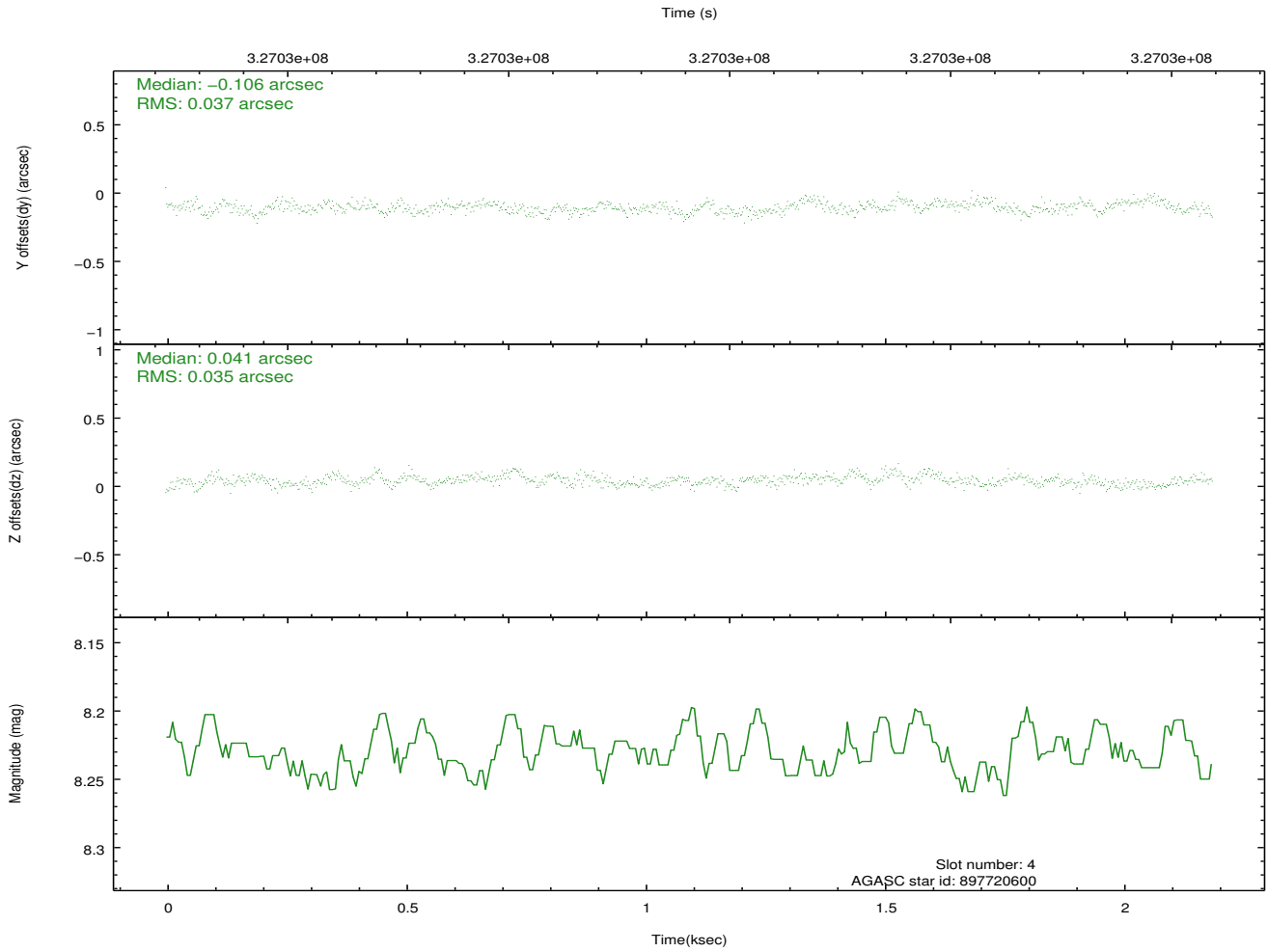
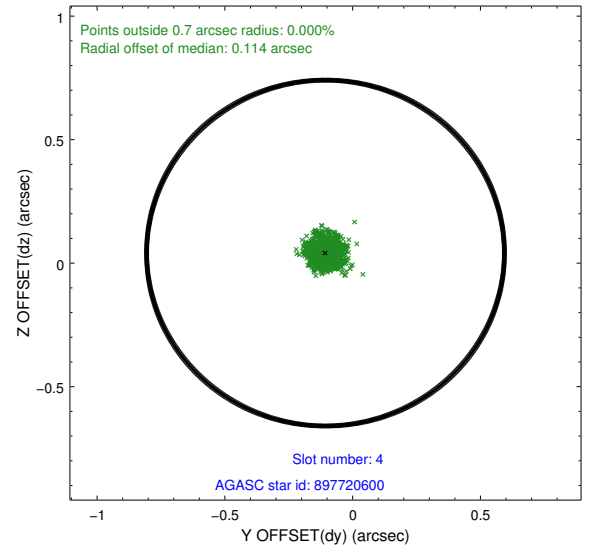
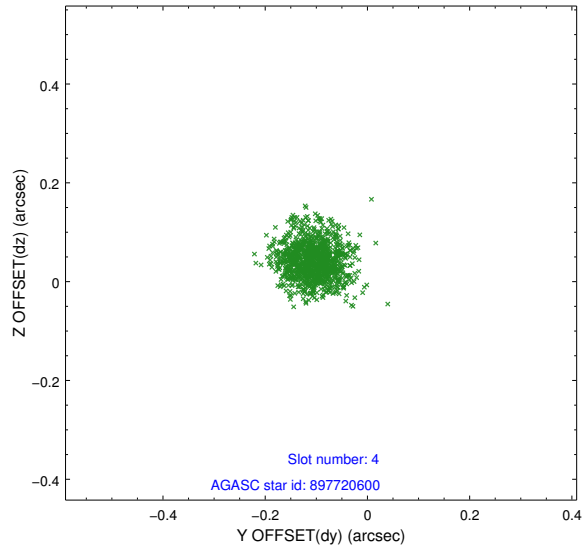


