

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8652 - L2 Version 2  
Chandra X-Ray Center

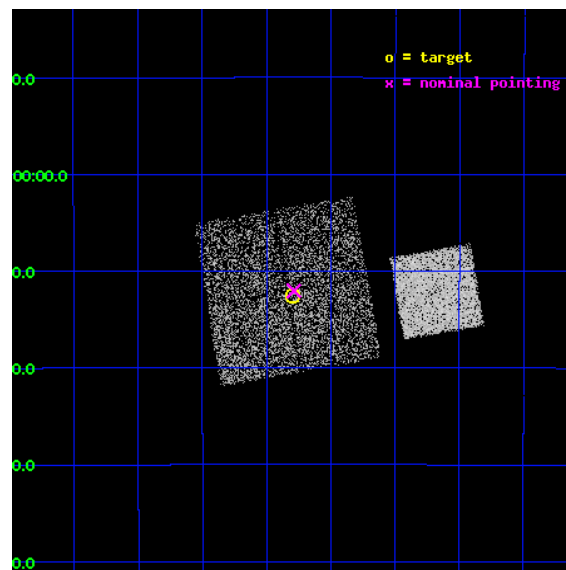
L2 Processing Date : May 14 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

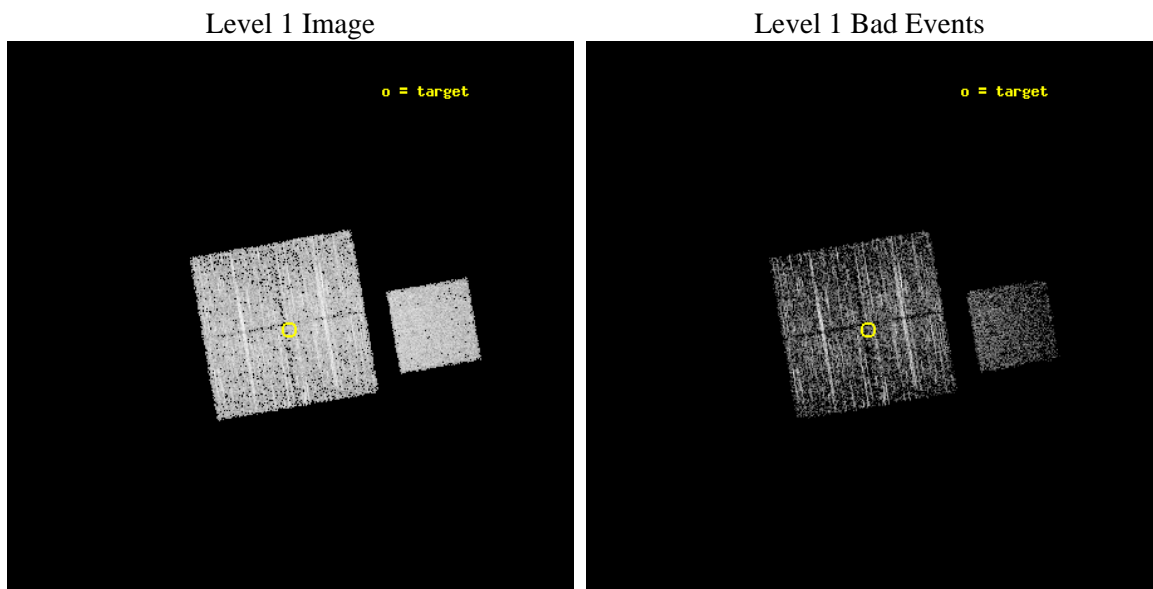
seq_num	400703	Sequence number
obs_id	8652	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.823034	Observer's specified target RA [deg]
dec_targ	-26.208998	Observer's specified target Dec [deg]
ra_nom	266.82179728654	Nominal RA [deg]
dec_nom	-26.200793948798	Nominal Dec [deg]
roll_nom	80.20811354446	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2188.6000168324	Sum of GTIs [s]
livetime	2160.0043463885	Livetime [s]
ontime0	2188.6000168324	Sum of GTIs [s]
ontime1	2188.6000168324	Sum of GTIs [s]
ontime2	2185.4590066075	Sum of GTIs [s]
ontime3	2188.6000168324	Sum of GTIs [s]
ontime7	2188.6000168324	Sum of GTIs [s]
l2events	17077	Number of level 2 events



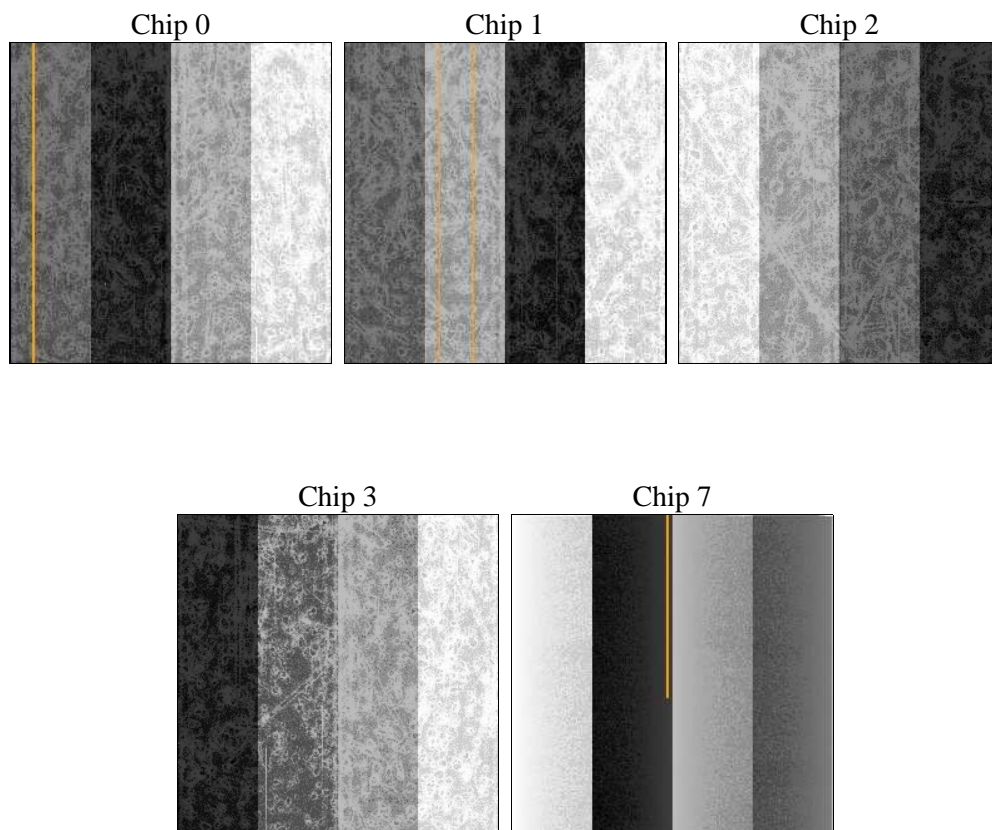
## 2 OBI

### 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	2188.6000168324	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2188.6000168324	Sum of GTIs [s]
date	2012-05-14T23:40:30	Date and time of file creation	ontime1	2188.6000168324	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2185.4590066075	Sum of GTIs [s]
			ontime3	2188.6000168324	Sum of GTIs [s]
			ontime7	2188.6000168324	Sum of GTIs [s]
			l1events	104818	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	19392	20385	21532	20857	22652
rejected events	17202	17513	19421	18589	13328
rejected %	88%	85%	90%	89%	58%

