

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8750 - L2 Version 2  
Chandra X-Ray Center

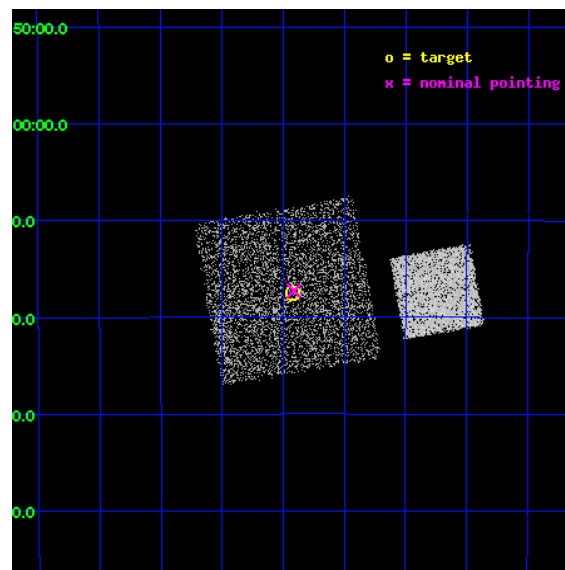
L2 Processing Date : May 14 2012

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# 1 Front

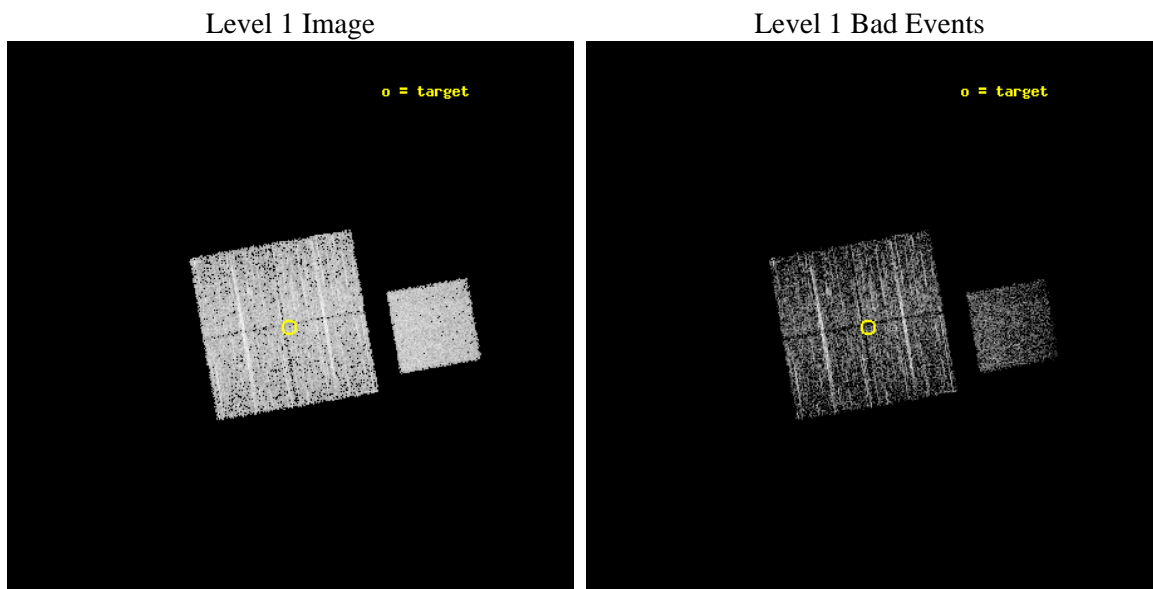
seq_num	400801	Sequence number
obs_id	8750	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.230043	Observer's specified target RA [deg]
dec_targ	-31.292711	Observer's specified target Dec [deg]
ra_nom	266.22810481996	Nominal RA [deg]
dec_nom	-31.287974126448	Nominal Dec [deg]
roll_nom	80.20771080777	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2182.4000167847	Sum of GTIs [s]
livetime	2153.8853539059	Livetime [s]
ontime0	2182.4000167847	Sum of GTIs [s]
ontime1	2182.4000167847	Sum of GTIs [s]
ontime2	2179.2590065598	Sum of GTIs [s]
ontime3	2182.4000167847	Sum of GTIs [s]
ontime7	2182.4000167847	Sum of GTIs [s]
l2events	14966	Number of level 2 events



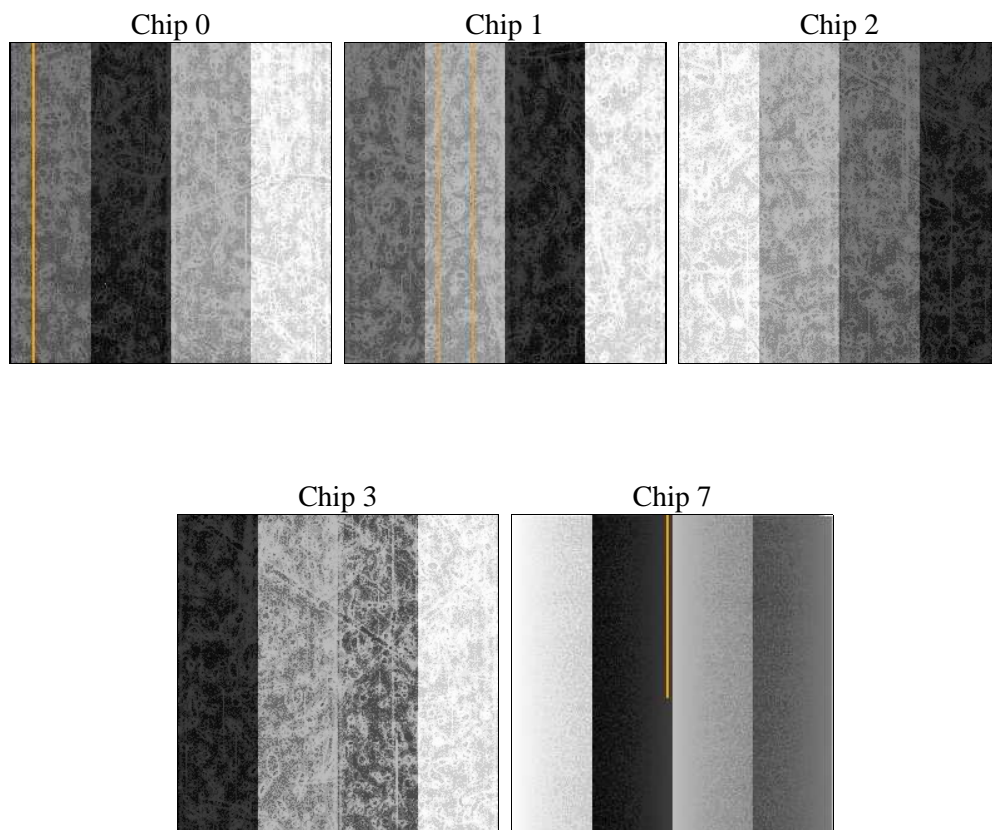
## 2 OBI

### 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	2182.4000167847	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2182.4000167847	Sum of GTIs [s]
date	2012-05-14T23:38:00	Date and time of file creation	ontime1	2182.4000167847	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2179.2590065598	Sum of GTIs [s]
			ontime3	2182.4000167847	Sum of GTIs [s]
			ontime7	2182.4000167847	Sum of GTIs [s]
			l1events	101862	Number of level 1 events

