

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8744 - L2 Version 2  
Chandra X-Ray Center

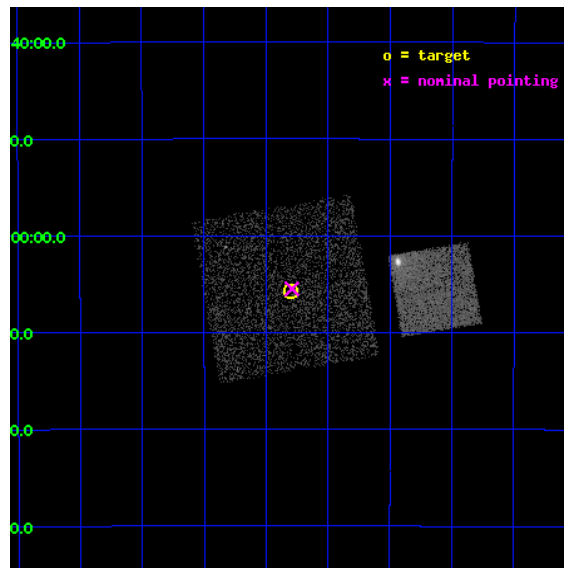
L2 Processing Date : May 14 2012

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# 1 Front

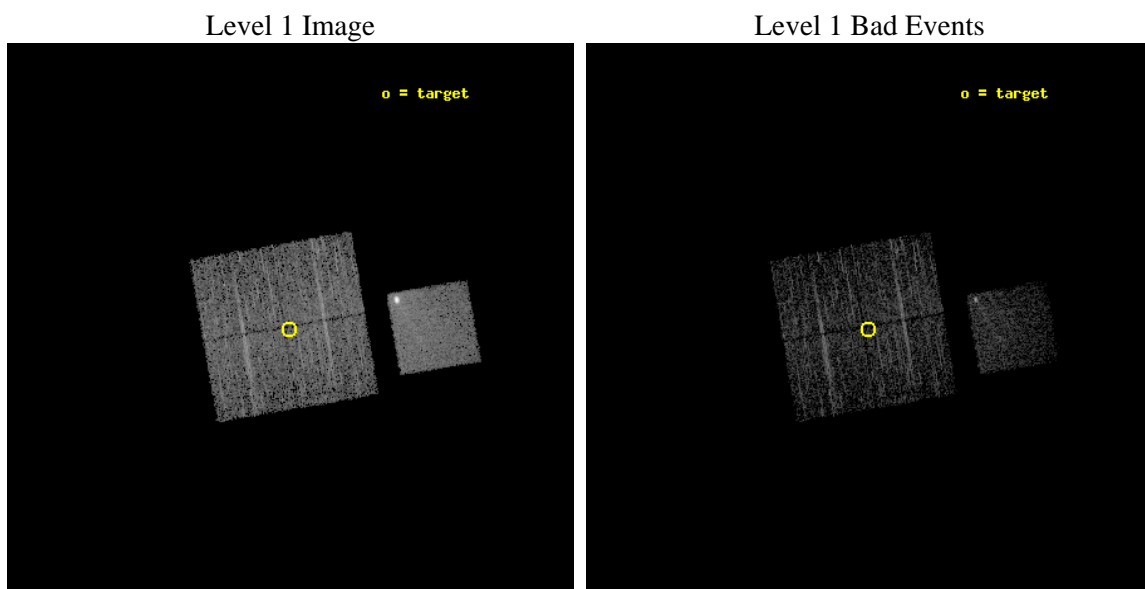
seq_num	400795	Sequence number
obs_id	8744	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.074895	Observer's specified target RA [deg]
dec_targ	-30.096244	Observer's specified target Dec [deg]
ra_nom	267.07286487072	Nominal RA [deg]
dec_nom	-30.091554159966	Nominal Dec [deg]
roll_nom	80.207678280249	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	2179.2590264082	Sum of GTIs [s]
ontime2	2182.4000167847	Sum of GTIs [s]
ontime3	2182.4000167847	Sum of GTIs [s]
ontime7	2182.4000167847	Sum of GTIs [s]
l2events	23583	Number of level 2 events



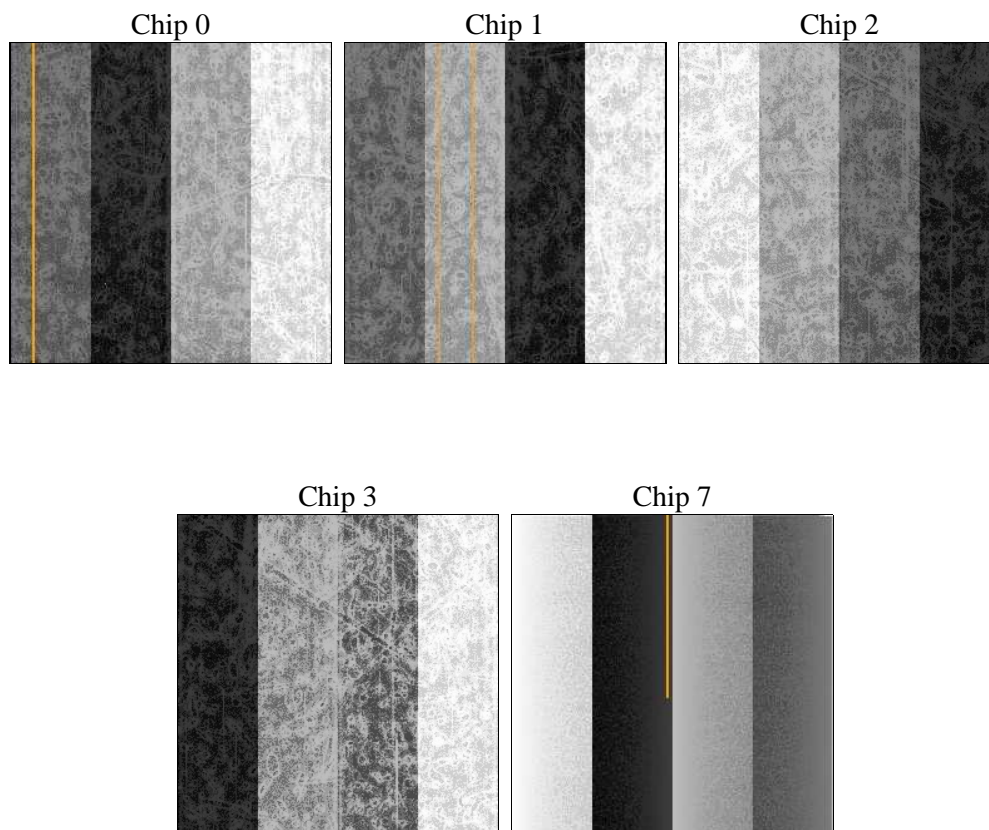
## 2 OBI

### 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	2012-05-14T23:39:11	Date and time of file creation	ontime1	2179.2590264082	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2182.4000167847	Sum of GTIs [s]
			ontime3	2182.4000167847	Sum of GTIs [s]
			ontime7	2182.4000167847	Sum of GTIs [s]
			l1events	111341	Number of level 1 events