## 2.4 Star Slots

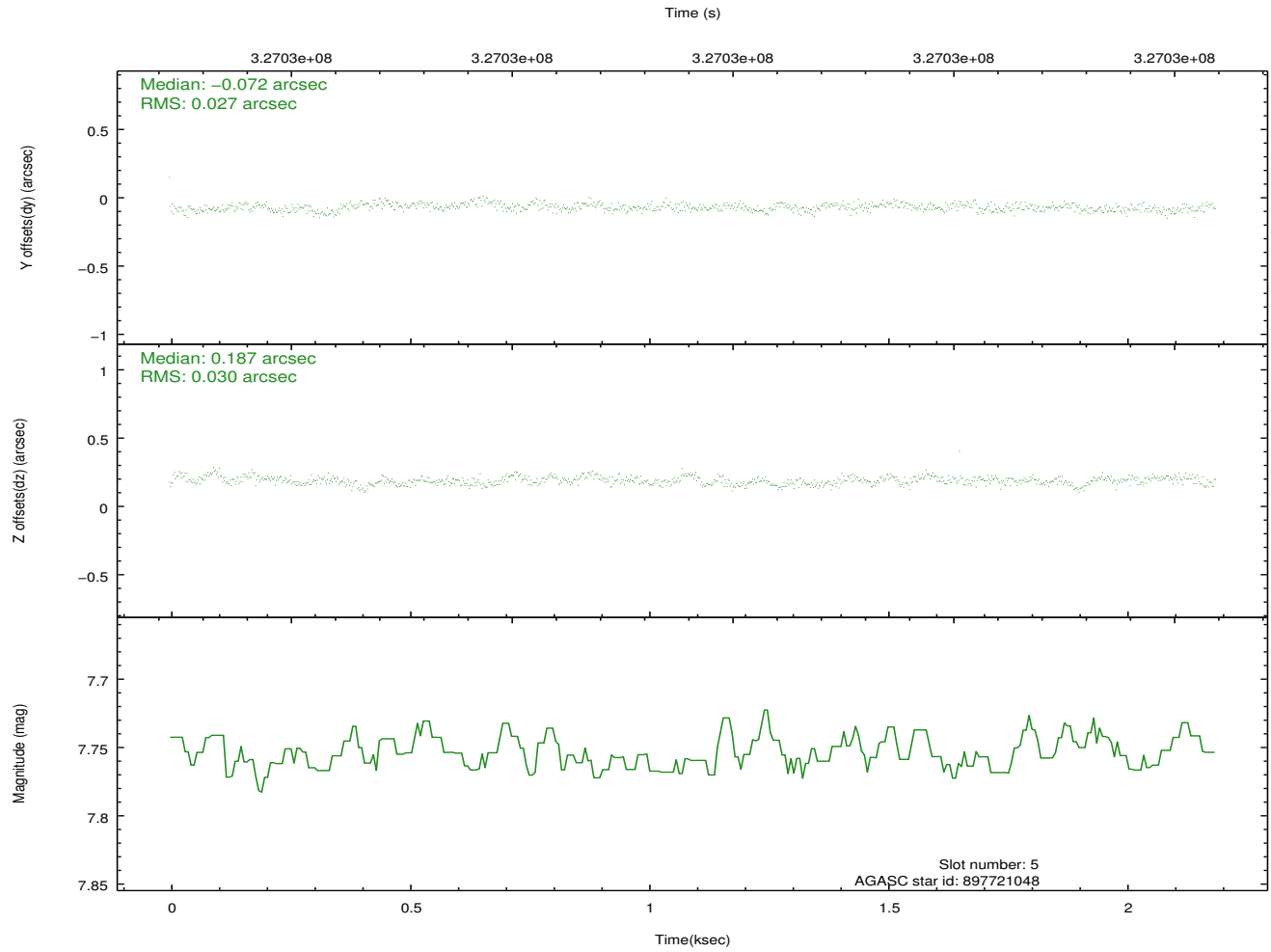
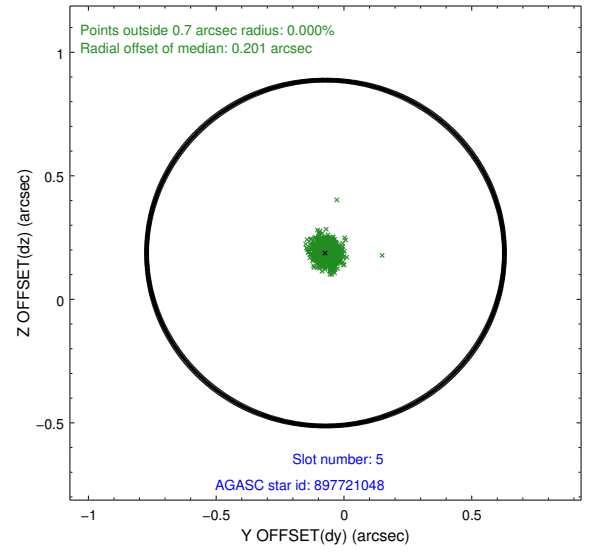