### 2.1.4 Events

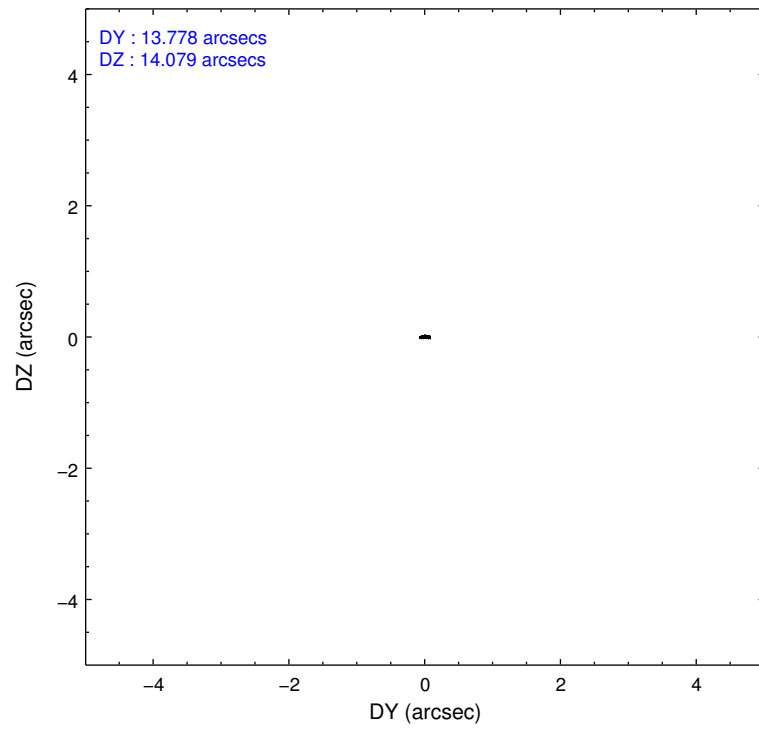
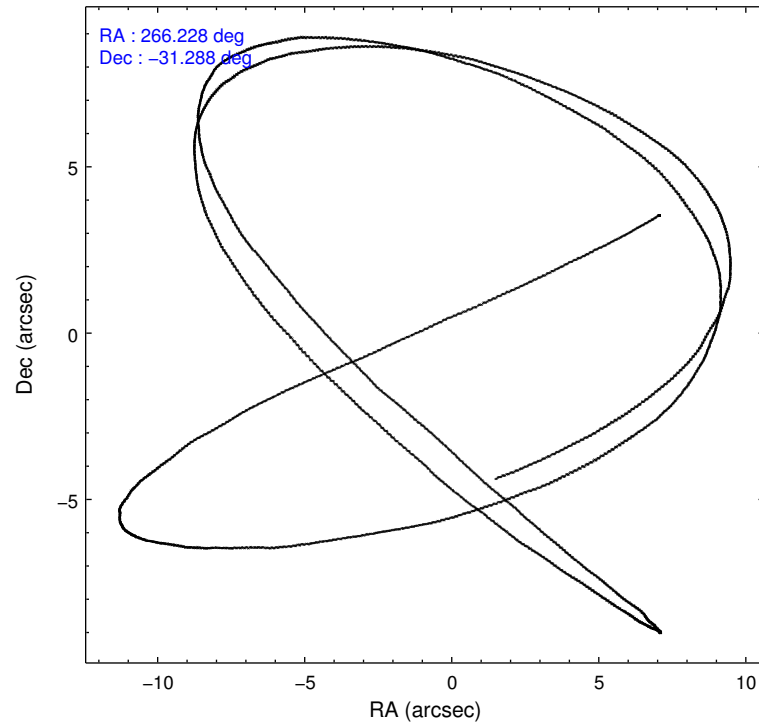
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	19133	19111	21639	19135	22844
rejected events	17258	16979	19773	17384	13956
rejected %	90%	88%	91%	90%	61%

