

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8671 - L2 Version 2  
Chandra X-Ray Center

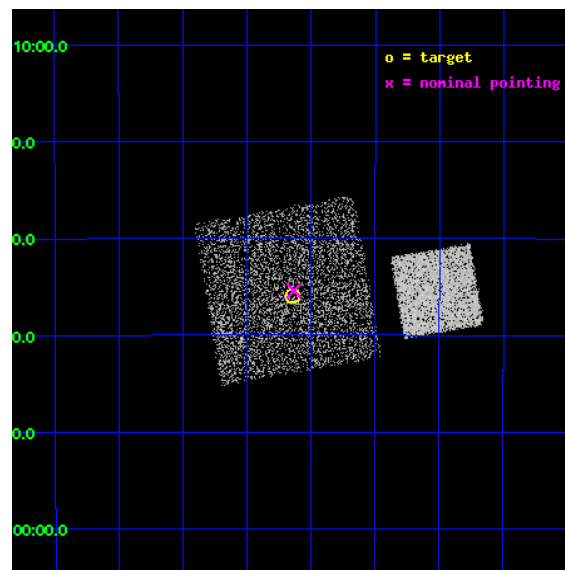
L2 Processing Date : May 15 2012

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# 1 Front

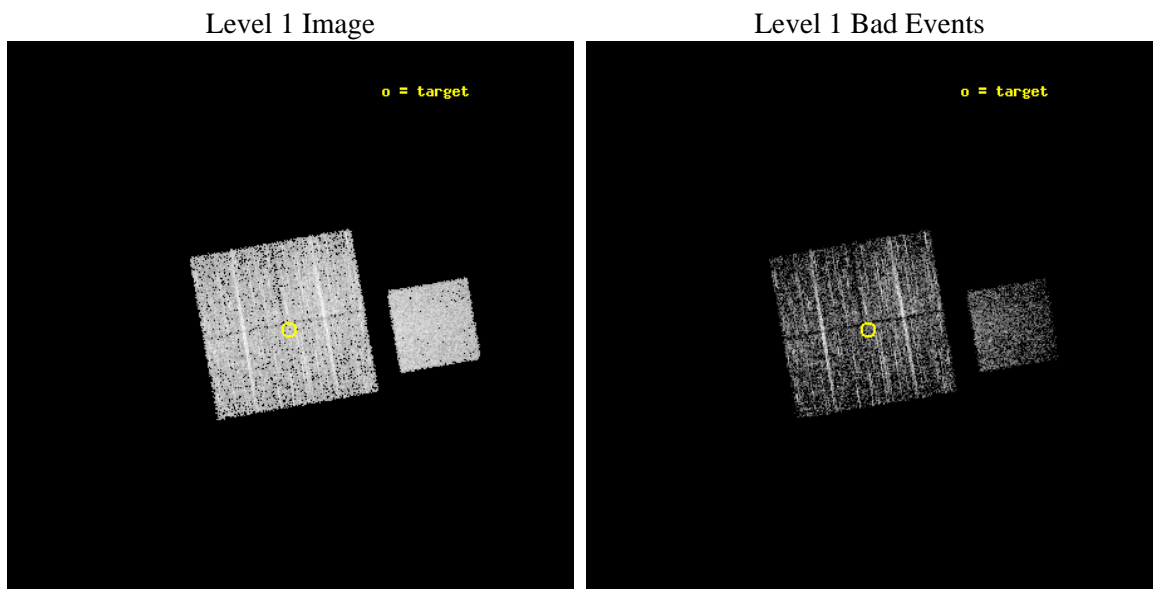
seq_num	400722	Sequence number
obs_id	8671	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO3	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.035029	Observer's specified target RA [deg]
dec_targ	-26.598346	Observer's specified target Dec [deg]
ra_nom	266.03372685358	Nominal RA [deg]
dec_nom	-26.590446721639	Nominal Dec [deg]
roll_nom	80.208113125667	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2185.4590265155	Sum of GTIs [s]
livetime	2156.9043954225	Livetime [s]
ontime0	2188.6000168324	Sum of GTIs [s]
ontime1	2188.6000168324	Sum of GTIs [s]
ontime2	2188.6000168324	Sum of GTIs [s]
ontime3	2185.4590265155	Sum of GTIs [s]
ontime7	2188.6000168324	Sum of GTIs [s]
l2events	15299	Number of level 2 events



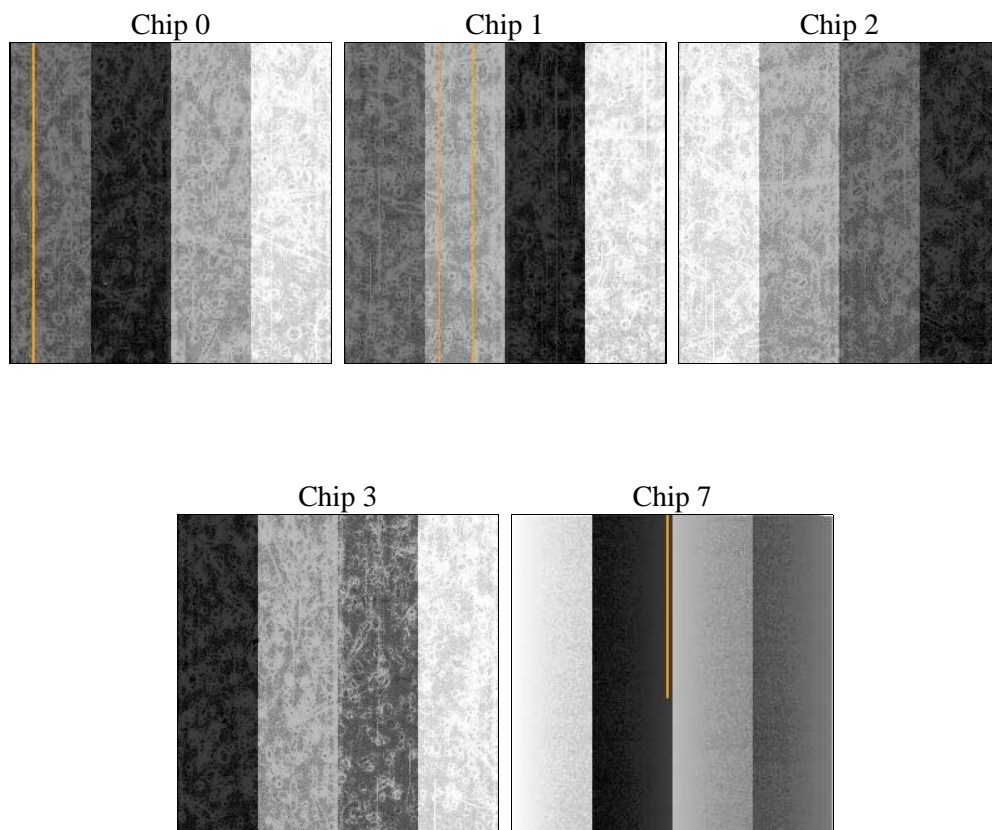
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2185.4590265155	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2188.6000168324	Sum of GTIs [s]
date	2012-05-15T03:04:25	Date and time of file creation	ontime1	2188.6000168324	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2188.6000168324	Sum of GTIs [s]
			ontime3	2185.4590265155	Sum of GTIs [s]
			ontime7	2188.6000168324	Sum of GTIs [s]
			l1events	101008	Number of level 1 events