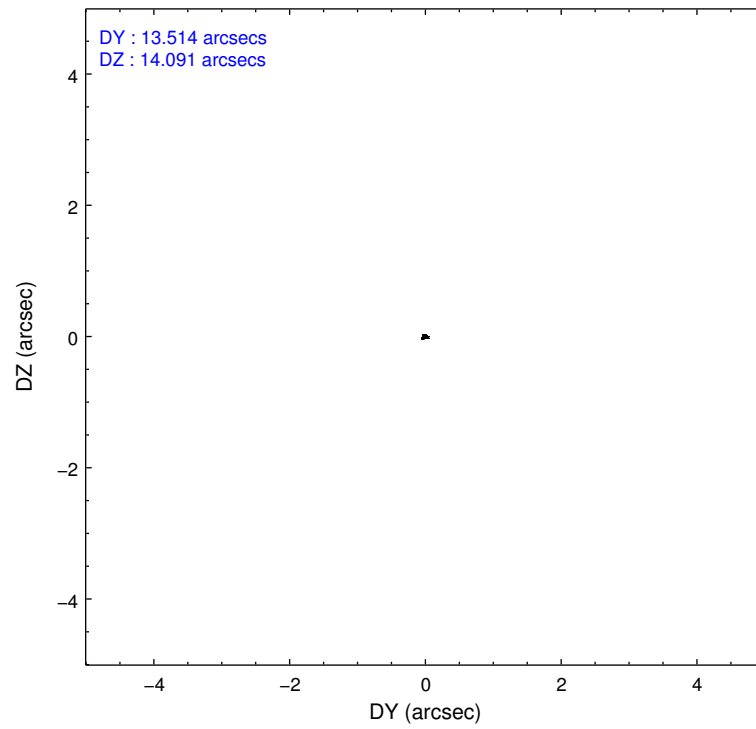
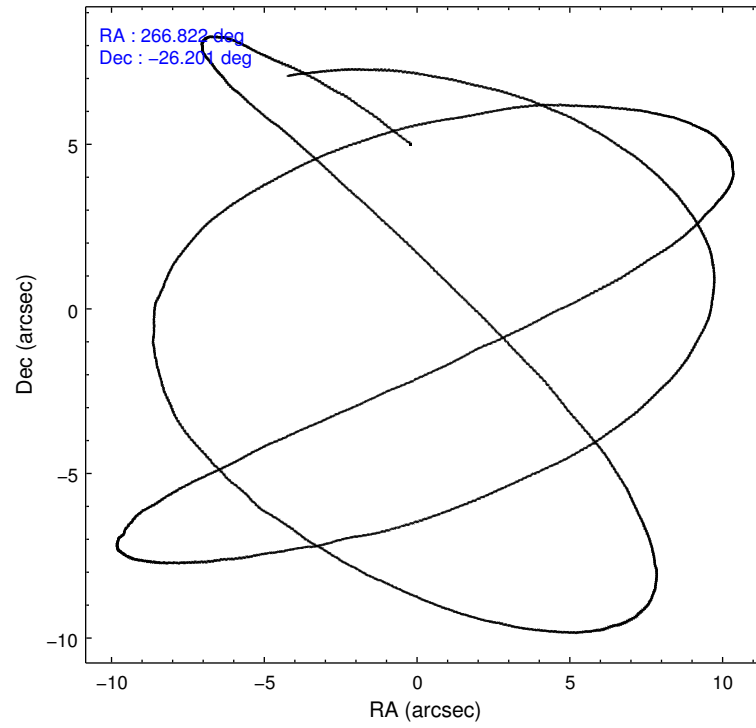
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1103	1634	1020	1177	1003
	5%	8%	4%	5%	4%
grade 1 events	8	6	12	13	34
	0%	0%	0%	0%	0%
grade 2 events	521	631	544	485	2208
	2%	3%	2%	2%	9%
grade 3 events	256	300	222	227	1021
	1%	1%	1%	1%	4%
grade 4 events	235	279	214	252	989
	1%	1%	0%	1%	4%
grade 5 events	702	730	684	800	2305
	3%	3%	3%	3%	10%
grade 6 events	398	489	388	433	5514
	2%	2%	1%	2%	24%
grade 7 events	16169	16316	18448	17470	9578
	83%	80%	85%	83%	42%

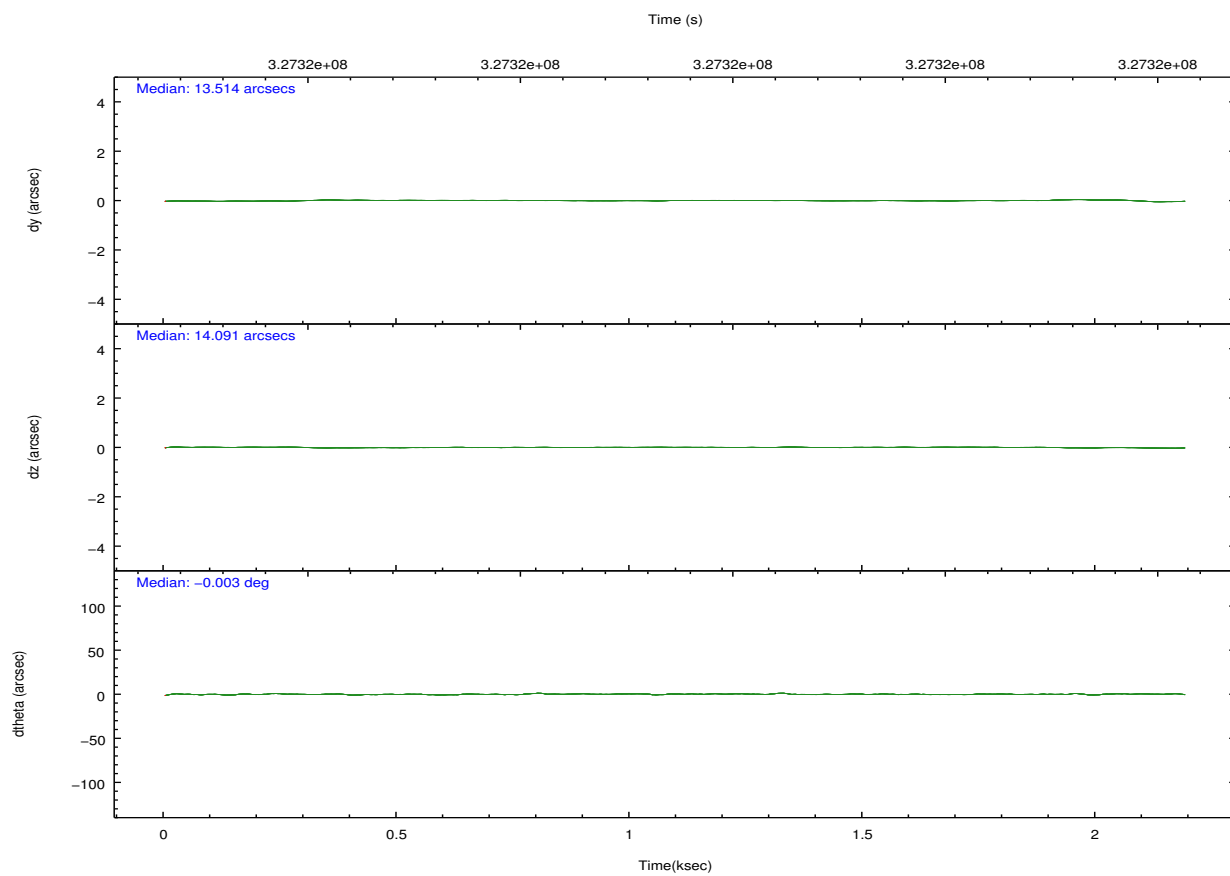
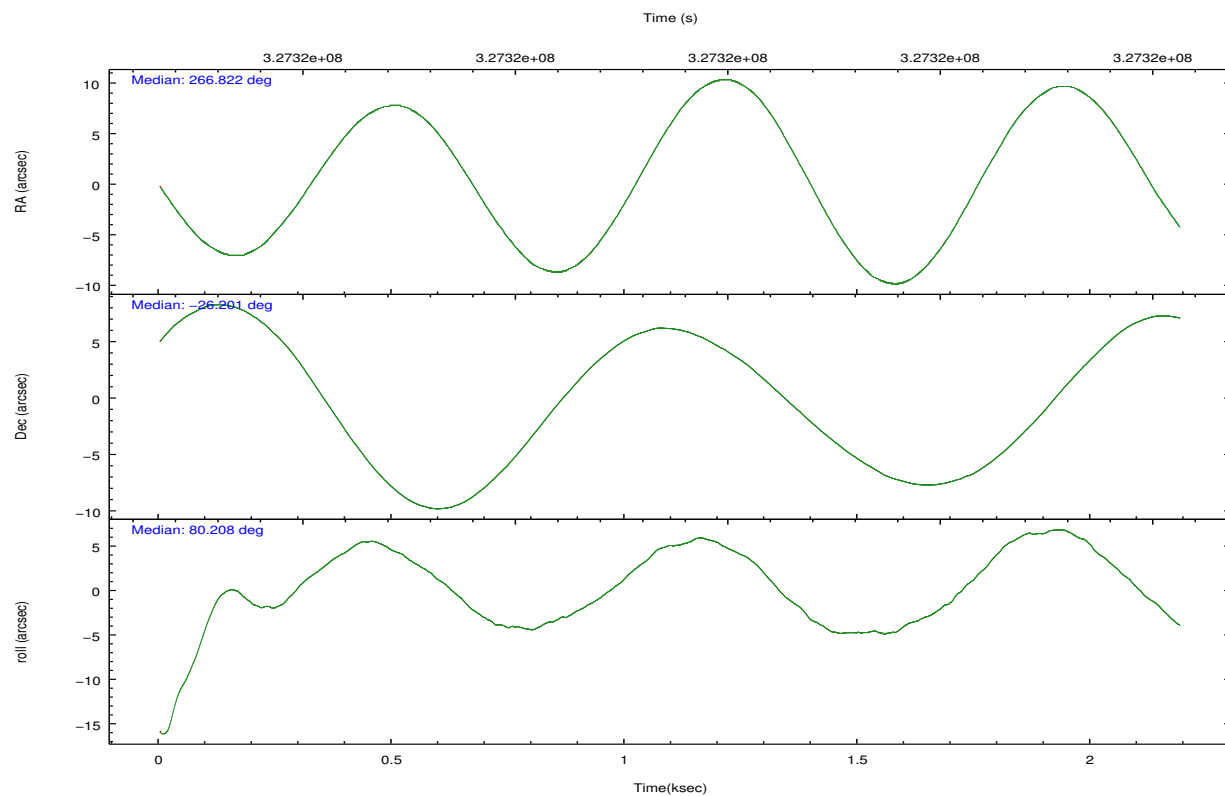
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01237	ACIS-01237
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	266.832564	266.8217972865367
[deg] Pointing Dec	-26.226751	-26.20079394879766
[deg] Pointing Roll	80.004209	80.20811354446013
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	327321953.184000	327321577.3258
Observation start date	2008-05-16T10:44:48	2008-05-16T10:39:37
[s] Observation end time (MET)	327323953.184000	327324087.55093
Observation end date	2008-05-16T11:18:08	2008-05-16T11:21:27
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	N	N
CCD S3 on	O1	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





