

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8725 - L2 Version 2  
Chandra X-Ray Center

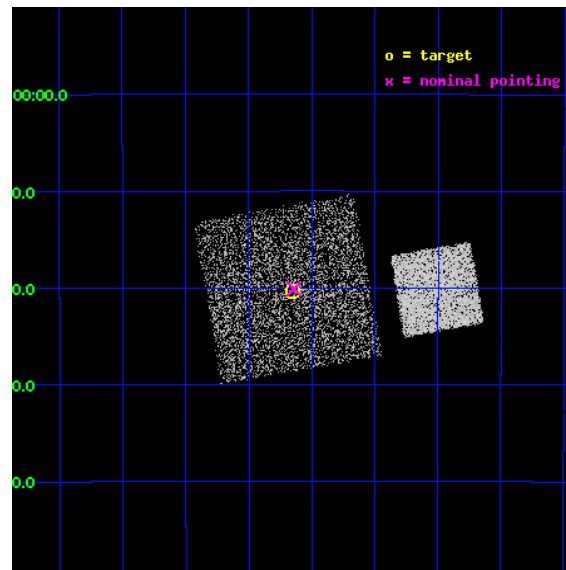
L2 Processing Date : May 14 2012

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# 1 Front

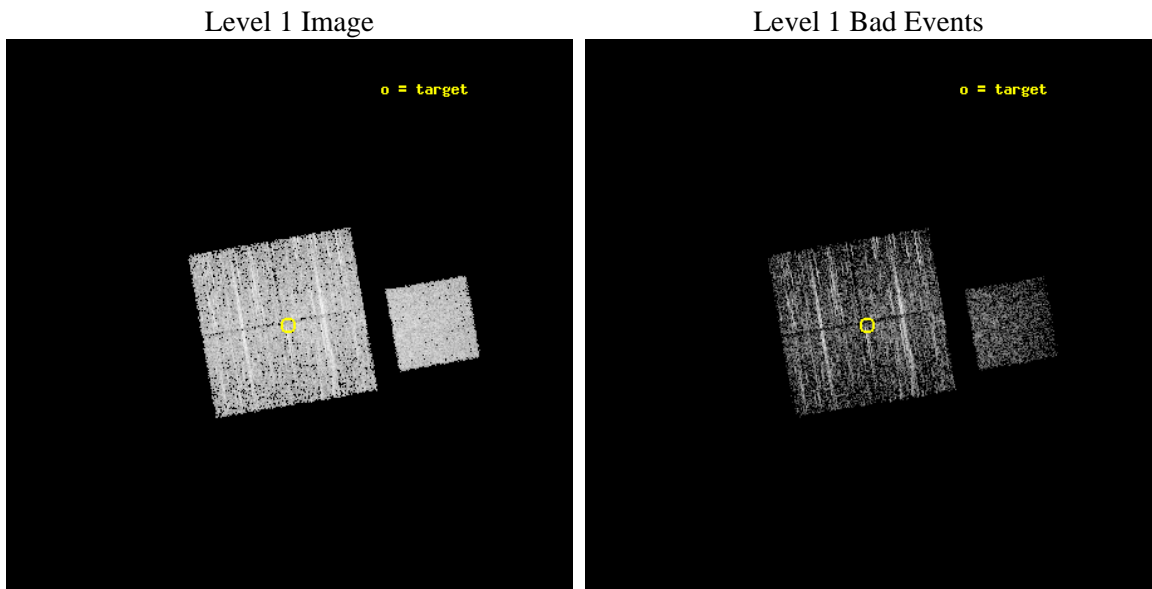
seq_num	400776	Sequence number
obs_id	8725	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	268.537551	Observer's specified target RA [deg]
dec_targ	-28.340027	Observer's specified target Dec [deg]
ra_nom	268.53567799171	Nominal RA [deg]
dec_nom	-28.33513656788	Nominal Dec [deg]
roll_nom	80.207798430151	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2179.3000167608	Sum of GTIs [s]
livetime	2150.8258576645	Livetime [s]
ontime0	2179.3000167608	Sum of GTIs [s]
ontime1	2176.15901649	Sum of GTIs [s]
ontime2	2179.3000167608	Sum of GTIs [s]
ontime3	2179.3000167608	Sum of GTIs [s]
ontime7	2179.3000167608	Sum of GTIs [s]
l2events	16193	Number of level 2 events



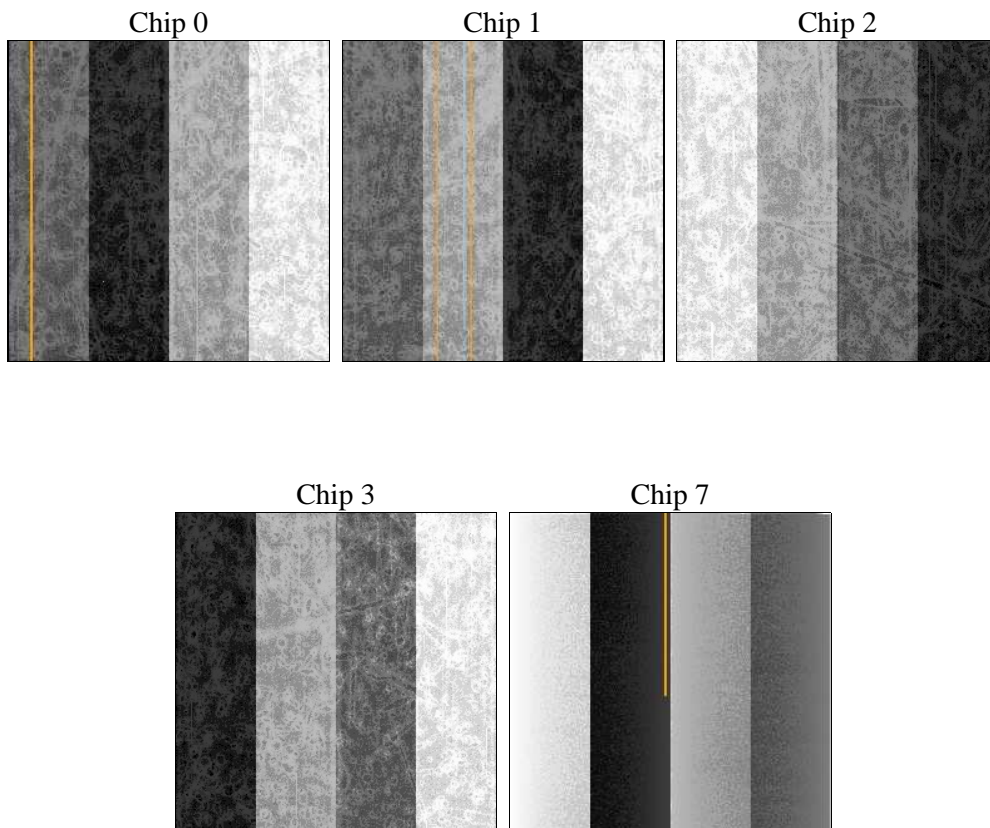
## 2 OBI

### 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	2179.3000167608	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2179.3000167608	Sum of GTIs [s]
date	2012-05-14T20:45:34	Date and time of file creation	ontime1	2176.15901649	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2179.3000167608	Sum of GTIs [s]
			ontime3	2179.3000167608	Sum of GTIs [s]
			ontime7	2179.3000167608	Sum of GTIs [s]
			l1events	103473	Number of level 1 events