### 2.1.4 Events

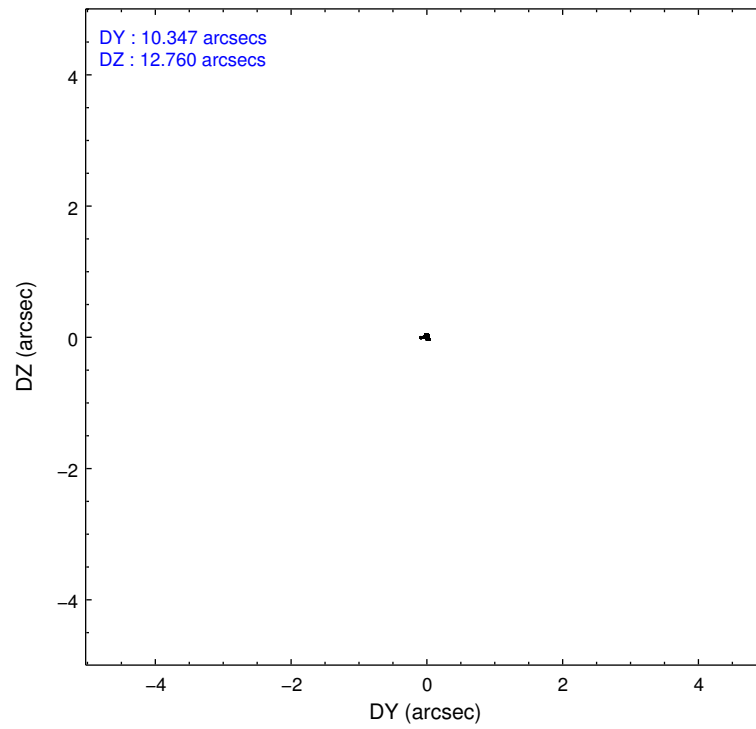
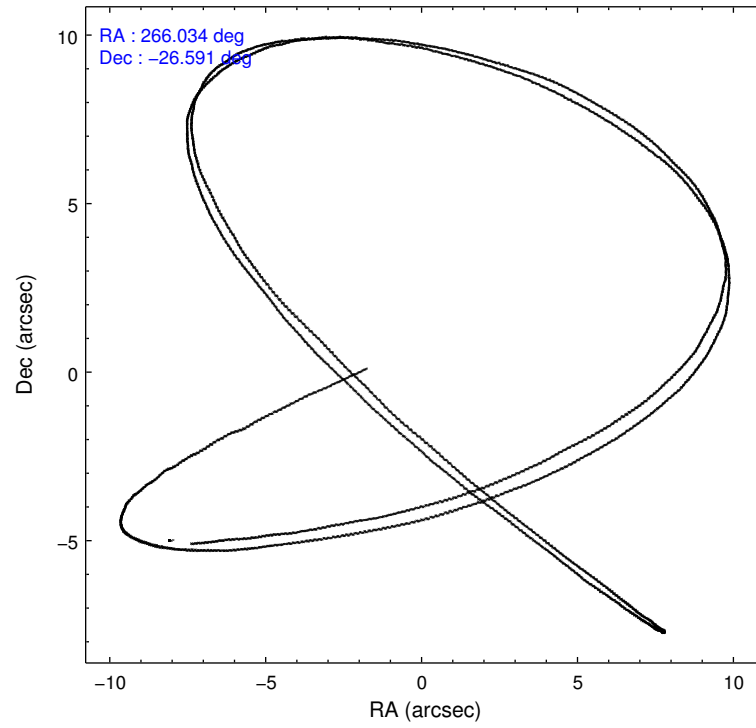
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	18121	18406	21890	19884	22707
rejected events	16159	16183	19975	18088	13743
rejected %	89%	87%	91%	90%	60%