### 2.1.4 Events

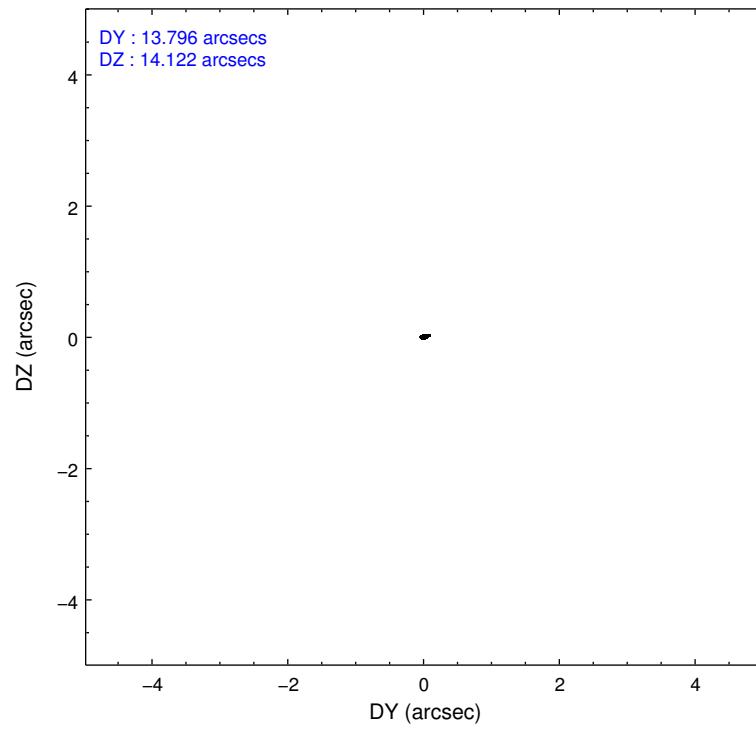
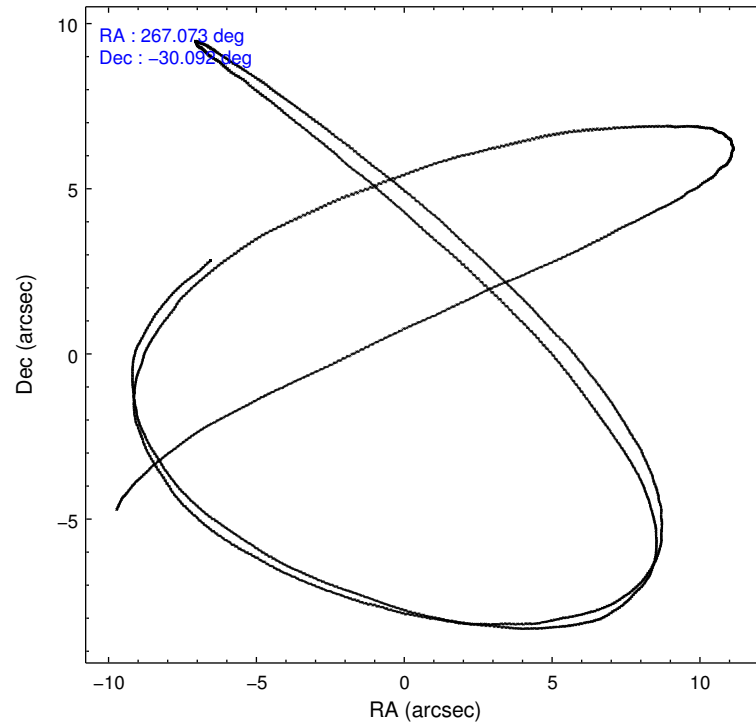
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	18966	19366	20960	20291	31758
rejected events	16808	17100	18850	18137	15009
rejected %	88%	88%	89%	89%	47%

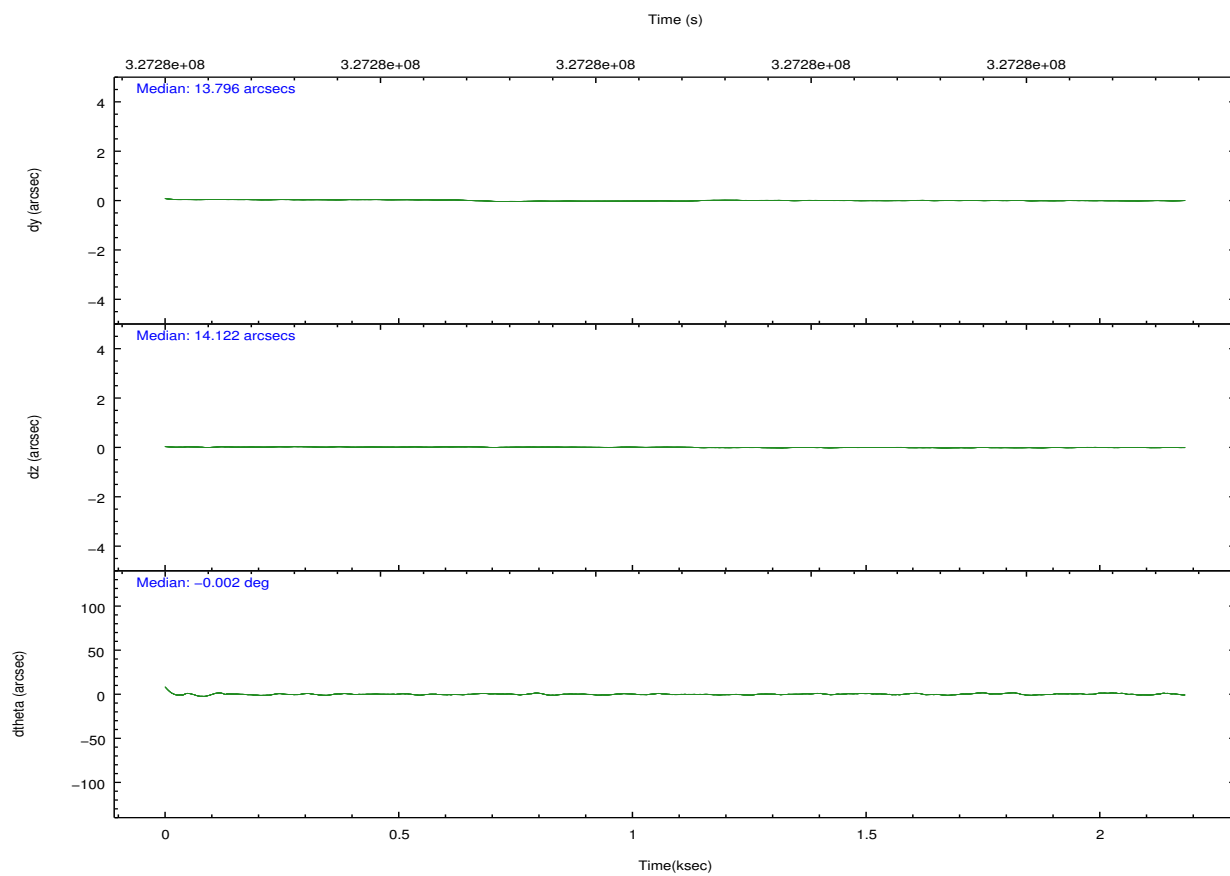
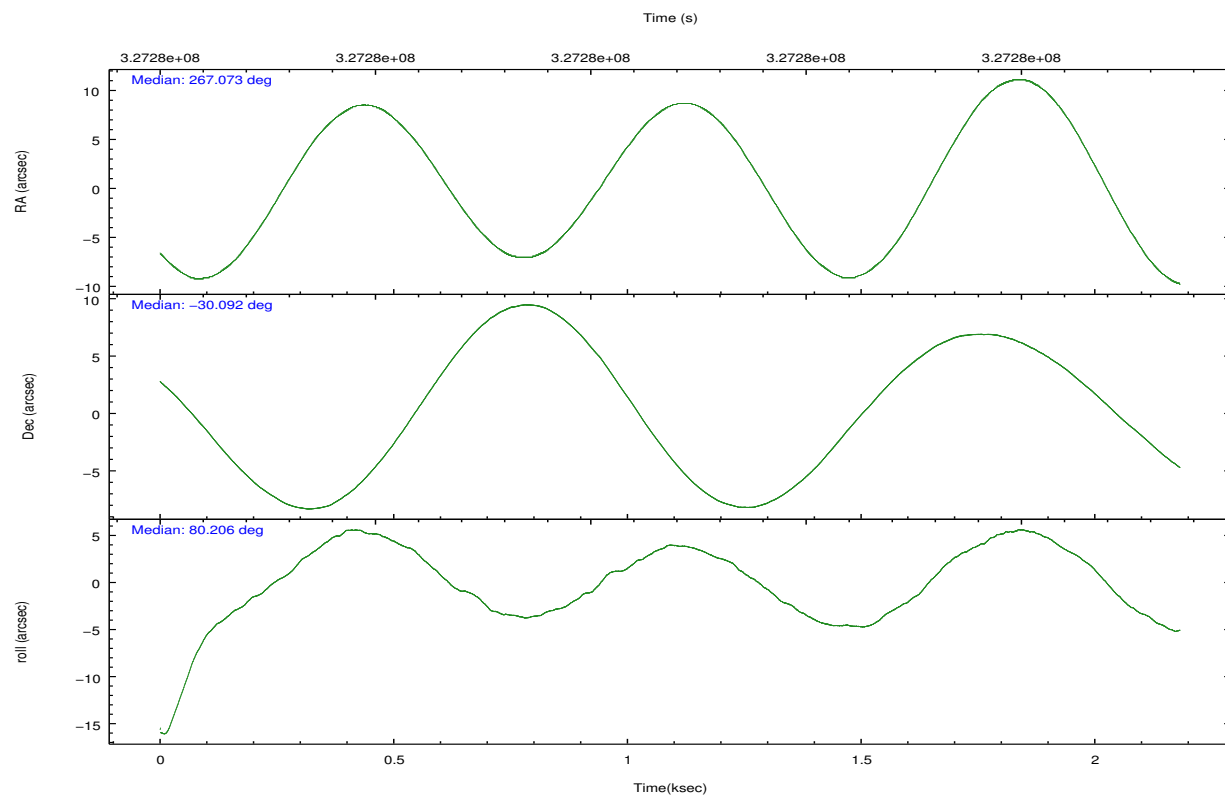
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1034	1096	1093	1097	2558
	5%	5%	5%	5%	8%
grade 1 events	6	7	20	13	44
	0%	0%	0%	0%	0%
grade 2 events	532	526	504	482	4100
	2%	2%	2%	2%	12%
grade 3 events	224	239	214	228	1775
	1%	1%	1%	1%	5%
grade 4 events	229	265	259	236	1851
	1%	1%	1%	1%	5%
grade 5 events	722	808	648	807	2450
	3%	4%	3%	3%	7%
grade 6 events	466	452	369	412	8982
	2%	2%	1%	2%	28%
grade 7 events	15753	15973	17853	17016	9998
	83%	82%	85%	83%	31%