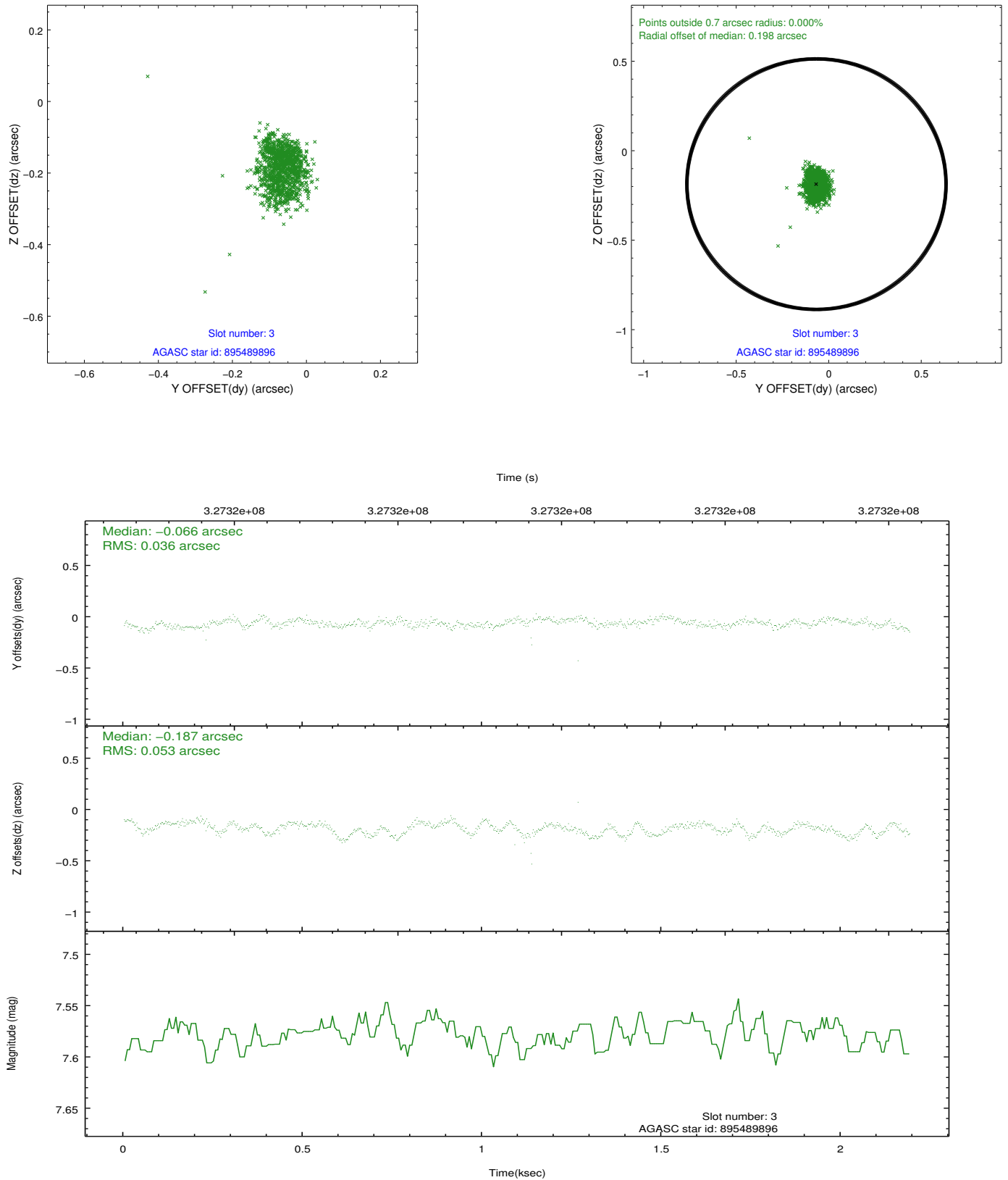
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.06	535	0.007	0.045	0.006	0.012	0.000000	0.000000	926.01	-837.61
1	FID	ACIS-I-5	7.04	535	-0.183	0.029	0.006	0.010	0.000000	0.000000	-1820.67	1058.34
2	FID	ACIS-I-6	7.05	535	0.084	-0.004	0.007	0.011	0.000000	0.000000	388.36	1706.21
3	GUIDE	895489896	7.58	1069	-0.066	-0.187	0.066	0.101	266.605795	-26.200300	-34.45	737.32
4	GUIDE	896009584	9.26	1069	0.186	0.131	0.103	0.173	266.891313	-26.347528	-395.58	-261.59
5	GUIDE	896011536	9.37	1069	0.142	0.296	0.086	0.141	267.007333	-26.766562	-1817.31	-890.86
6	GUIDE	896015112	9.18	1068	0.035	-0.184	0.087	0.140	266.684847	-26.286161	-295.70	431.08
7	GUIDE	895488248	9.17	1067	-0.295	-0.056	0.088	0.144	266.505717	-25.541692	2242.28	1473.55