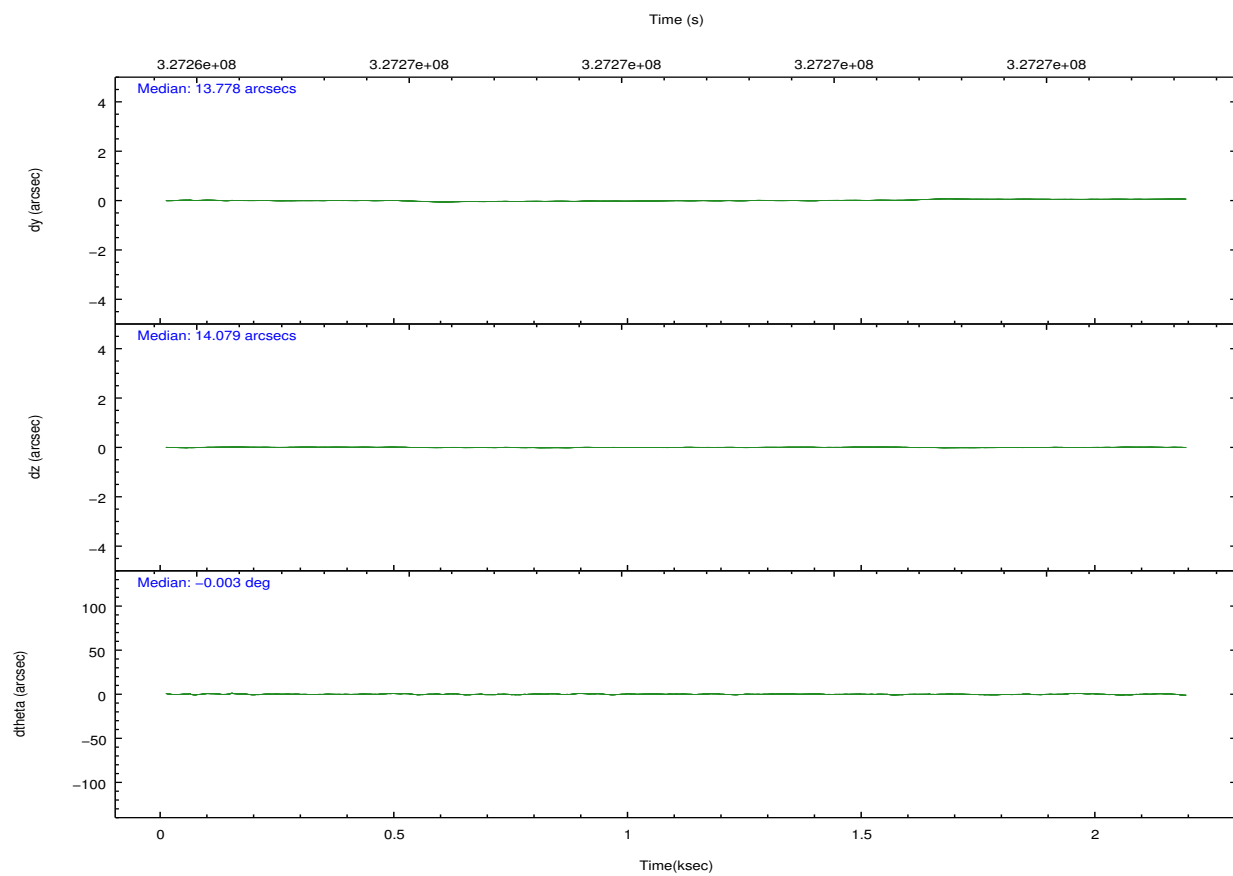
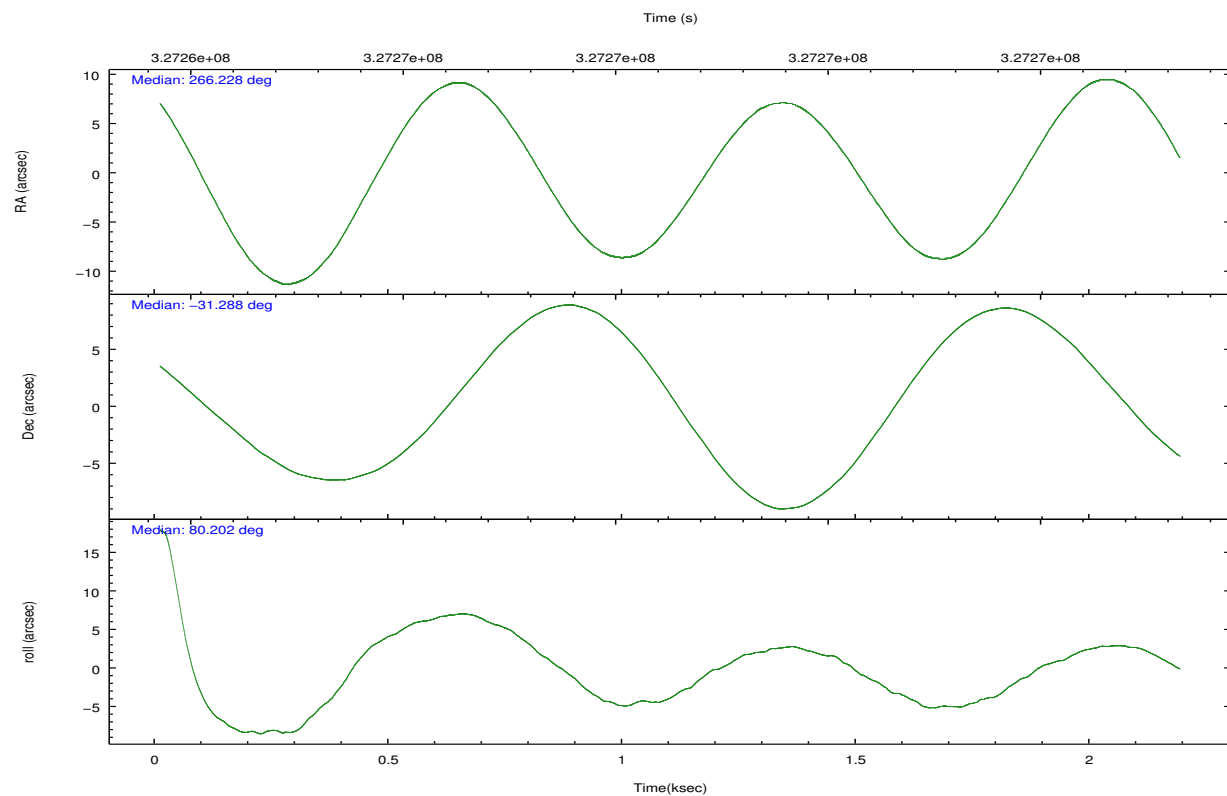
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	832	967	841	796	937
	4%	5%	3%	4%	4%
grade 1 events	9	15	17	12	15
	0%	0%	0%	0%	0%
grade 2 events	512	551	485	410	2075
	2%	2%	2%	2%	9%
grade 3 events	218	241	204	219	913
	1%	1%	0%	1%	3%
grade 4 events	210	244	234	192	887
	1%	1%	1%	1%	3%
grade 5 events	723	767	675	828	2331
	3%	4%	3%	4%	10%
grade 6 events	398	461	383	408	5424
	2%	2%	1%	2%	23%
grade 7 events	16231	15865	18800	16270	10262
	84%	83%	86%	85%	44%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	266.239375	266.2281048199598	CCD I2 on	Y	Y
[deg] Pointing Dec	-31.313745	-31.28797412644808	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004855	80.20771080777007	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	327265219.184000	327264843.57304	CCD S5 on	N	N
Observation start date	2008-05-15T18:59:14	2008-05-15T18:54:03	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327267219.184000	327267353.28566	On-chip summing requested	N	N
Observation end date	2008-05-15T19:32:34	2008-05-15T19:35:53	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





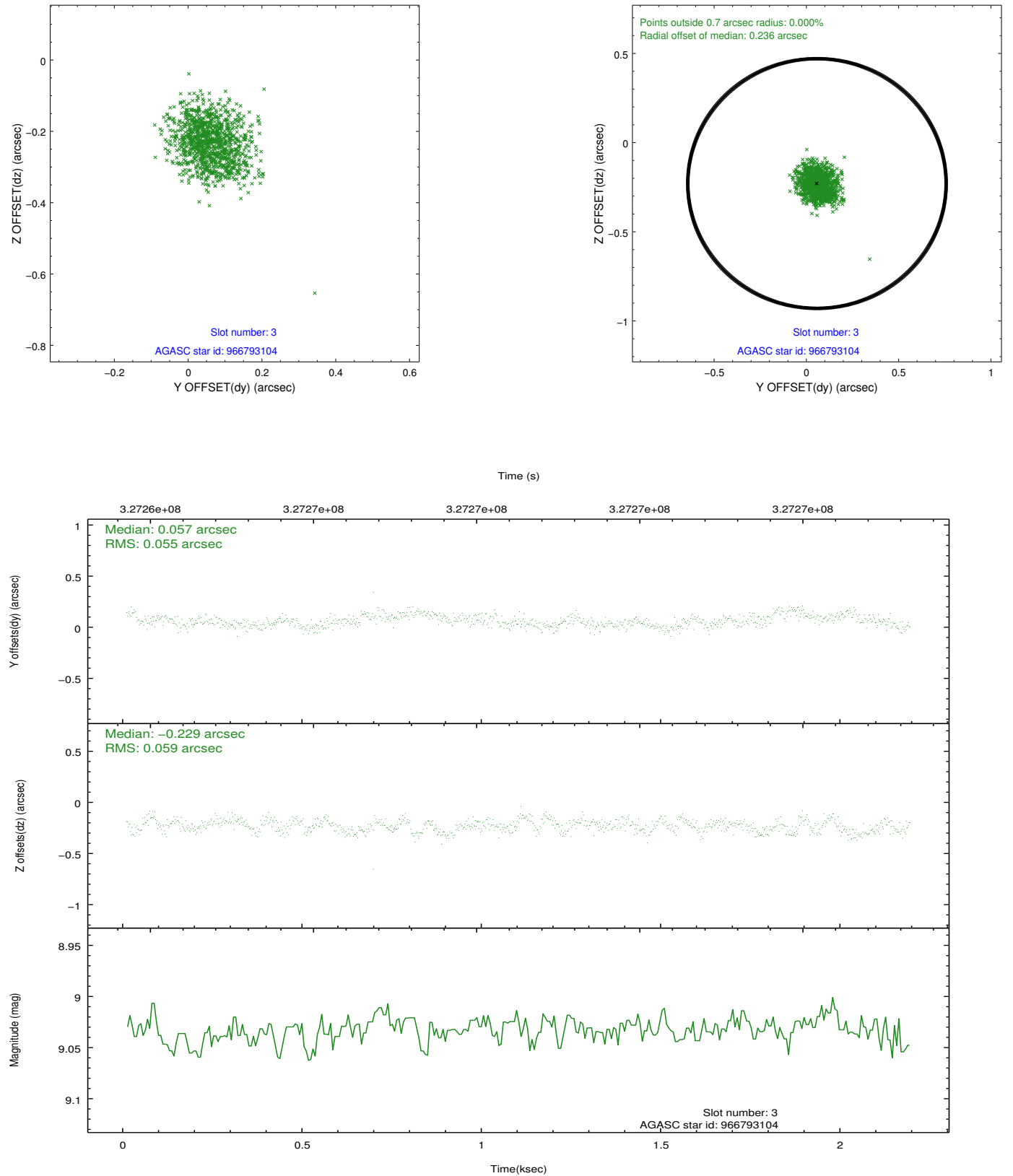
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.04	533	0.018	0.036	0.006	0.010	0.000000	0.000000	925.74	-837.60
1	FID	ACIS-I-5	7.02	533	-0.197	0.034	0.006	0.011	0.000000	0.000000	-1820.96	1058.35
2	FID	ACIS-I-6	7.04	533	0.088	0.001	0.006	0.011	0.000000	0.000000	388.07	1706.23
3	GUIDE	966793104	9.03	1064	0.057	-0.229	0.086	0.133	265.489379	-31.350728	-539.29	2246.11
4	GUIDE	966919304	8.43	1065	-0.115	-0.187	0.059	0.099	265.660763	-30.717261	1798.78	2137.60
5	GUIDE	966924408	8.95	1063	-0.069	0.178	0.082	0.132	266.982893	-30.897884	1867.50	-2001.15
6	GUIDE	966925512	8.27	1066	-0.073	0.150	0.065	0.106	266.373606	-31.056700	984.71	-248.75
7	GUIDE	967450832	9.10	1065	0.205	0.093	0.080	0.126	266.078096	-31.879979	-2092.11	131.30