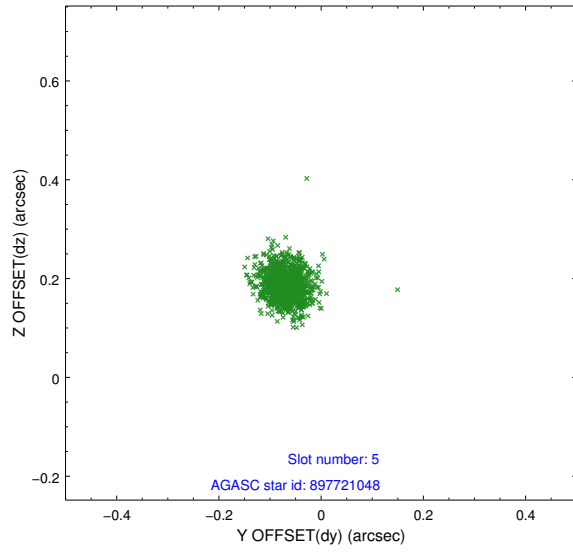
### 2.4.1 Slot 3



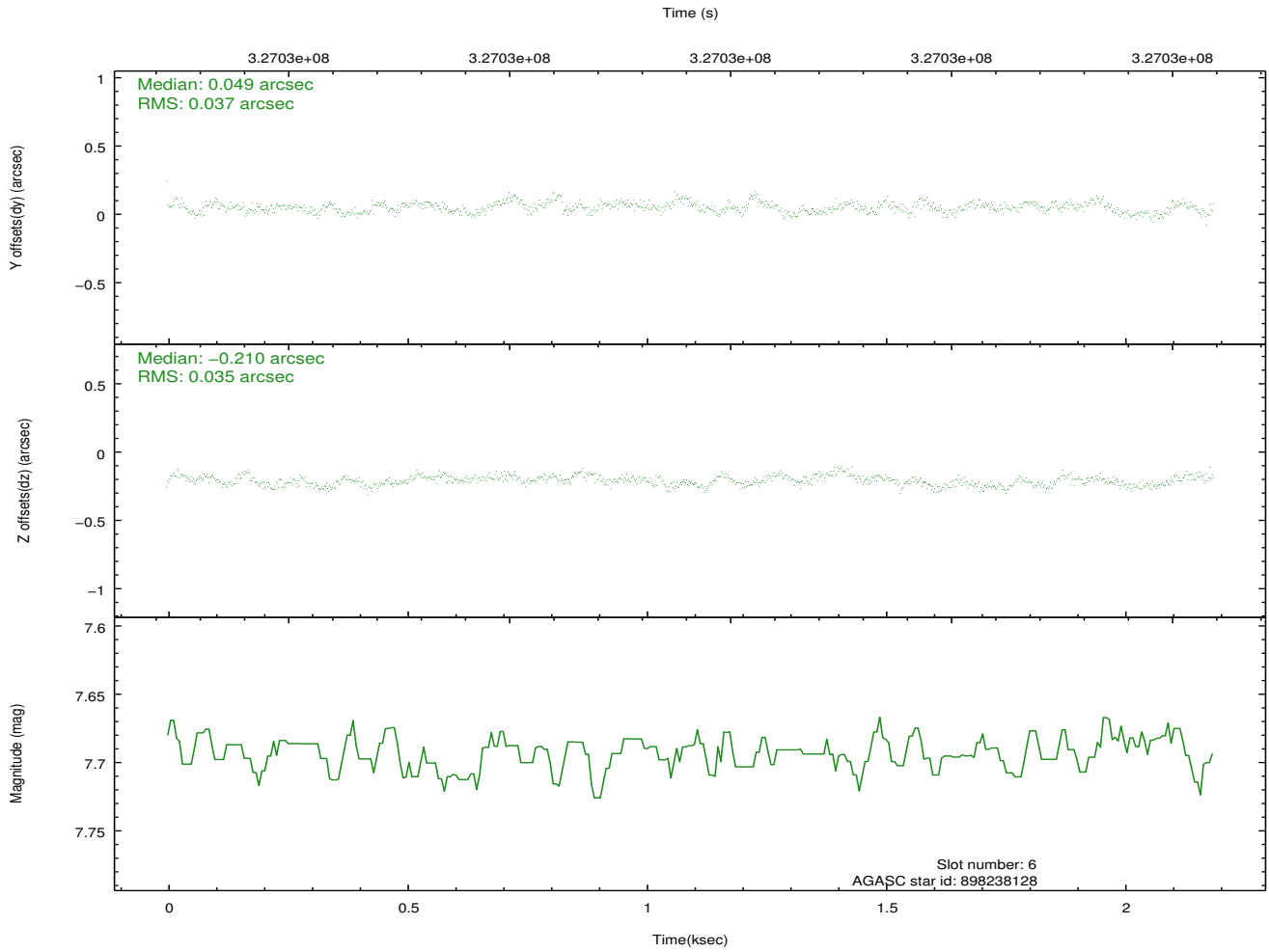
