

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8772 - L2 Version 2  
Chandra X-Ray Center

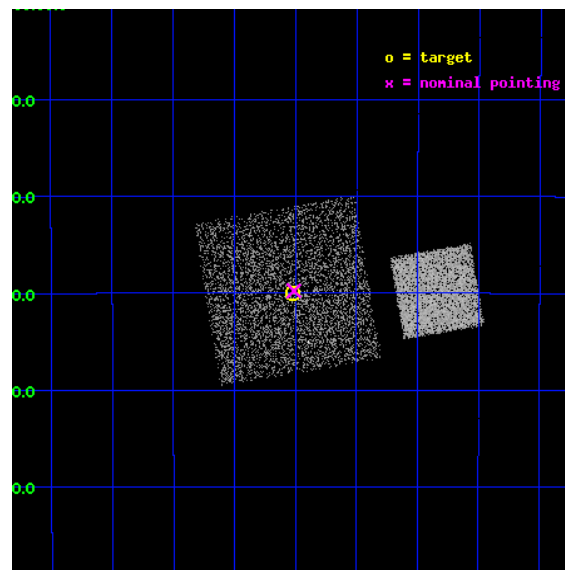
L2 Processing Date : May 14 2012

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# 1 Front

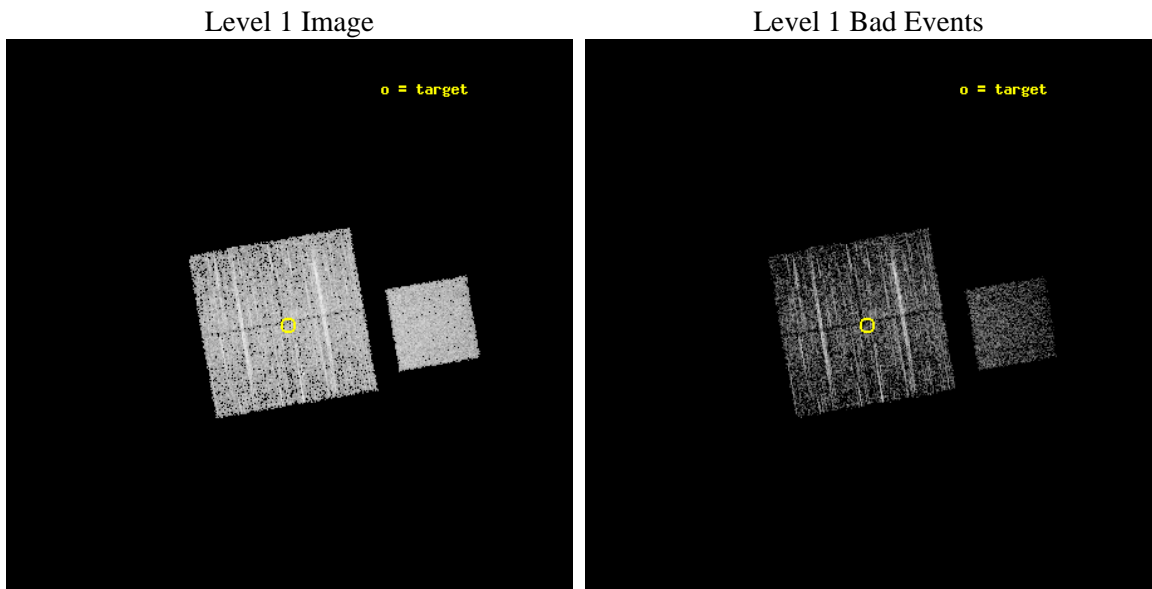
seq_num	400823	Sequence number
obs_id	8772	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.630179	Observer's specified target RA [deg]
dec_targ	-31.500906	Observer's specified target Dec [deg]
ra_nom	266.62813616069	Nominal RA [deg]
dec_nom	-31.496143818571	Nominal Dec [deg]
roll_nom	80.207641746165	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	2185.5000168085	Sum of GTIs [s]
ontime2	2182.3590065837	Sum of GTIs [s]
ontime3	2185.5000168085	Sum of GTIs [s]
ontime7	2185.5000168085	Sum of GTIs [s]
l2events	15335	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	2012-05-14T21:10:21	Date and time of file creation	ontime1	2185.5000168085	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2182.3590065837	Sum of GTIs [s]
			ontime3	2185.5000168085	Sum of GTIs [s]
			ontime7	2185.5000168085	Sum of GTIs [s]
			l1events	102001	Number of level 1 events

### 2.1.4 Events

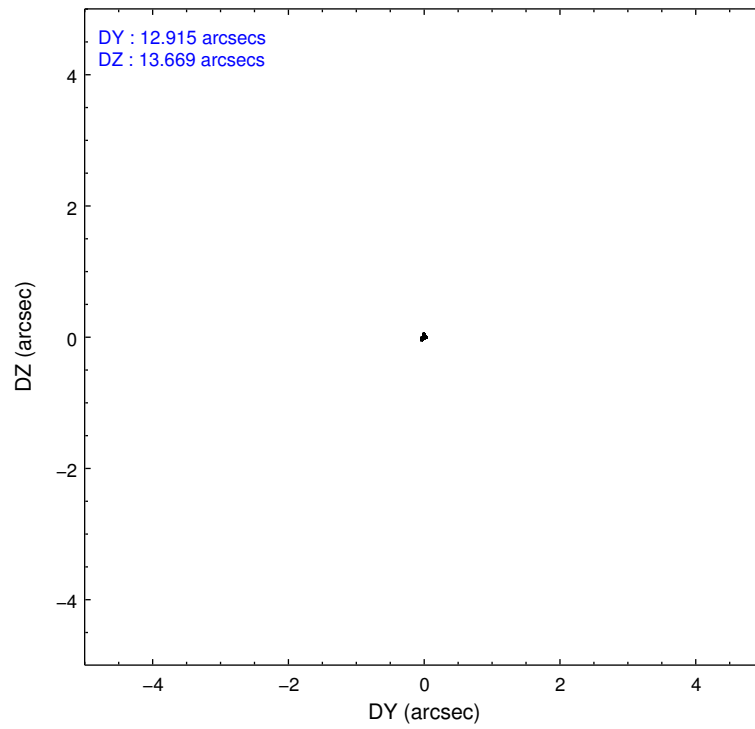
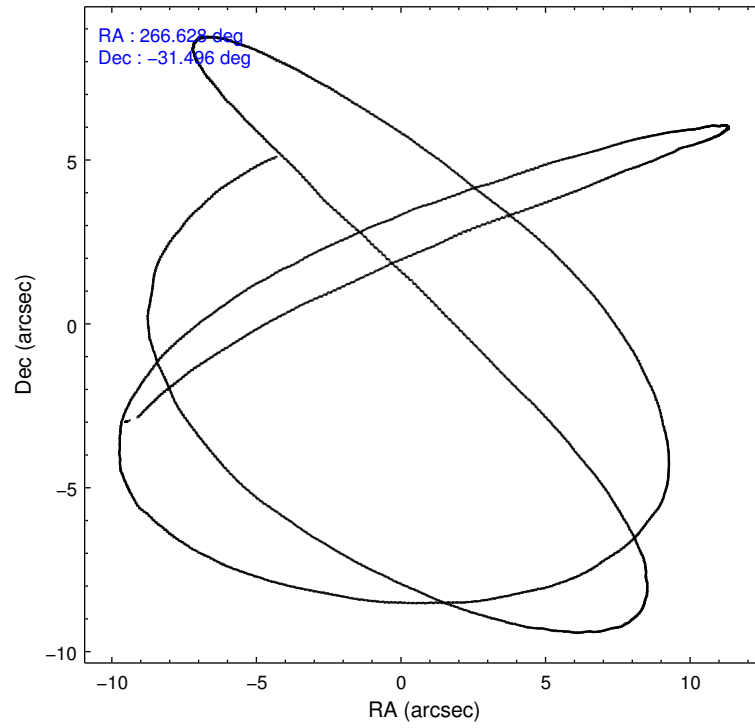
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	18728	18567	21725	20487	22494
rejected events	16818	16513	19877	18432	13437
rejected %	89%	88%	91%	89%	59%