## 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	267.084106	267.0728648707156	CCD I2 on	Y	Y
[deg] Pointing Dec	-30.117279	-30.09155415996637	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004617	80.2076782802486	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)	327280279.184000	327279902.87377	CCD S5 on	N	N
Observation start date	2008-05-15T23:10:14	2008-05-15T23:05:02	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327282279.184000	327282413.0989	On-chip summing requested	N	N
Observation end date	2008-05-15T23:43:34	2008-05-15T23:46:53	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





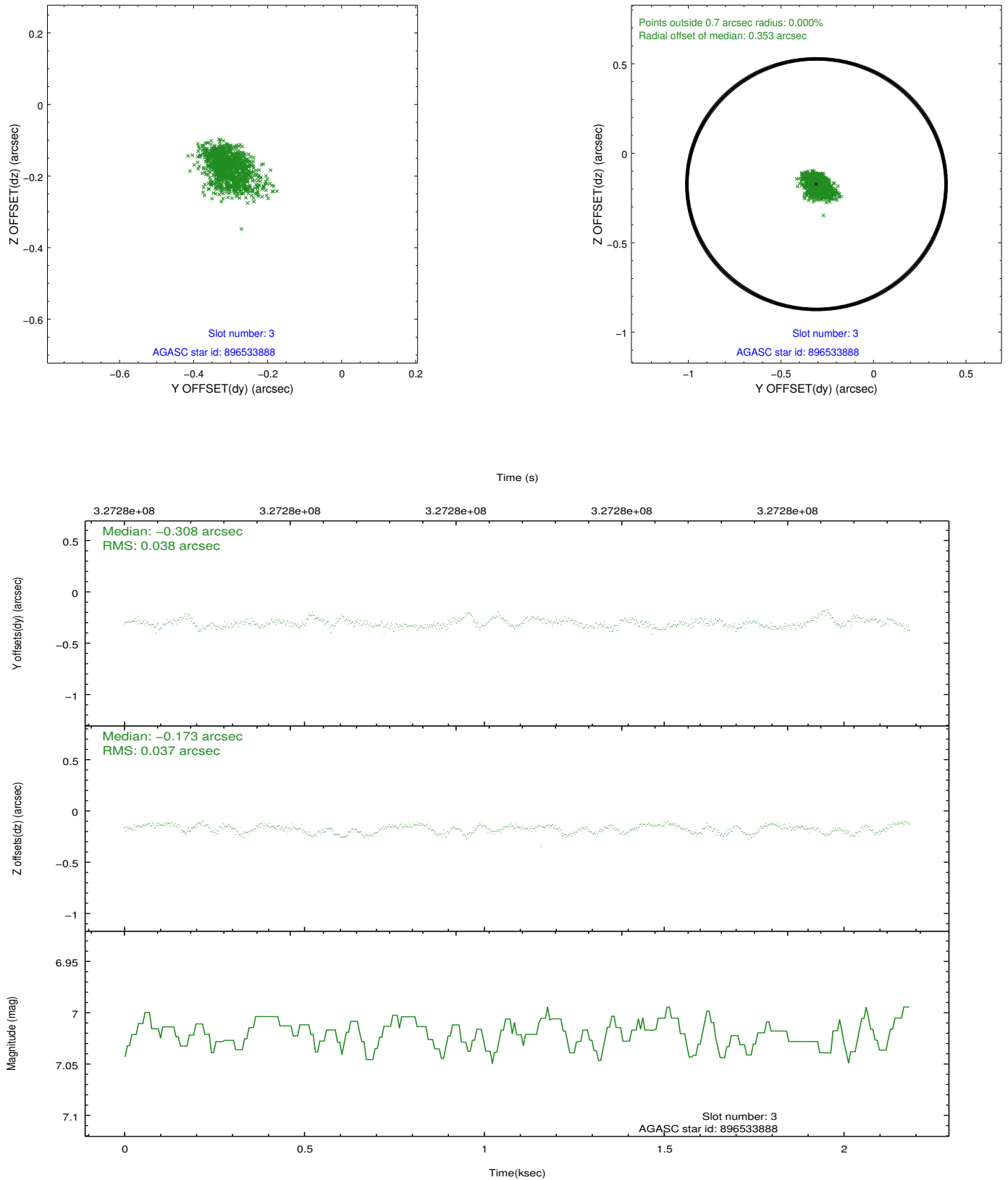
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	6.95	533	-0.086	-0.063	0.009	0.016	0.000000	0.000000	-768.56	-844.13
1	FID	ACIS-I-4	6.96	533	0.191	0.070	0.006	0.011	0.000000	0.000000	2144.39	1060.68
2	FID	ACIS-I-5	7.03	532	-0.206	0.062	0.009	0.015	0.000000	0.000000	-1818.69	1061.91
3	GUIDE	896533888	7.02	1066	-0.308	-0.173	0.056	0.094	266.666434	-29.392757	2338.96	1742.19
4	GUIDE	896541360	7.73	1066	-0.214	-0.159	0.059	0.089	266.684478	-29.453744	2135.18	1649.26
5	GUIDE	966919736	6.89	1066	0.094	0.118	0.058	0.098	267.322278	-30.597445	-1572.84	-1026.29
6	GUIDE	966926496	8.11	1066	0.212	0.081	0.088	0.141	267.109389	-30.299474	-633.40	-192.14
7	GUIDE	966920512	8.38	1065	0.215	0.143	0.064	0.104	267.231170	-30.494681	-1259.18	-685.54