### 2.1.4 Events

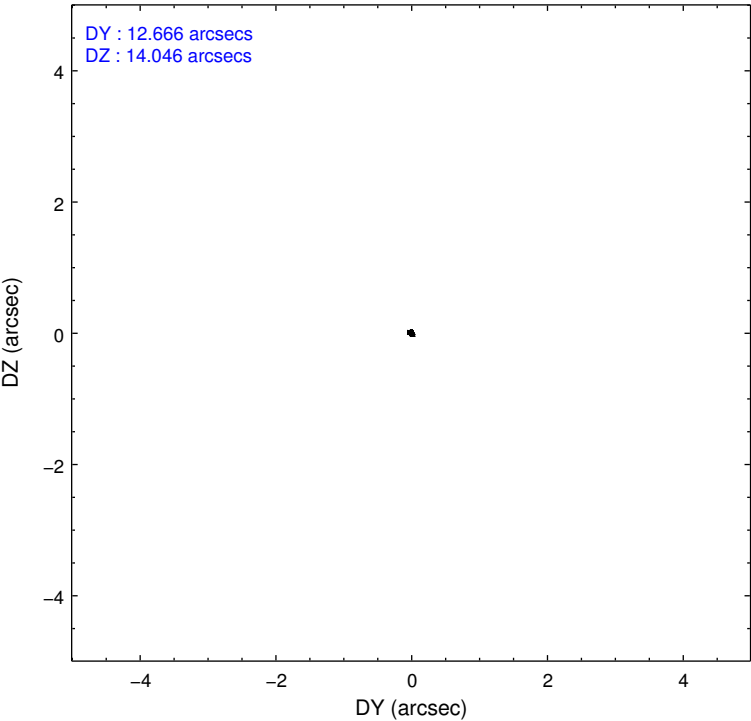
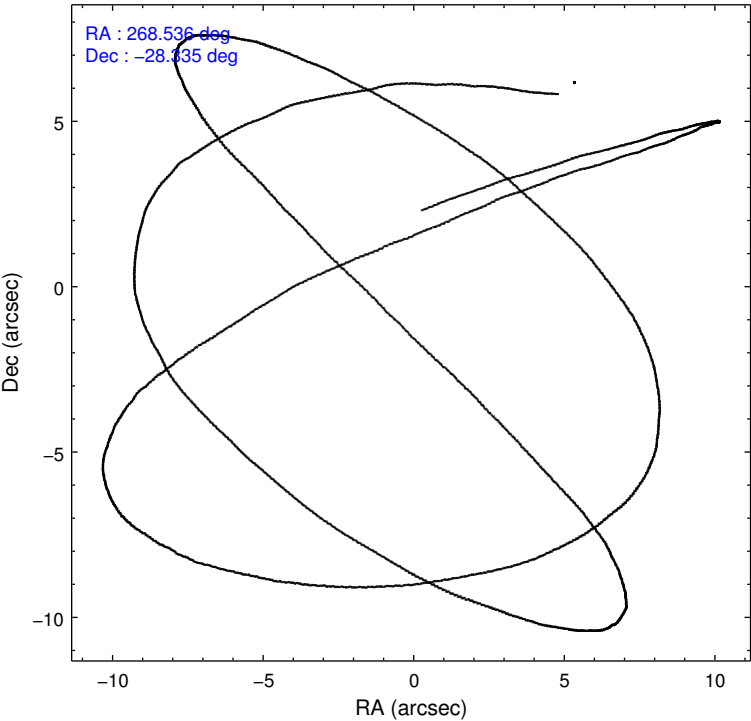
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	20095	18473	21569	20666	22670
rejected events	18096	16145	19415	18639	13395
rejected %	90%	87%	90%	90%	59%

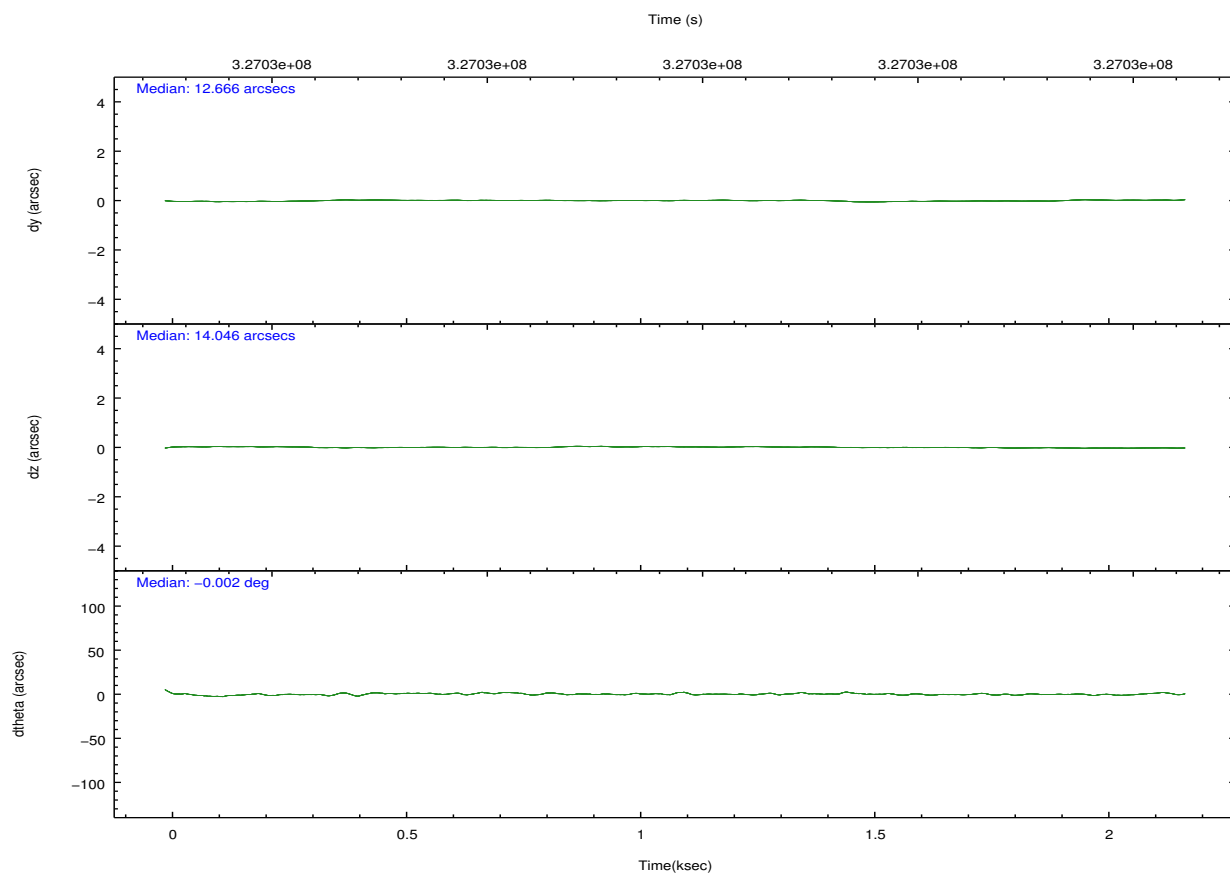
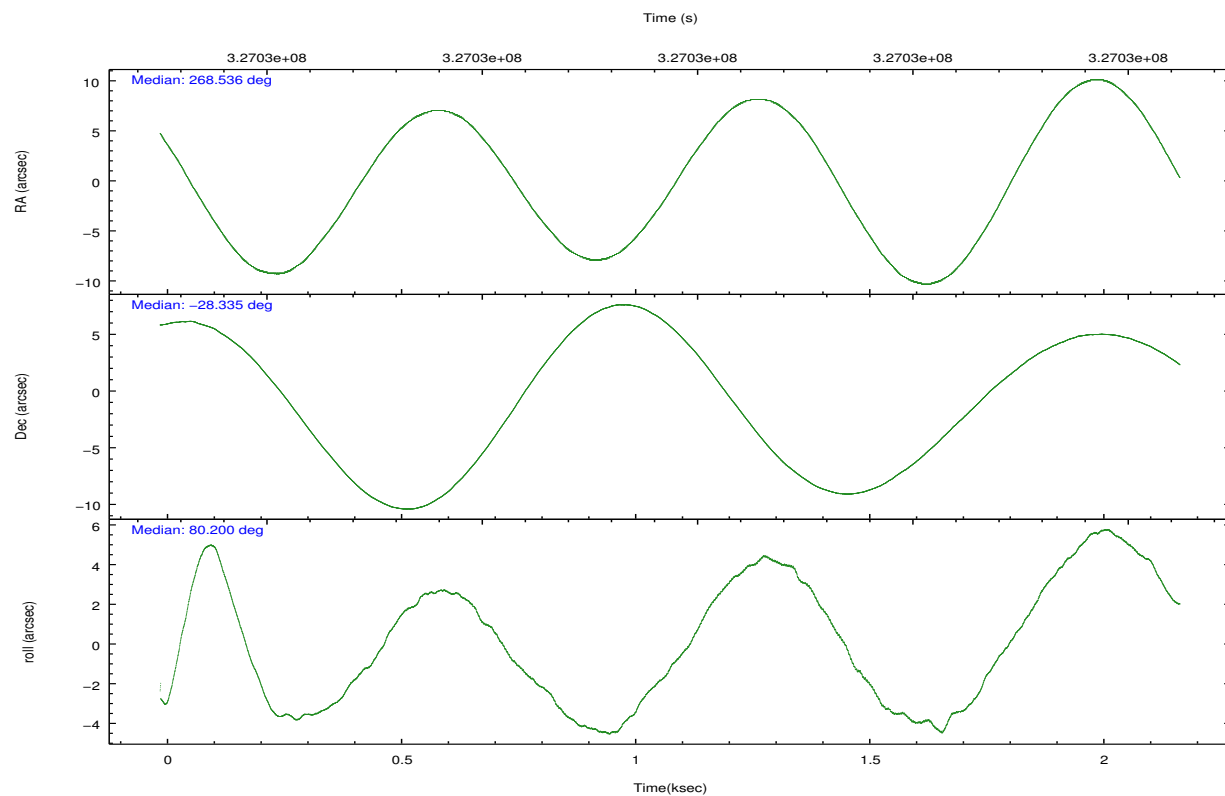
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	932	1227	1067	1040	1162
	4%	6%	4%	5%	5%
grade 1 events	13	10	14	16	31
	0%	0%	0%	0%	0%
grade 2 events	540	539	562	500	2176
	2%	2%	2%	2%	9%
grade 3 events	218	256	217	208	990
	1%	1%	1%	1%	4%
grade 4 events	215	244	257	210	991
	1%	1%	1%	1%	4%
grade 5 events	715	783	602	792	2239
	3%	4%	2%	3%	9%
grade 6 events	409	443	377	370	5368
	2%	2%	1%	1%	23%
grade 7 events	17053	14971	18473	17530	9713
	84%	81%	85%	84%	42%