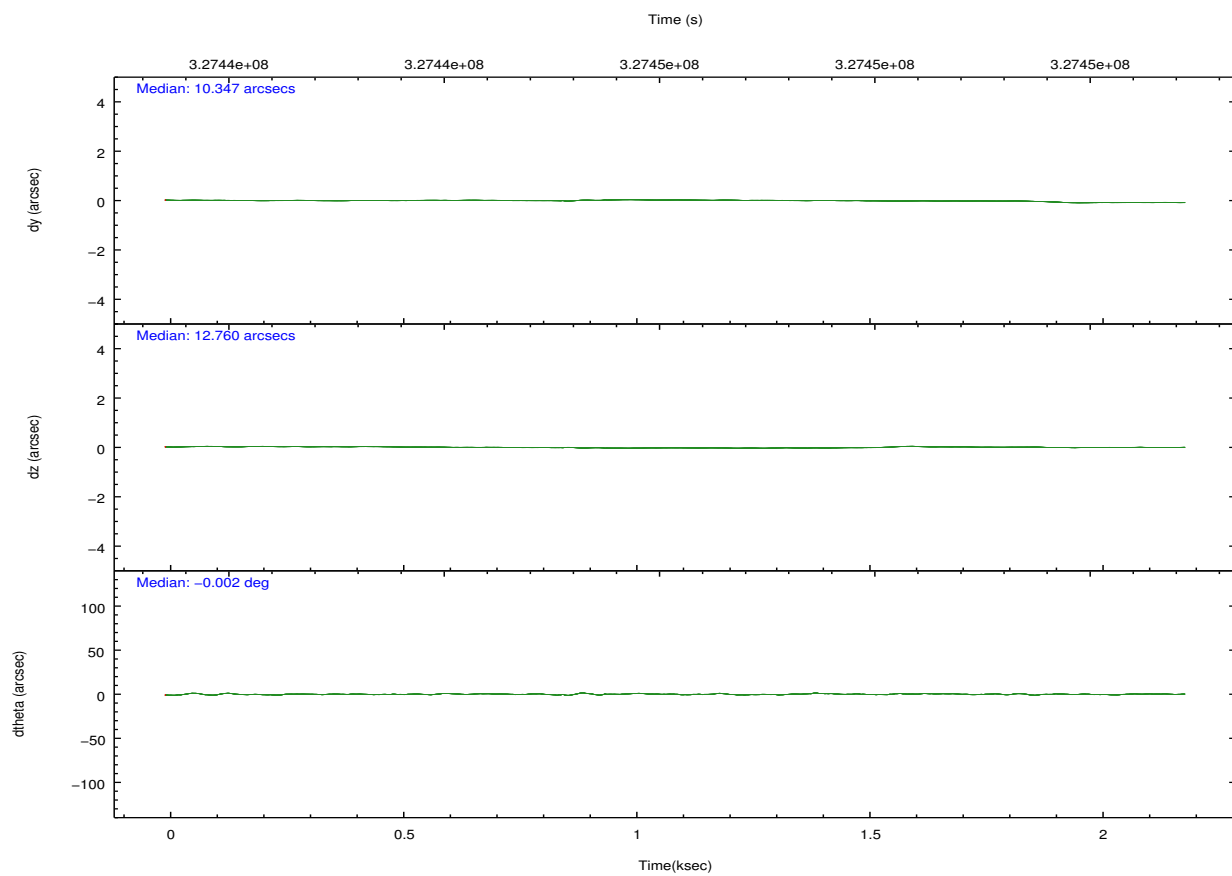
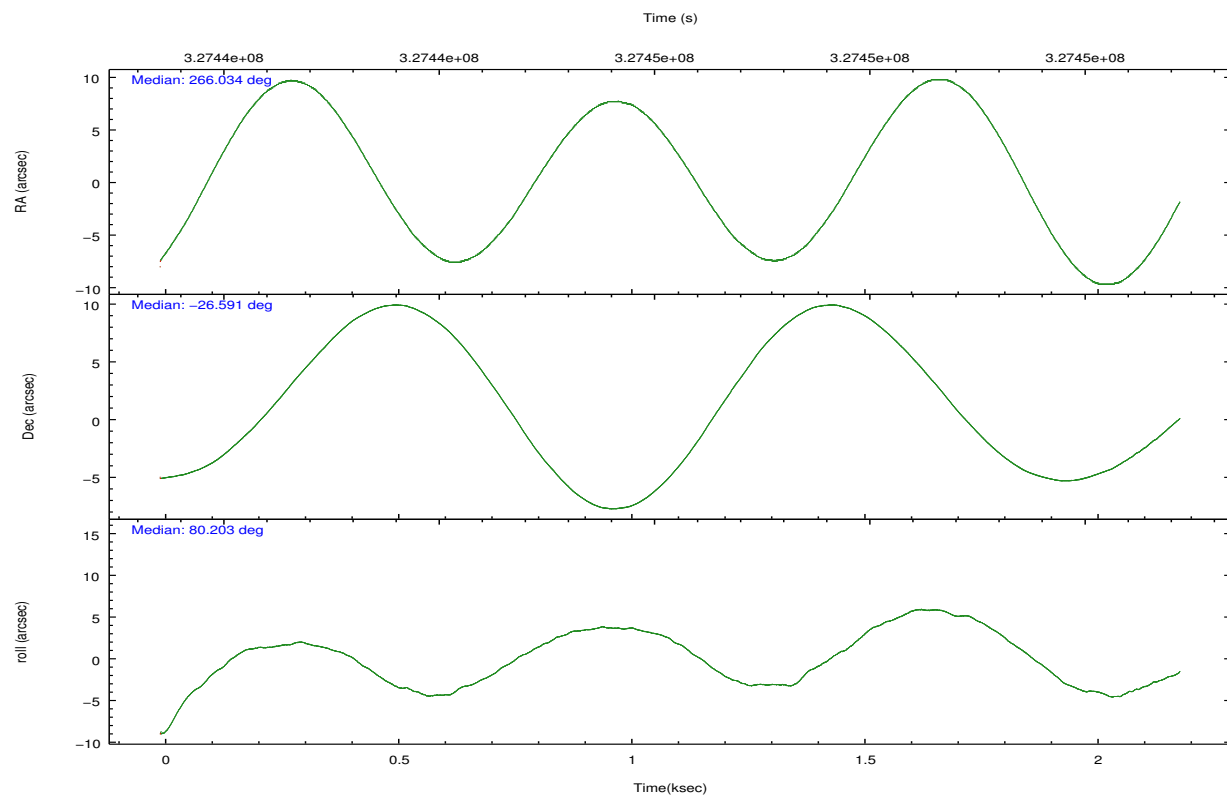
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	924	1027	922	856	1056
	5%	5%	4%	4%	4%
grade 1 events	13	12	20	15	30
	0%	0%	0%	0%	0%
grade 2 events	504	568	509	431	2112
	2%	3%	2%	2%	9%
grade 3 events	244	262	191	202	945
	1%	1%	0%	1%	4%
grade 4 events	213	234	233	203	931
	1%	1%	1%	1%	4%
grade 5 events	708	794	681	816	2403
	3%	4%	3%	4%	10%
grade 6 events	381	449	350	390	5297
	2%	2%	1%	1%	23%
grade 7 events	15134	15060	18984	16971	9933
	83%	81%	86%	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	266.044594	266.0337268535825	CCD I2 on	Y	Y
[deg] Pointing Dec	-26.616105	-26.59044672163857	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004284	80.20811312566724	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)	327444624.184000	327444248.30678	CCD S5 on	N	N
Observation start date	2008-05-17T20:49:19	2008-05-17T20:44:08	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327446624.184000	327446758.53191	On-chip summing requested	N	N
Observation end date	2008-05-17T21:22:39	2008-05-17T21:25:58	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





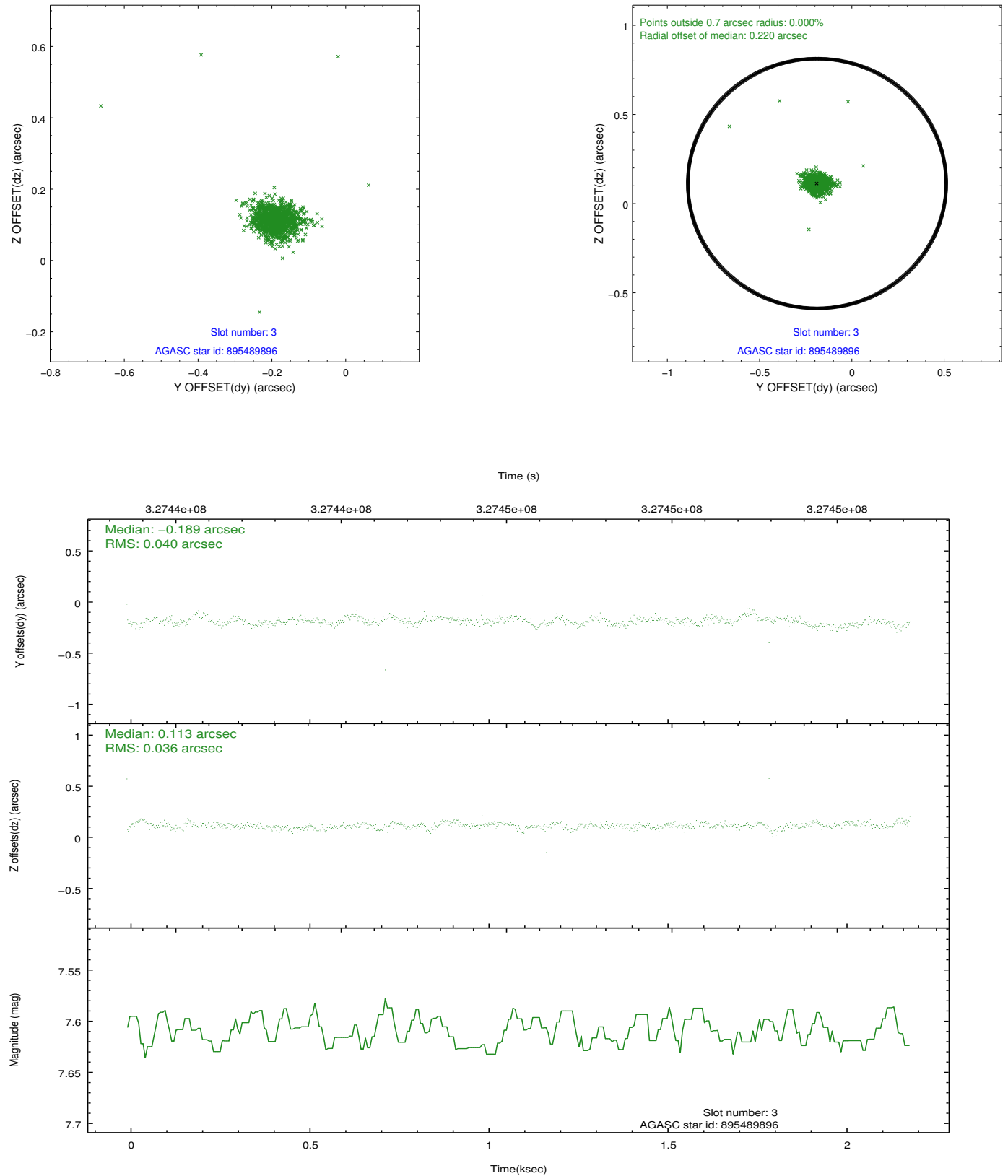
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	534	0.050	0.009	0.007	0.013	0.000000	0.000000	929.30	-836.30
1	FID	ACIS-I-5	7.00	534	-0.188	0.068	0.007	0.012	0.000000	0.000000	-1817.39	1059.77
2	FID	ACIS-I-6	7.01	534	0.046	-0.007	0.006	0.011	0.000000	0.000000	391.61	1707.56
3	GUIDE	895489896	7.61	1068	-0.189	0.113	0.047	0.079	266.605795	-26.200300	1785.73	-1526.06
4	GUIDE	896013040	7.35	1068	0.129	0.005	0.059	0.087	266.506589	-26.972299	-1005.45	-1684.55
5	GUIDE	896014680	8.76	1068	0.257	0.109	0.076	0.120	266.460330	-27.216583	-1899.79	-1688.25
6	GUIDE	896015112	9.17	1067	-0.113	0.093	0.089	0.138	266.684847	-26.286161	1522.52	-1831.49
7	GUIDE	896015880	8.50	1067	-0.090	-0.318	0.081	0.137	265.986633	-26.306686	1066.61	375.42