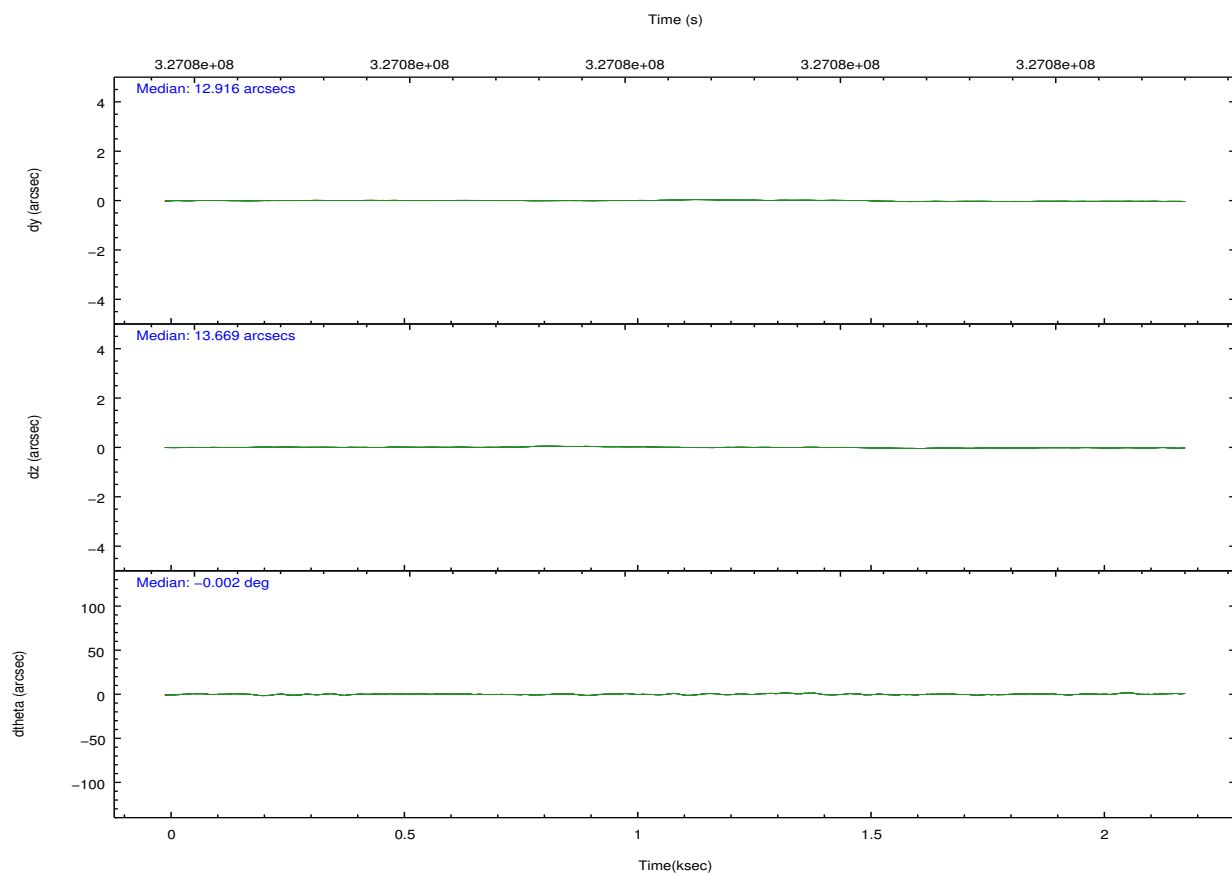
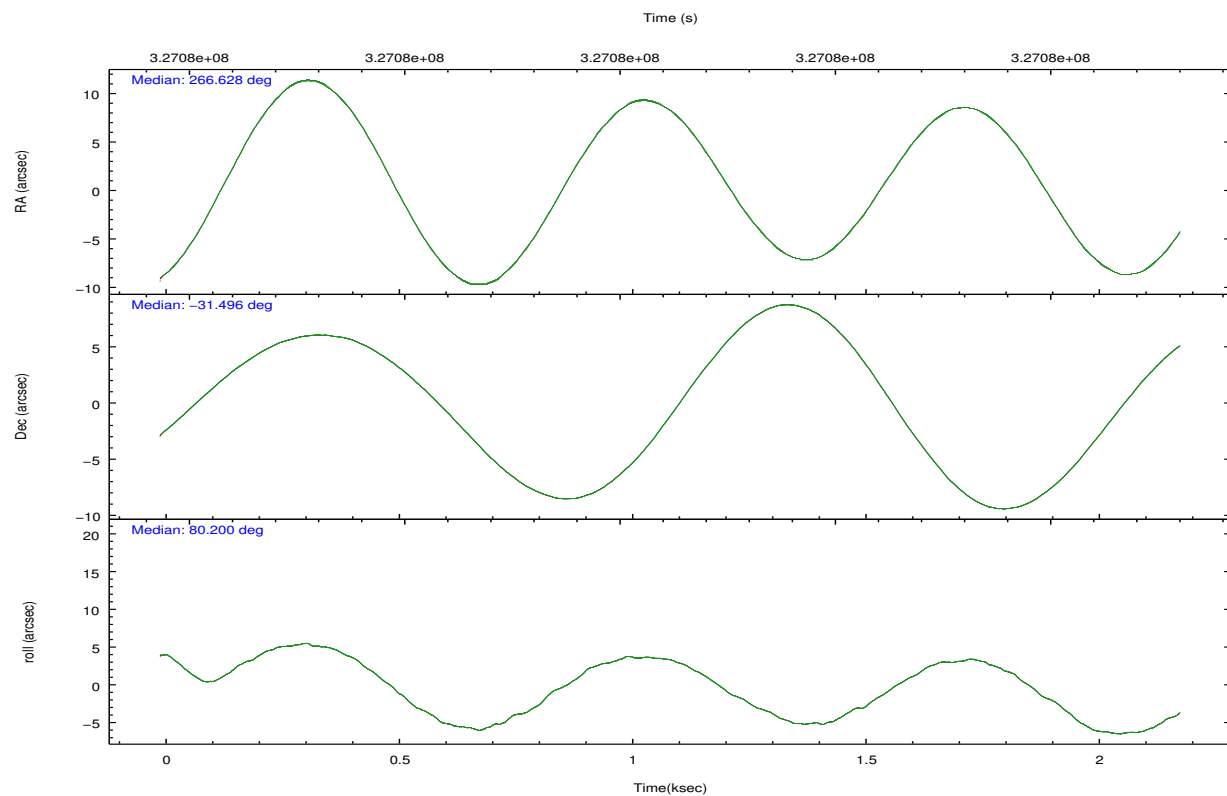
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	798	915	856	968	955
	4%	4%	3%	4%	4%
grade 1 events	10	16	14	9	36
	0%	0%	0%	0%	0%
grade 2 events	478	521	517	490	2046
	2%	2%	2%	2%	9%
grade 3 events	262	283	191	232	986
	1%	1%	0%	1%	4%
grade 4 events	213	237	202	208	944
	1%	1%	0%	1%	4%
grade 5 events	730	767	688	784	2377
	3%	4%	3%	3%	10%
grade 6 events	389	401	345	417	5405
	2%	2%	1%	2%	24%
grade 7 events	15848	15427	18912	17379	9745
	84%	83%	87%	84%	43%