## 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	268.546607	268.535677991714	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.361060	-28.3351365678801	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004310	80.20779843015092	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)	327031012.184000	327030636.18662	CCD S5 on	N	N
Observation start date	2008-05-13T01:55:47	2008-05-13T01:50:36	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327033012.184000	327033145.38675	On-chip summing requested	N	N
Observation end date	2008-05-13T02:29:07	2008-05-13T02:32:25	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





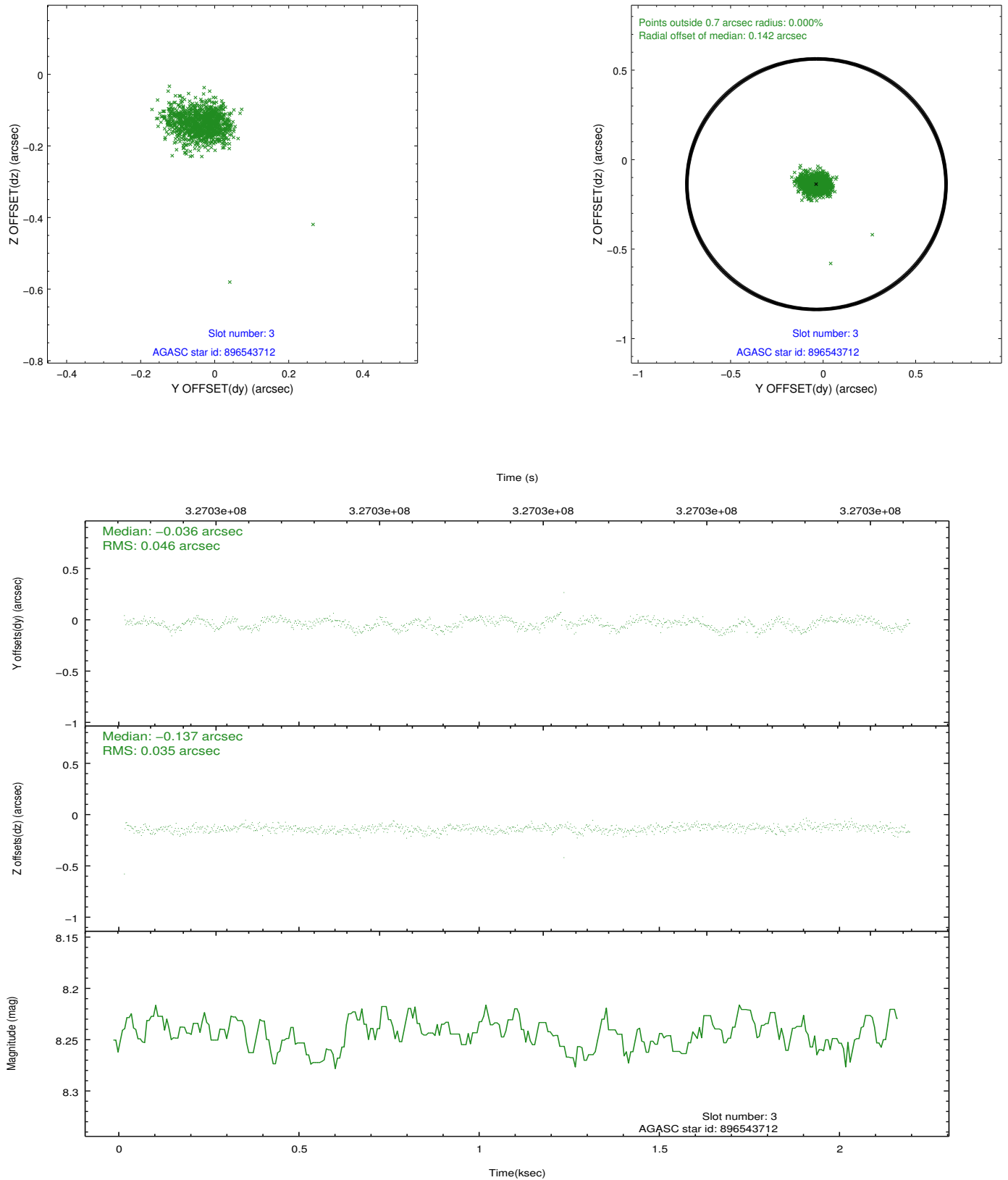
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	6.93	532	-0.151	-0.076	0.007	0.014	0.000000	0.000000	-767.47	-844.06
1	FID	ACIS-I-4	6.96	532	0.103	0.078	0.009	0.015	0.000000	0.000000	2145.49	1060.73
2	FID	ACIS-I-6	7.01	532	-0.052	0.061	0.011	0.018	0.000000	0.000000	396.57	1706.32
3	GUIDE	896543712	8.24	1063	-0.036	-0.137	0.058	0.093	267.764551	-28.659720	-1496.52	2244.50
4	GUIDE	897712584	6.60	1064	-0.008	-0.228	0.048	0.078	268.003029	-28.022394	894.84	1914.08
5	GUIDE	897721048	7.75	1064	-0.218	0.274	0.051	0.079	268.989561	-28.030814	1412.88	-1178.19
6	GUIDE	898238128	7.71	1064	0.123	0.032	0.056	0.092	268.450740	-28.688500	-1212.67	92.16
7	GUIDE	897713656	8.83	1063	0.139	0.051	0.064	0.104	267.994864	-27.592870	2412.26	2213.44