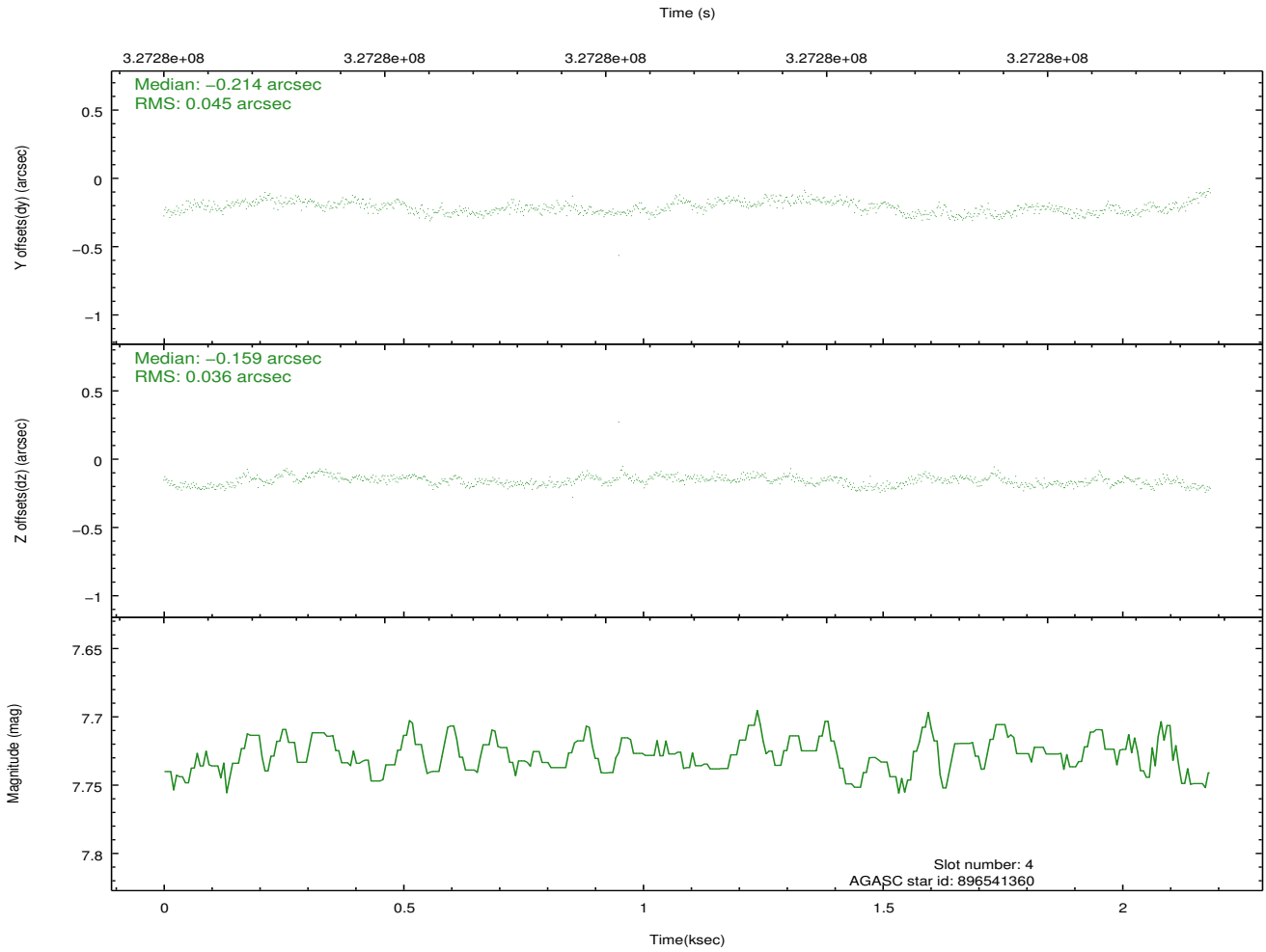
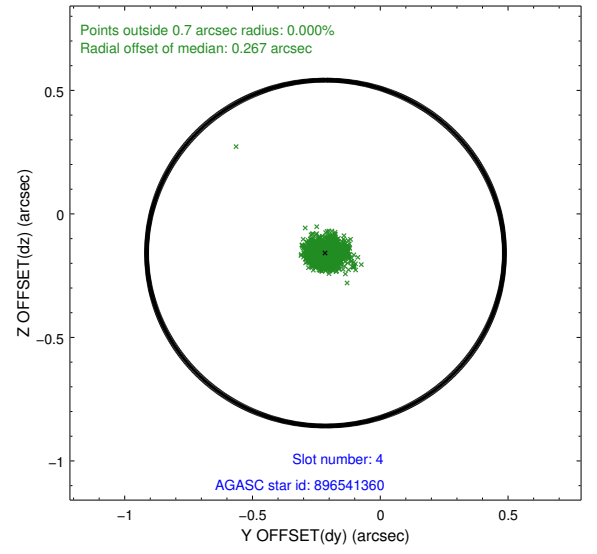
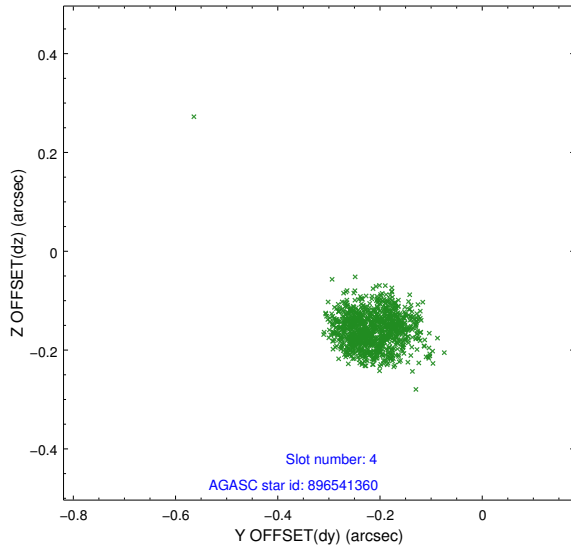