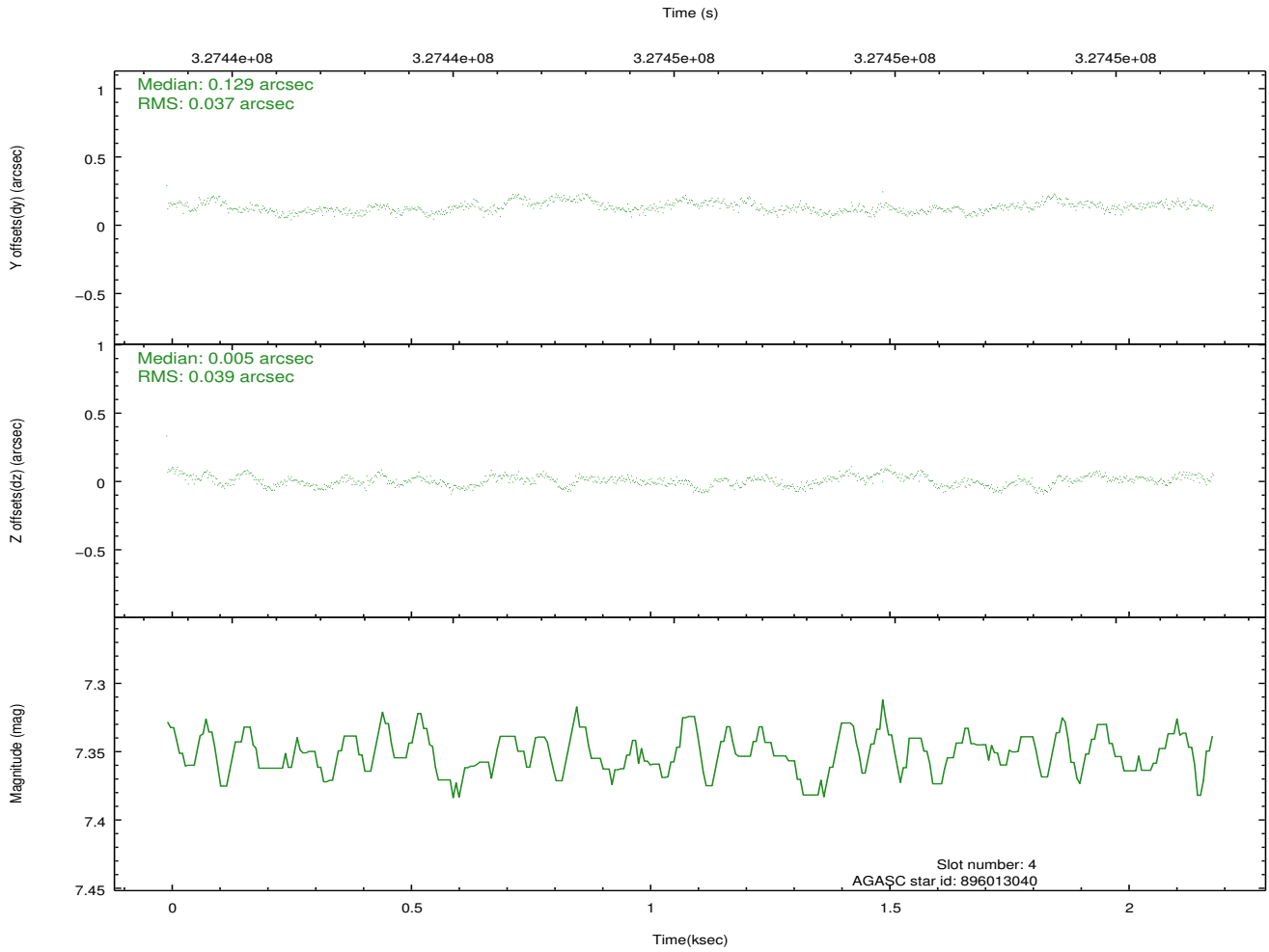
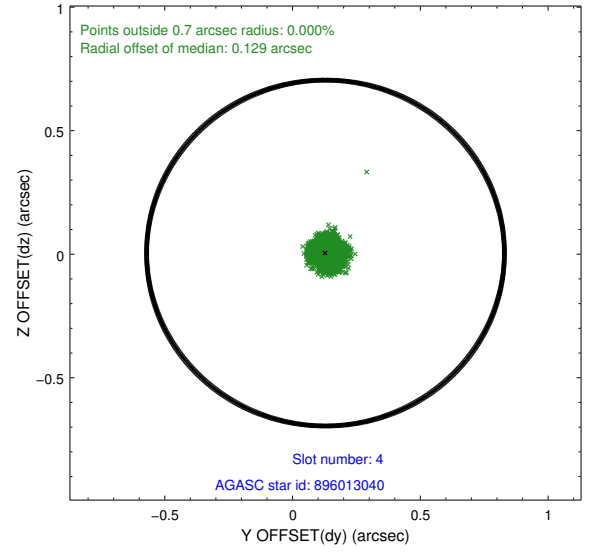
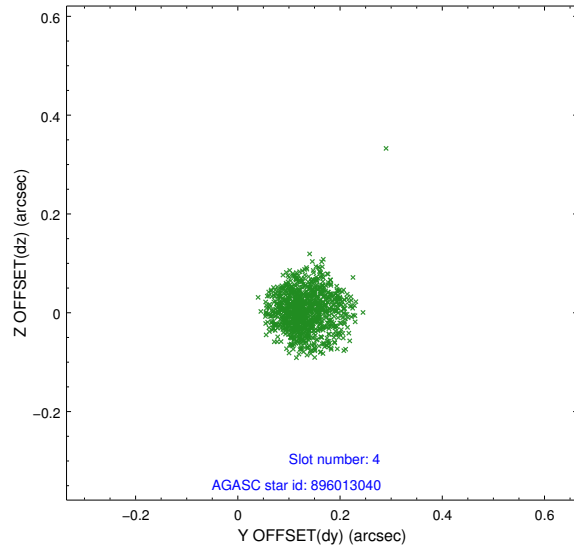