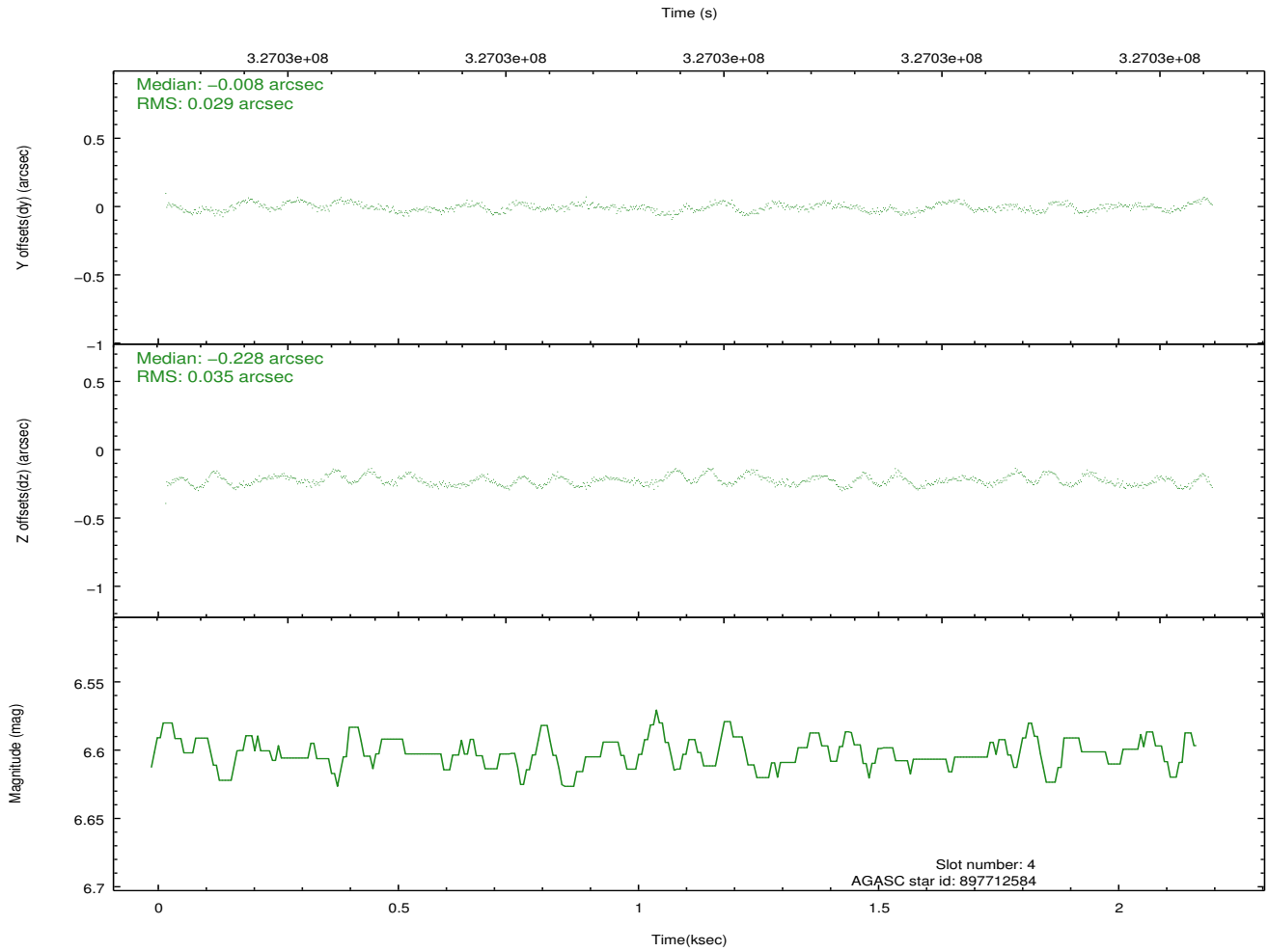
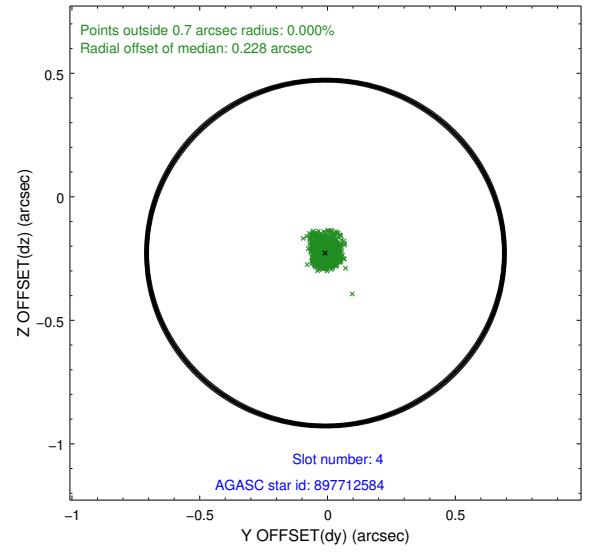
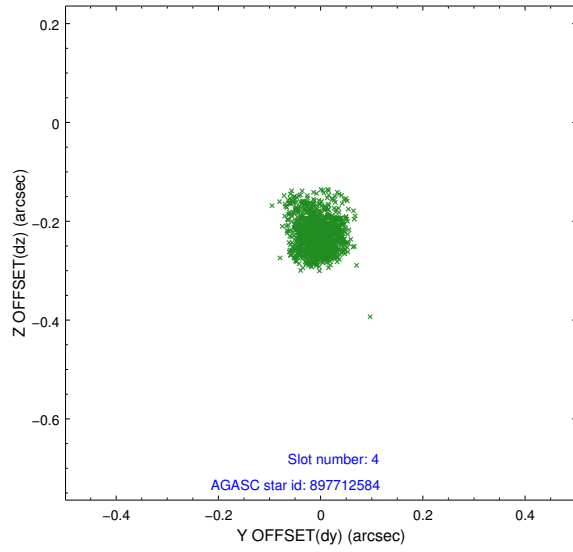


