

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8745 - L2 Version 2  
Chandra X-Ray Center

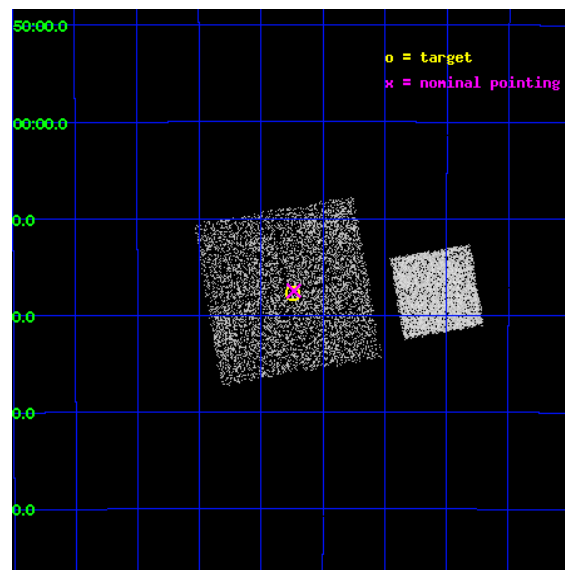
L2 Processing Date : May 14 2012

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# 1 Front

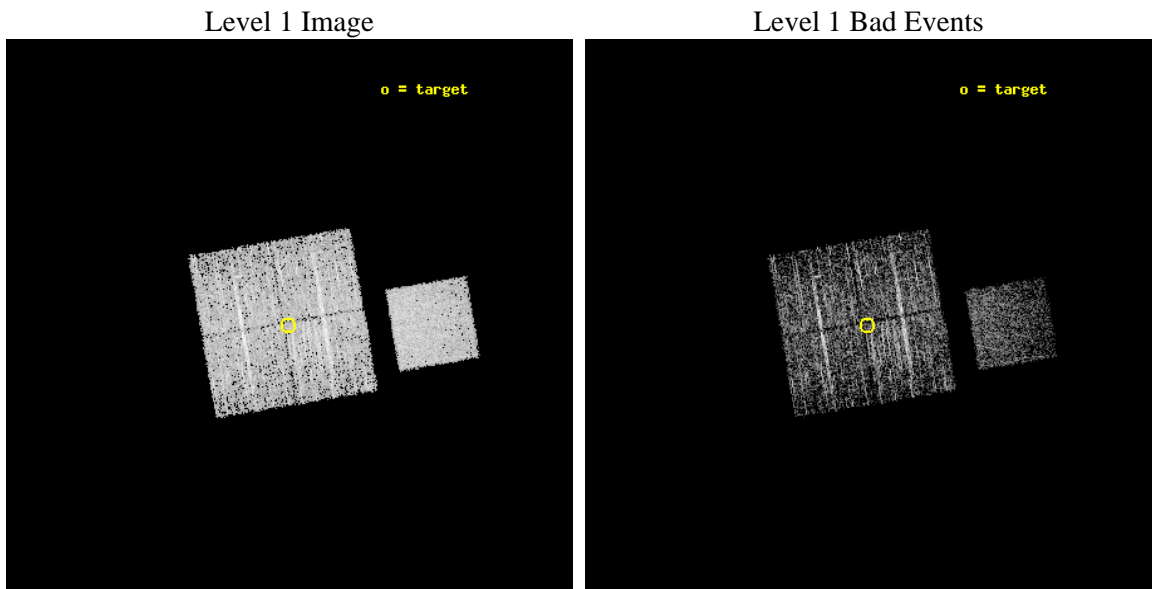
seq_num	400796	Sequence number
obs_id	8745	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.935485	Observer's specified target RA [deg]
dec_targ	-30.296008	Observer's specified target Dec [deg]
ra_nom	266.93359668798	Nominal RA [deg]
dec_nom	-30.291226779211	Nominal Dec [deg]
roll_nom	80.207750825504	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	2185.5000168085	Sum of GTIs [s]
ontime3	2185.5000168085	Sum of GTIs [s]
ontime7	2185.5000168085	Sum of GTIs [s]
l2events	16376	Number of level 2 events



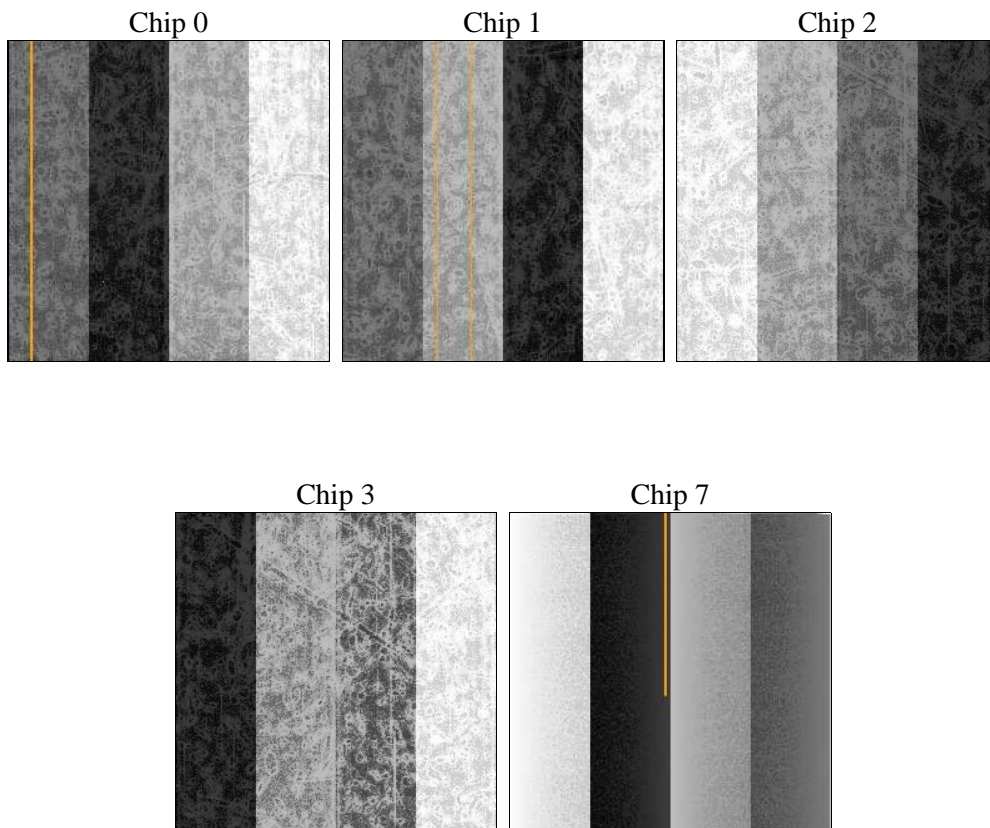
## 2 OBI

### 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	2012-05-14T23:39:08	Date and time of file creation	ontime1	2185.5000168085	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	103173	Number of level 1 events