## 2.4 Star Slots

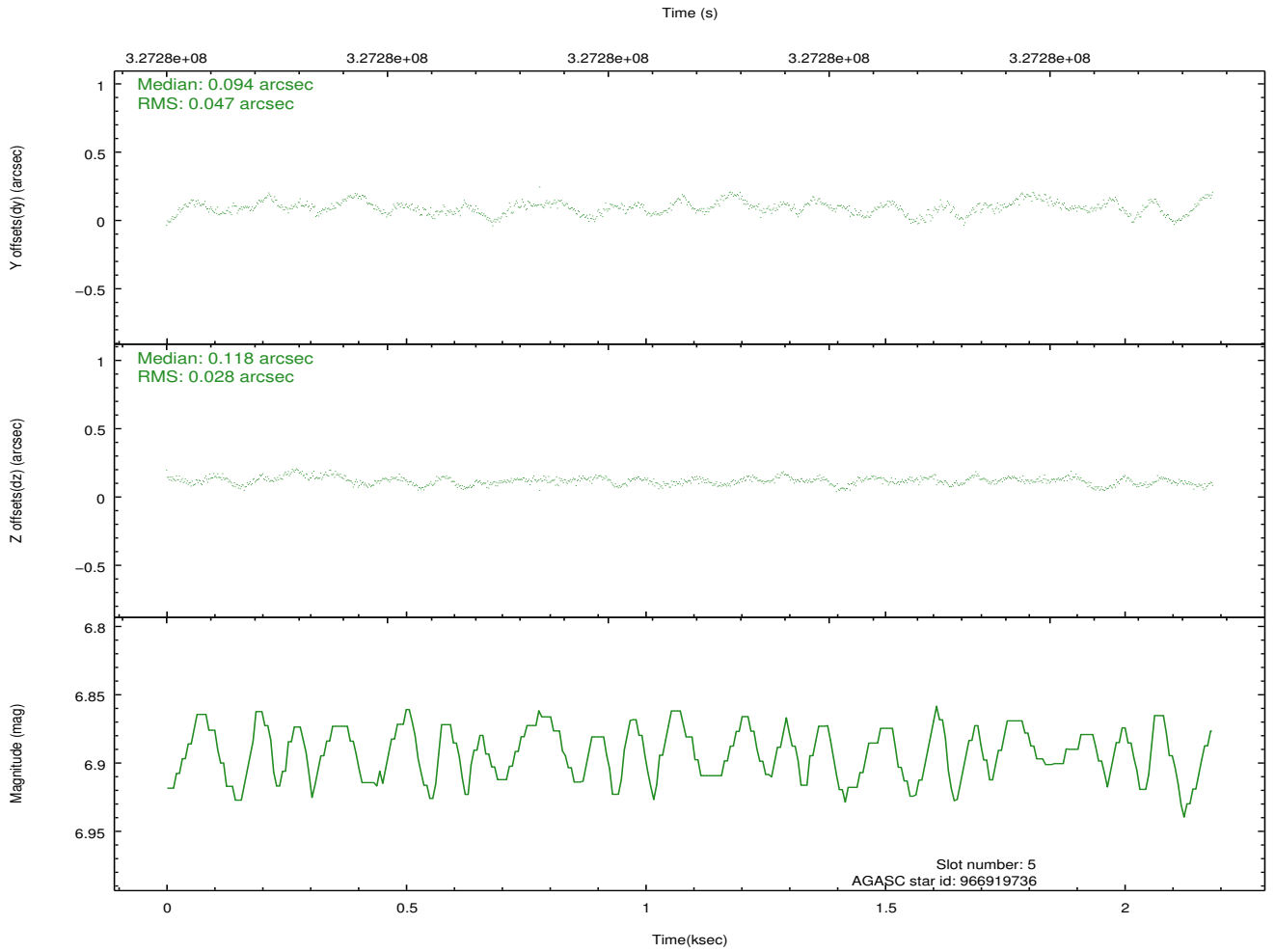
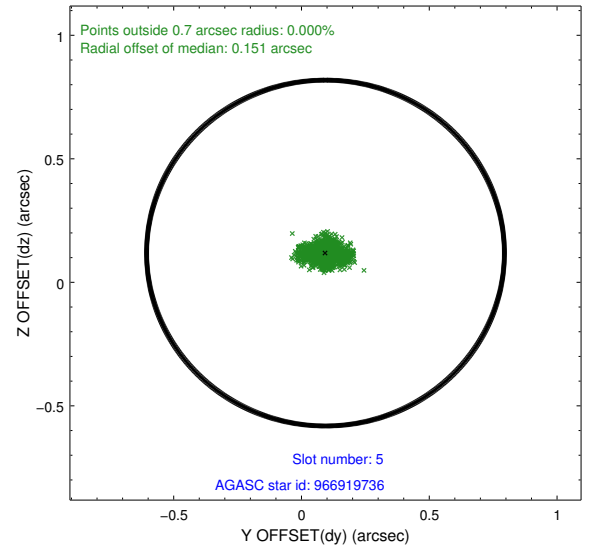
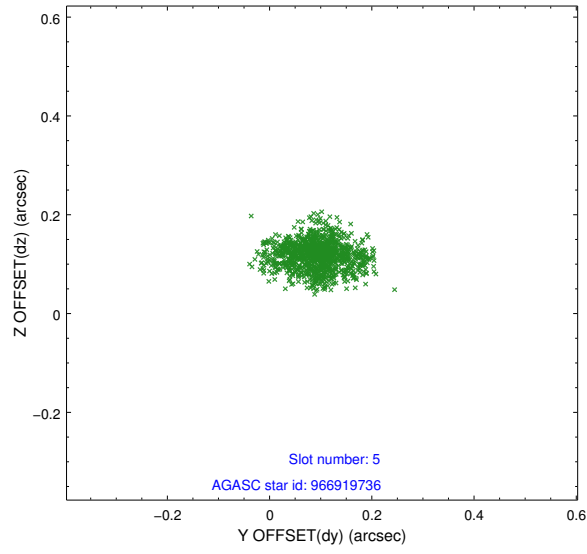
### 2.4.1 Slot 3



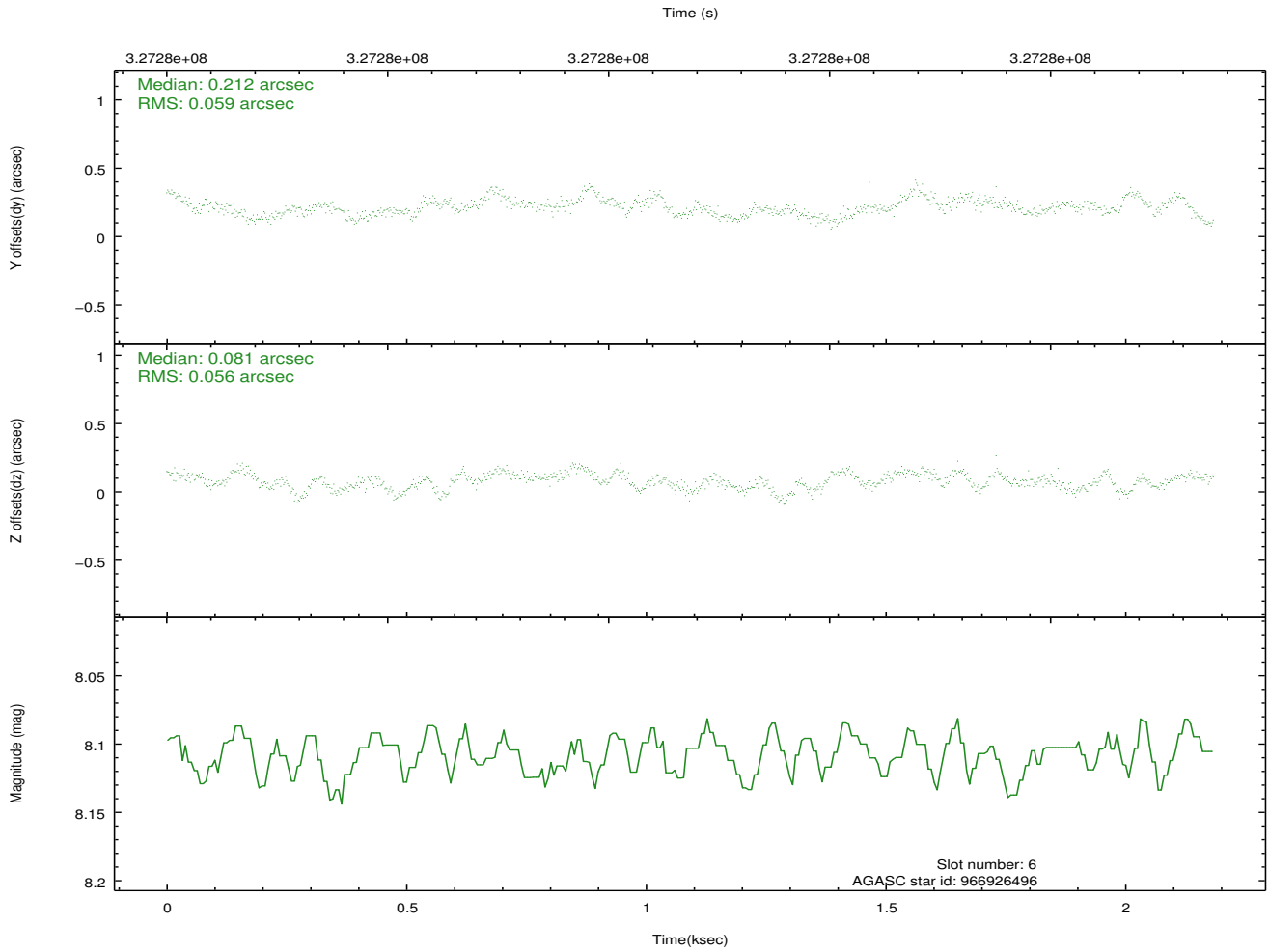
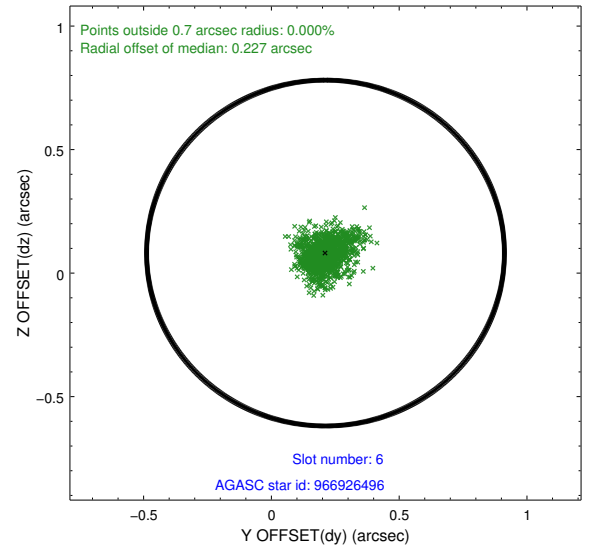
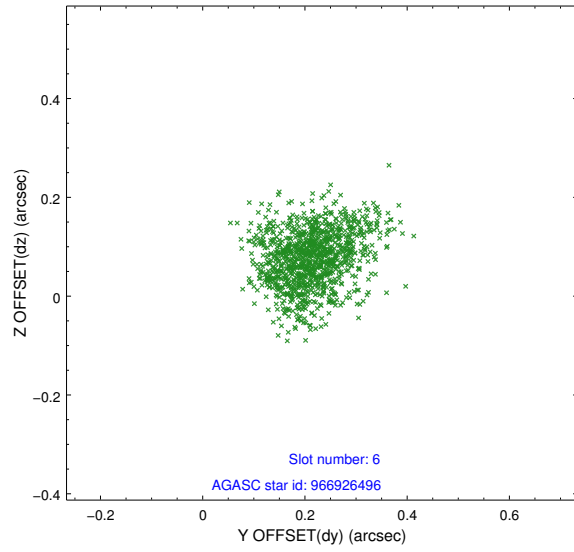
## 2.4.2 Slot 4