## 2.4 Star Slots

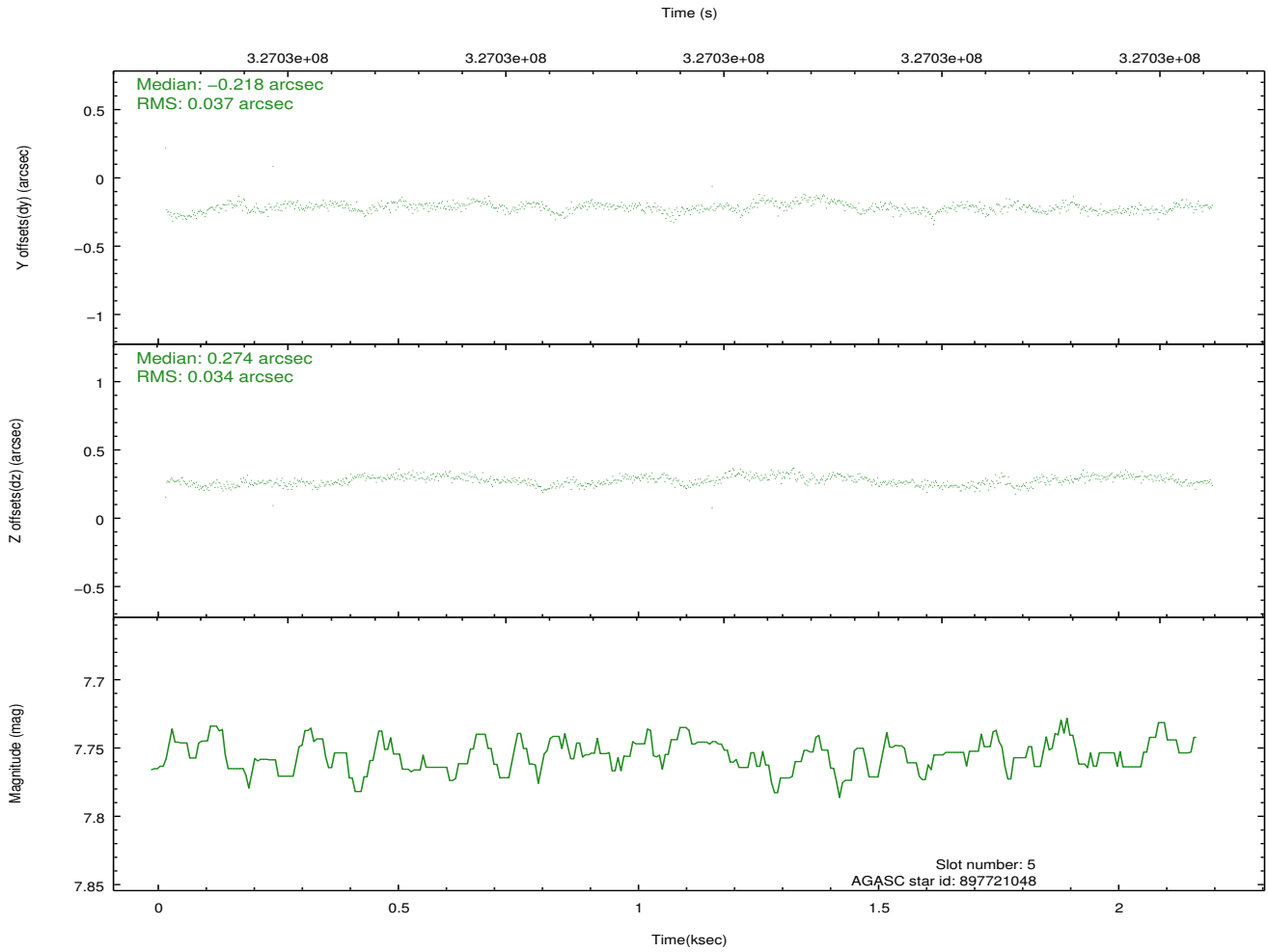
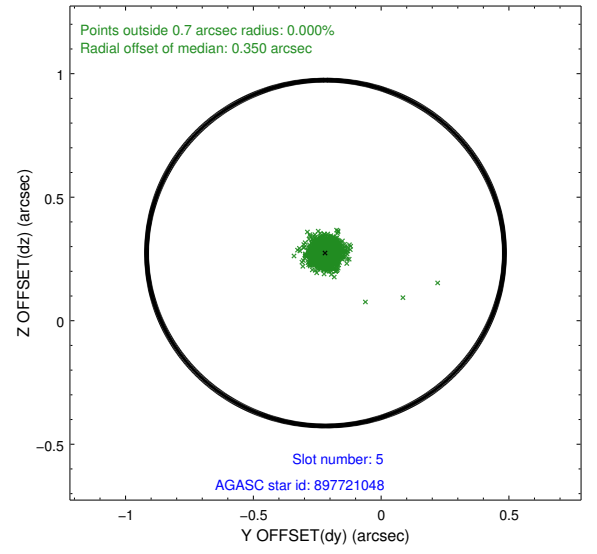
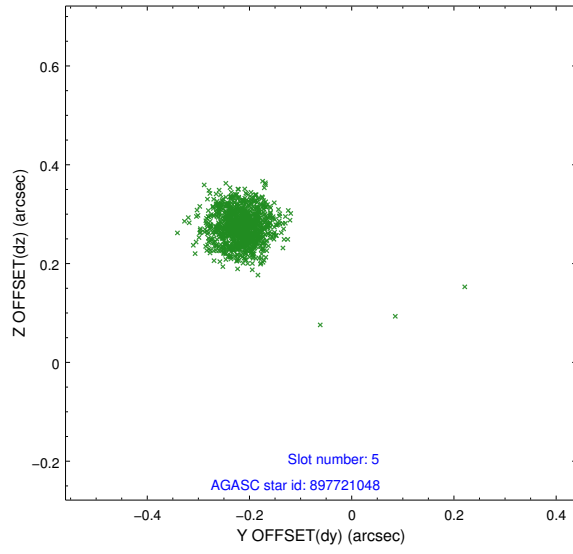
### 2.4.1 Slot 3