### 2.1.4 Events

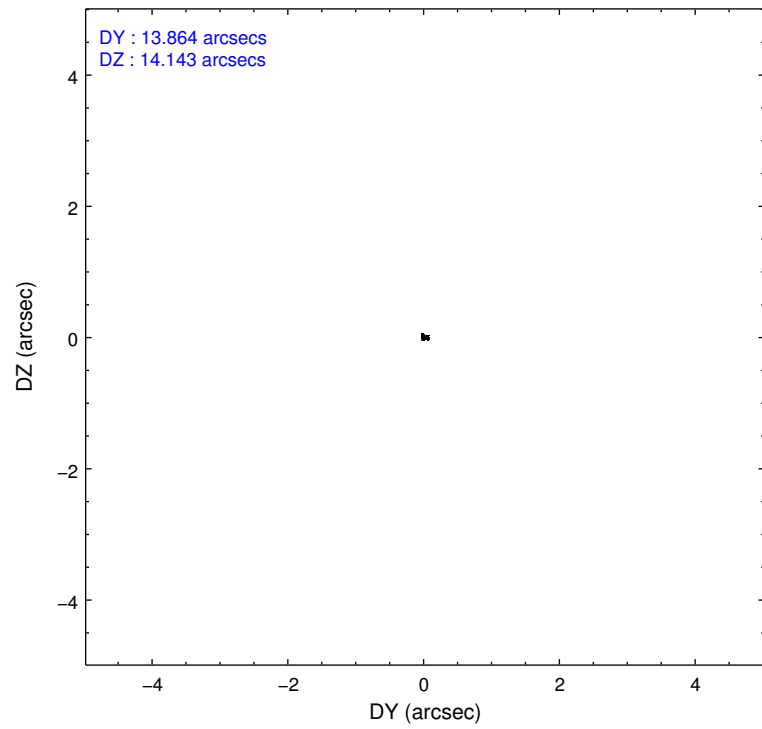
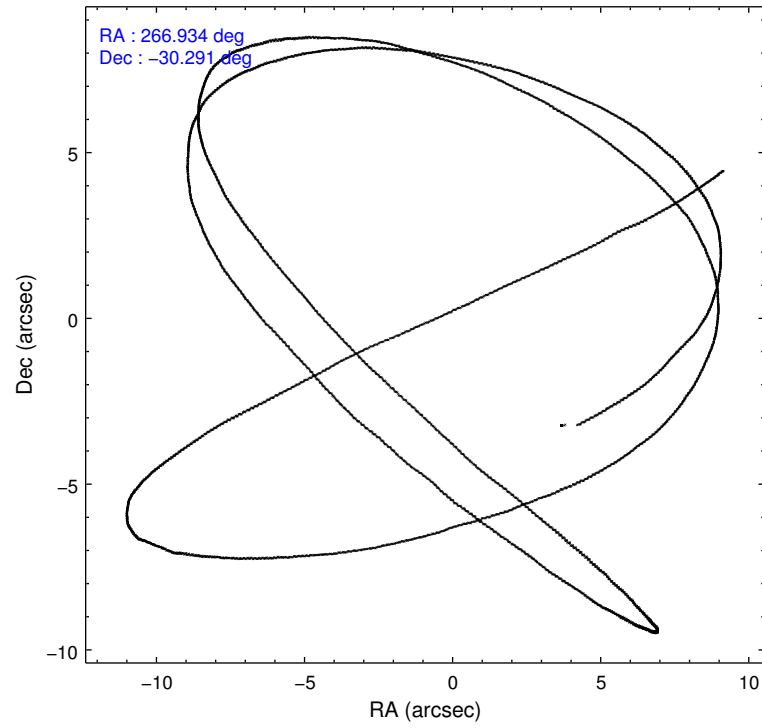
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	19527	18764	20096	21719	23067
rejected events	17438	16496	17643	19683	13842
rejected %	89%	87%	87%	90%	60%

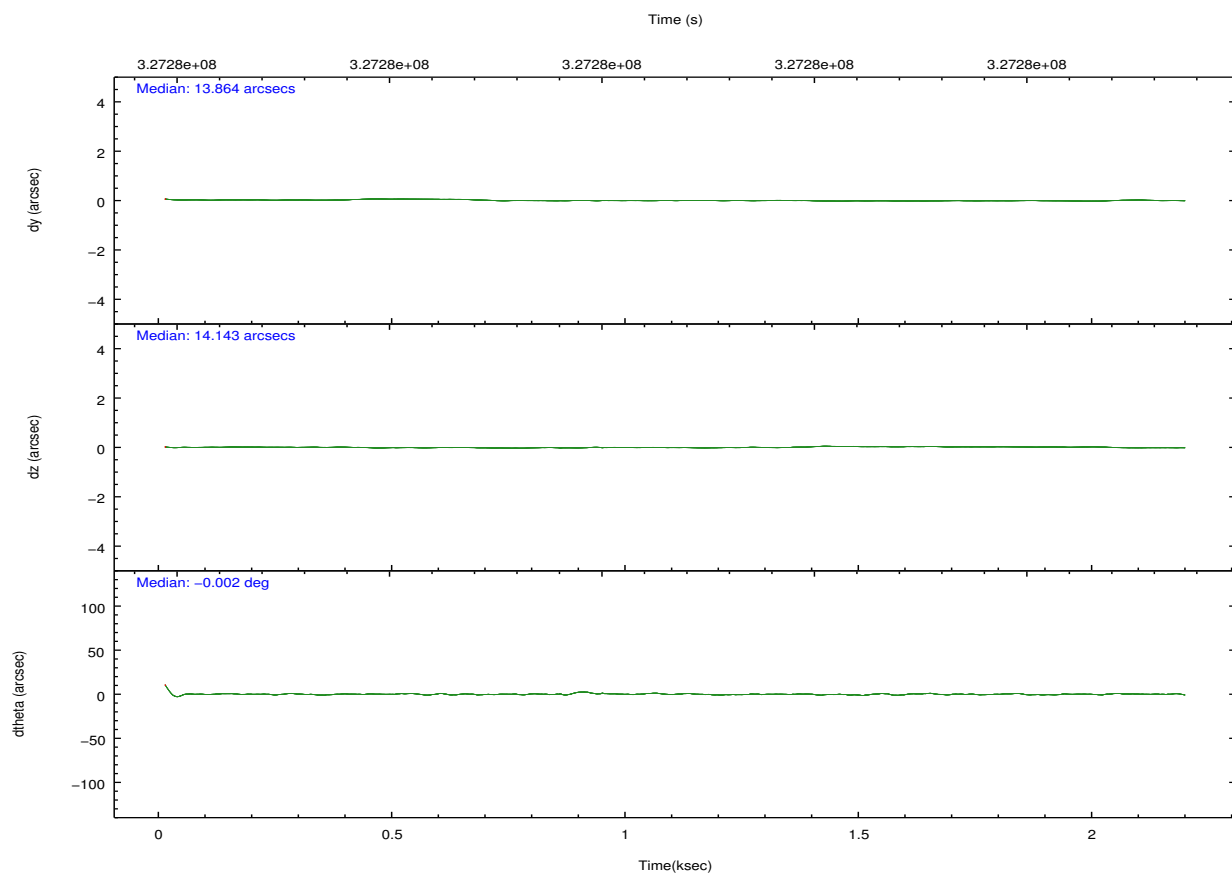
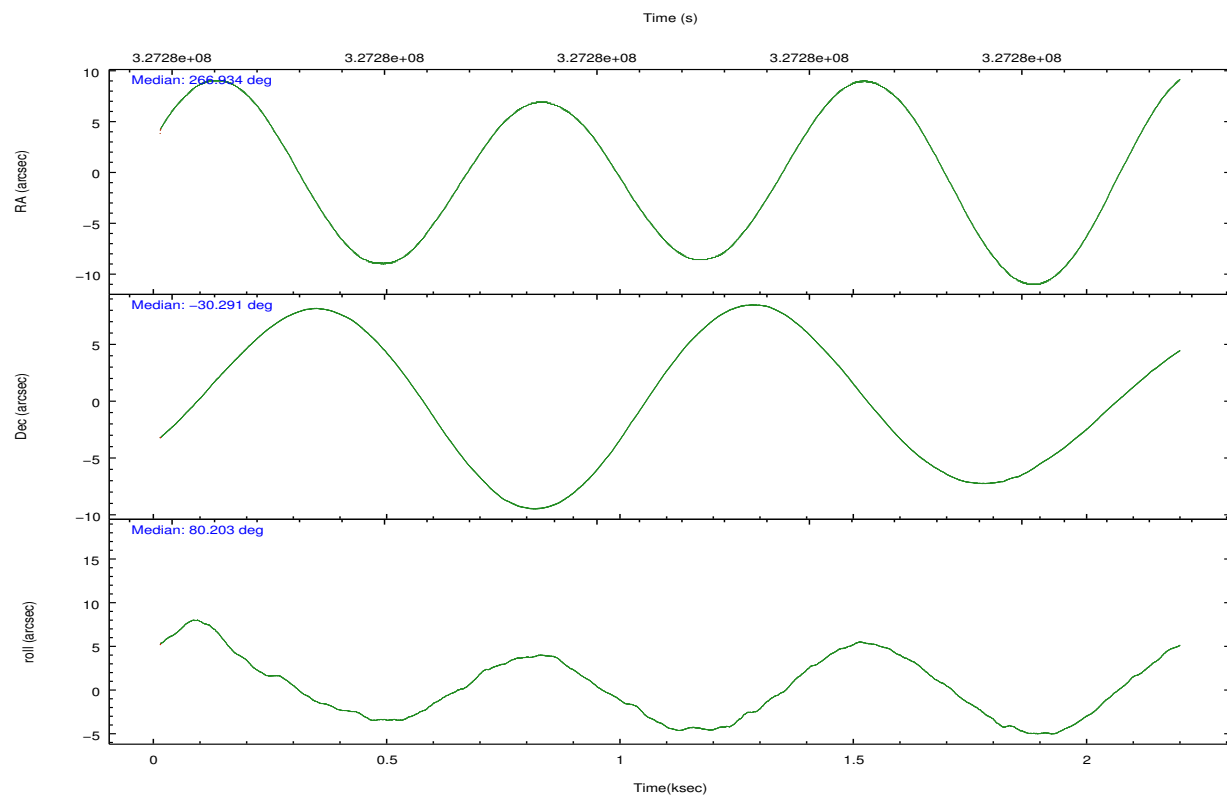
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1018	1050	1427	984	982
	5%	5%	7%	4%	4%
grade 1 events	15	16	12	20	27
	0%	0%	0%	0%	0%
grade 2 events	563	526	552	482	2138
	2%	2%	2%	2%	9%
grade 3 events	237	283	222	222	984
	1%	1%	1%	1%	4%
grade 4 events	216	251	224	227	1038
	1%	1%	1%	1%	4%
grade 5 events	705	786	656	815	2392
	3%	4%	3%	3%	10%
grade 6 events	394	493	376	410	5396
	2%	2%	1%	1%	23%
grade 7 events	16379	15359	16627	18559	10110
	83%	81%	82%	85%	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	266.944718	266.933596687983	CCD I2 on	Y	Y
[deg] Pointing Dec	-30.317042	-30.29122677921126	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004664	80.20775082550443	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)	327277769.184000	327277393.16115	CCD S5 on	N	N
Observation start date	2008-05-15T22:28:24	2008-05-15T22:23:13	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327279769.184000	327279902.87377	On-chip summing requested	N	N
Observation end date	2008-05-15T23:01:44	2008-05-15T23:05:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