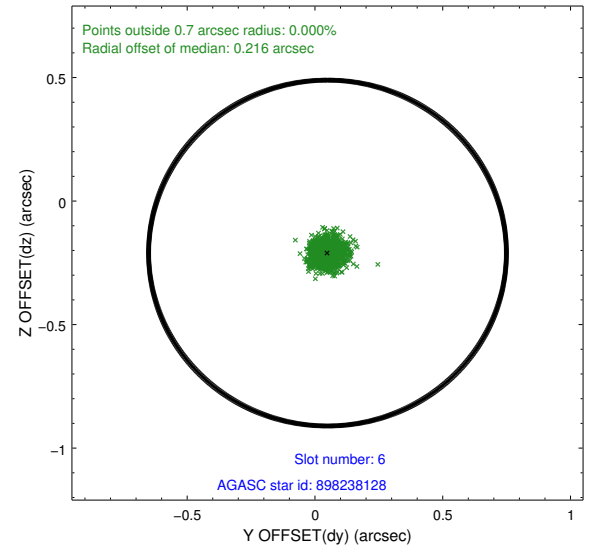
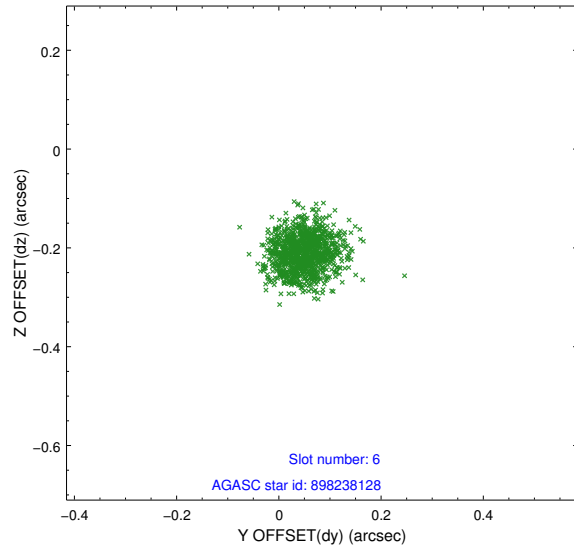
## 2.4.2 Slot 4



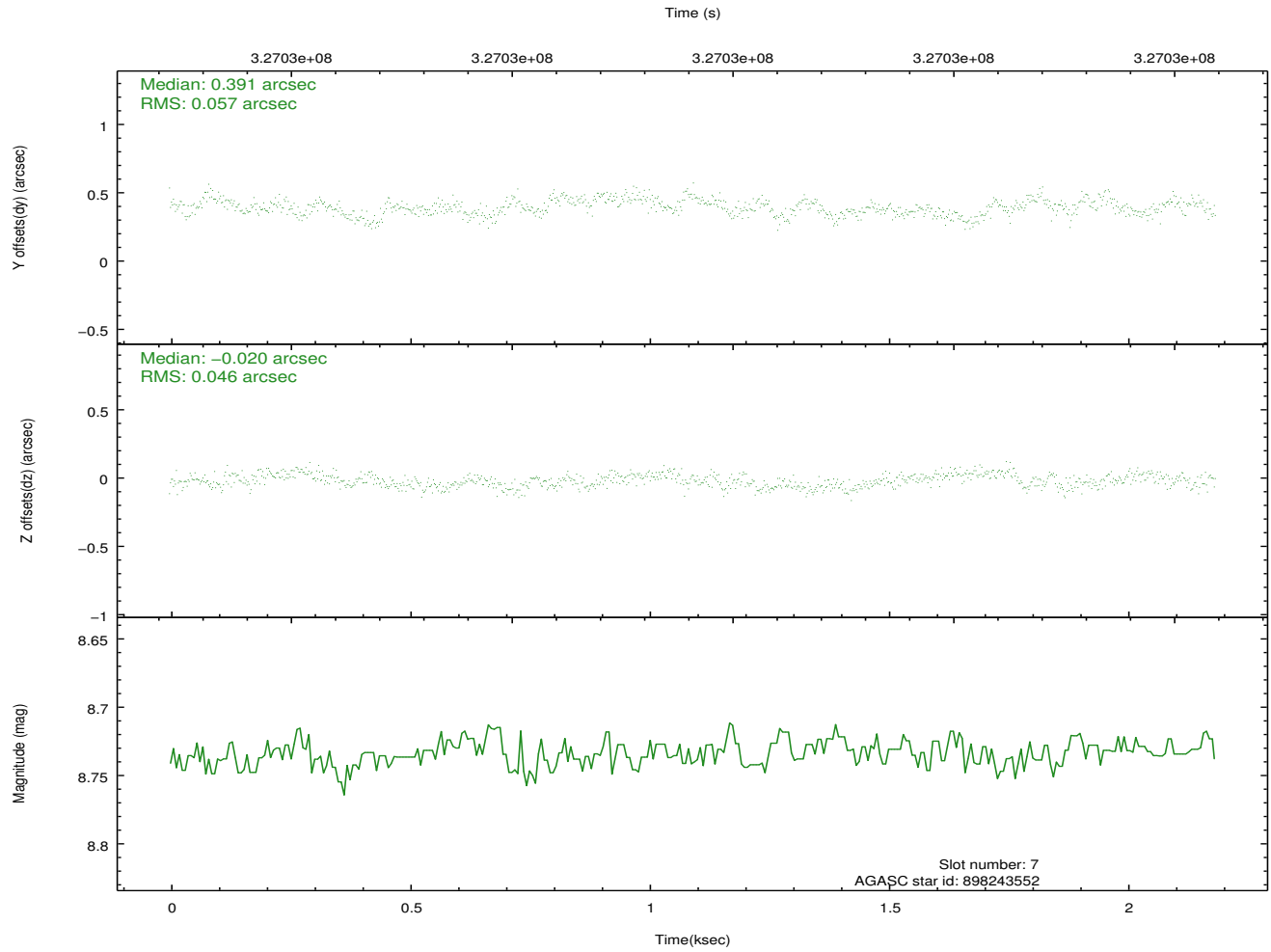