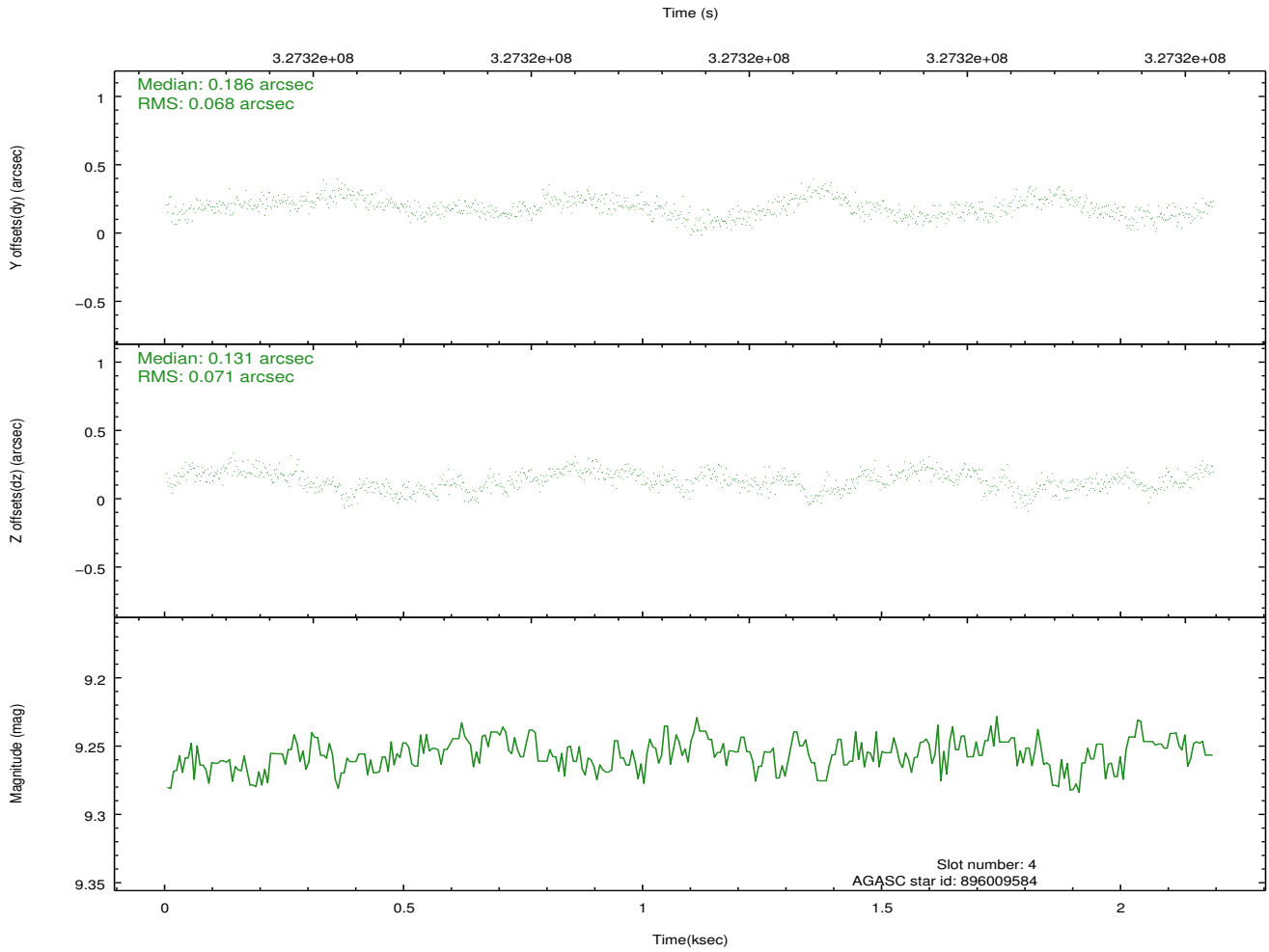
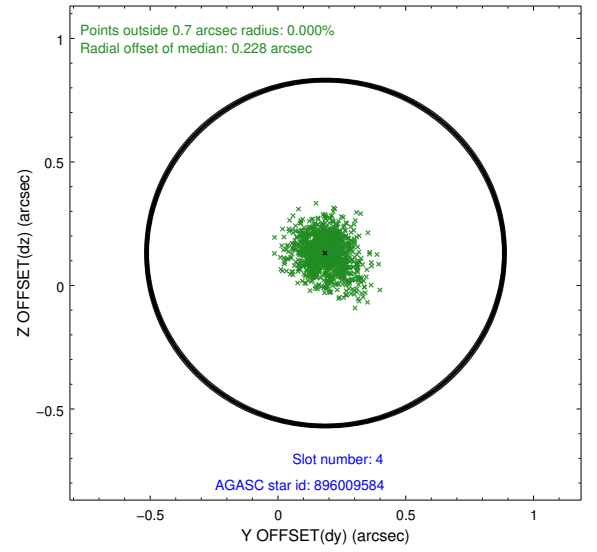
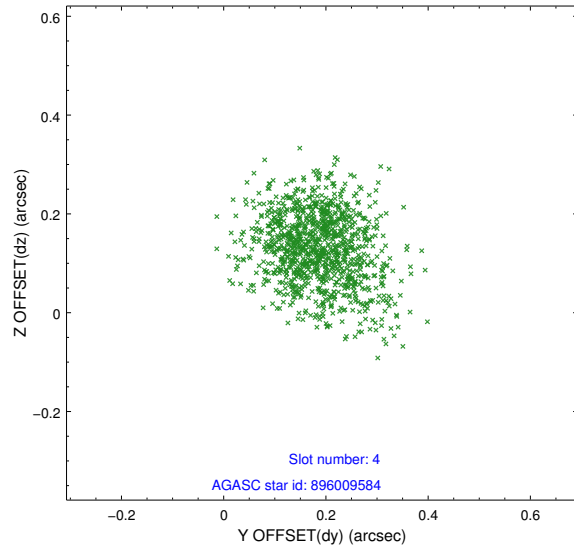