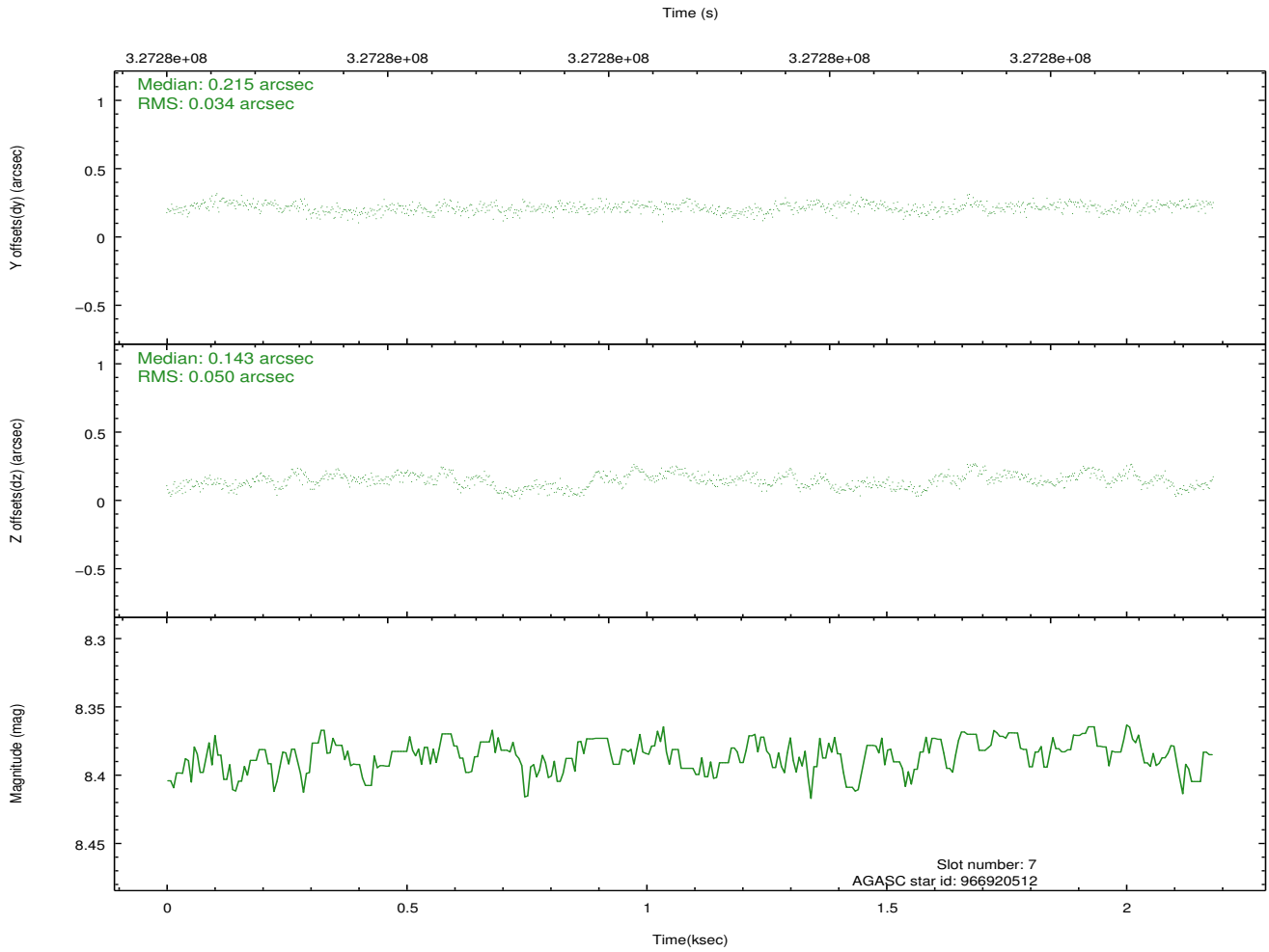
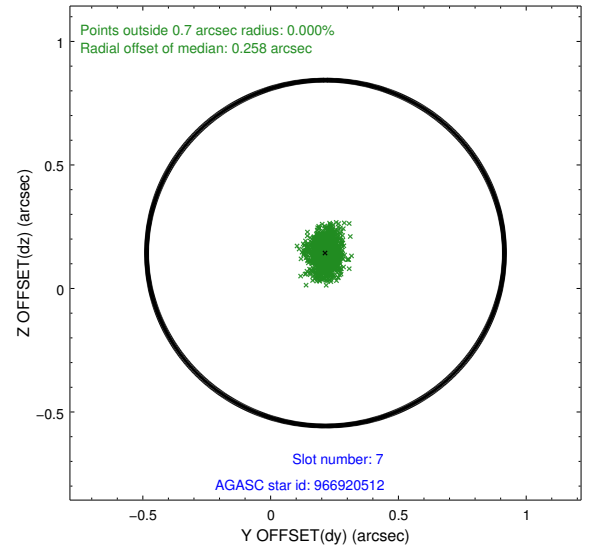
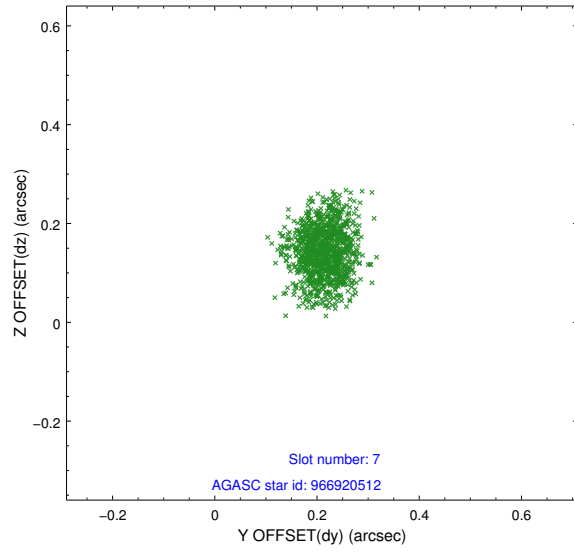
### 2.4.3 Slot 5