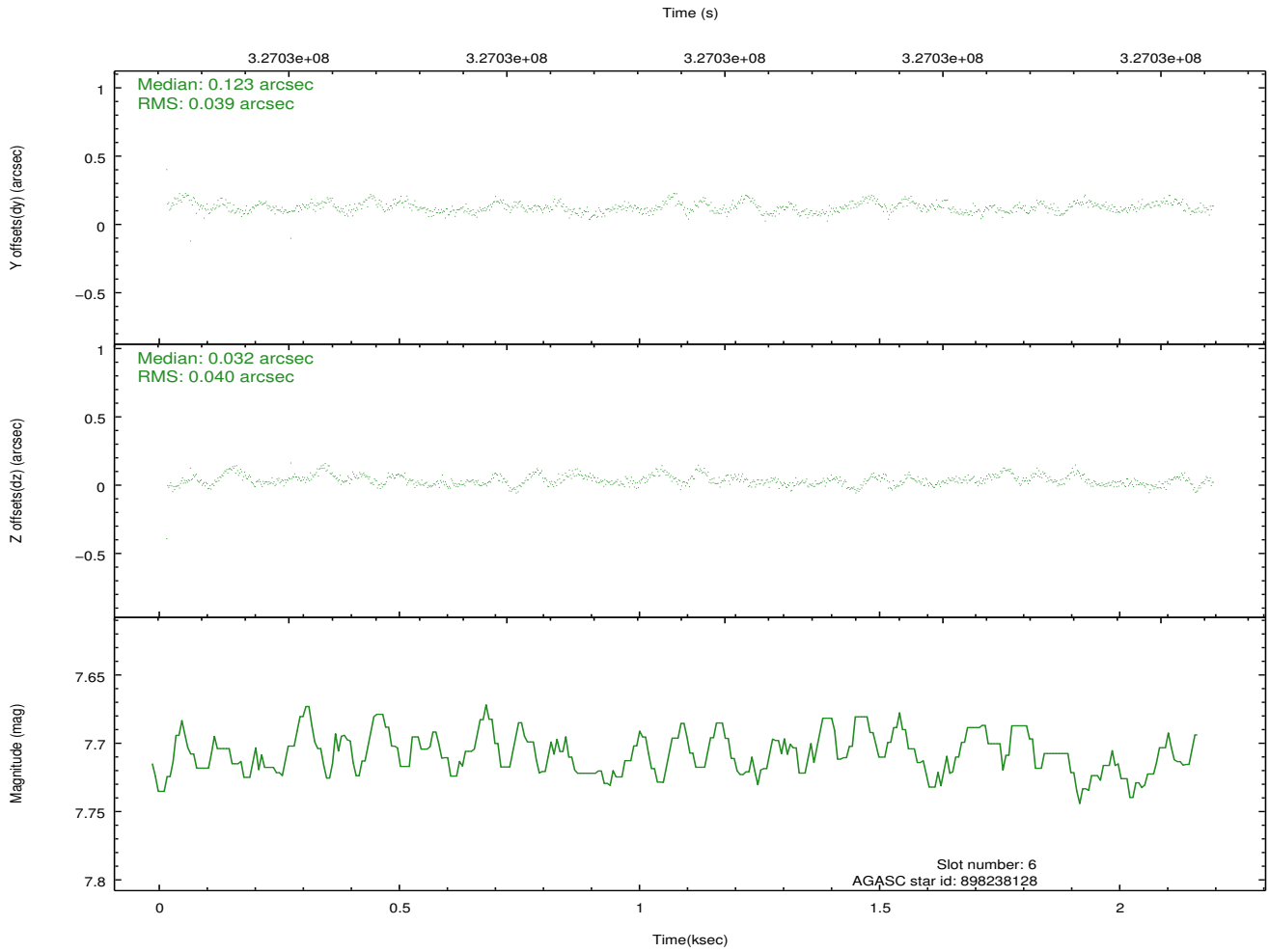
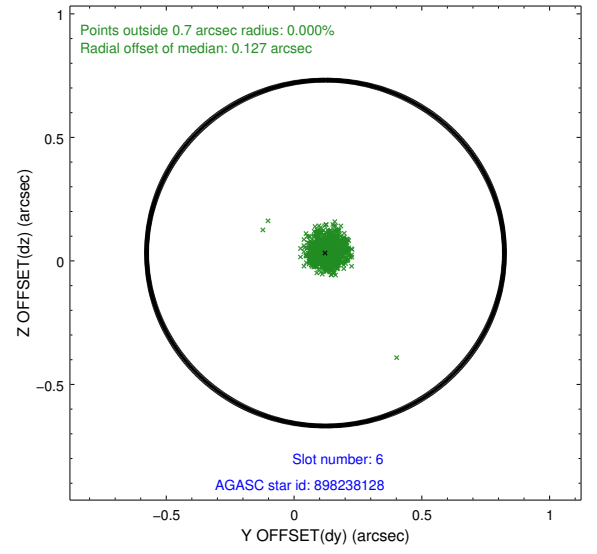
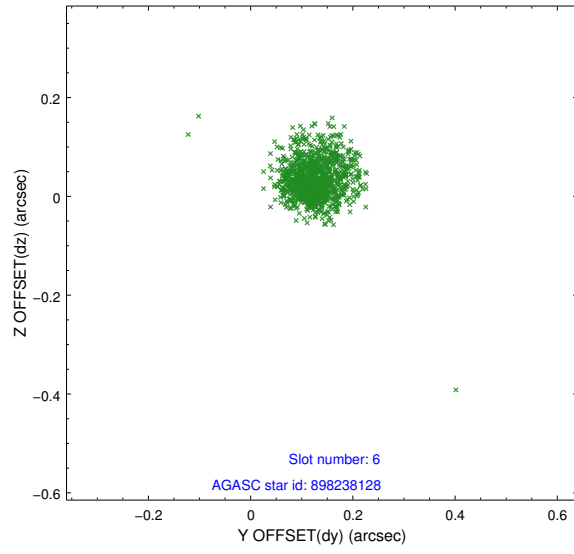
## 2.4.2 Slot 4