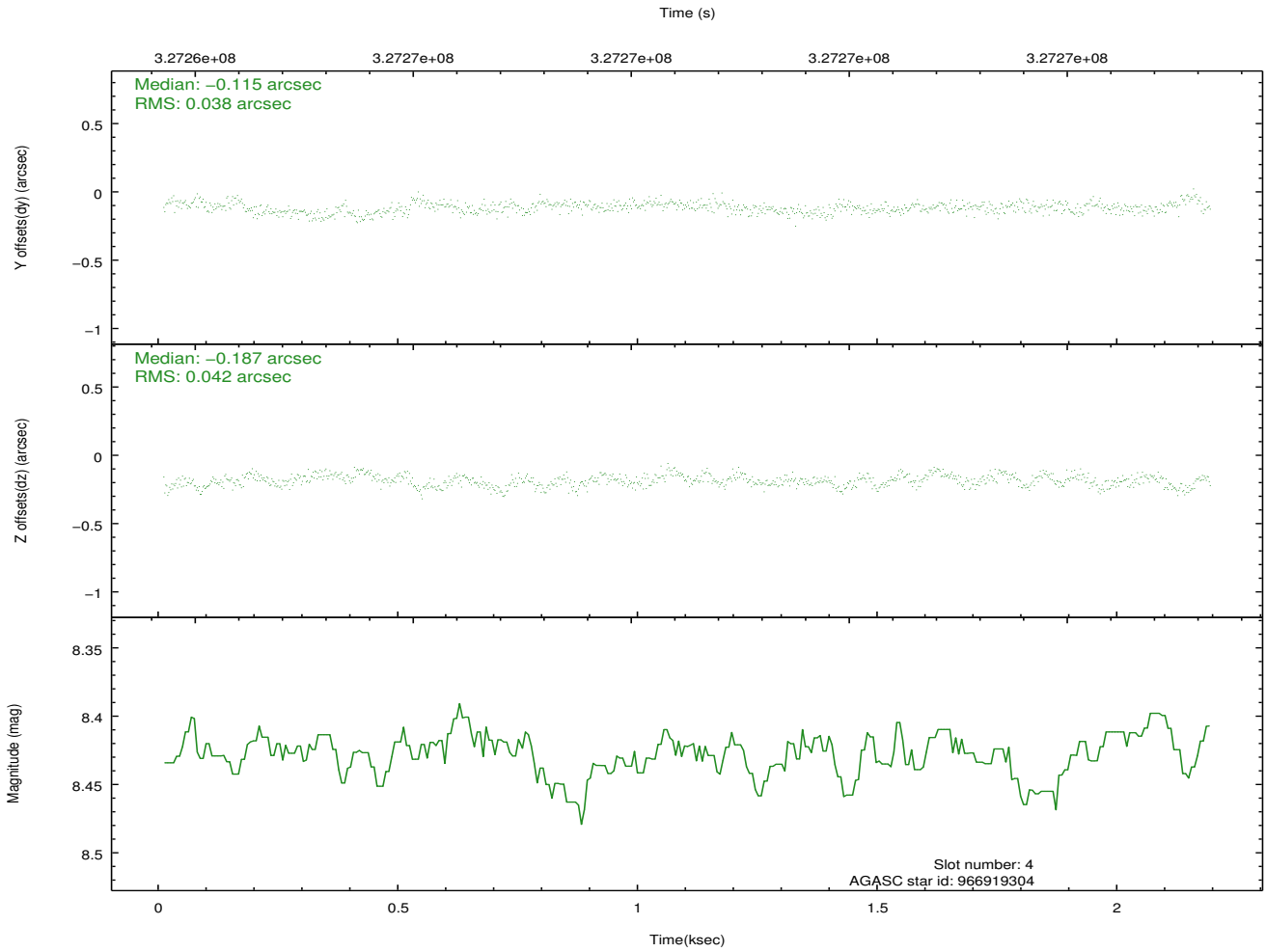
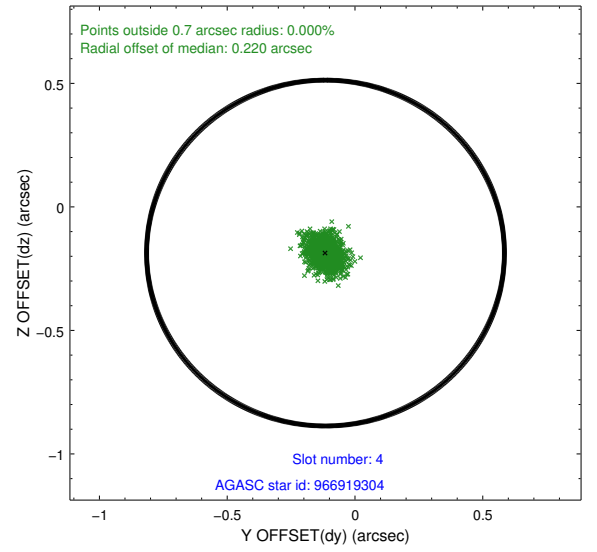
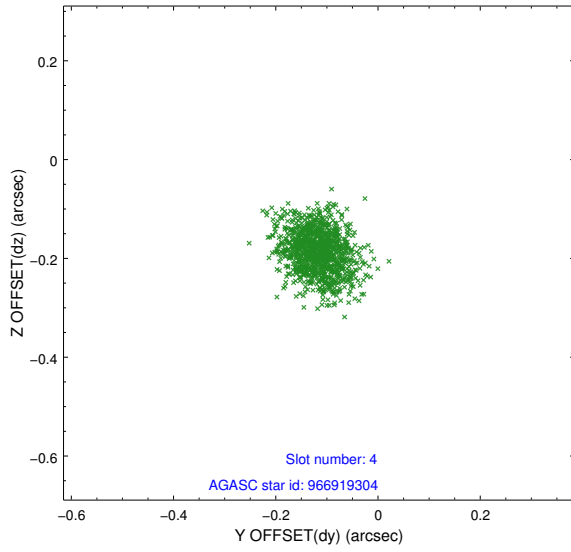