## 2.4 Star Slots

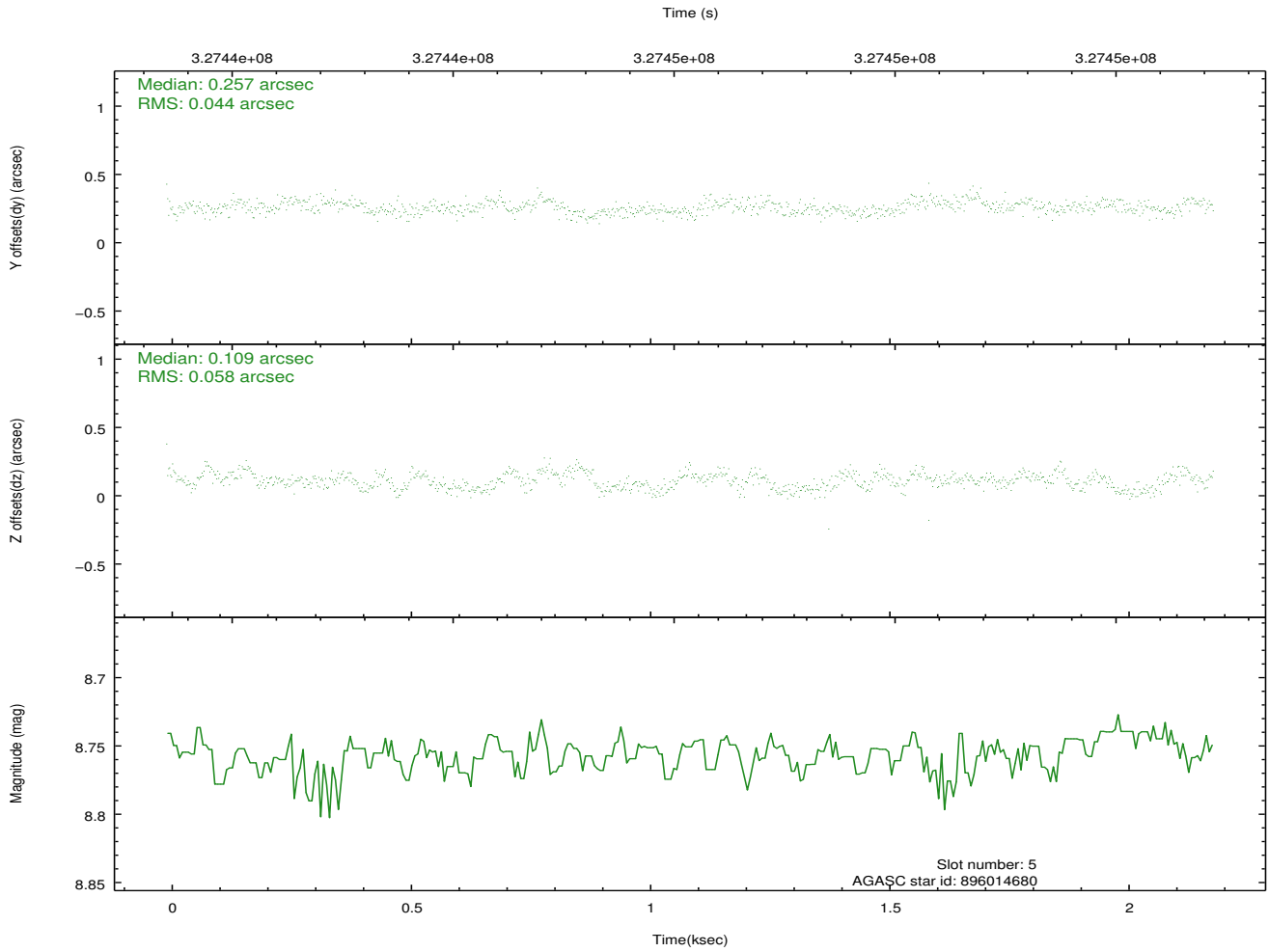
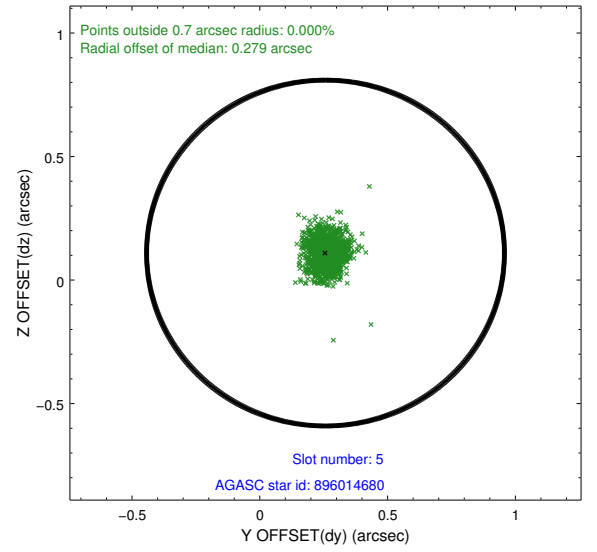
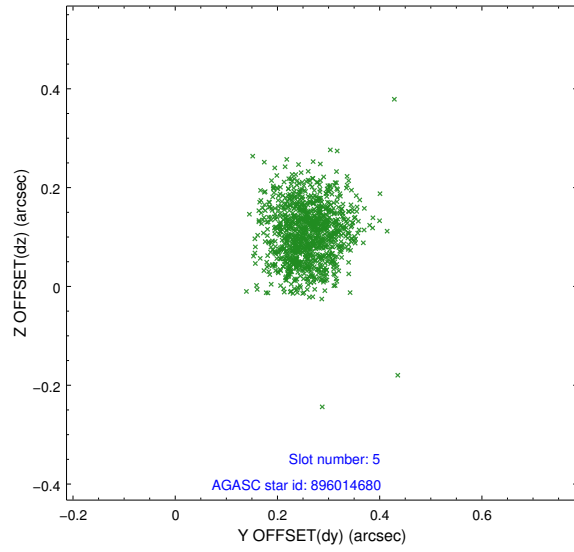
### 2.4.1 Slot 3