## 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	266.639520	266.6281361606866	CCD I2 on	Y	Y
[deg] Pointing Dec	-31.521938	-31.49614381857062	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004883	80.20764174616482	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)	327078702.184000	327078325.85145	CCD S5 on	N	N
Observation start date	2008-05-13T15:10:37	2008-05-13T15:05:25	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327080702.184000	327080835.56407	On-chip summing requested	N	N
Observation end date	2008-05-13T15:43:57	2008-05-13T15:47:15	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





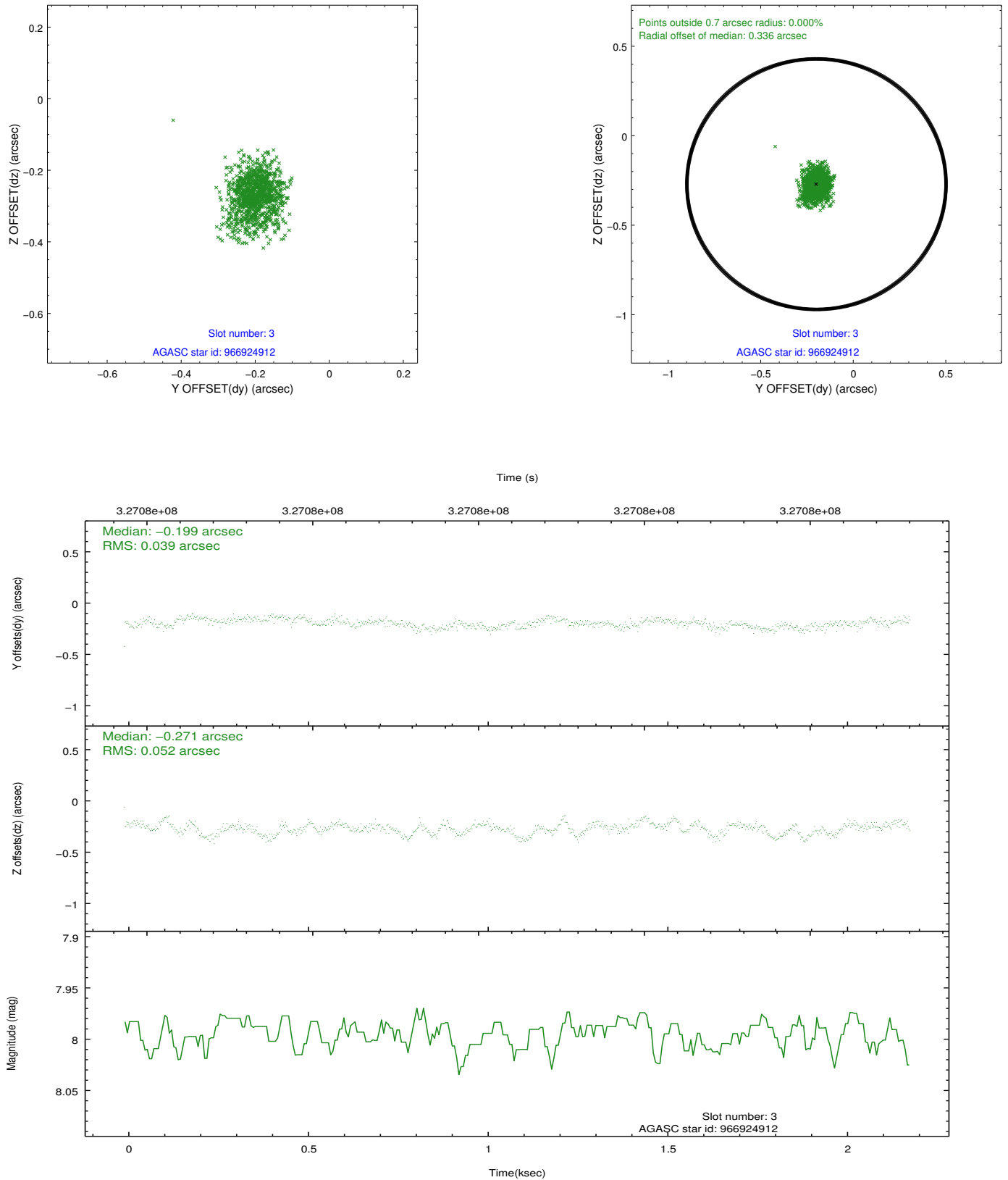
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.05	534	-0.030	0.050	0.009	0.017	0.000000	0.000000	926.58	-837.18
1	FID	ACIS-I-4	6.99	534	0.153	0.005	0.009	0.014	0.000000	0.000000	2148.46	1061.09
2	FID	ACIS-I-5	7.03	533	-0.220	0.017	0.007	0.012	0.000000	0.000000	-1817.78	1062.34
3	GUIDE	966924912	7.99	1067	-0.199	-0.271	0.068	0.112	266.020014	-31.275150	538.65	2030.02
4	GUIDE	966927000	8.17	1067	-0.039	0.207	0.073	0.116	267.318997	-31.255021	1303.91	-1891.71
5	GUIDE	967450832	9.12	1066	0.228	0.005	0.085	0.133	266.078096	-31.879979	-1570.10	1463.53
6	GUIDE	966925512	8.27	1067	-0.144	-0.209	0.065	0.106	266.373606	-31.056700	1504.53	1099.31
7	GUIDE	967451816	9.26	1065	0.150	0.273	0.121	0.206	267.266669	-31.901374	-1016.28	-2124.93