## 2.4 Star Slots

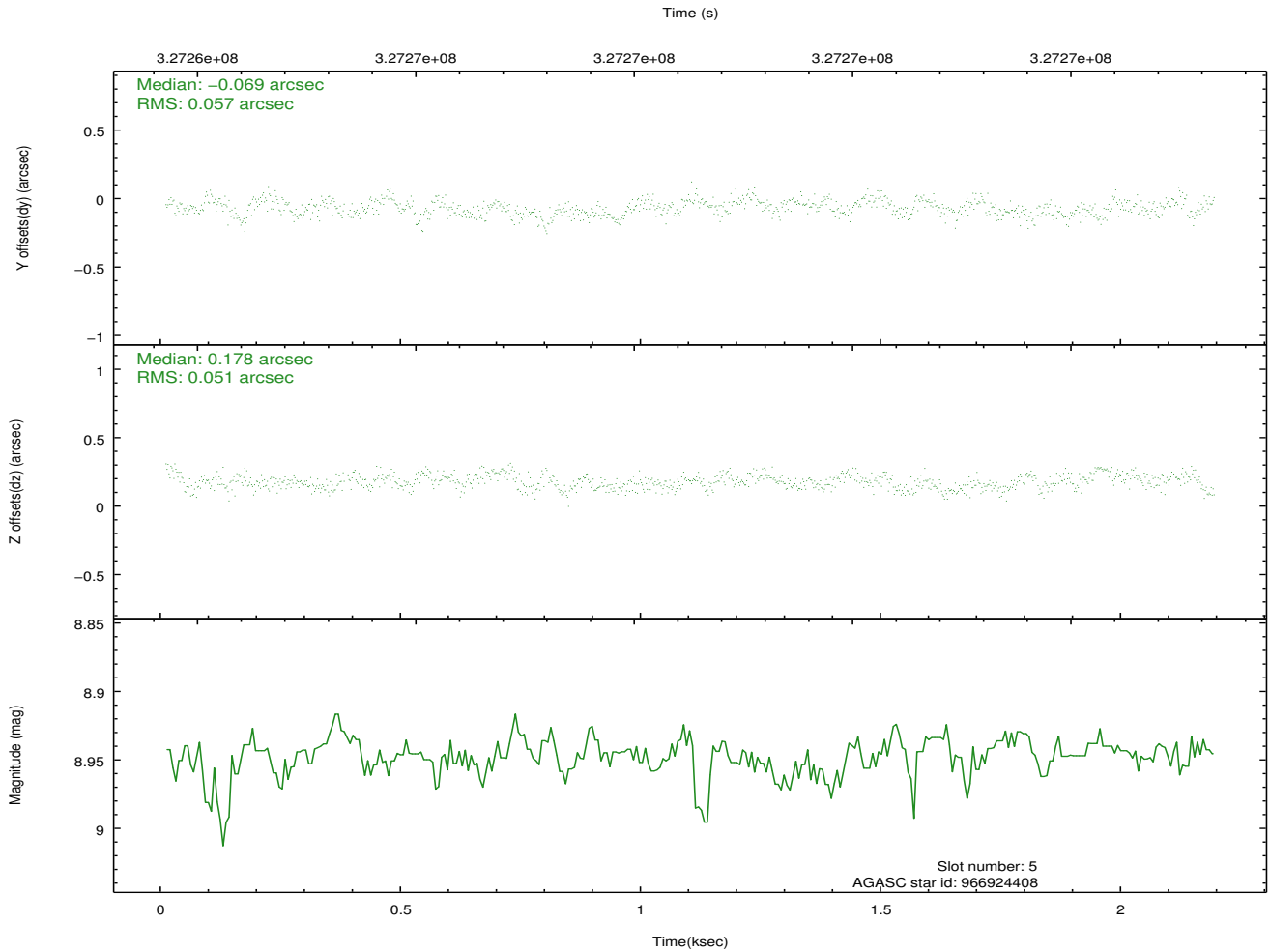
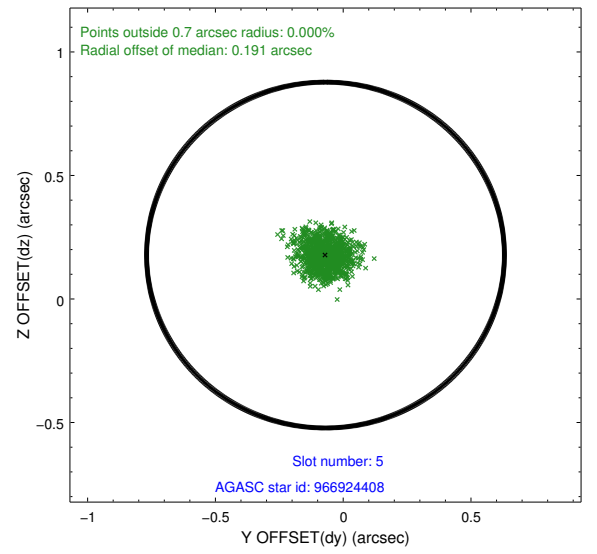
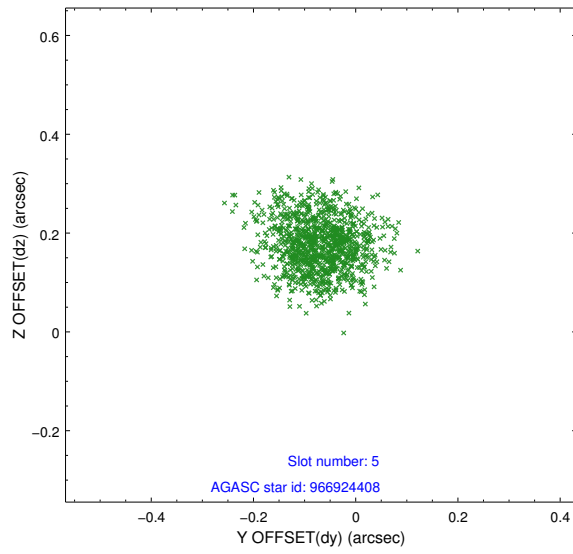
### 2.4.1 Slot 3