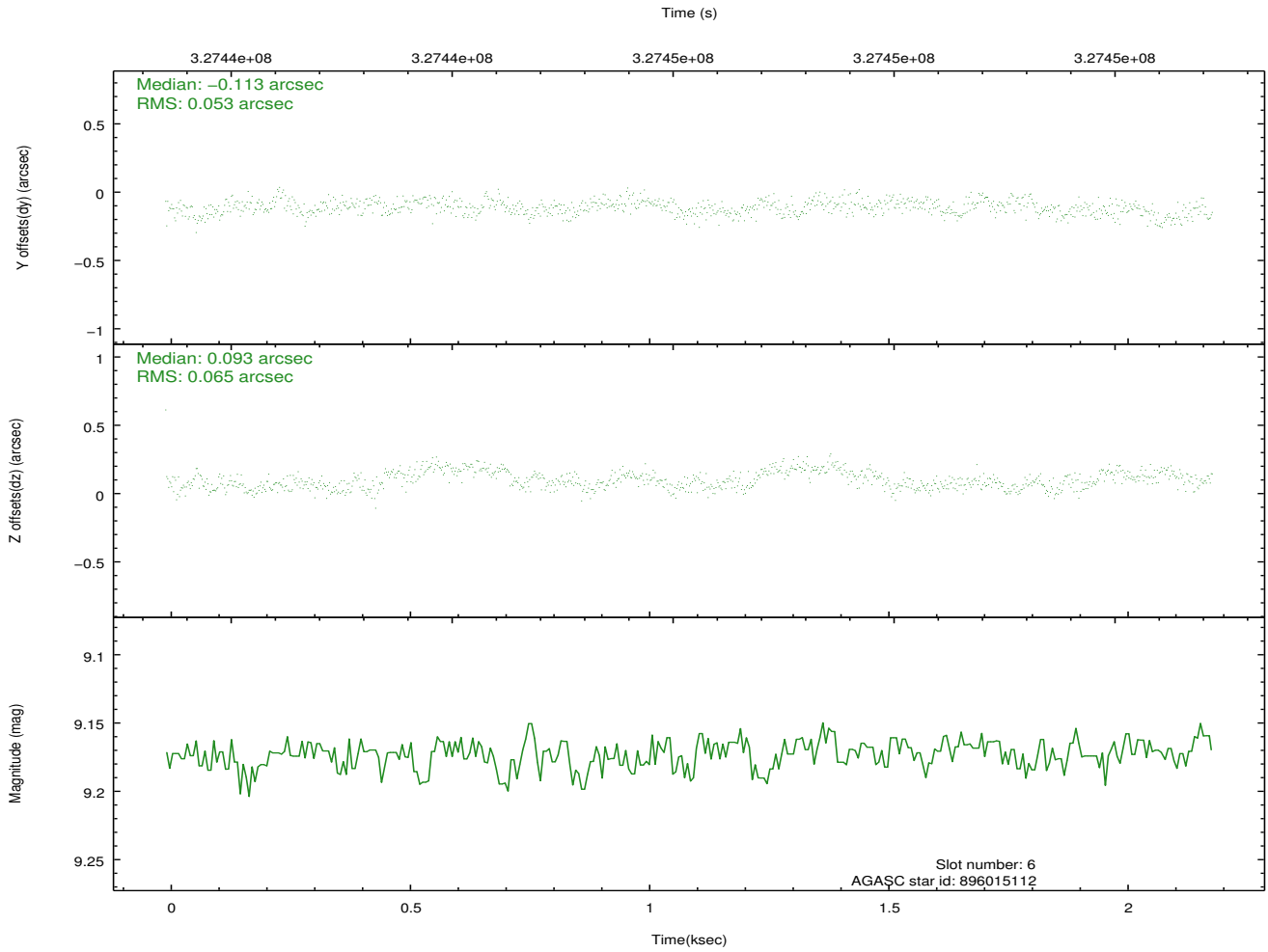
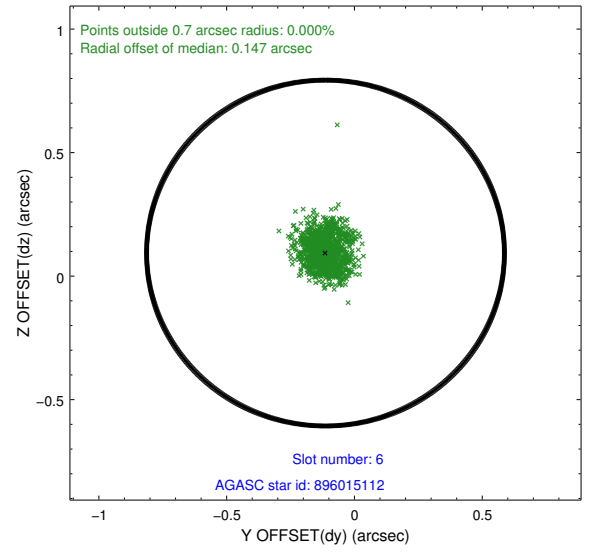
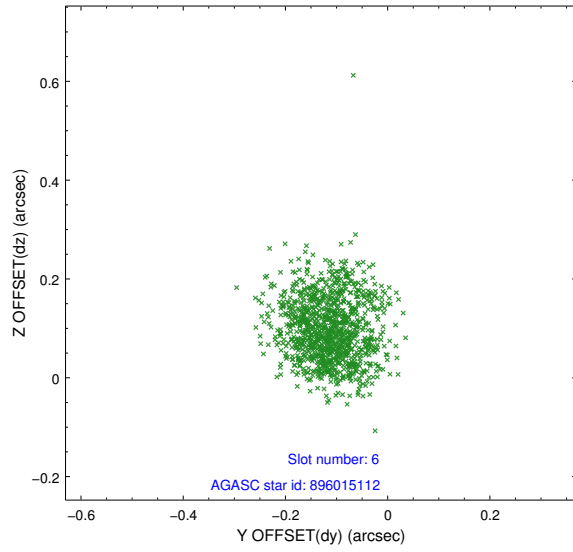
## 2.4.2 Slot 4