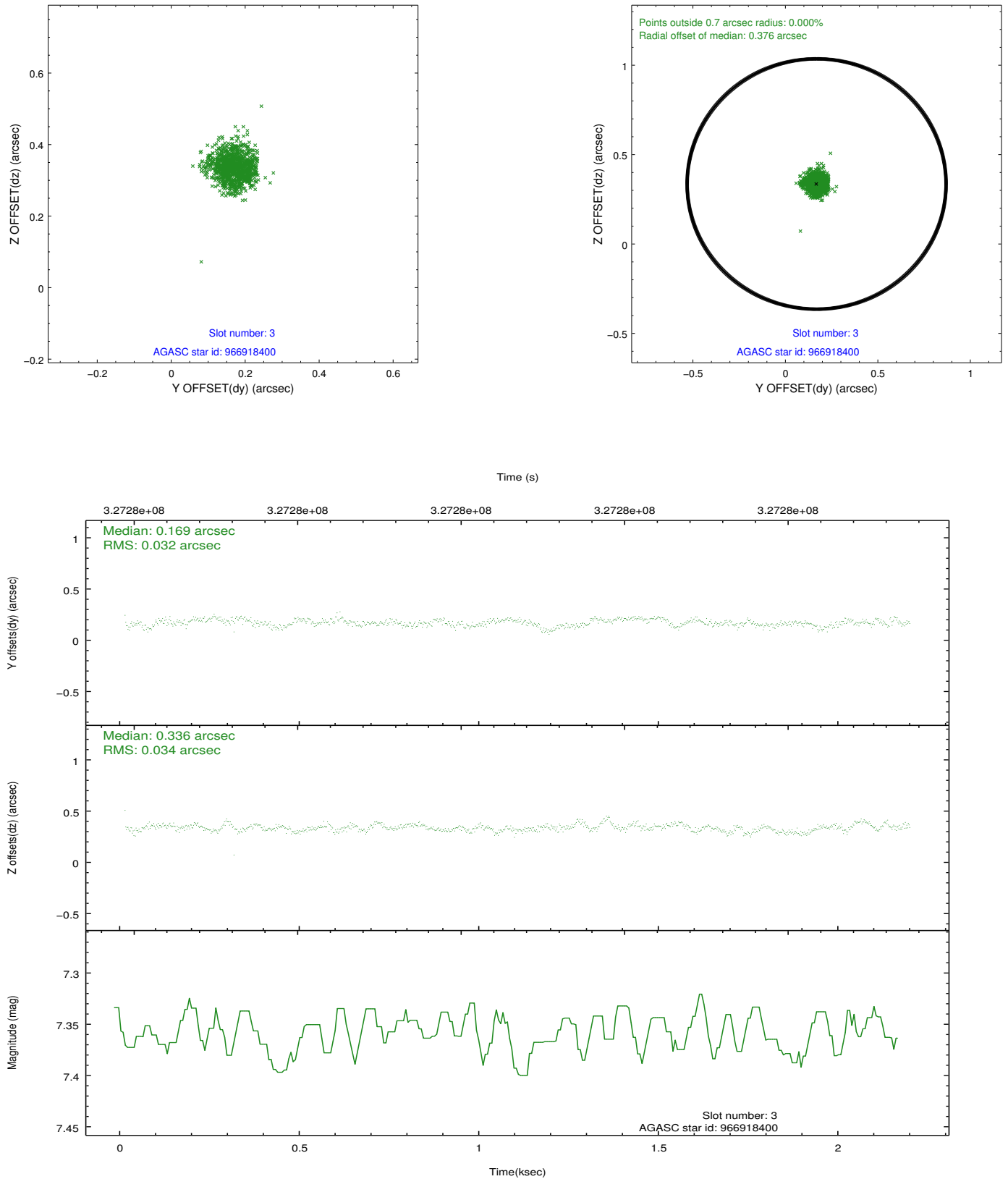


### Slot Statistics

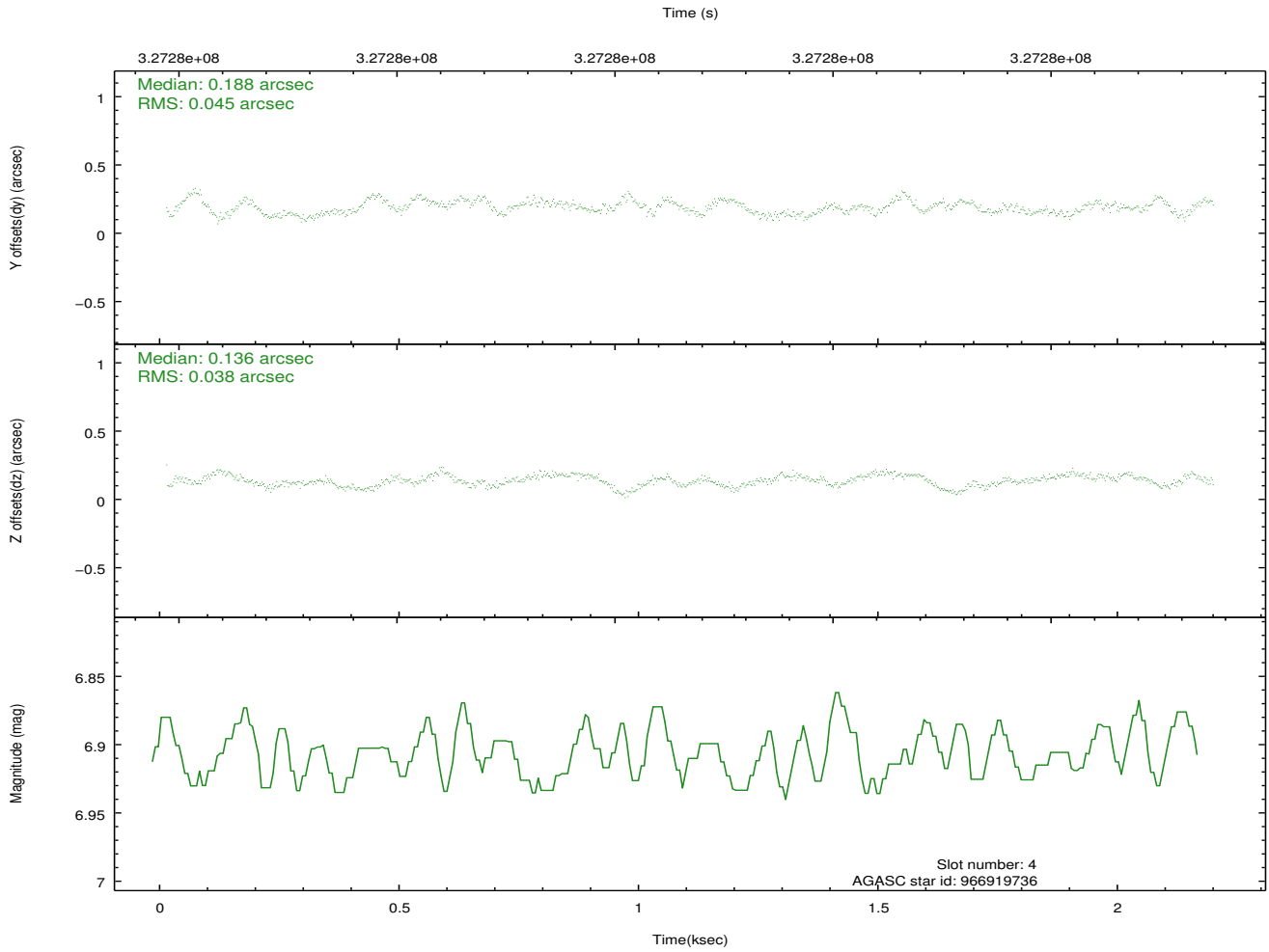
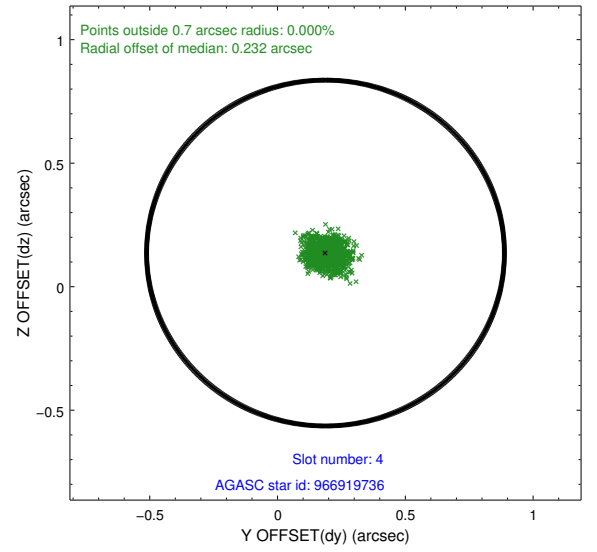
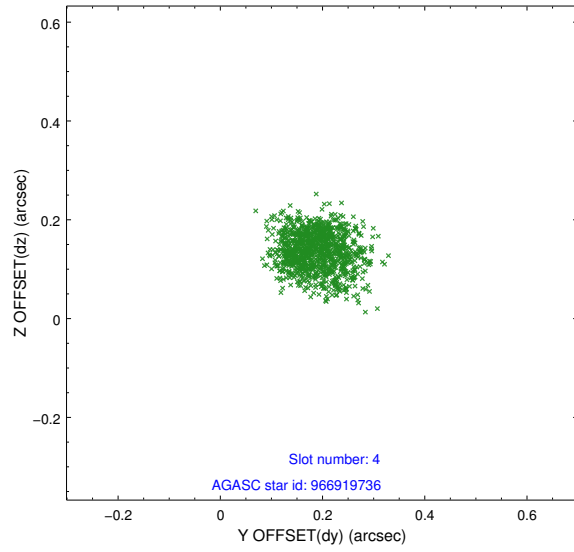
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	6.95	533	-0.087	-0.065	0.008	0.018	0.000000	0.000000	-768.64	-844.15
1	FID	ACIS-I-4	6.96	534	0.190	0.071	0.006	0.009	0.000000	0.000000	2144.32	1060.66
2	FID	ACIS-I-5	7.02	533	-0.204	0.063	0.008	0.016	0.000000	0.000000	-1818.76	1061.88
3	GUIDE	966918400	7.36	1067	0.169	0.336	0.050	0.076	267.537101	-30.960086	-1966.85	-2203.52