## 2.4 Star Slots

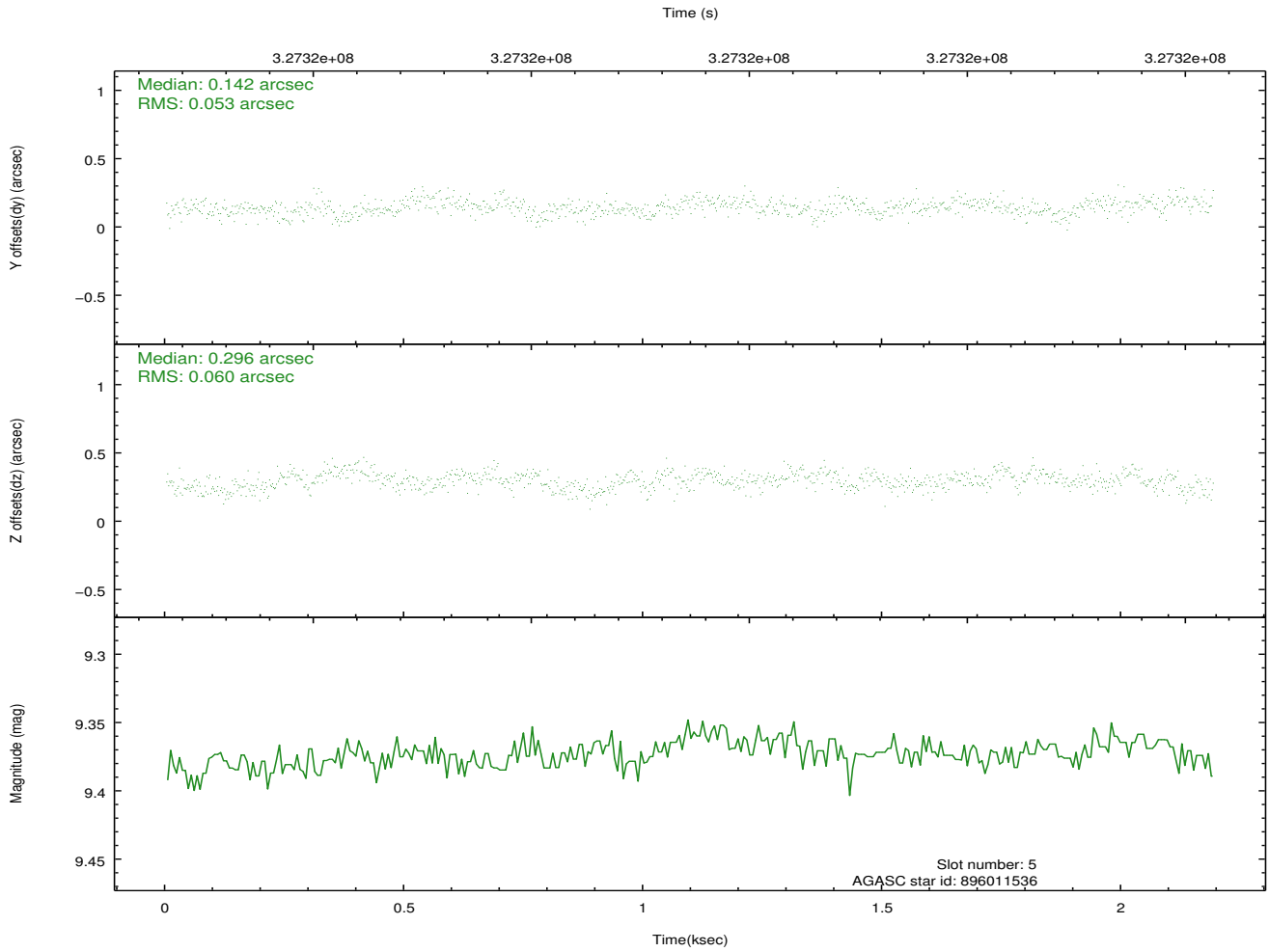
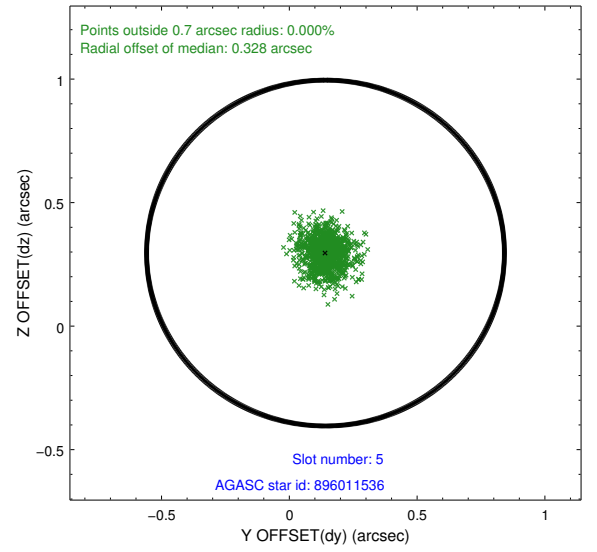
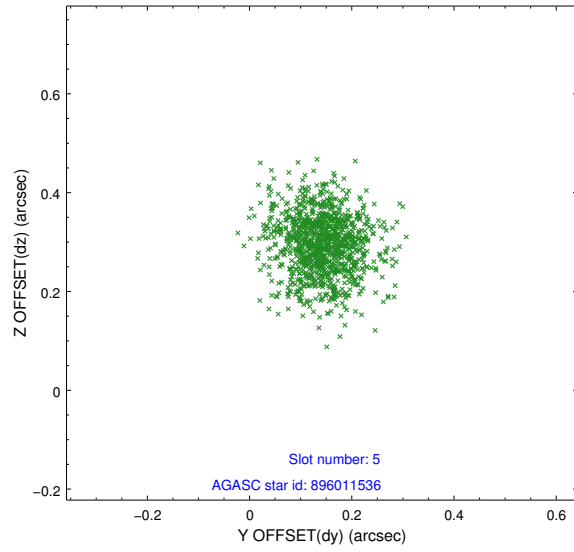
### 2.4.1 Slot 3