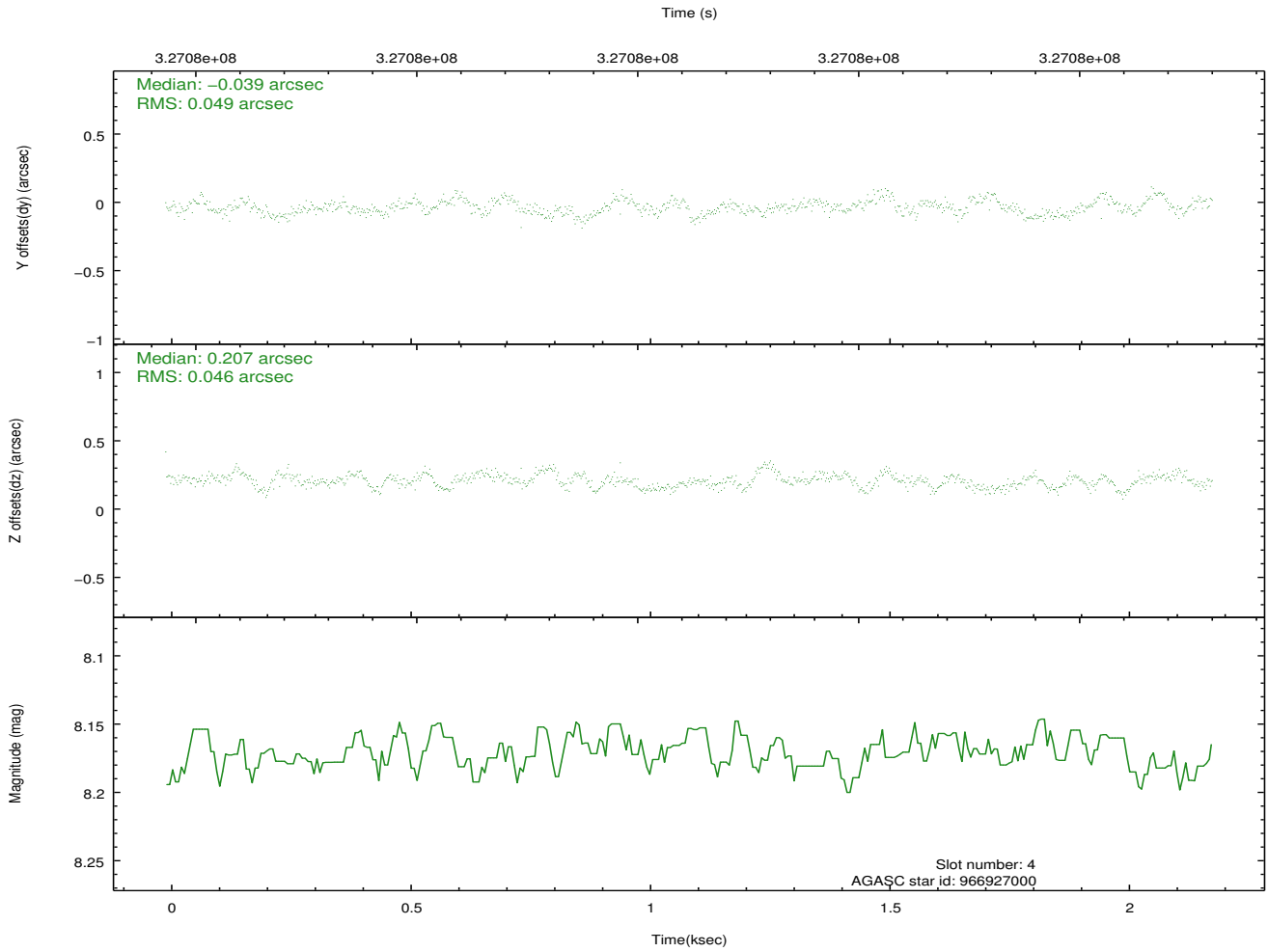
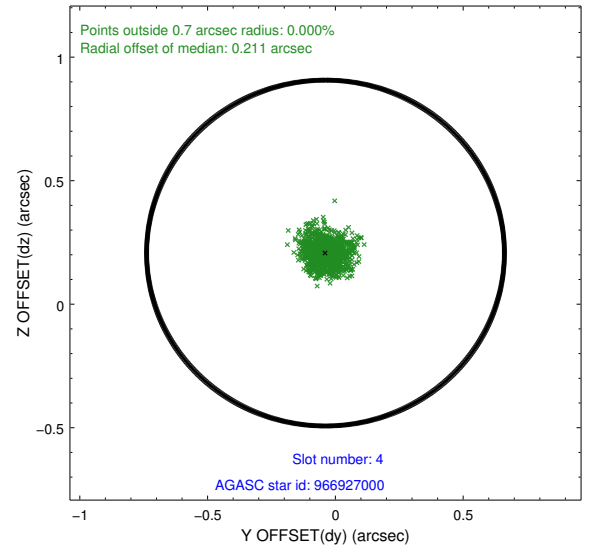
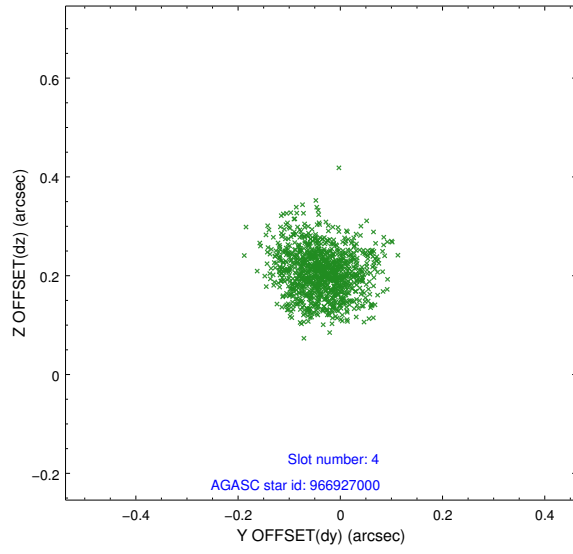