4	GUIDE	966919736	6.91	1067	0.188	0.136	0.064	0.100	267.322278	-30.597445	-794.78	-1330.30
5	GUIDE	896541168	8.17	1067	-0.103	-0.224	0.097	0.401	266.319970	-29.850801	1308.07	2210.22
6	GUIDE	896539920	8.83	1067	-0.143	-0.011	0.080	0.129	266.848347	-29.638887	2352.89	722.98
7	GUIDE	966918832	8.75	1066	-0.107	-0.192	0.173	0.250	266.278876	-30.183148	111.05	2123.72

## 2.4 Star Slots

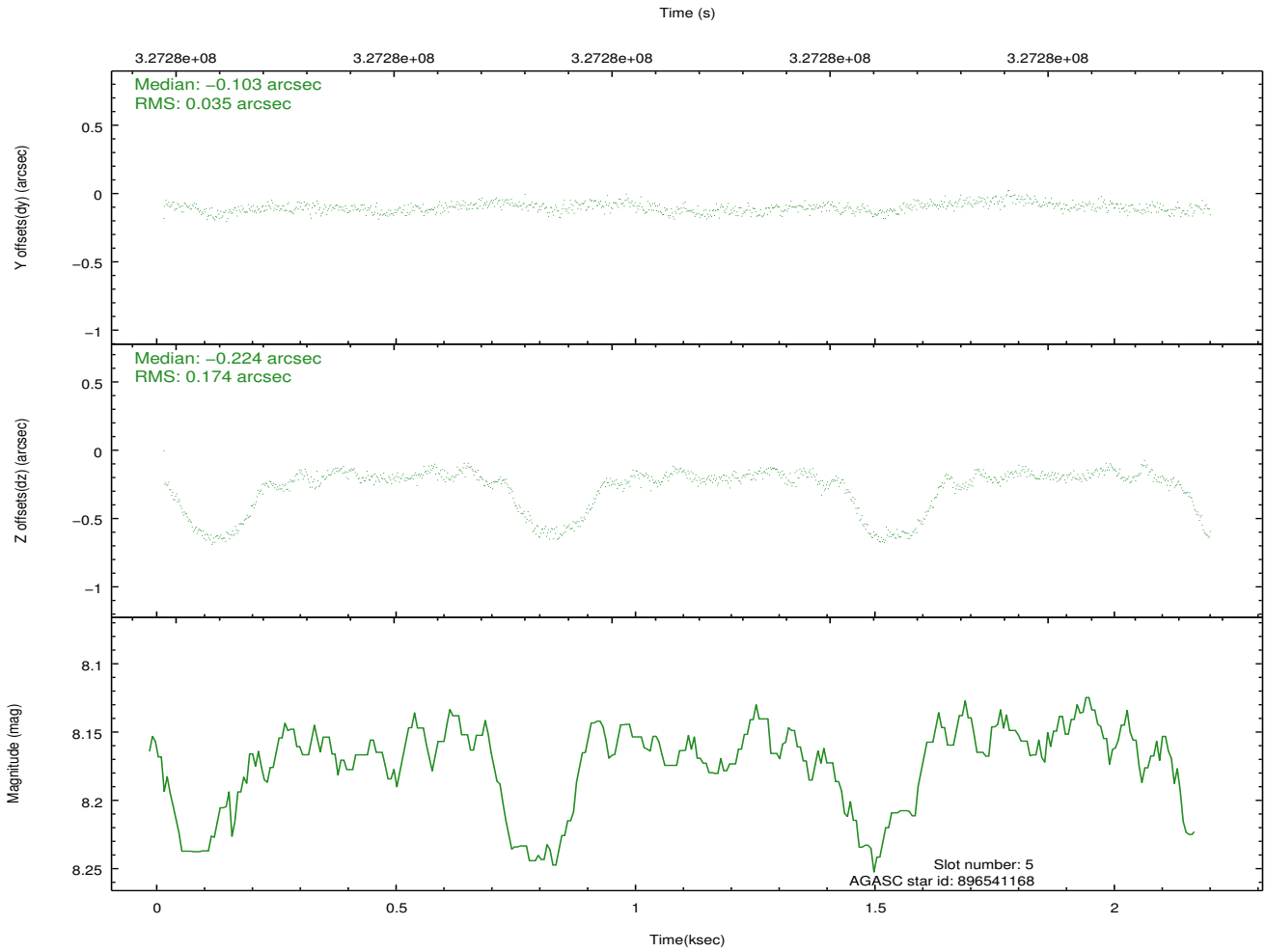
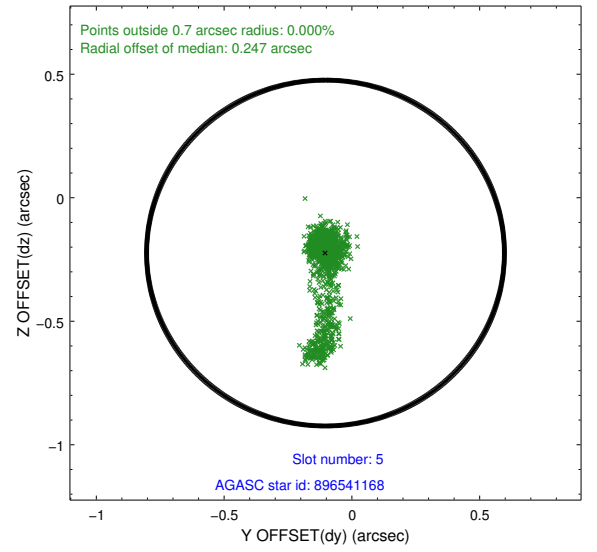
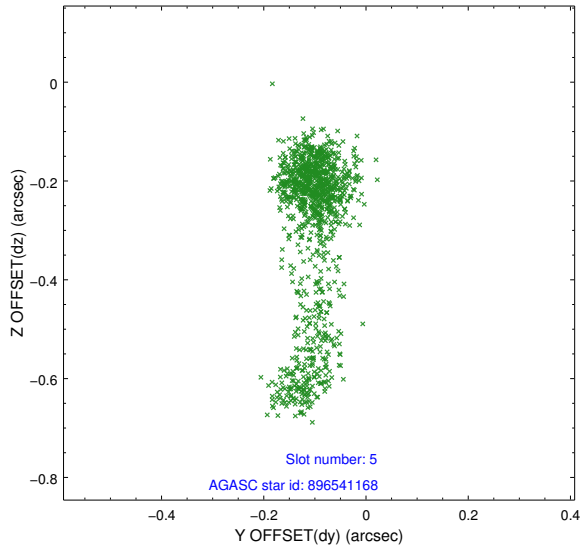
### 2.4.1 Slot 3