## 2.4.4 Slot 6

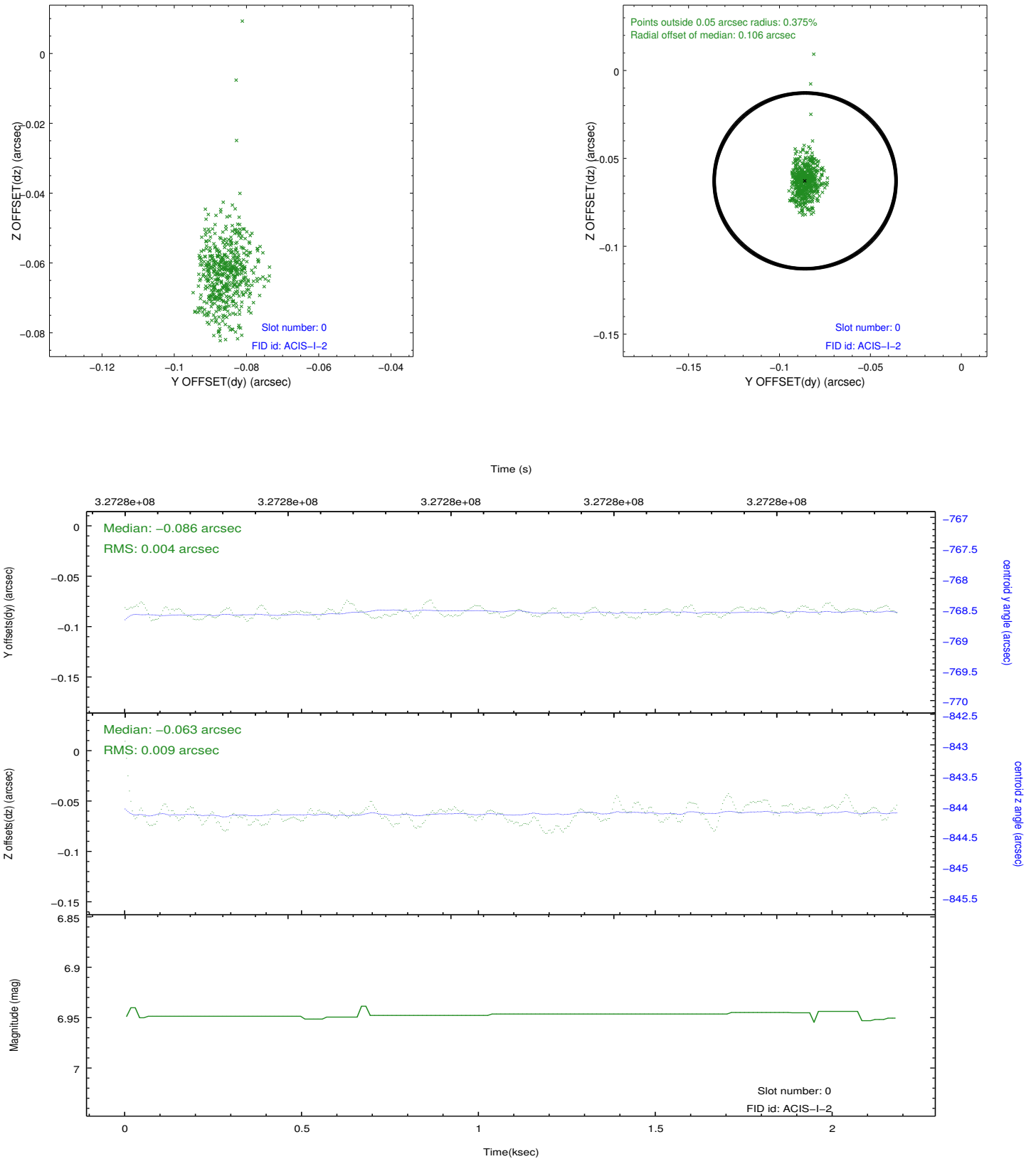


## 2.4.5 Slot 7

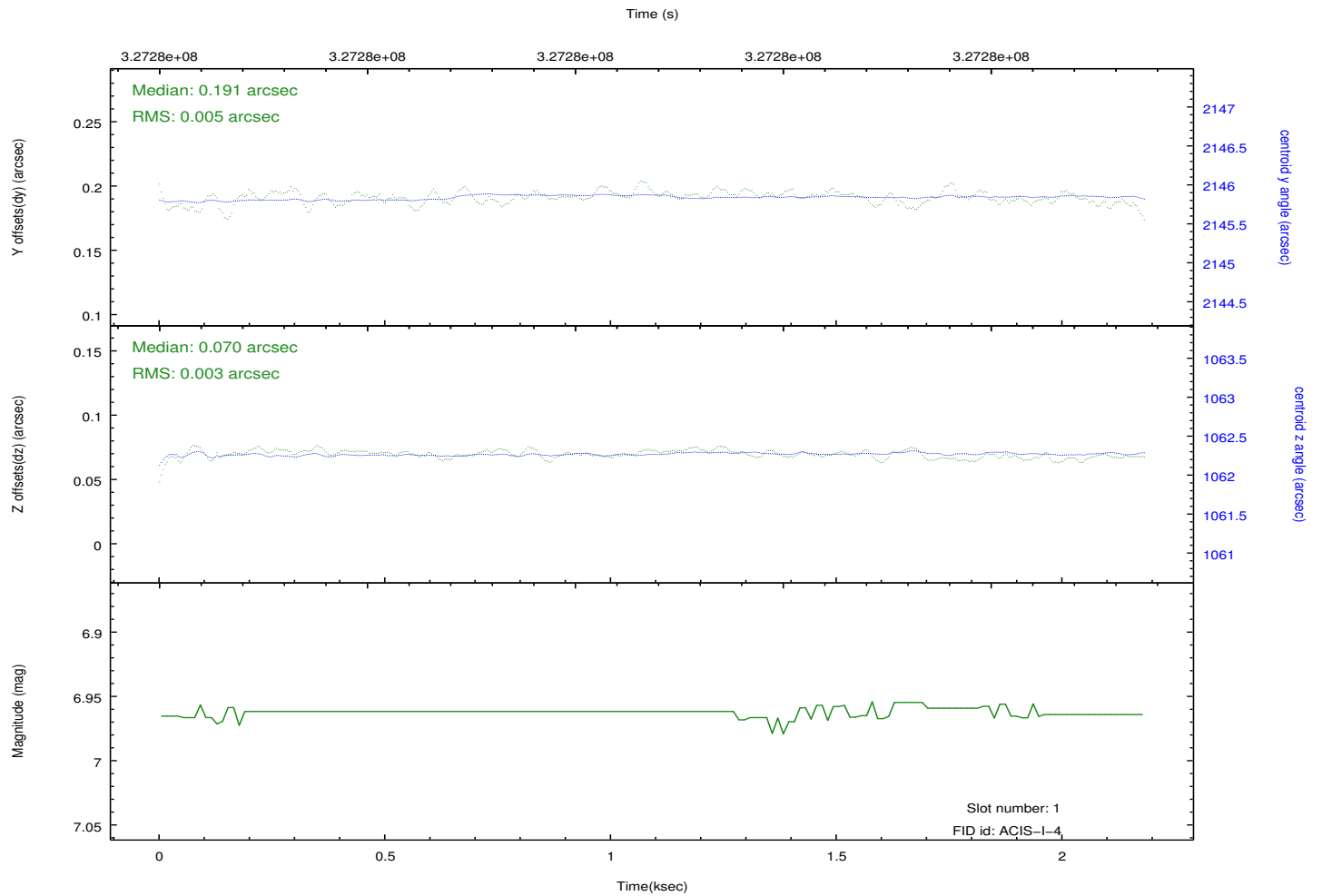
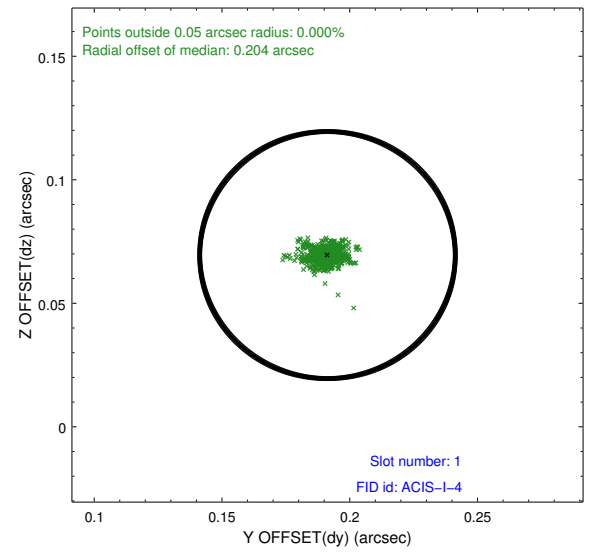
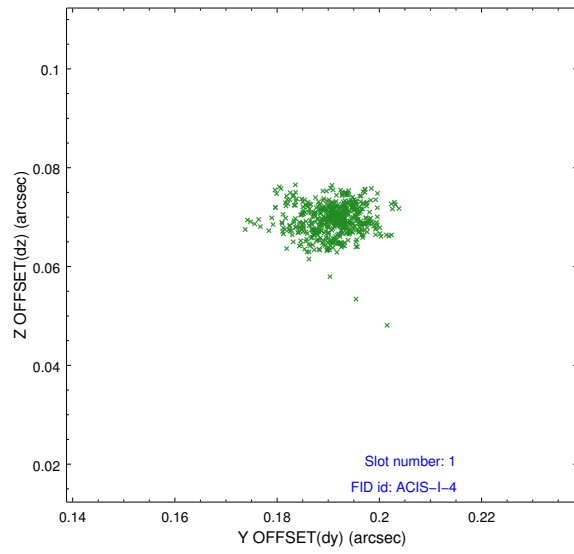