## 2.4 Star Slots

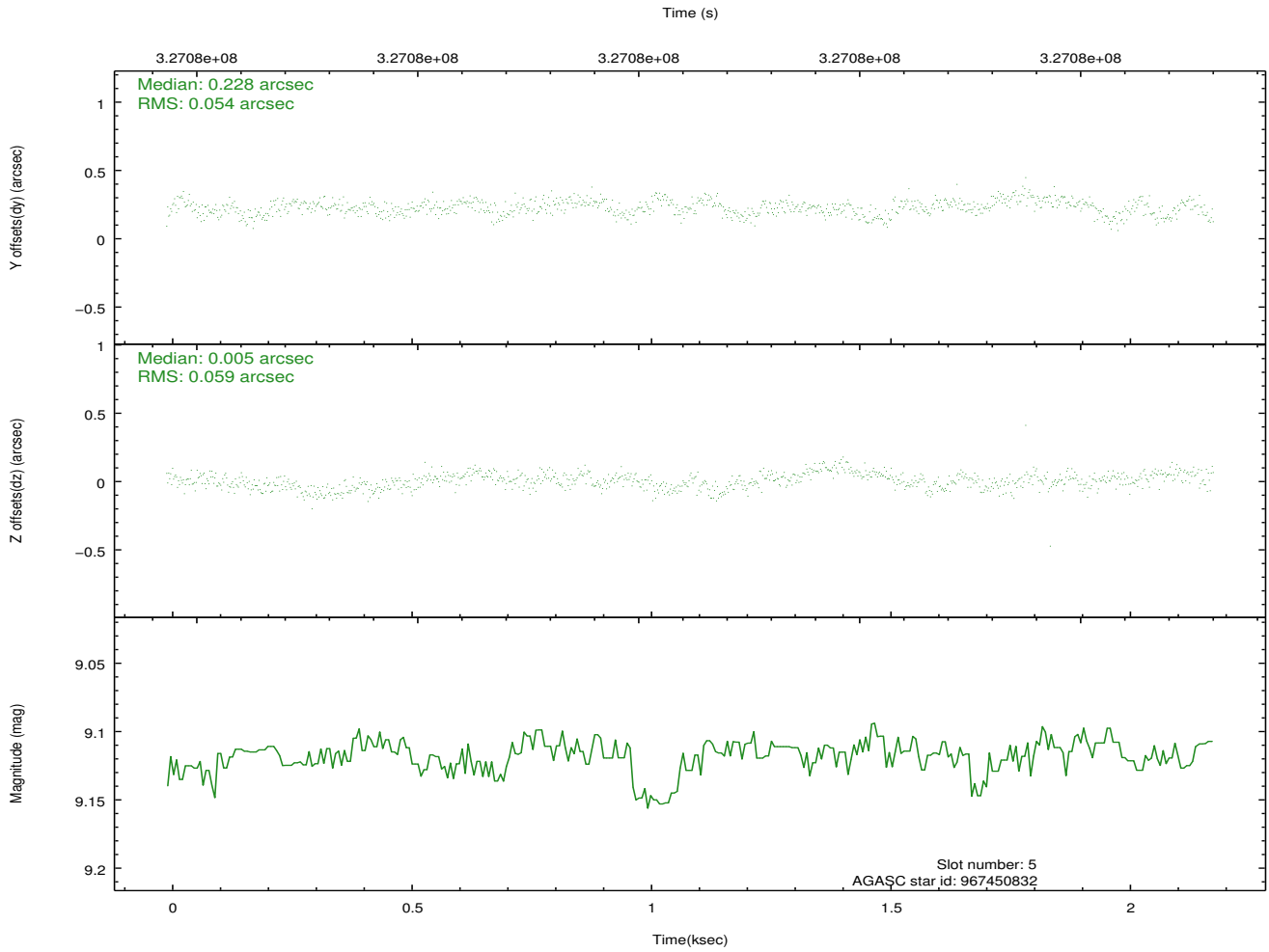
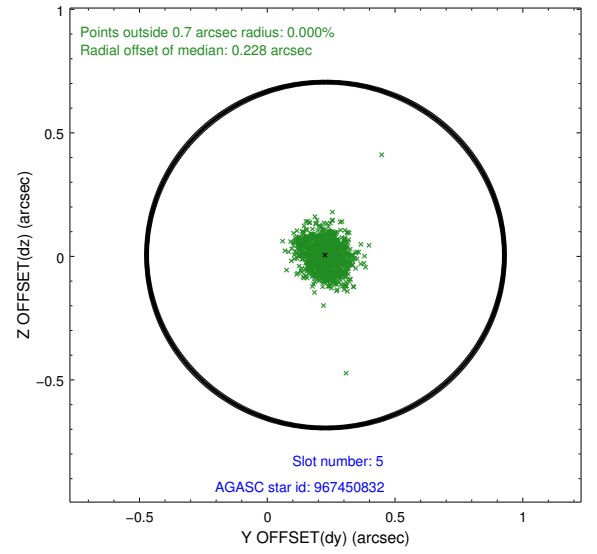
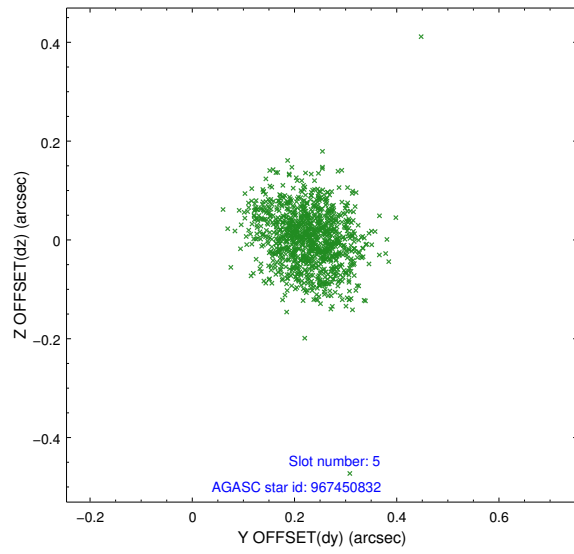
### 2.4.1 Slot 3