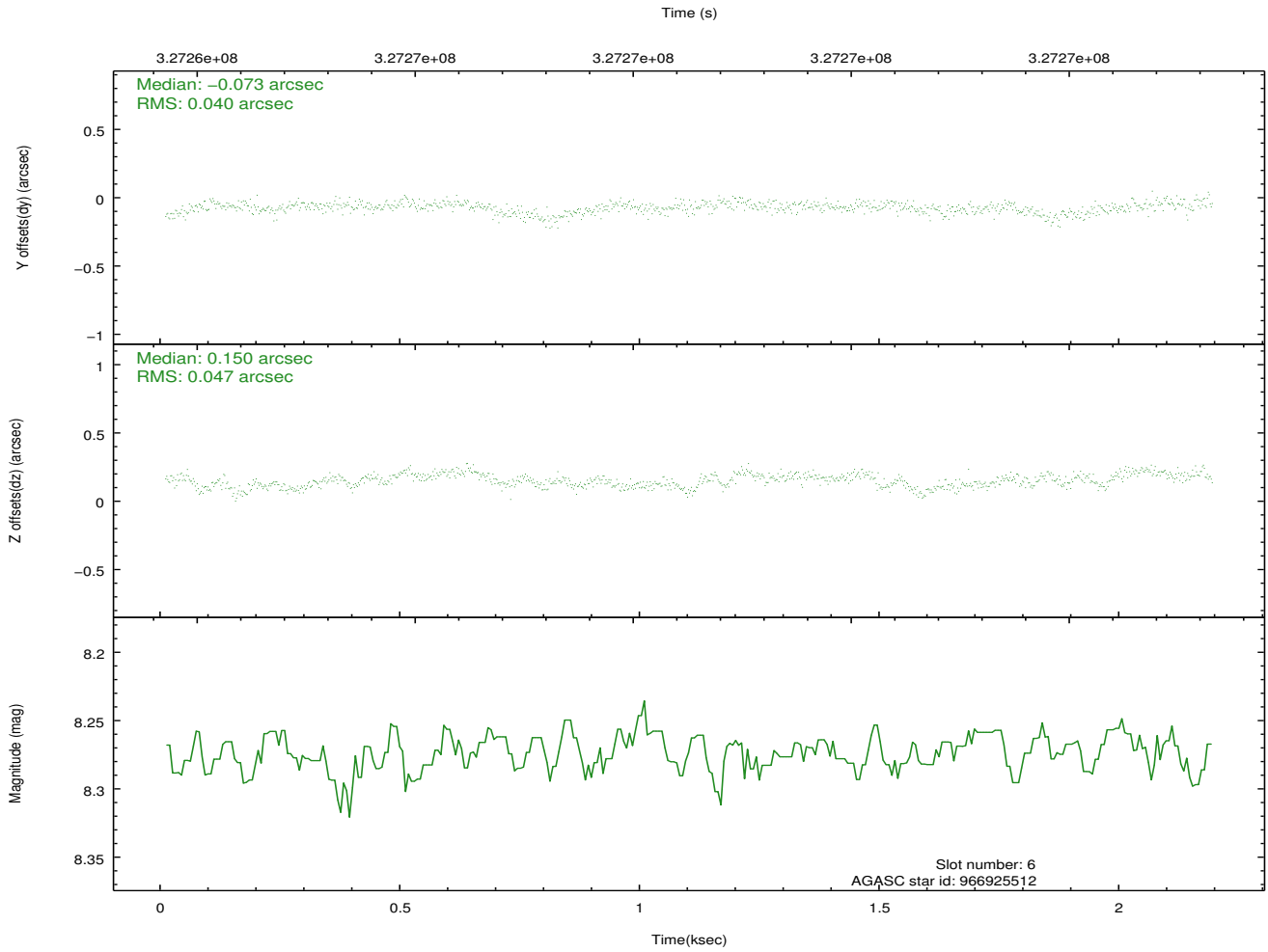
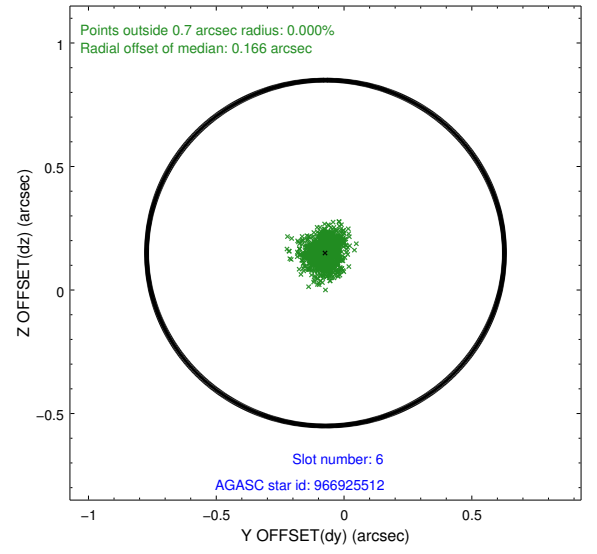
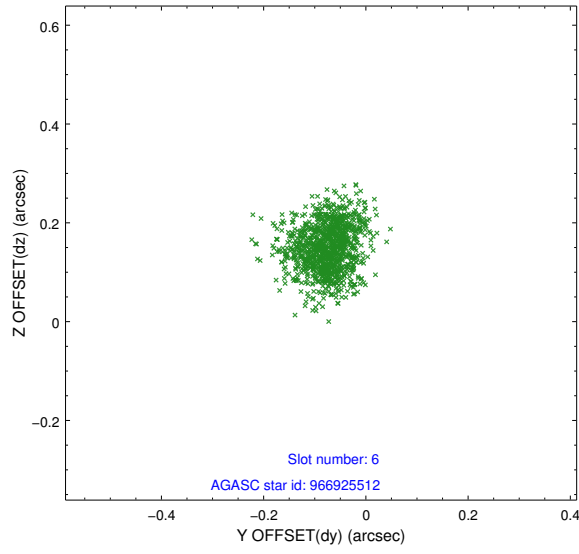
## 2.4.2 Slot 4