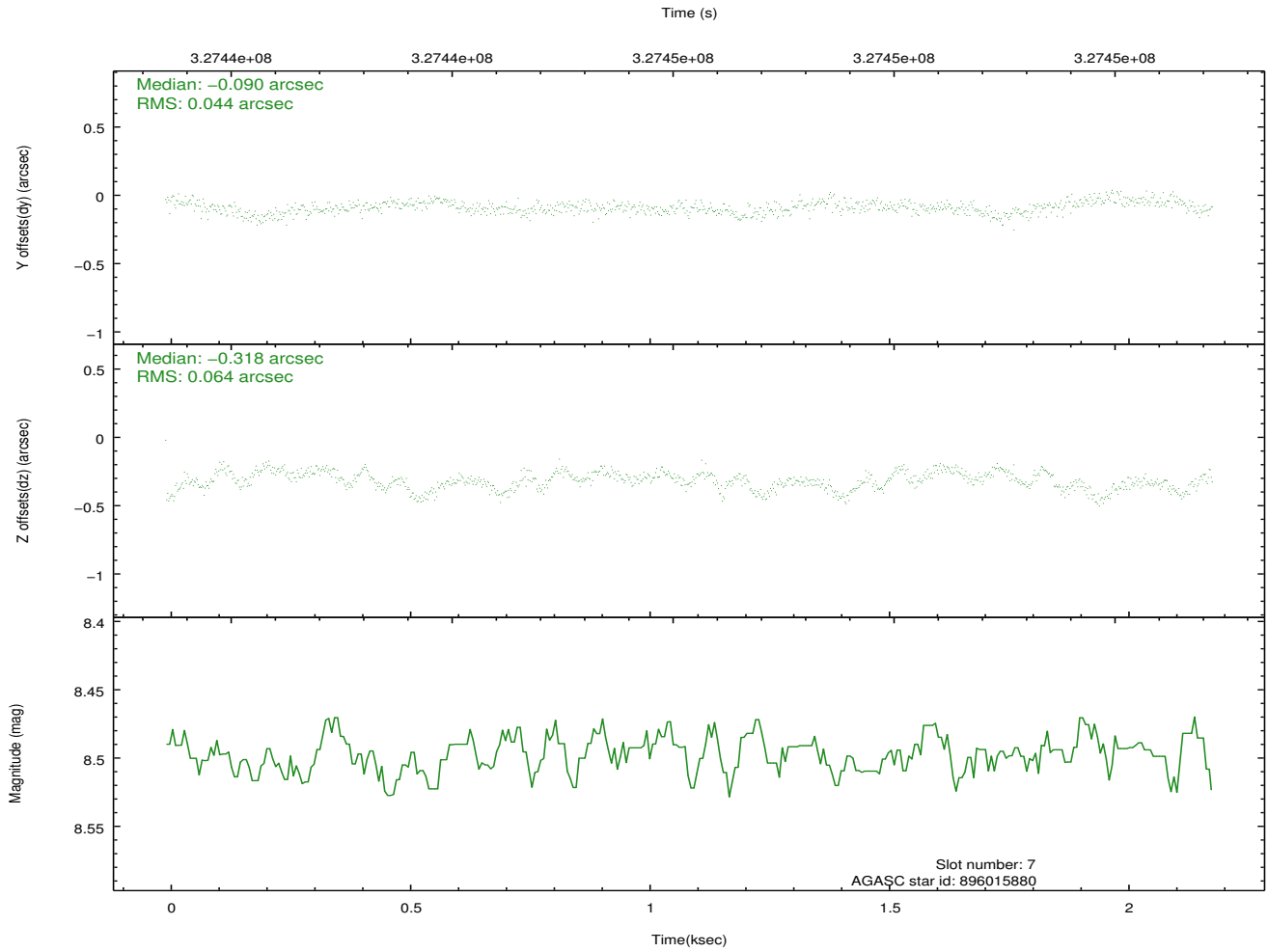
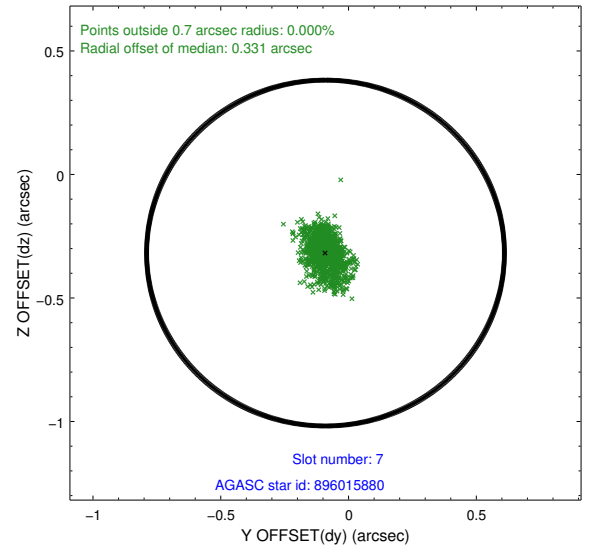
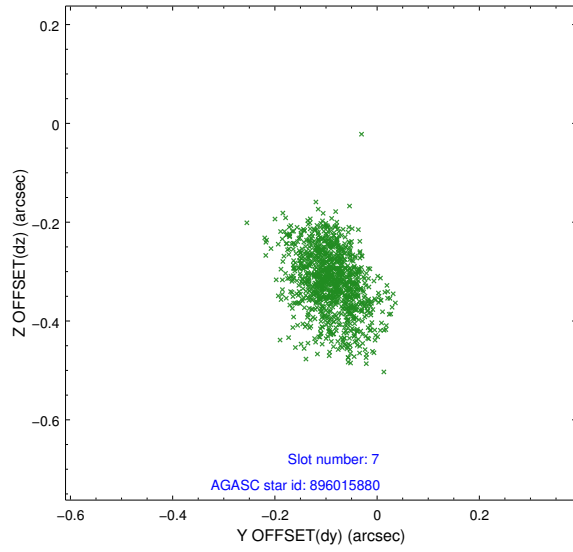
### 2.4.3 Slot 5