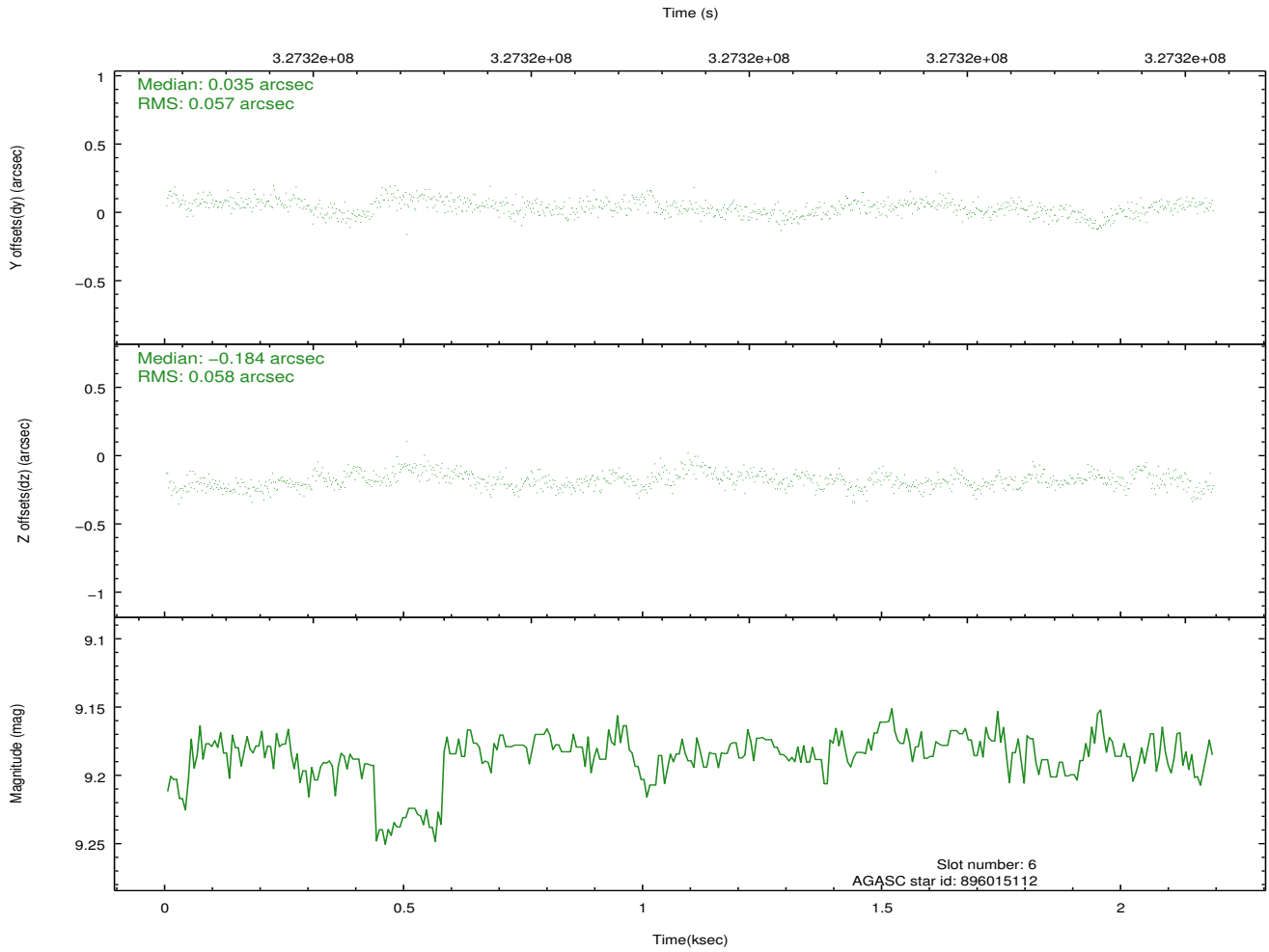
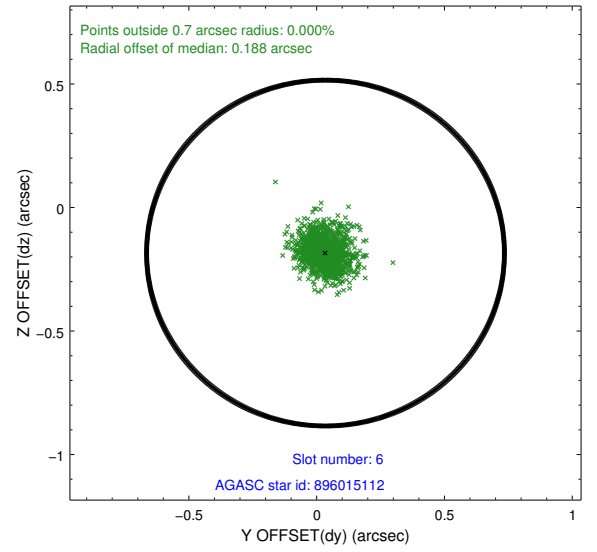
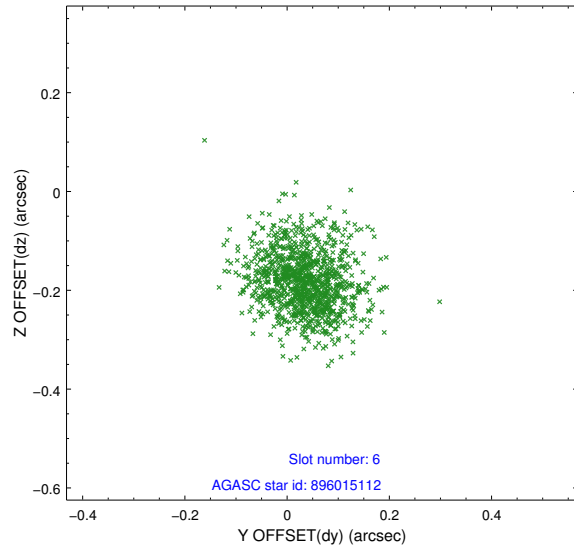
## 2.4.2 Slot 4



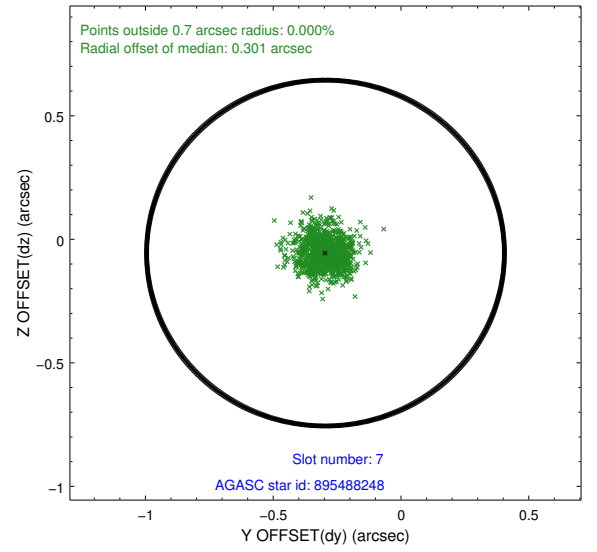
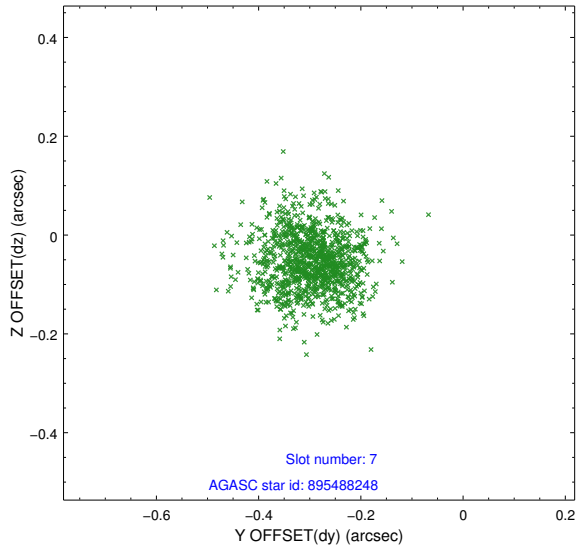
### 2.4.3 Slot 5