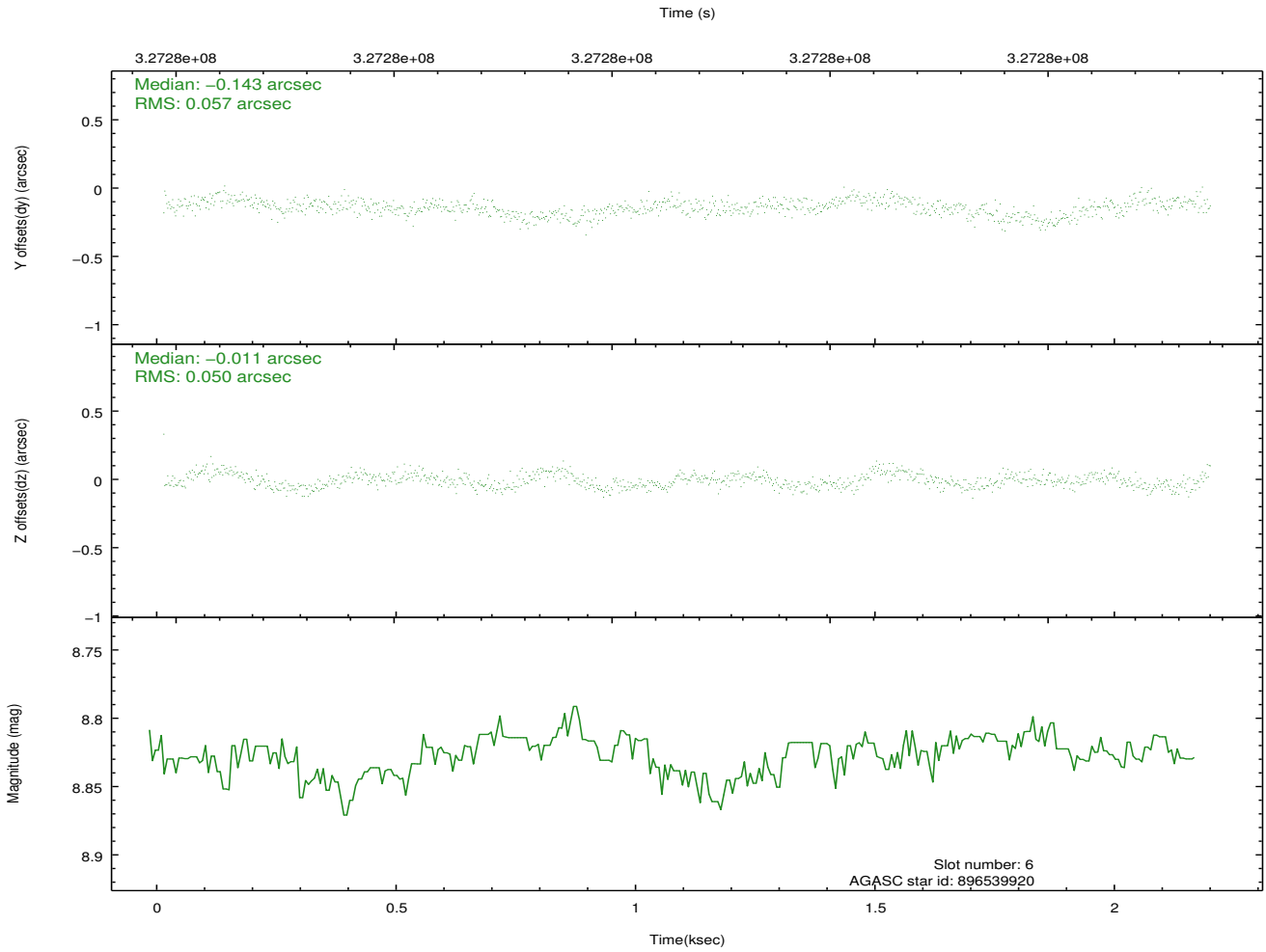
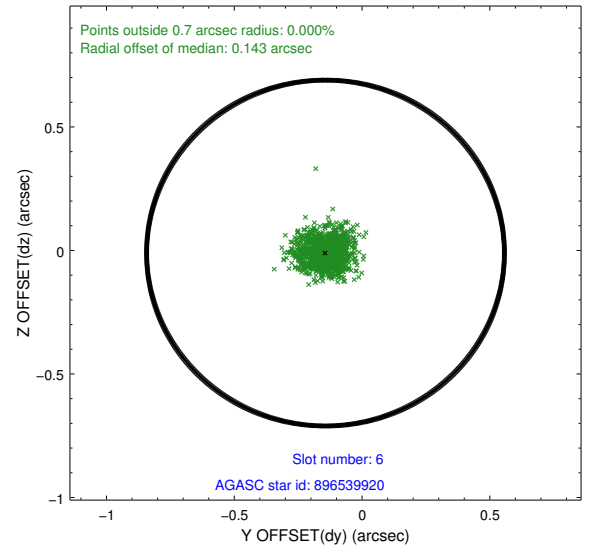
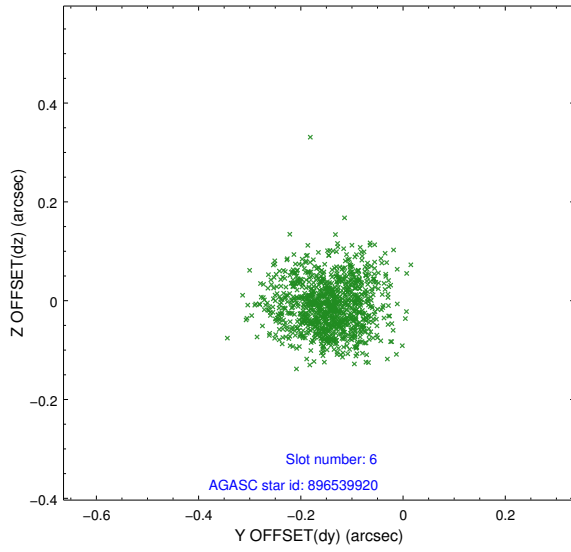
## 2.4.2 Slot 4