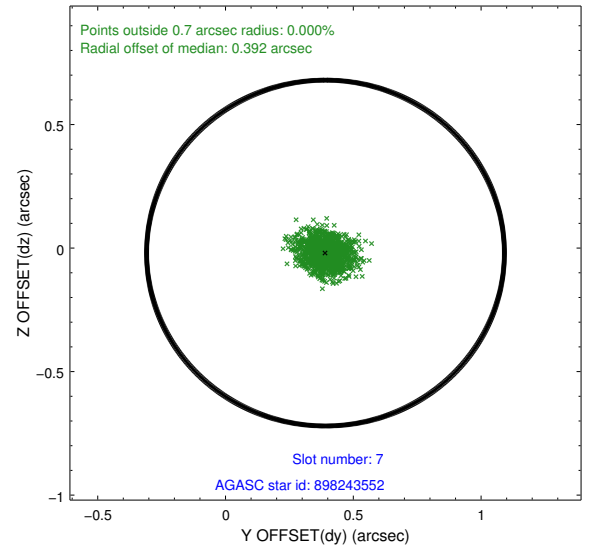
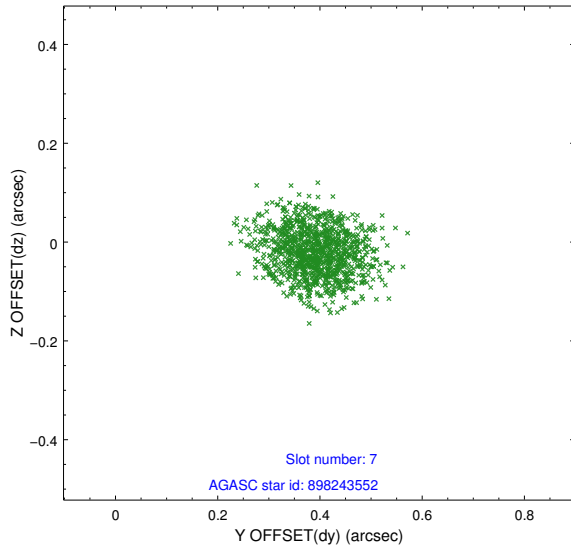
### 2.4.3 Slot 5