## 2.4.4 Slot 6

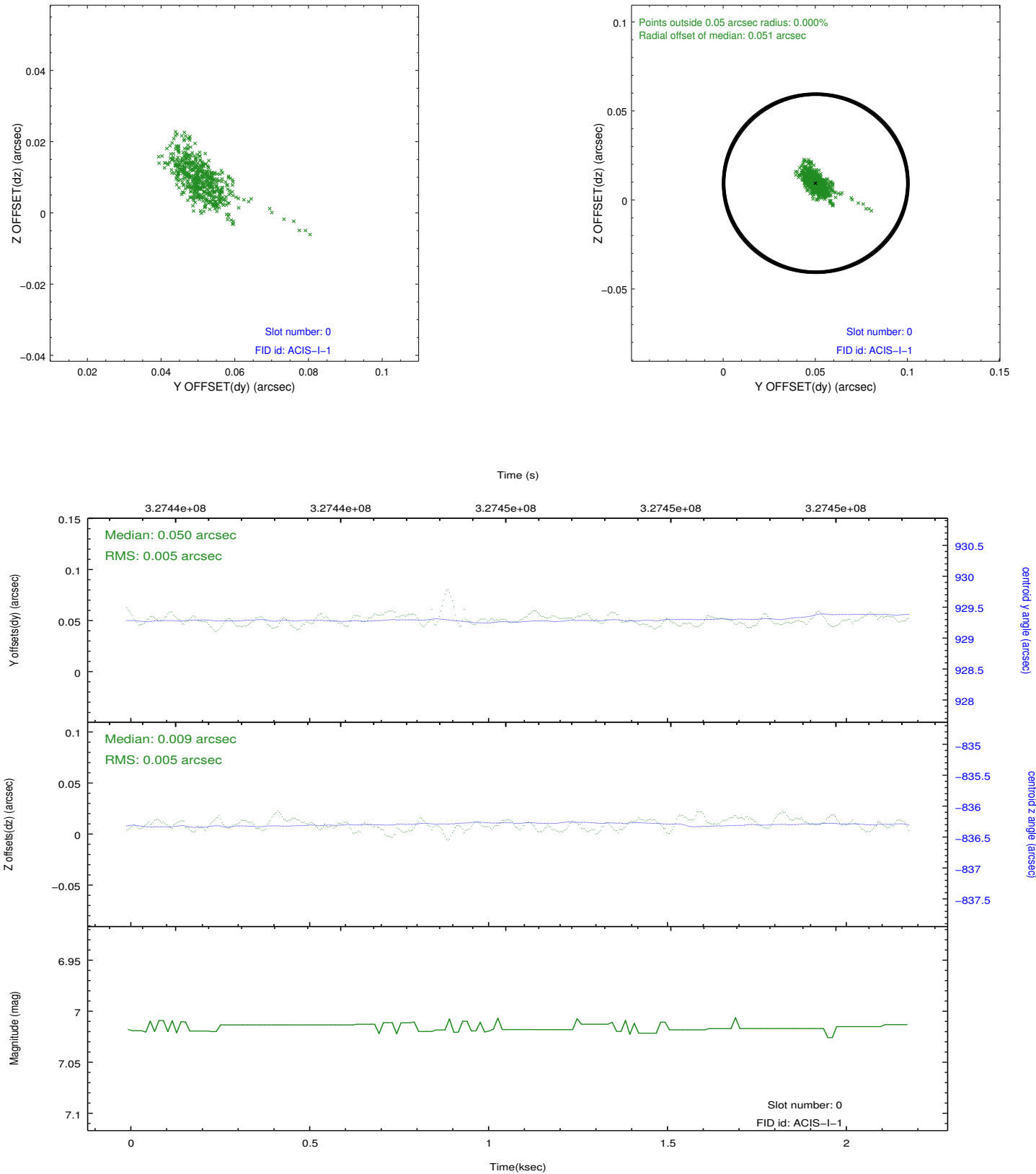


## 2.4.5 Slot 7

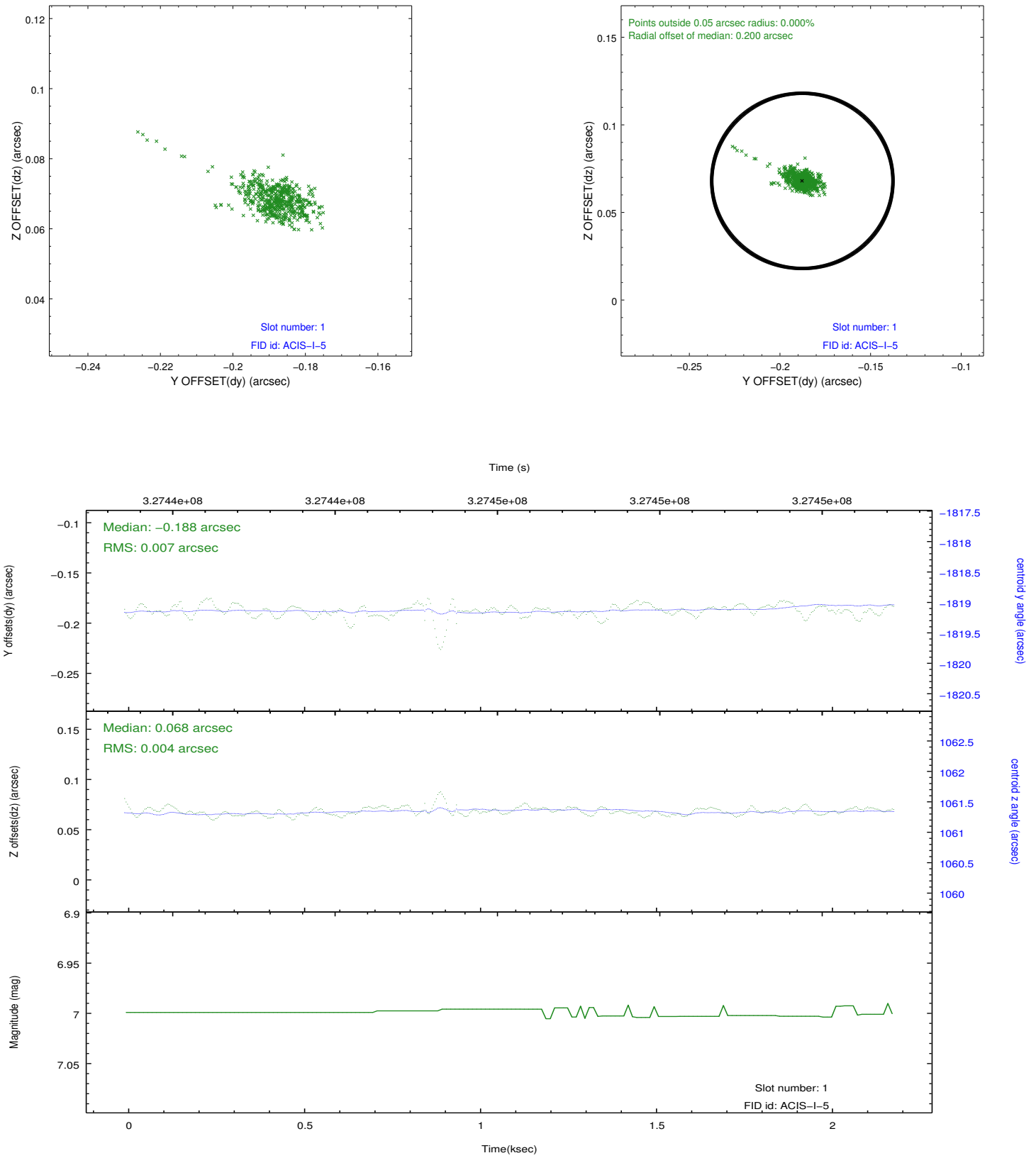


## 2.5 FID Slots

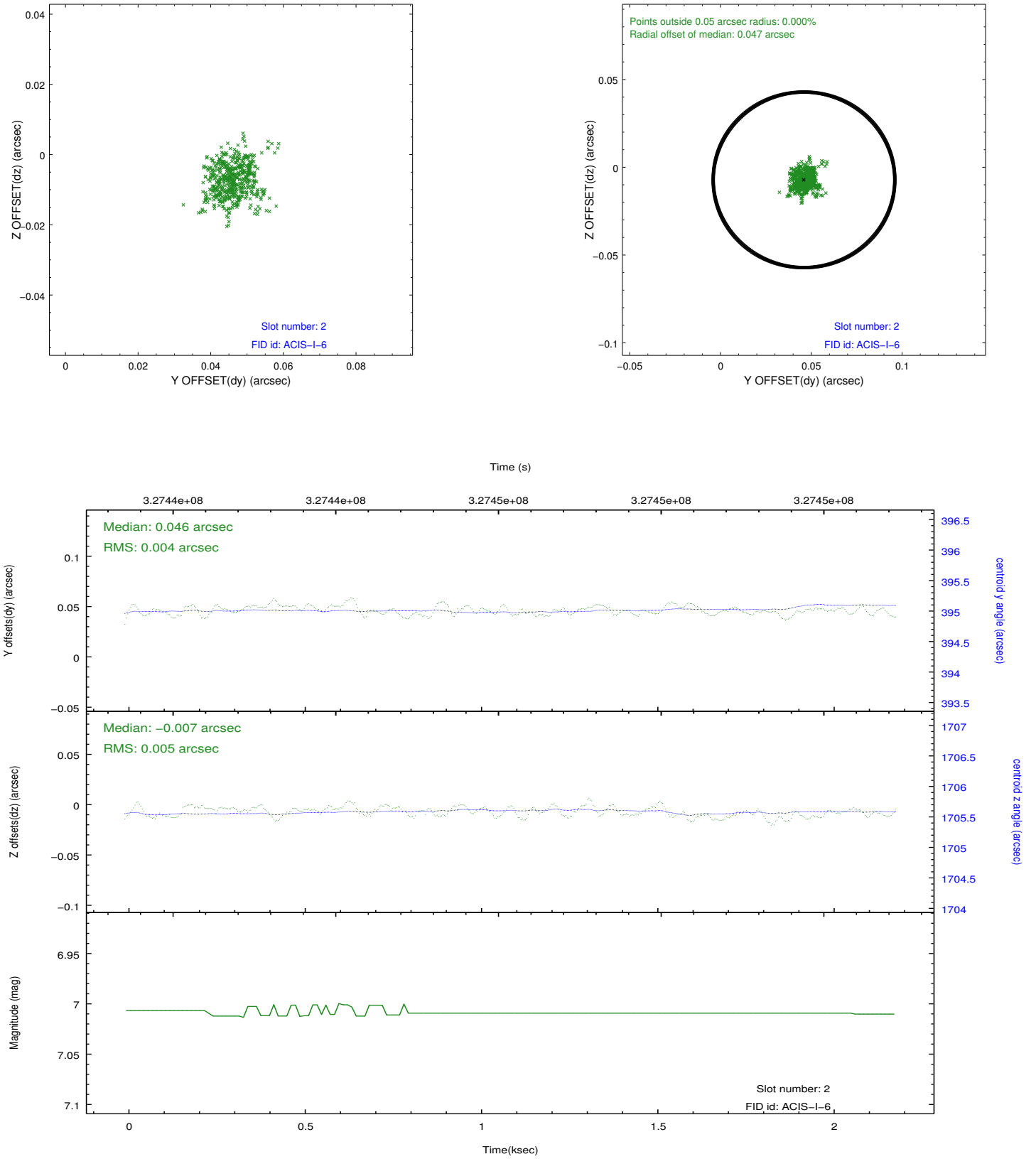
### 2.5.1 Slot 0



## 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)	2012.05.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18545902

### A.2 Comments