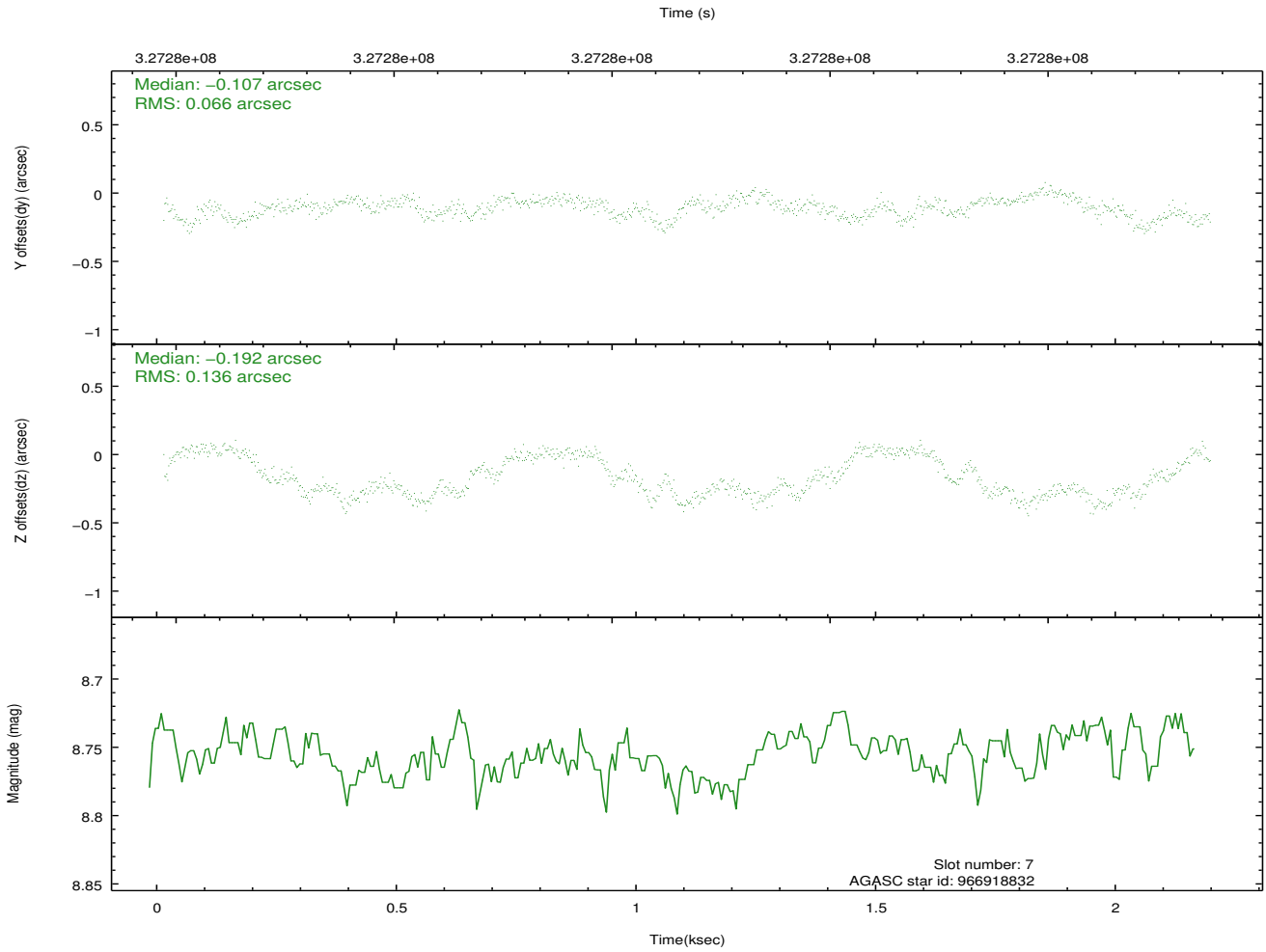
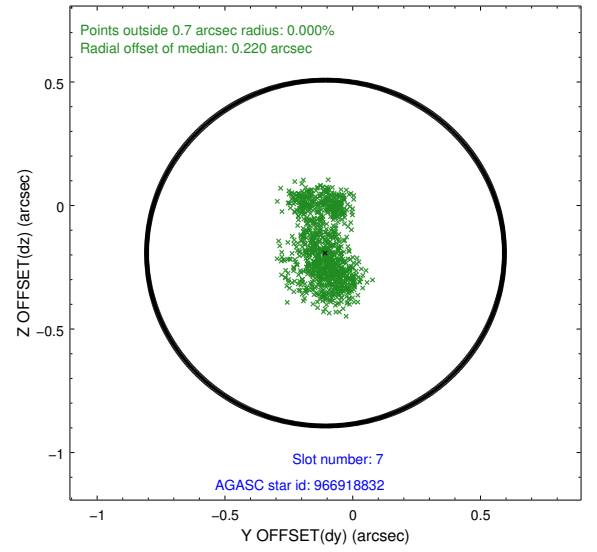
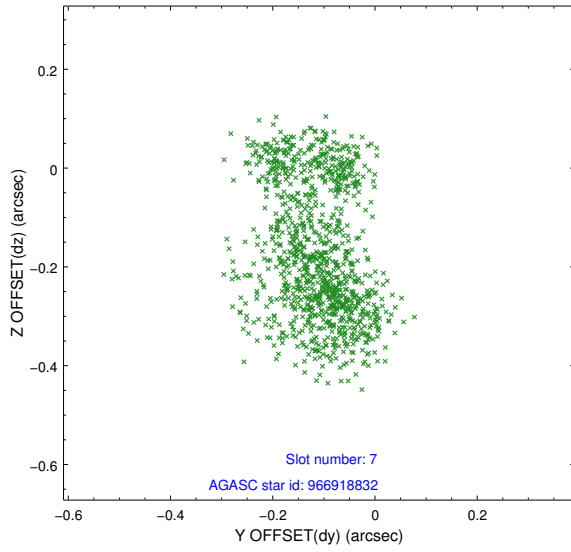
### 2.4.3 Slot 5