## 2.4.4 Slot 6

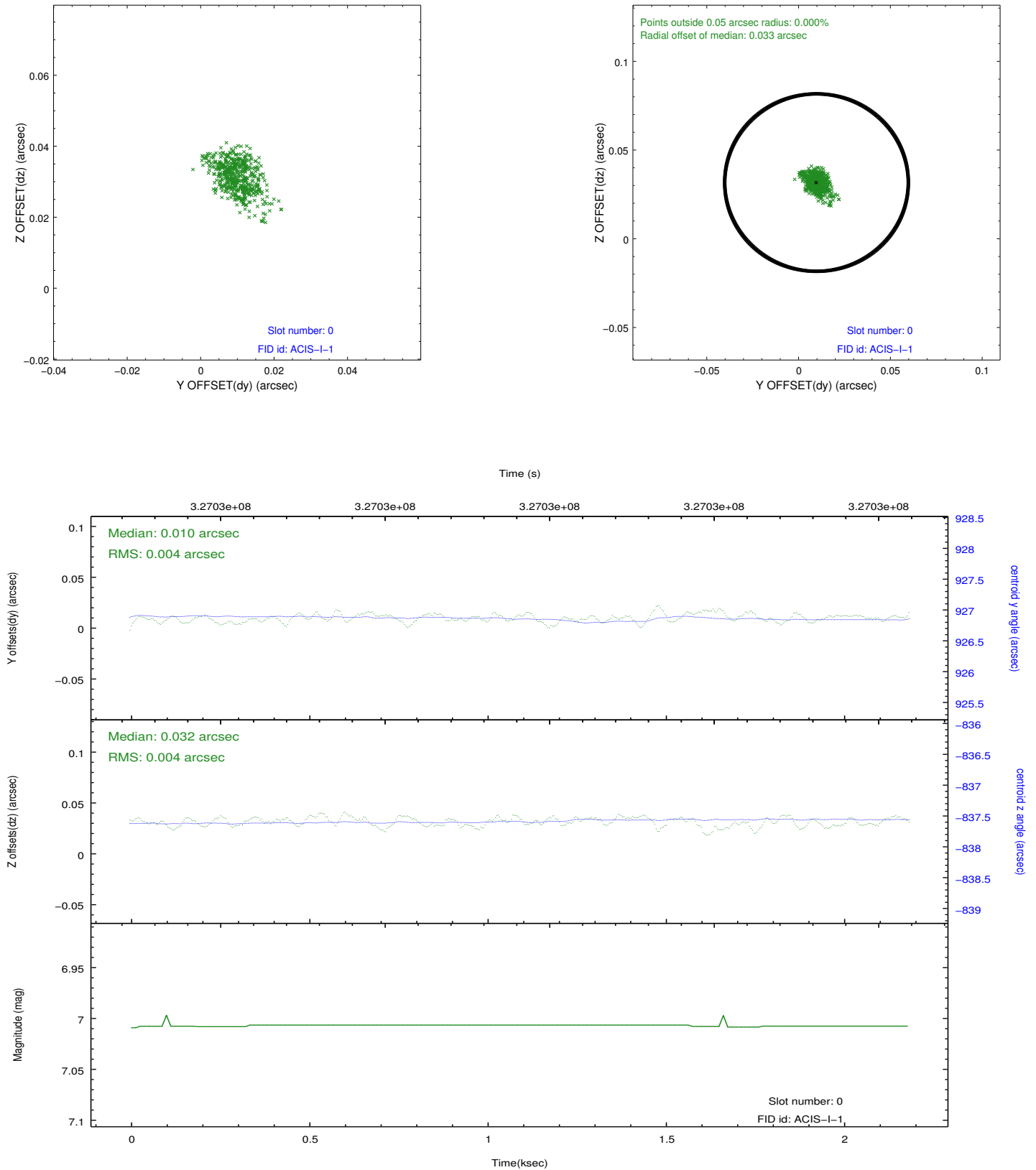


## 2.4.5 Slot 7

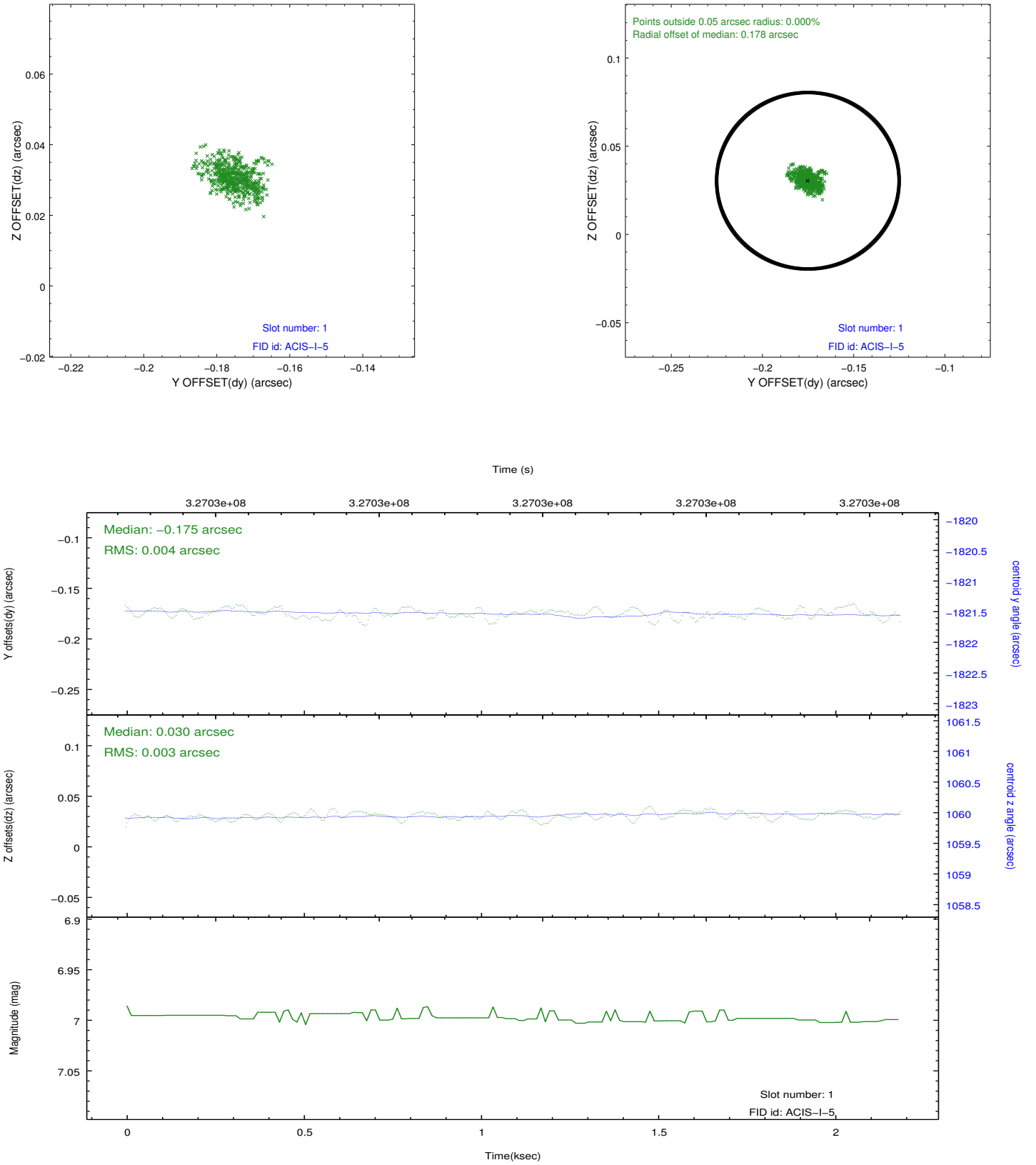