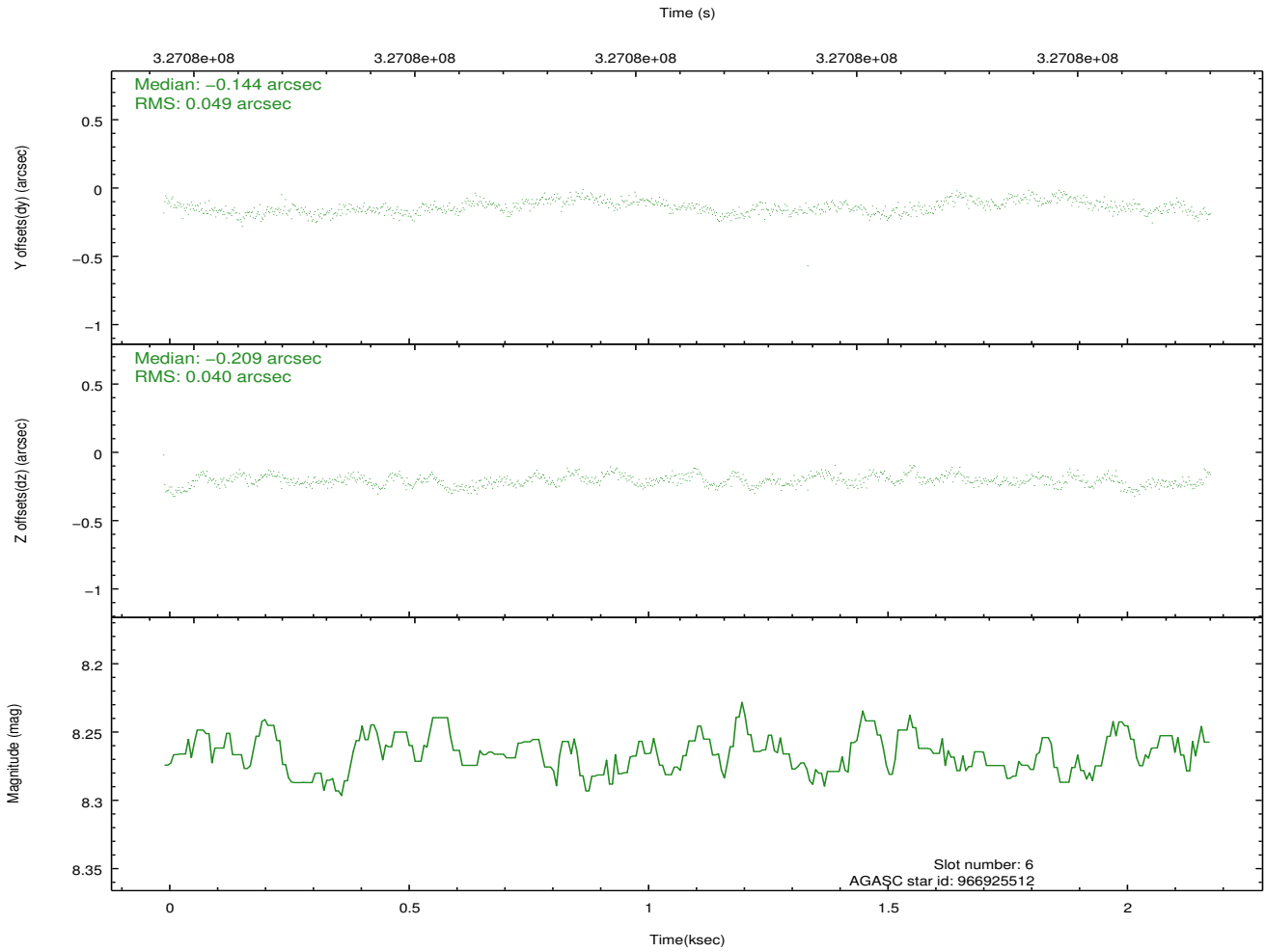
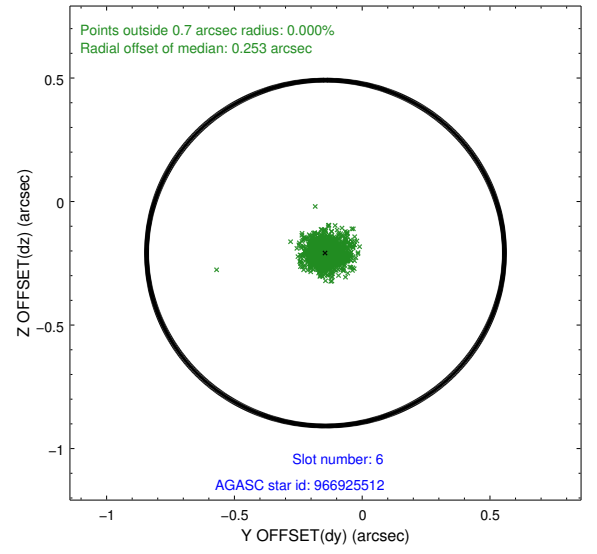
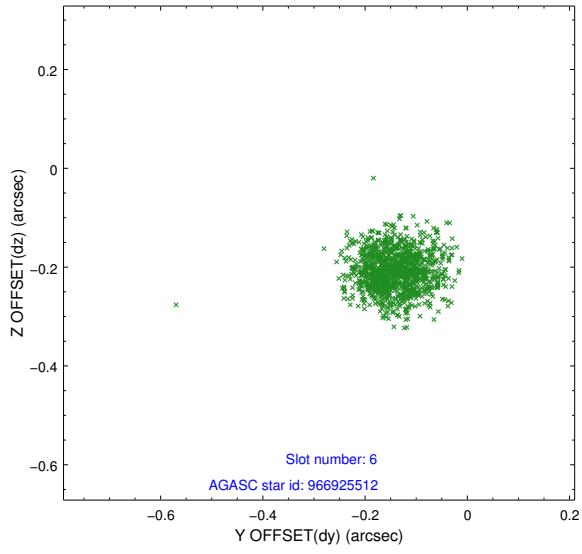