## 2.4.4 Slot 6

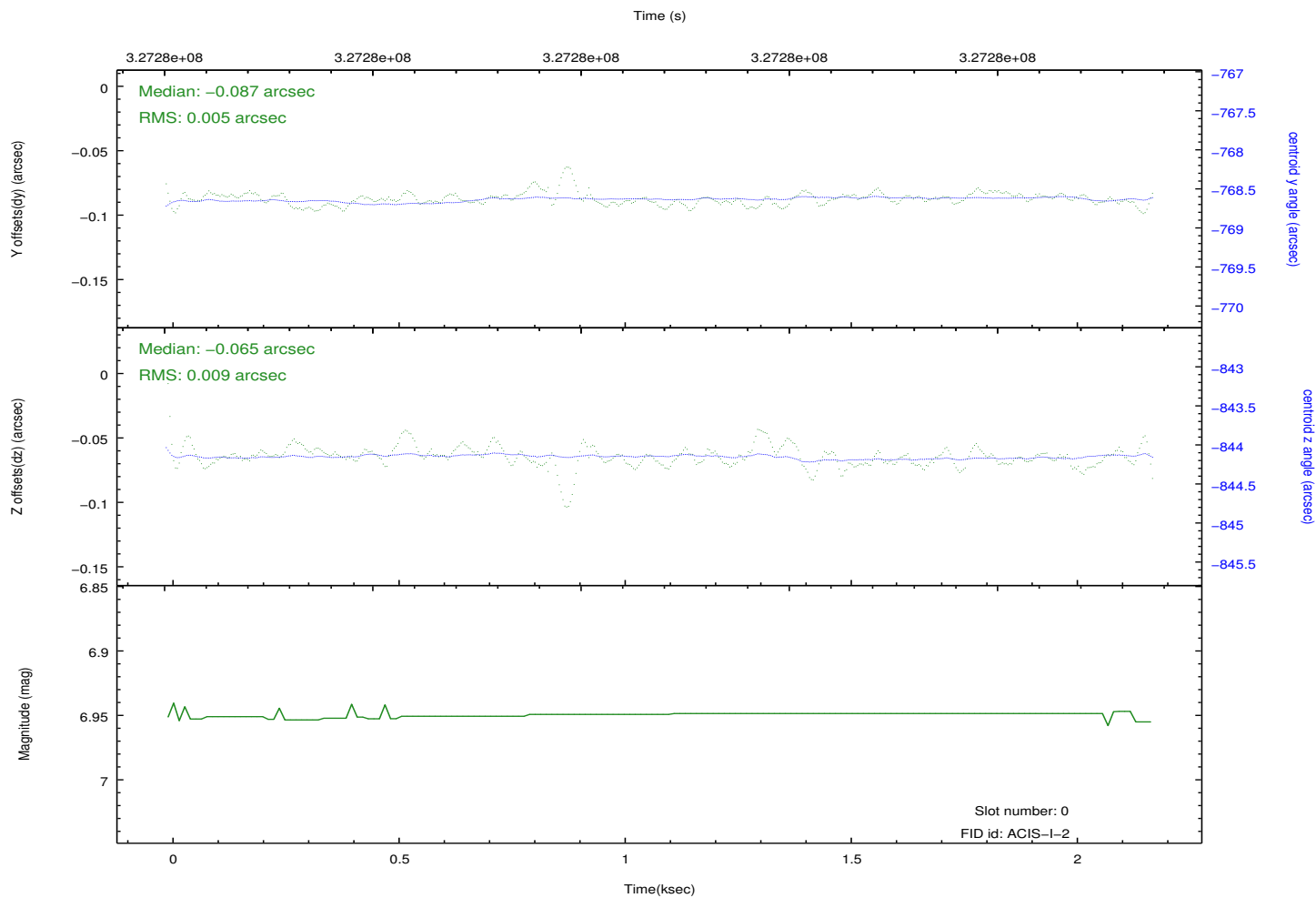
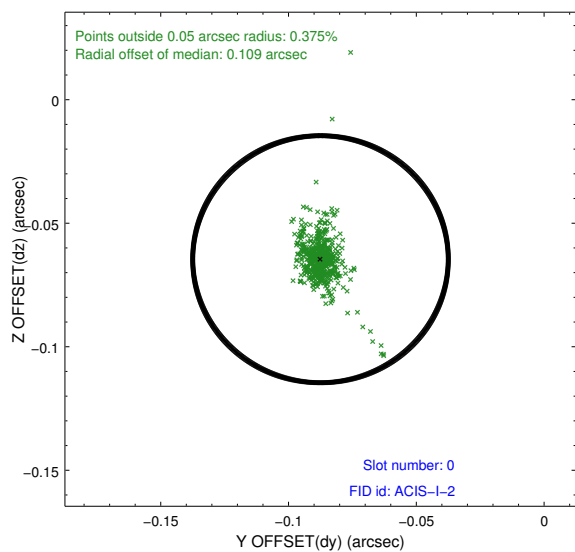
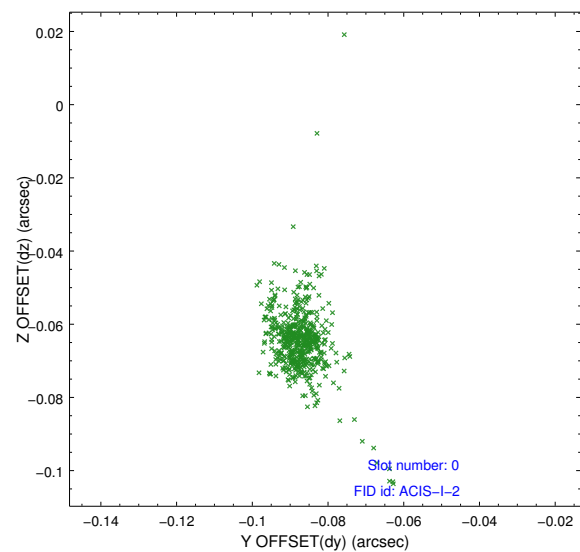


## 2.4.5 Slot 7

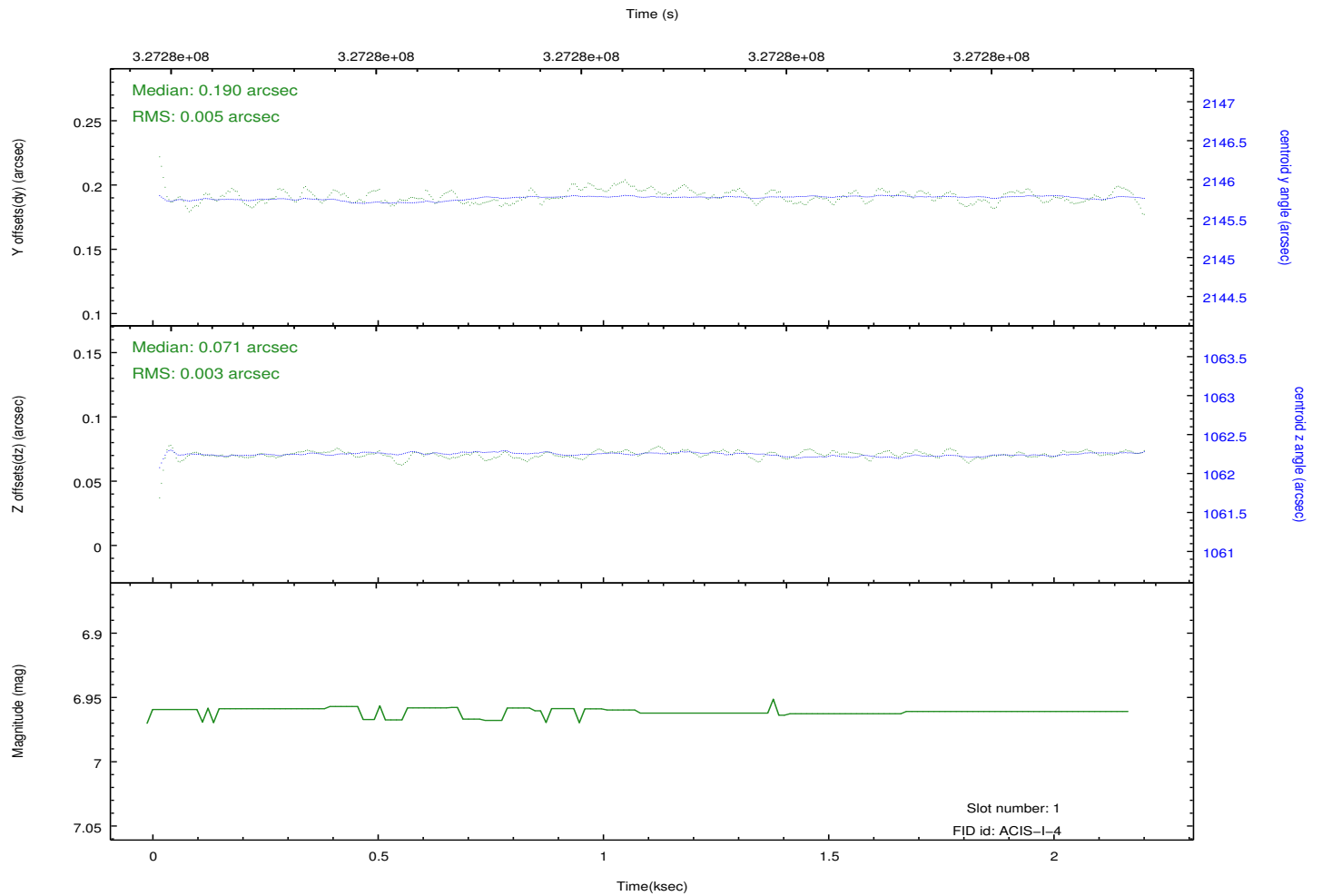
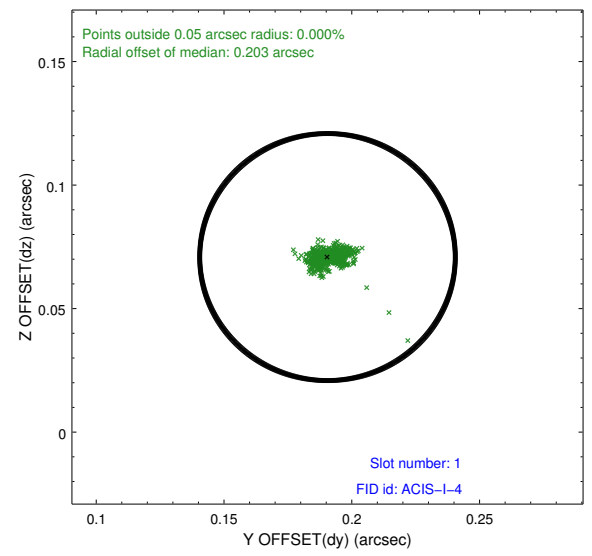
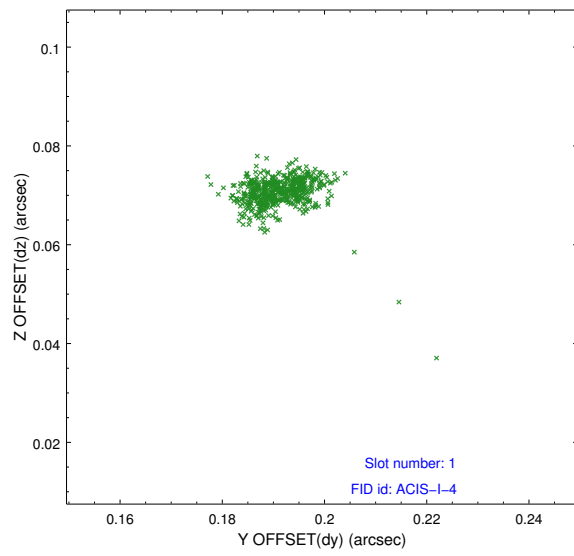