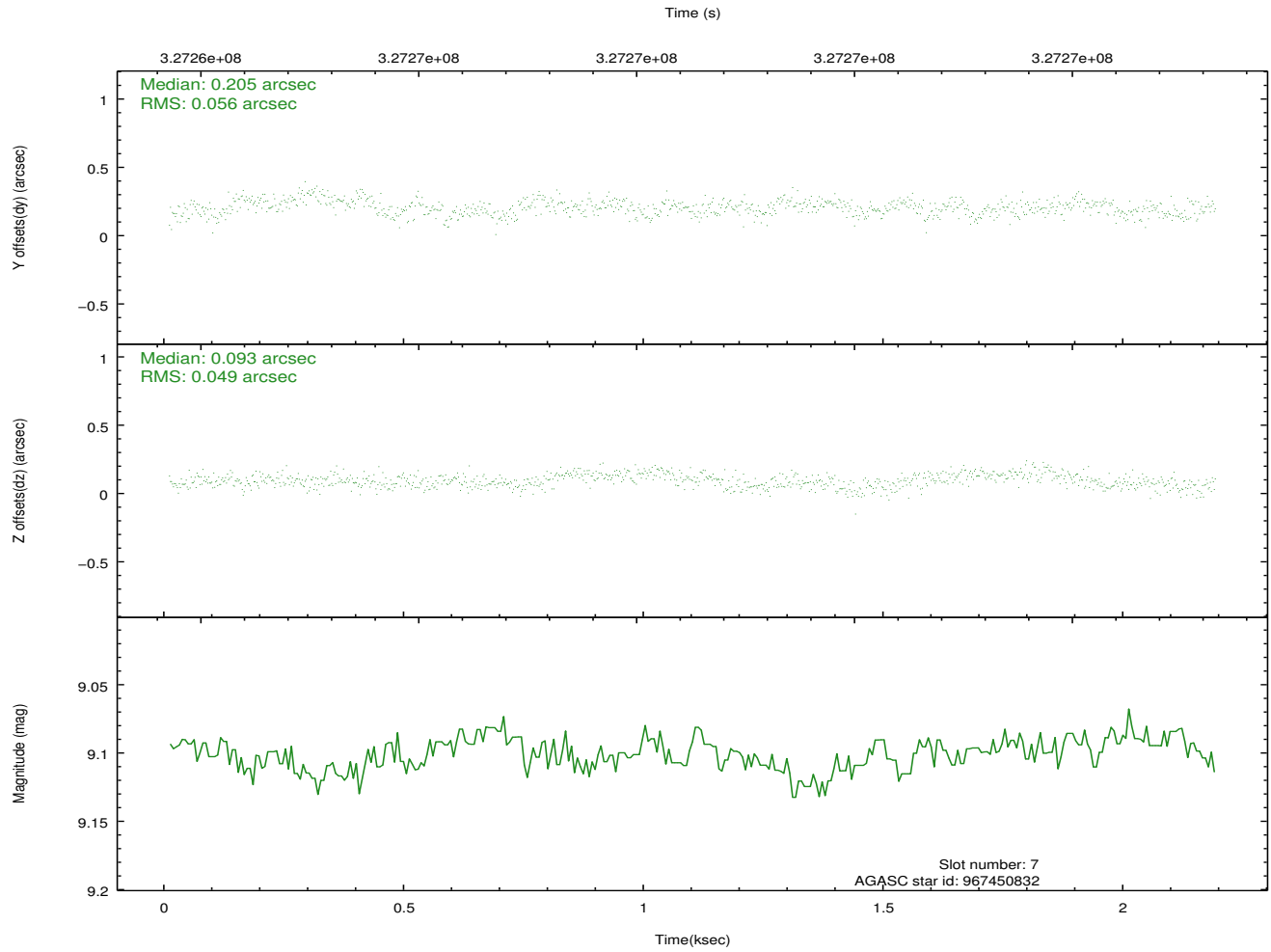
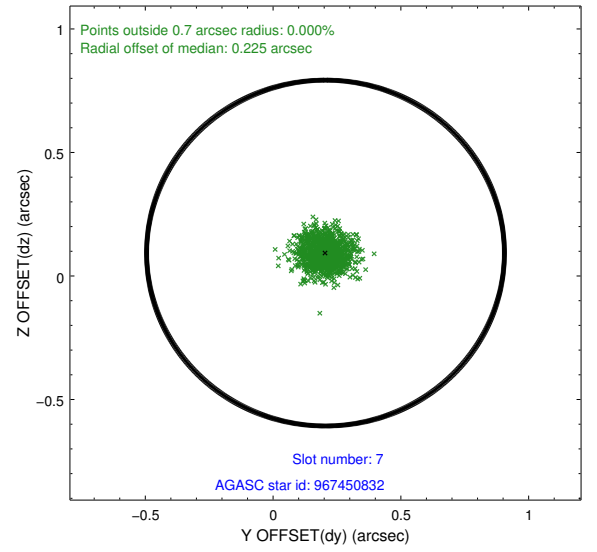
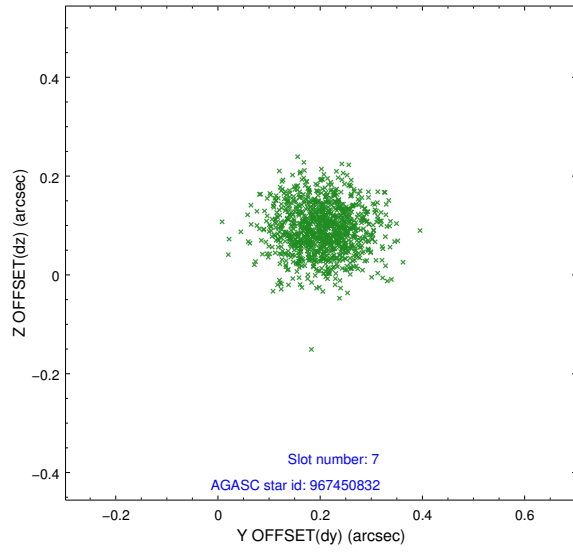
### 2.4.3 Slot 5