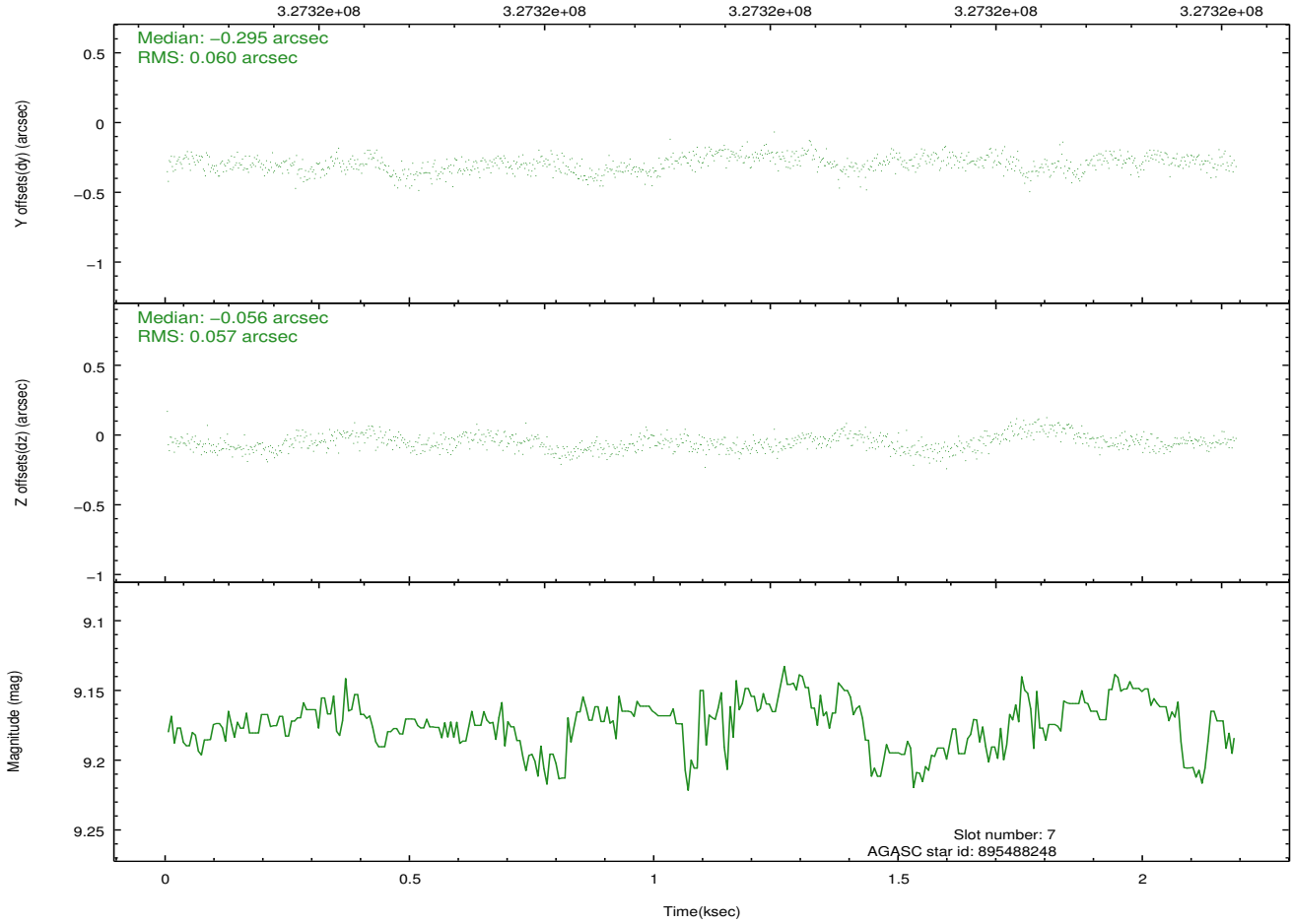
## 2.4.4 Slot 6



## 2.4.5 Slot 7

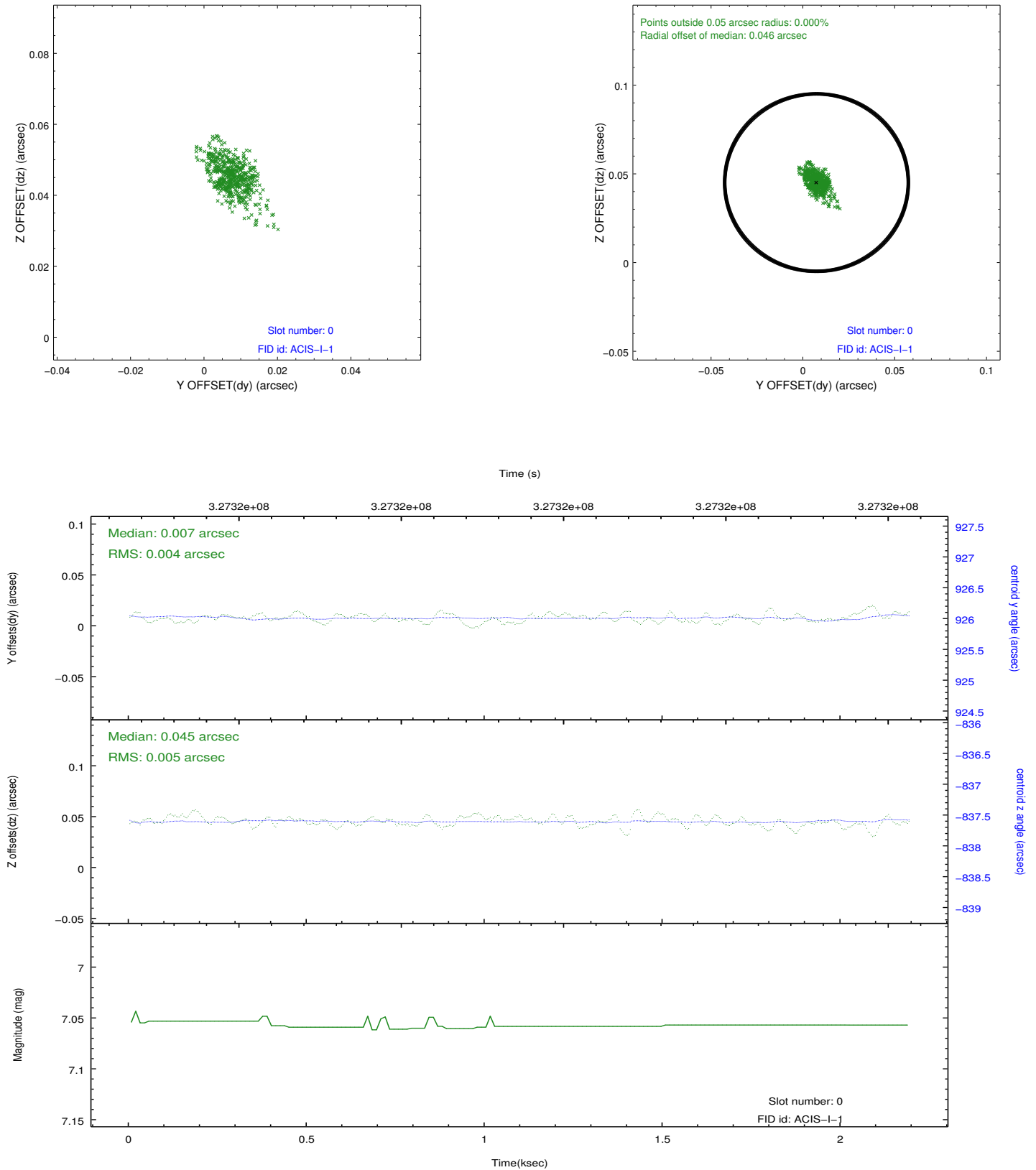


Time (s)