## 2.4.2 Slot 4



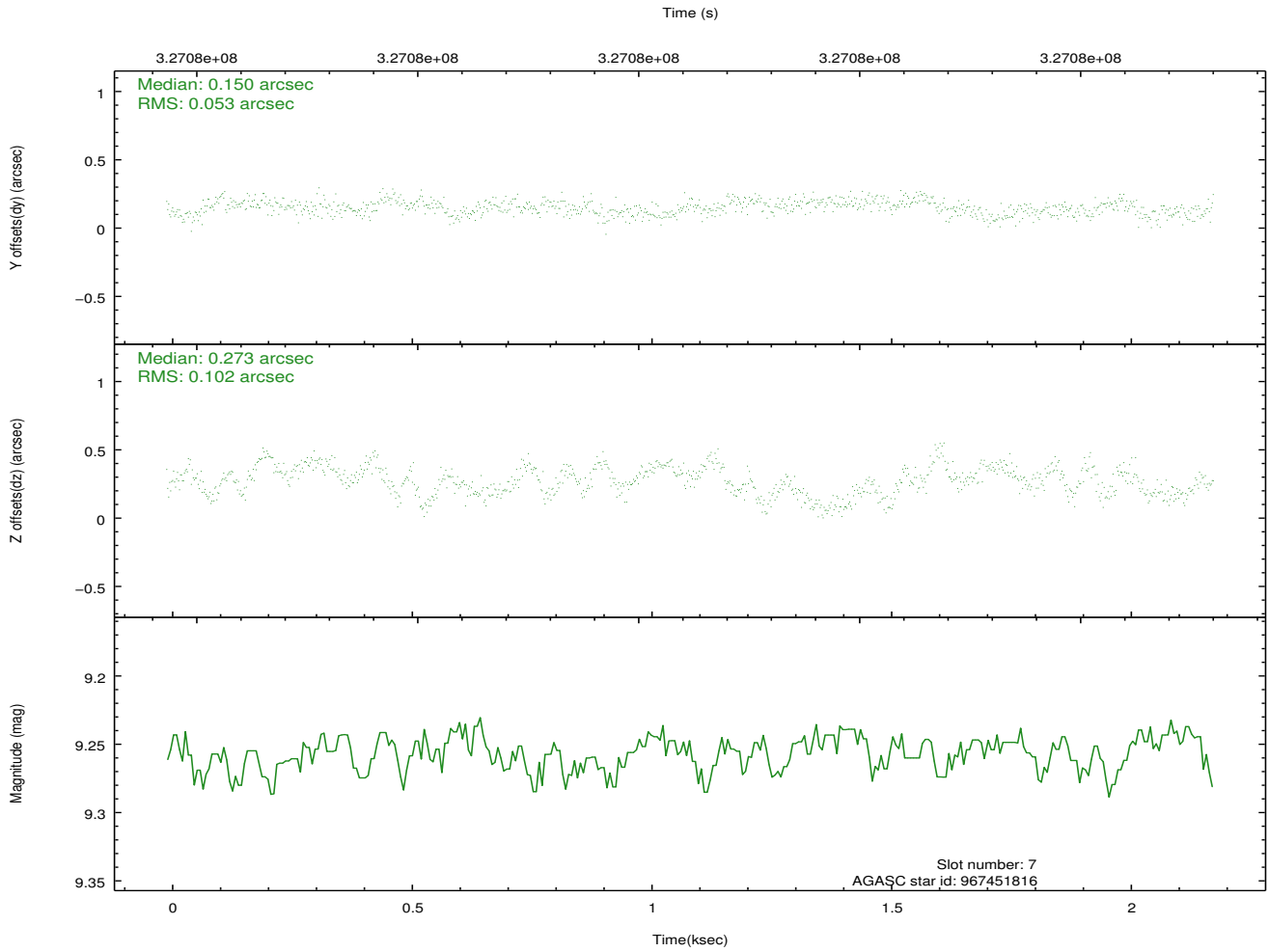
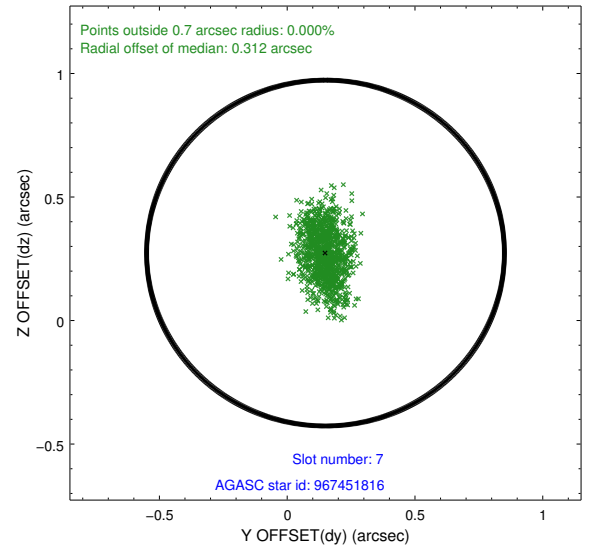
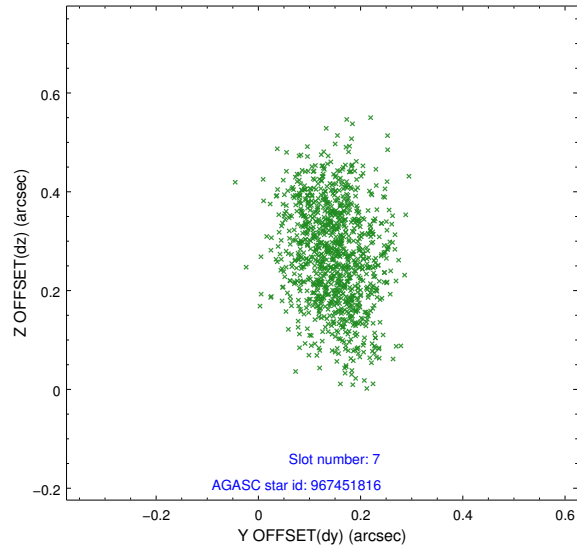
### 2.4.3 Slot 5