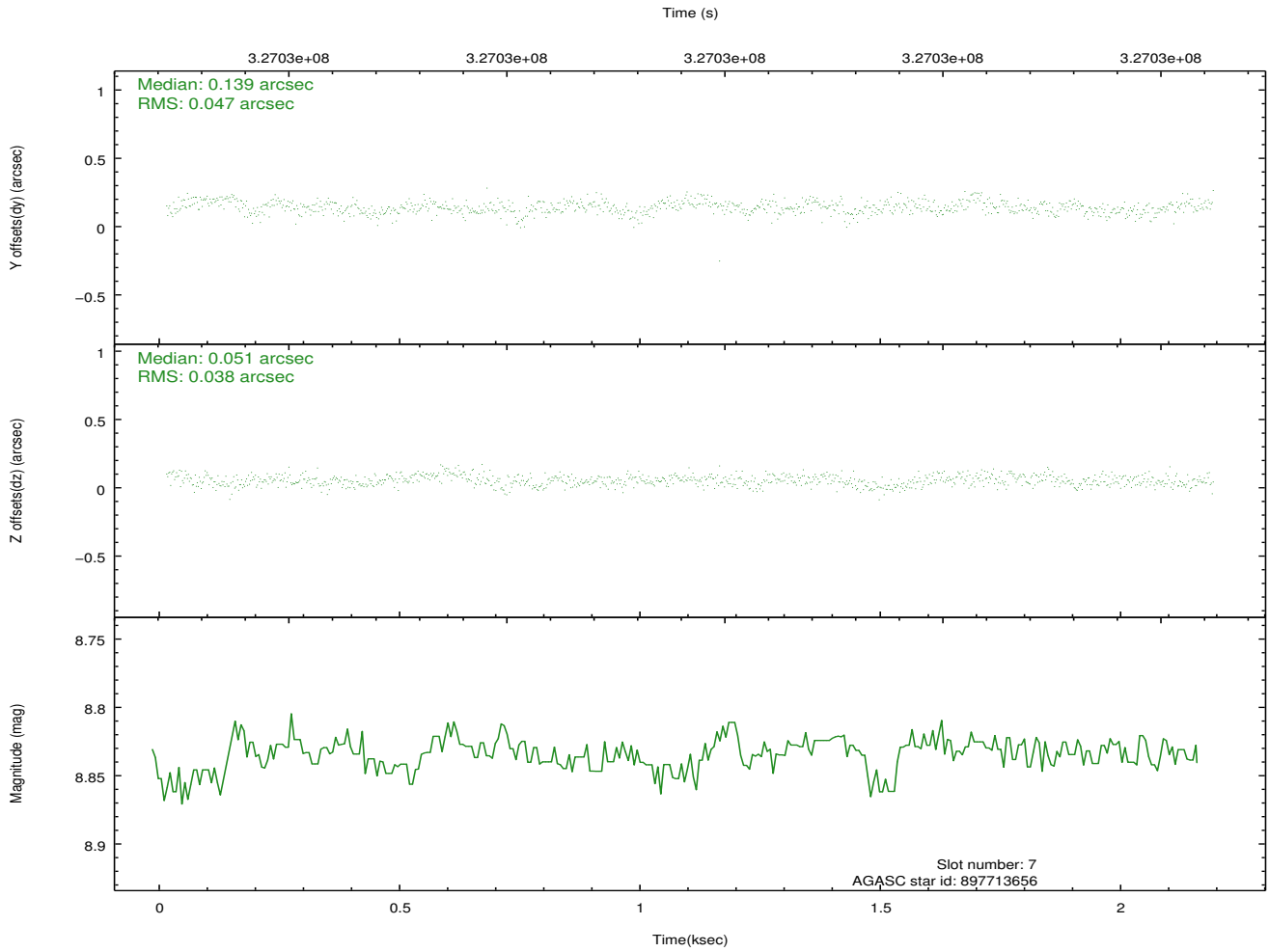
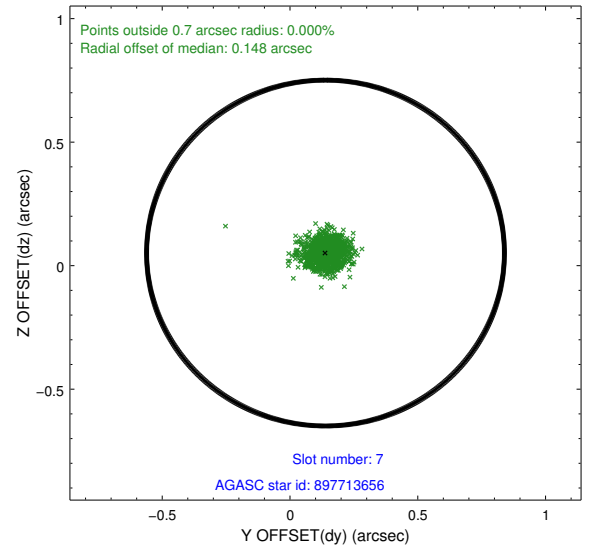
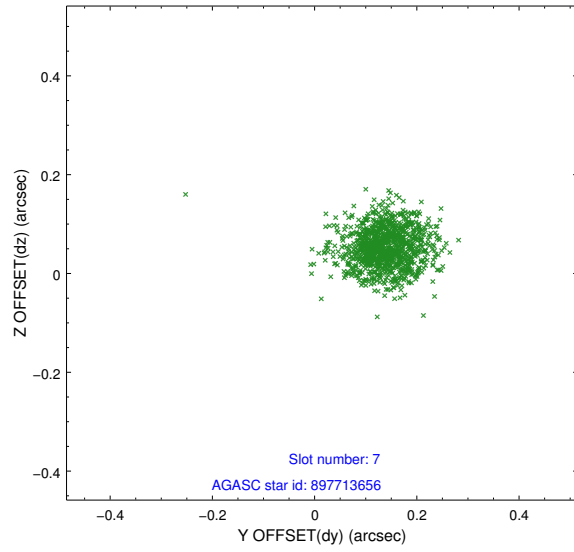
### 2.4.3 Slot 5