## 2.4.4 Slot 6

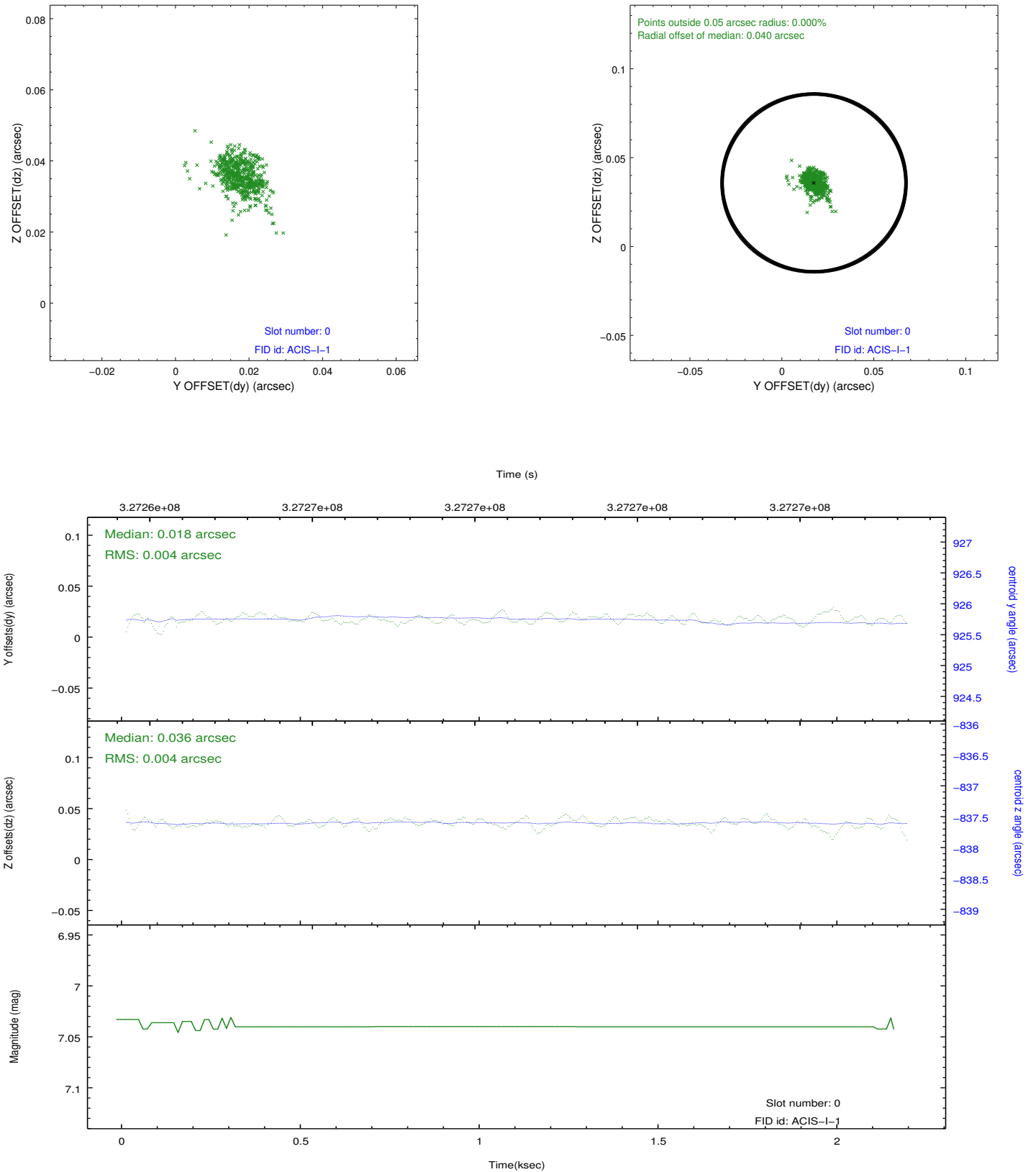


## 2.4.5 Slot 7

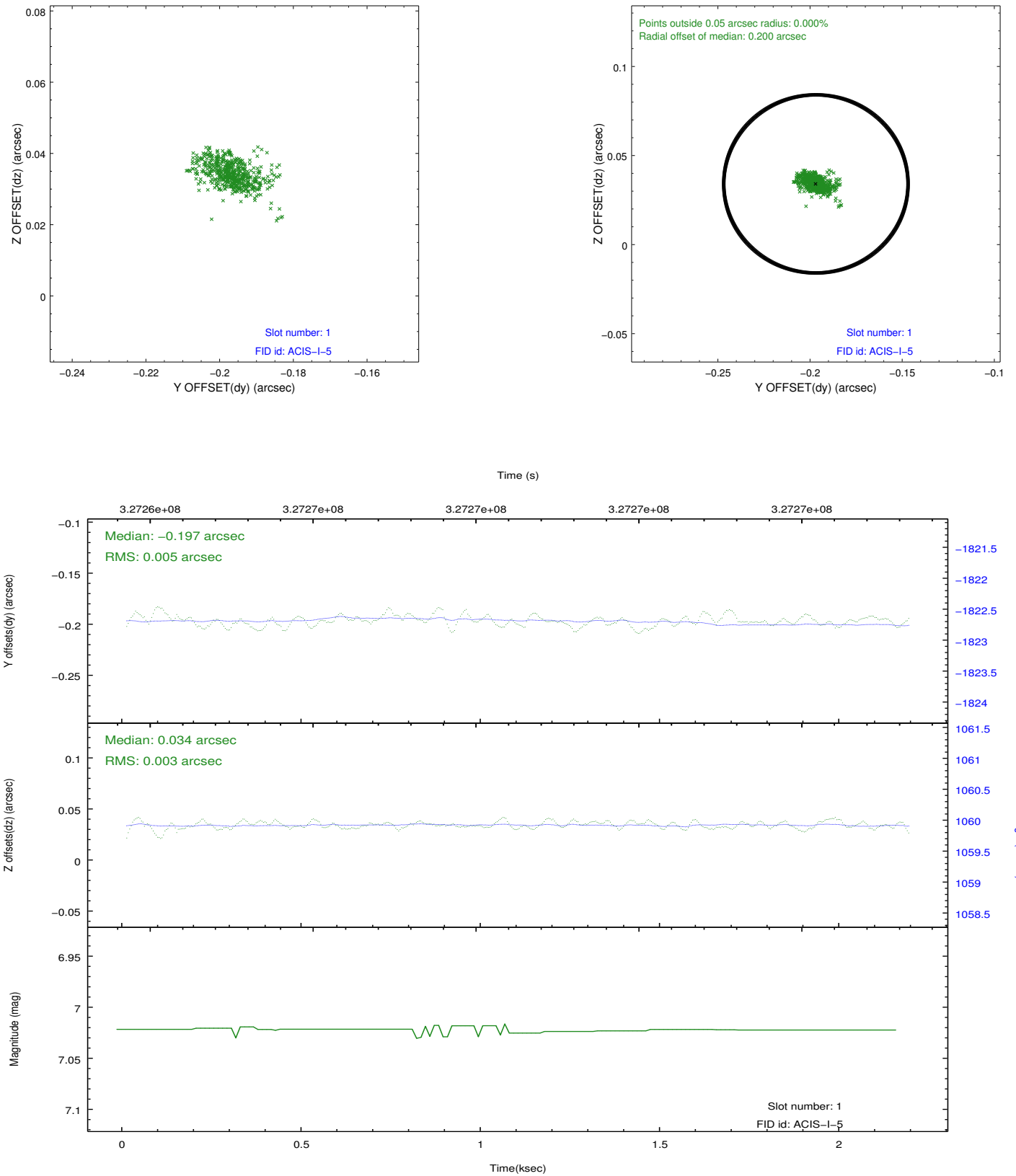


## 2.5 FID Slots

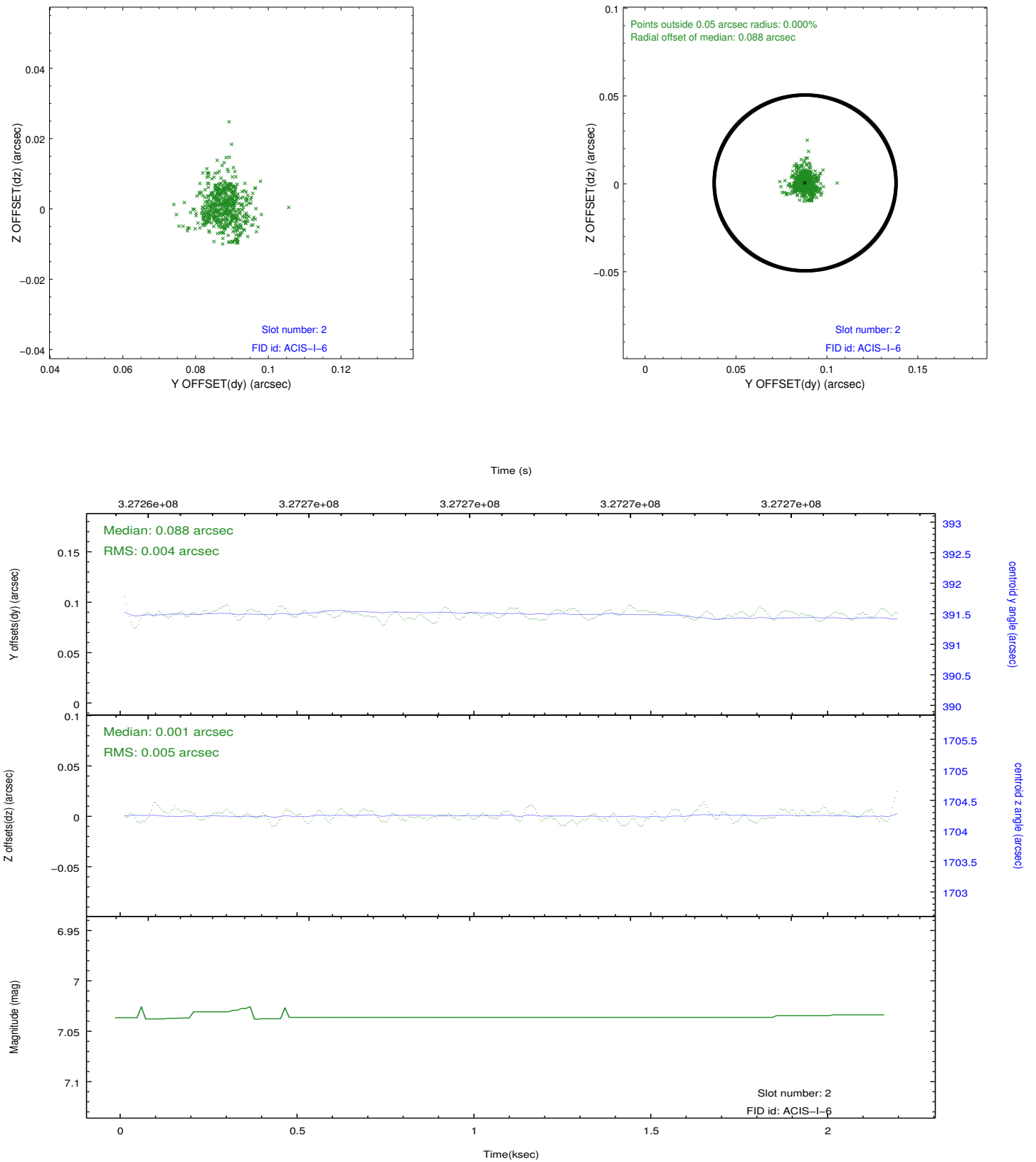
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.05.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18240001

## A.2 Comments

Joint proposal with NOAO.