## 2.4.4 Slot 6

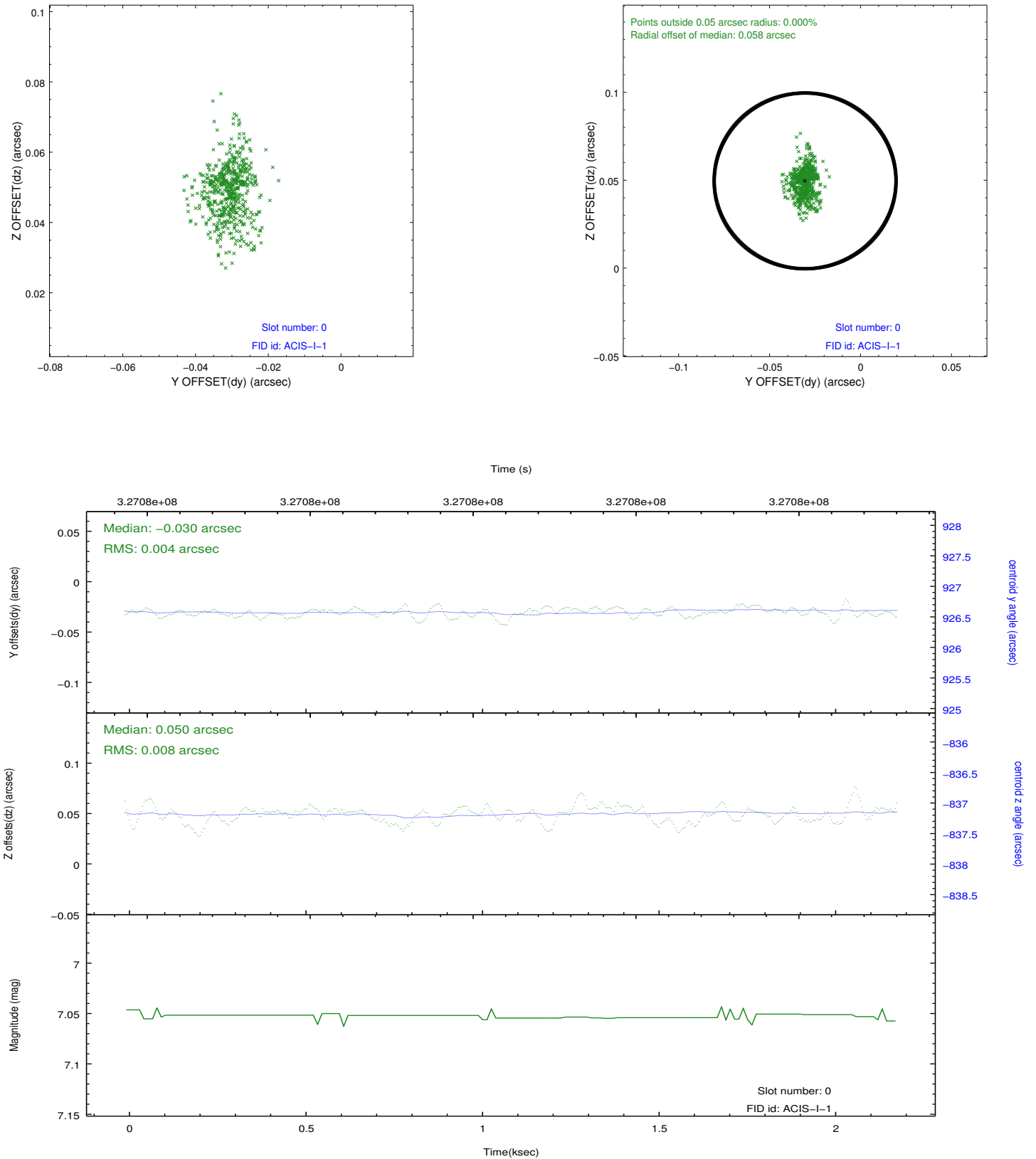


## 2.4.5 Slot 7

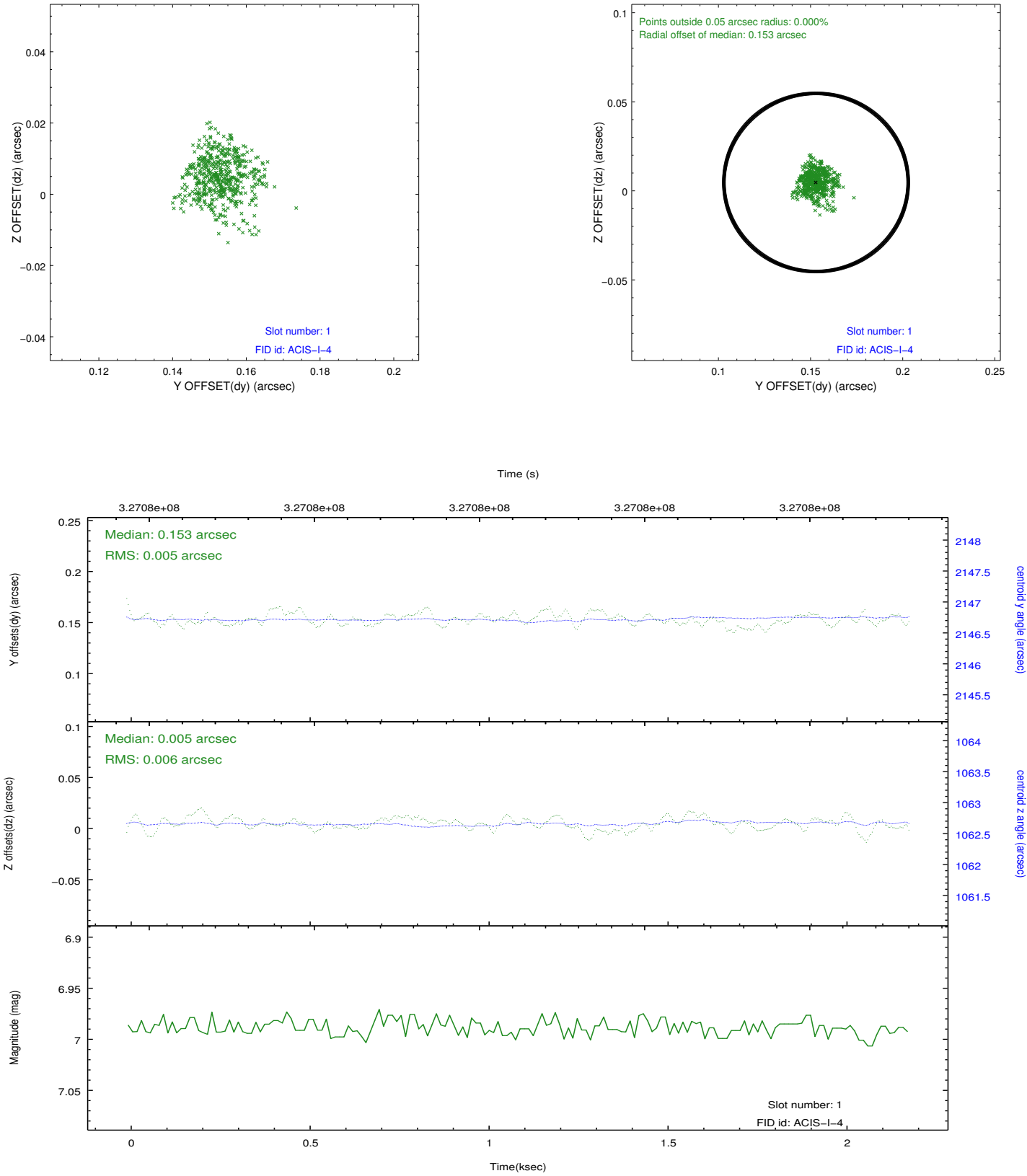


## 2.5 FID Slots

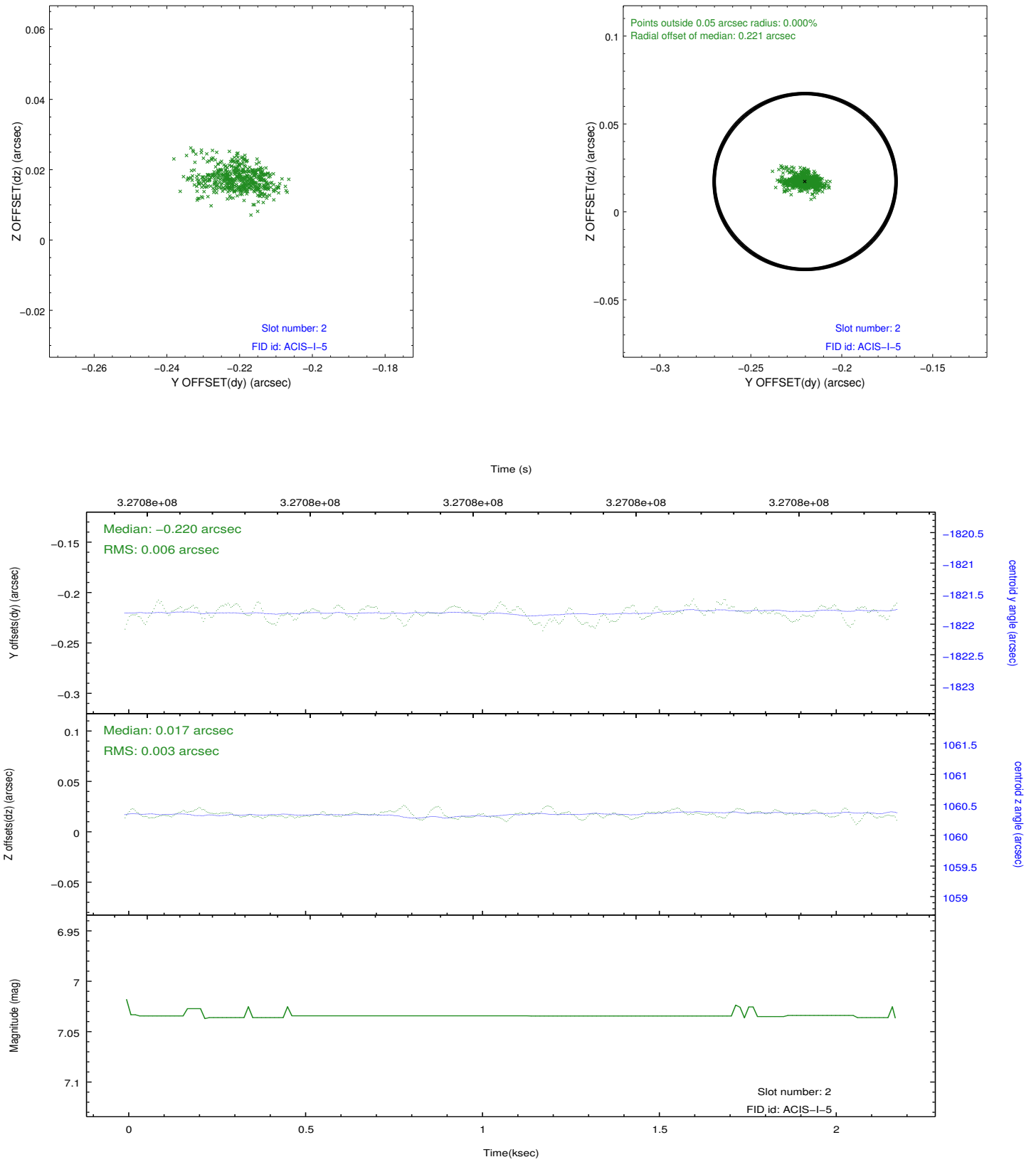
### 2.5.1 Slot 0



## 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)	2012.05.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18550001

### A.2 Comments

Joint Proposal: NOAO