## 2.4.4 Slot 6

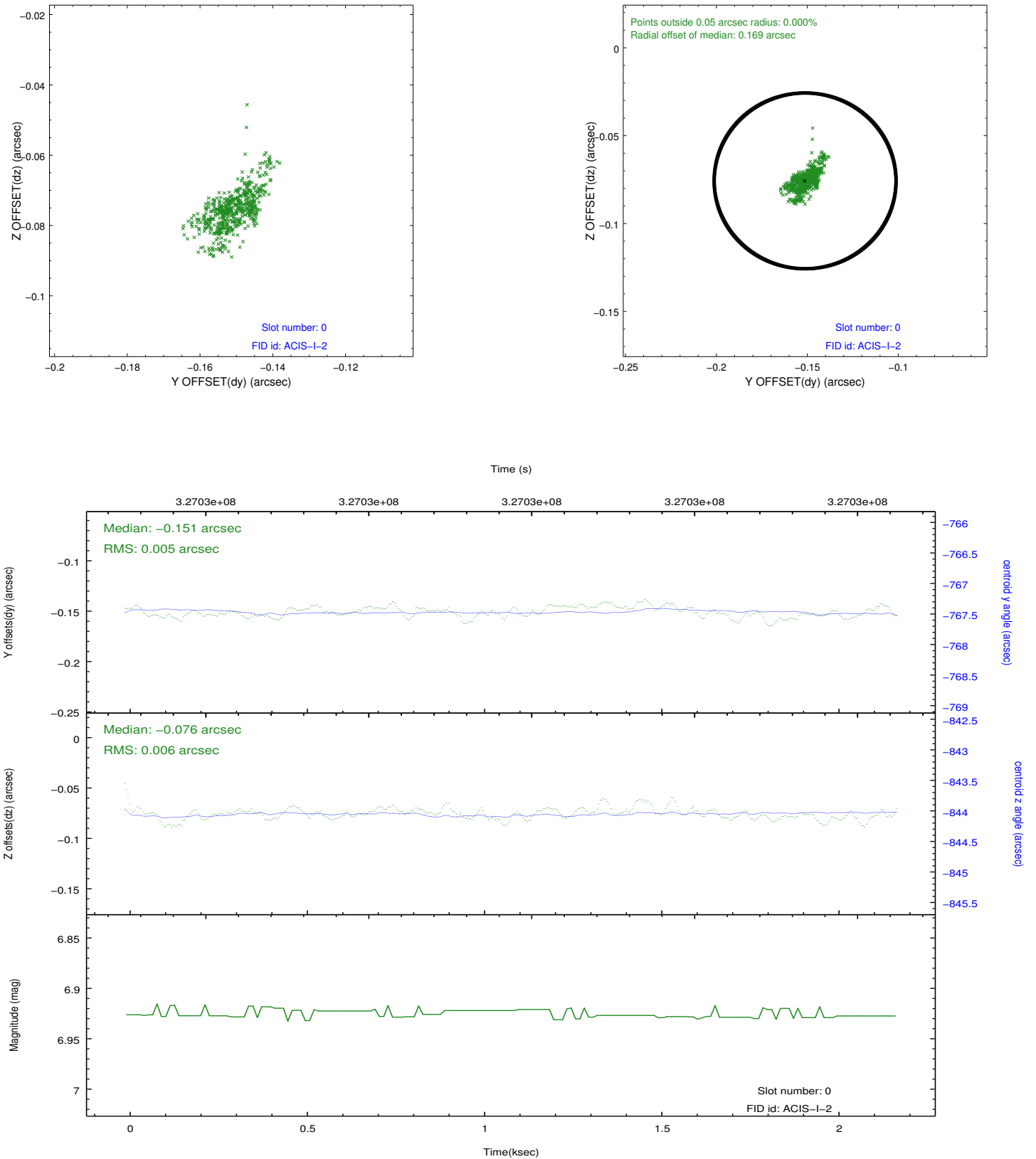


## 2.4.5 Slot 7

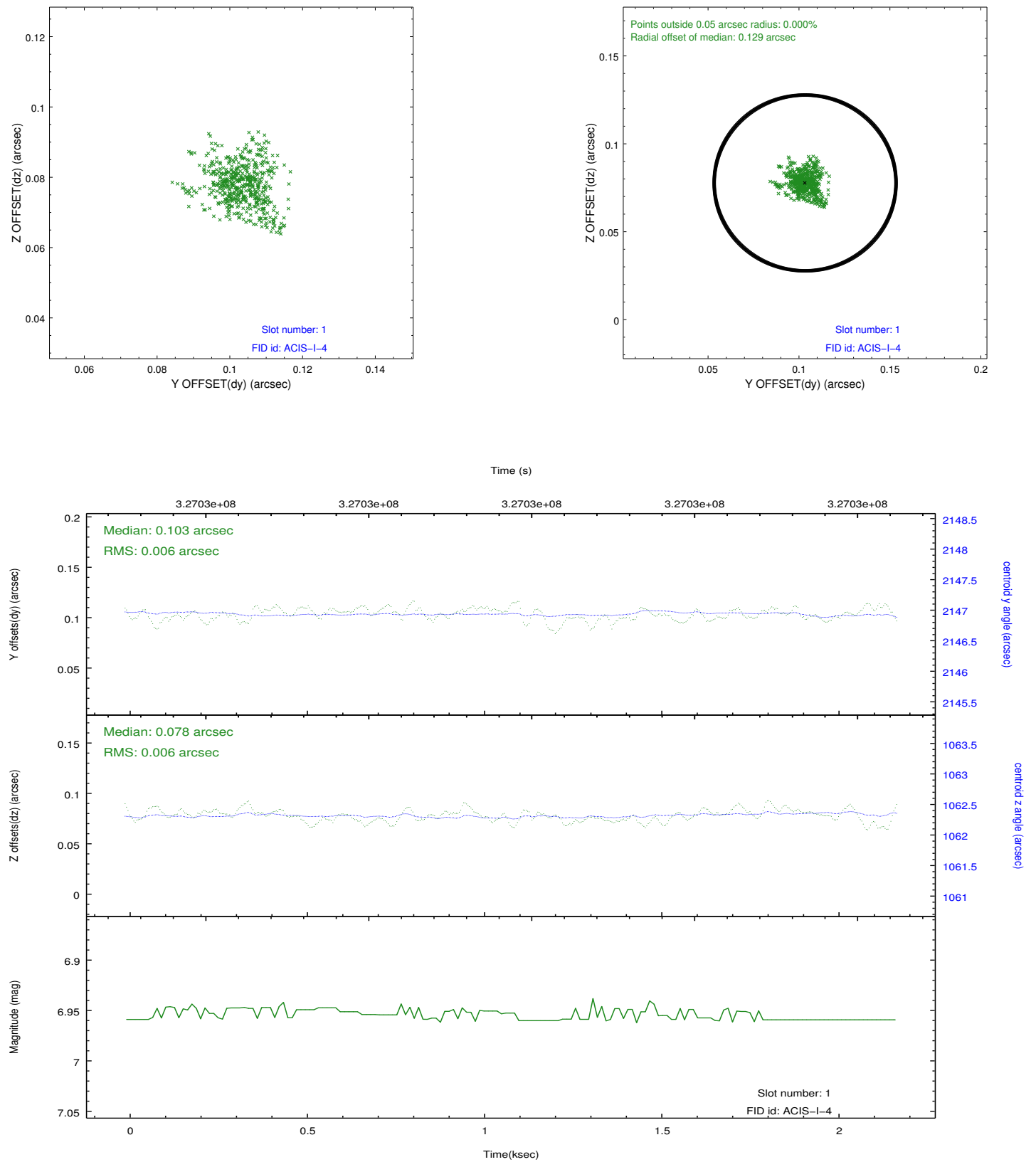


## 2.5 FID Slots

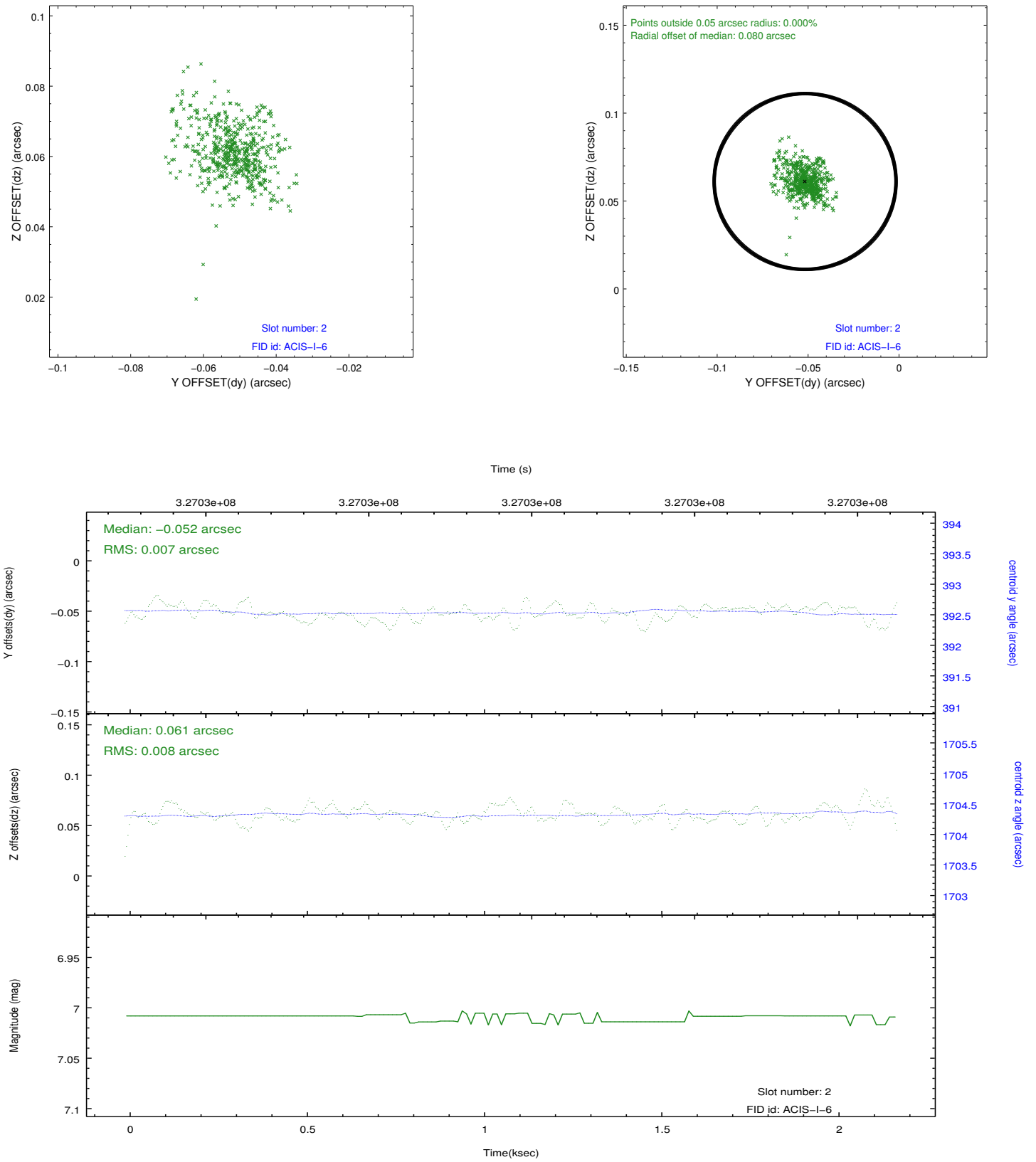
### 2.5.1 Slot 0



## 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)	2012.05.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.17930001

## A.2 Comments

Joint proposal with NOAO.