## 2.5 FID Slots

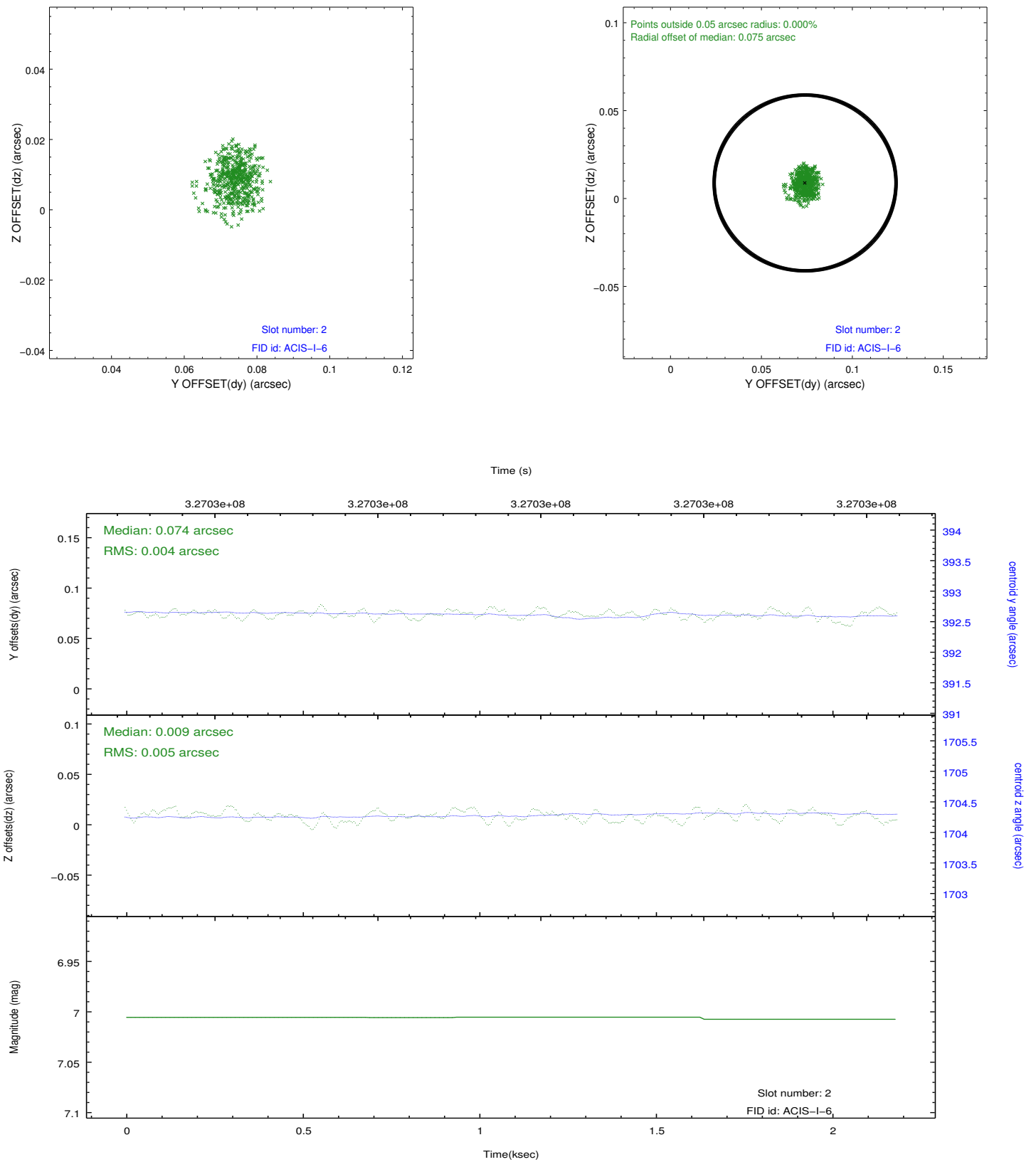
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.05.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18550001

## A.2 Comments

Joint proposal with NOAO.