## 2.5 FID Slots

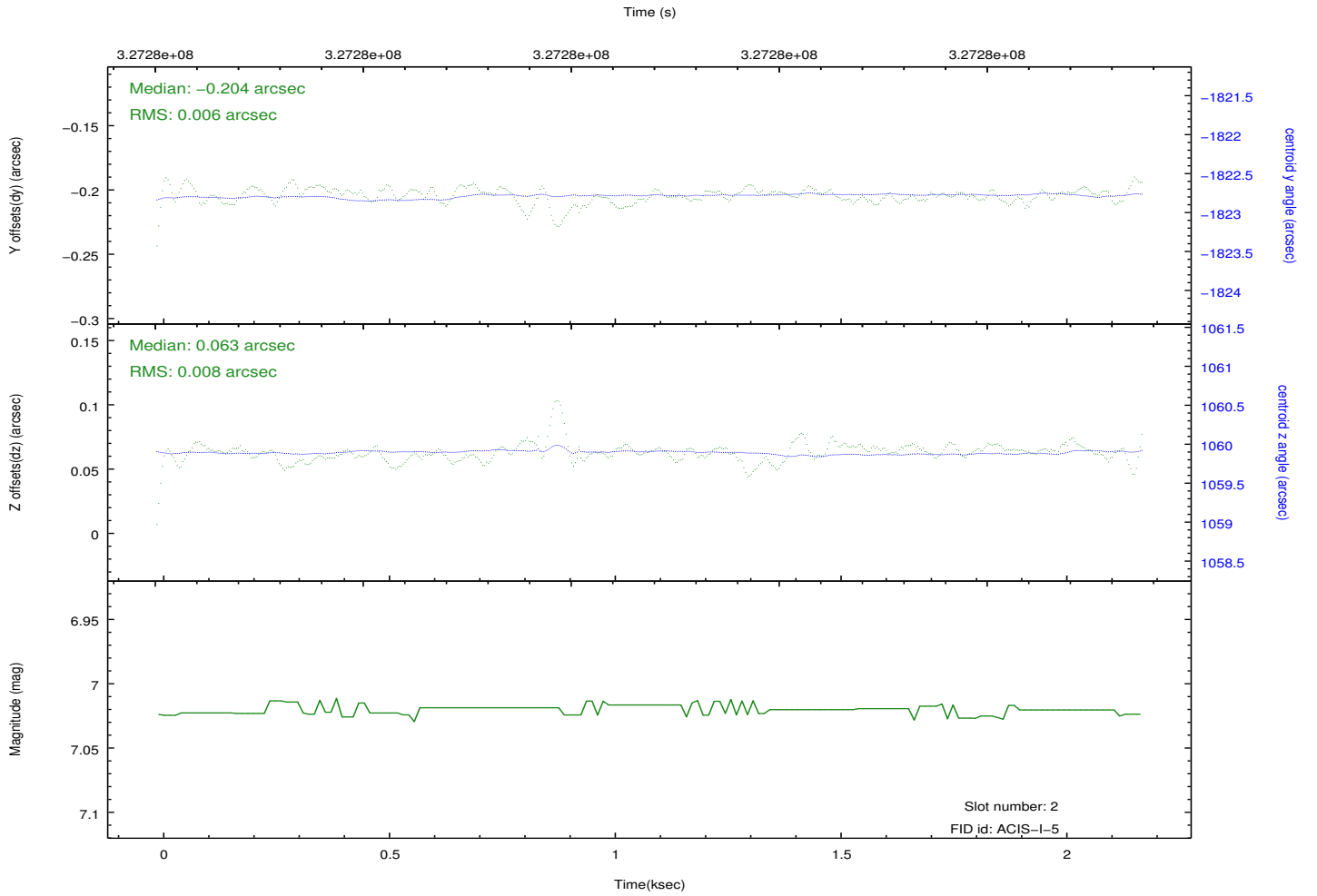
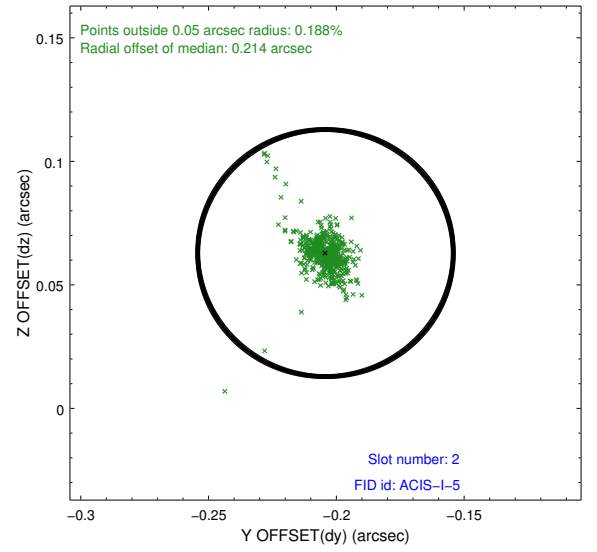
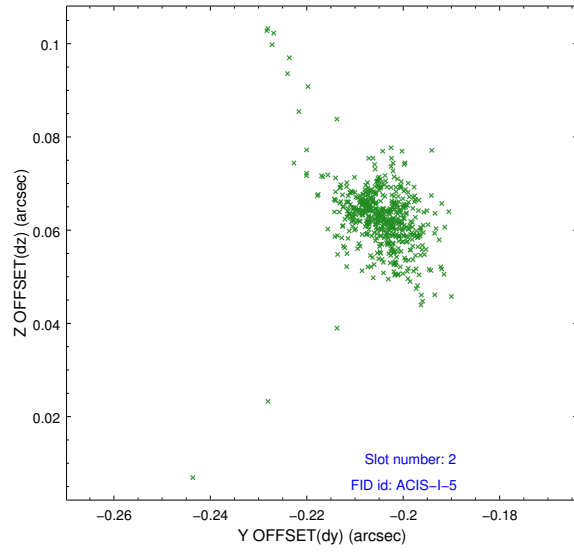
### 2.5.1 Slot 0



## 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	2.18550001

## A.2 Comments

Joint proposal with NOAO.