## 2.5 FID Slots

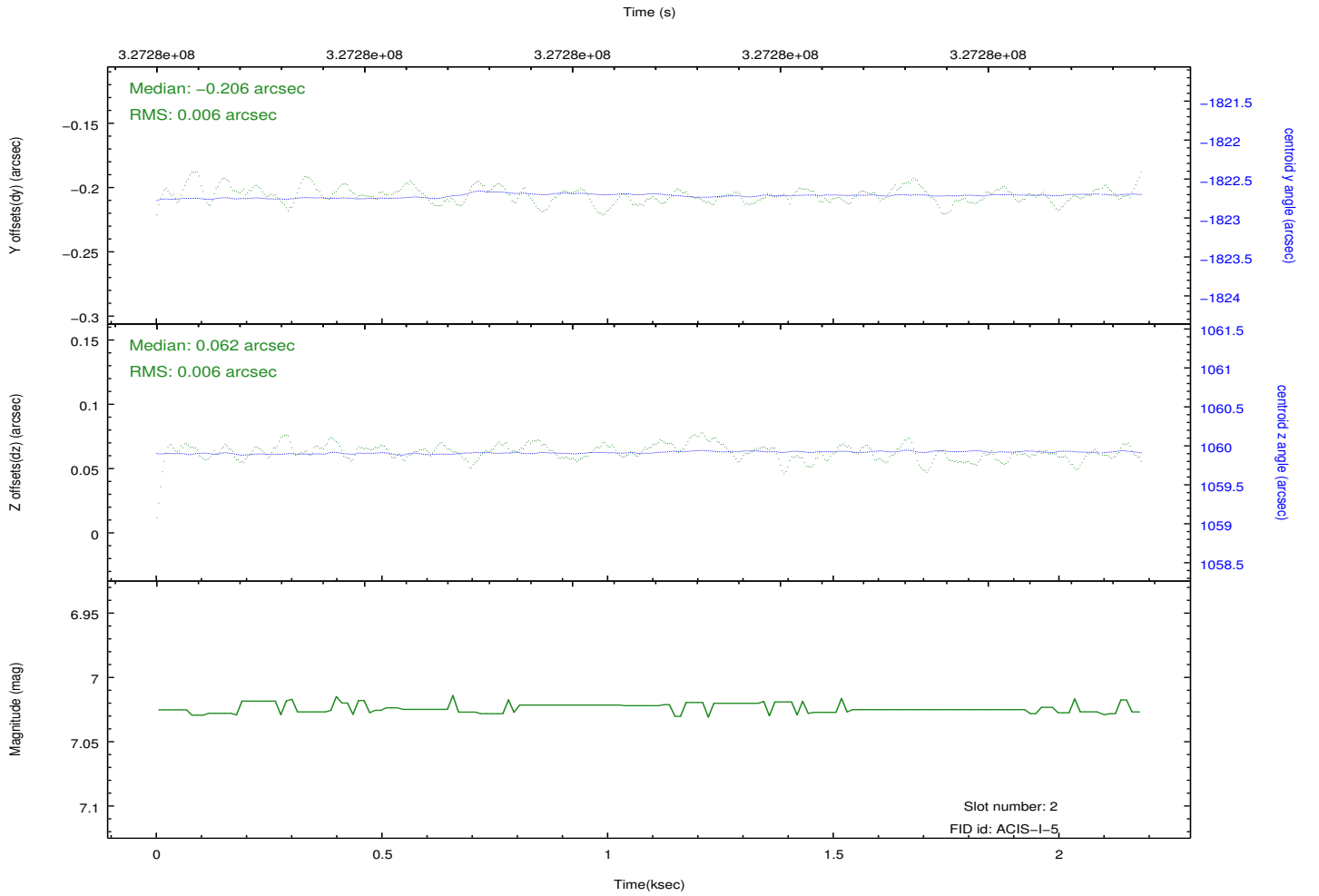
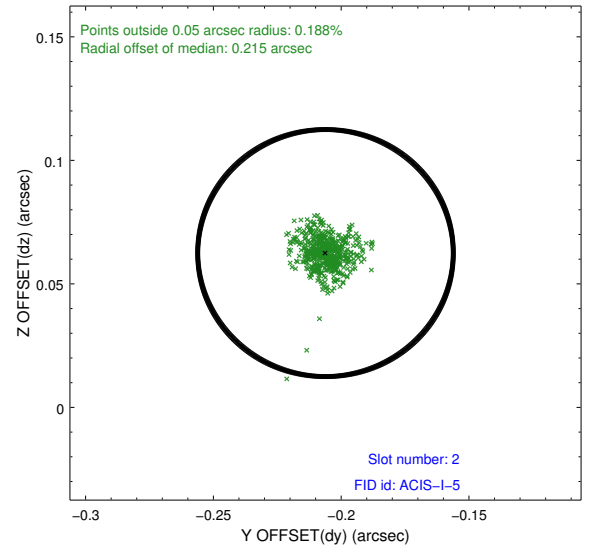
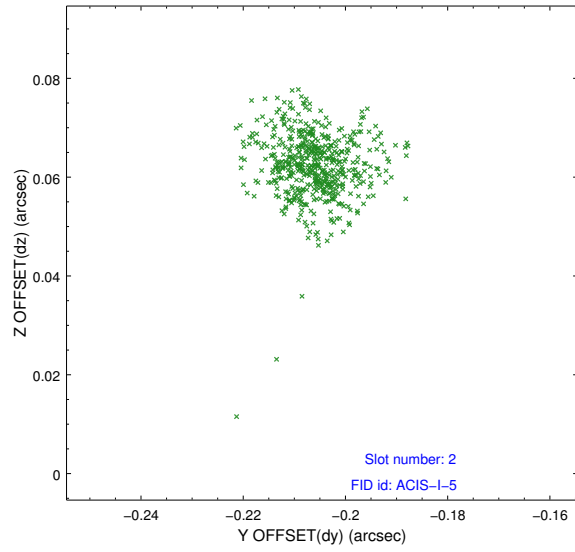
### 2.5.1 Slot 0



## 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.