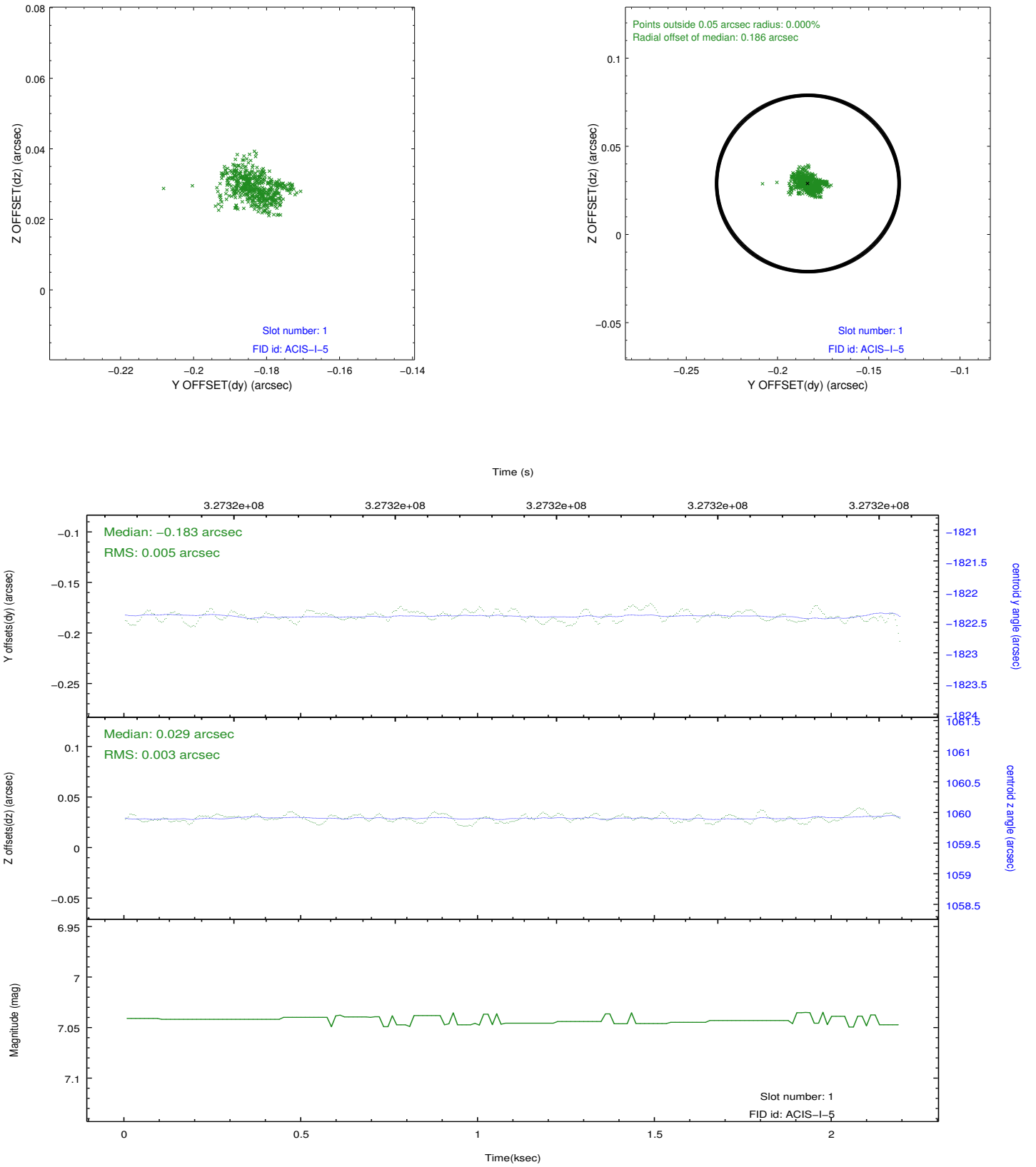


## 2.5 FID Slots

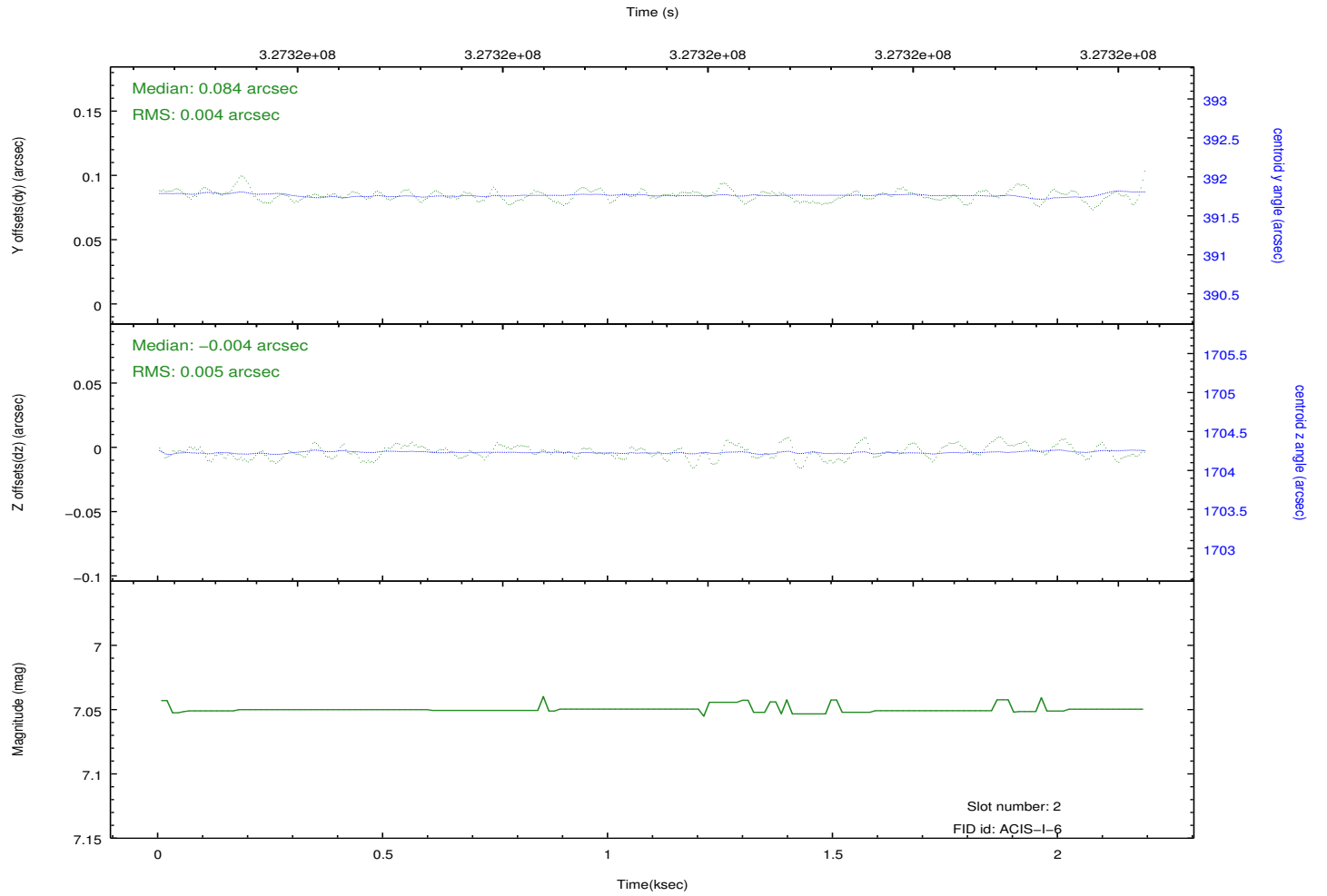
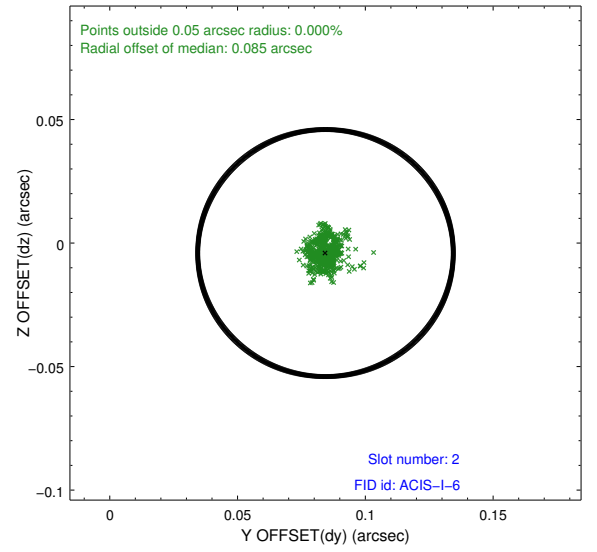
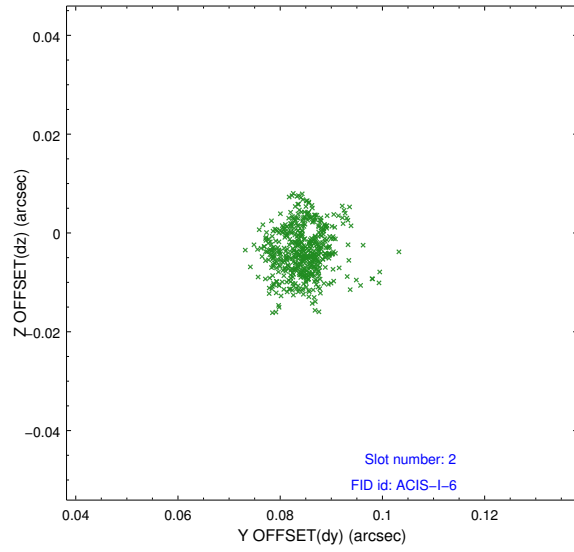
### 2.5.1 Slot 0



## 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	2.18860001

### A.2 Comments