

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8741 - L2 Version 2  
Chandra X-Ray Center

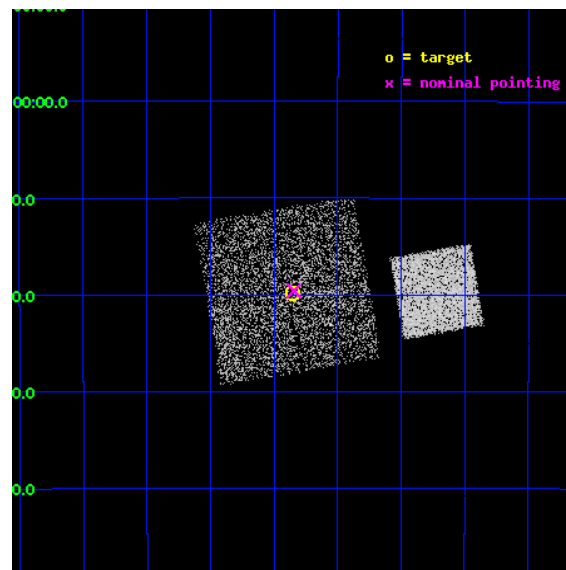
L2 Processing Date : May 14 2012

## 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

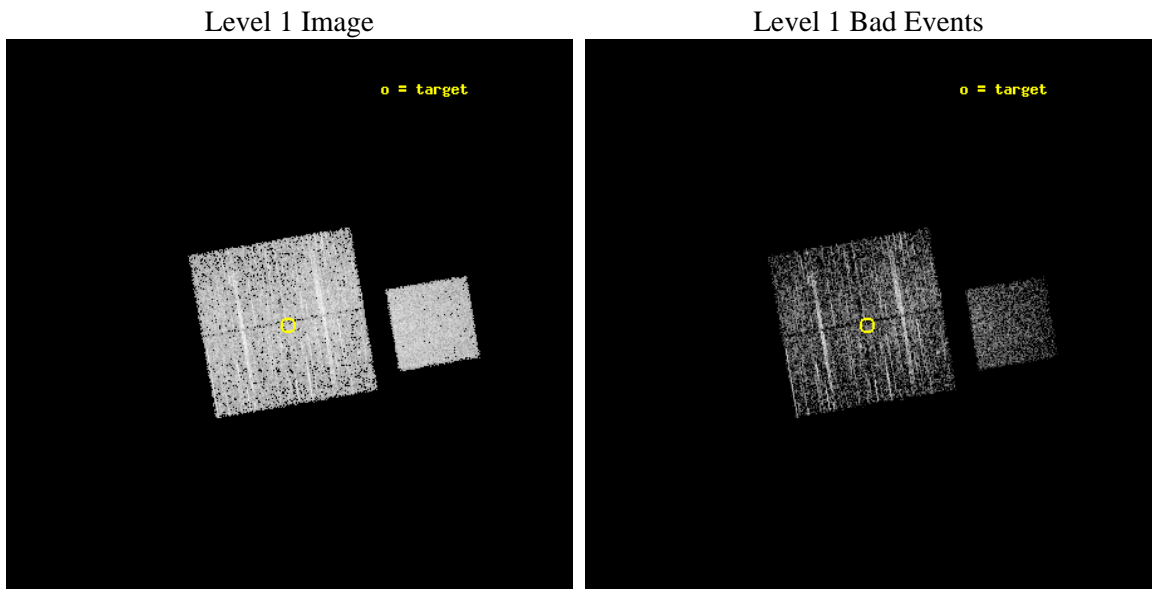
seq_num	400792	Sequence number
obs_id	8741	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	269.4629	Observer's specified target RA [deg]
dec_targ	-27.331428	Observer's specified target Dec [deg]
ra_nom	269.46095901496	Nominal RA [deg]
dec_nom	-27.326505423634	Nominal Dec [deg]
roll_nom	80.207755725061	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	15777	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	2012-05-14T23:21:27	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	100382	Number of level 1 events

### 2.1.4 Events

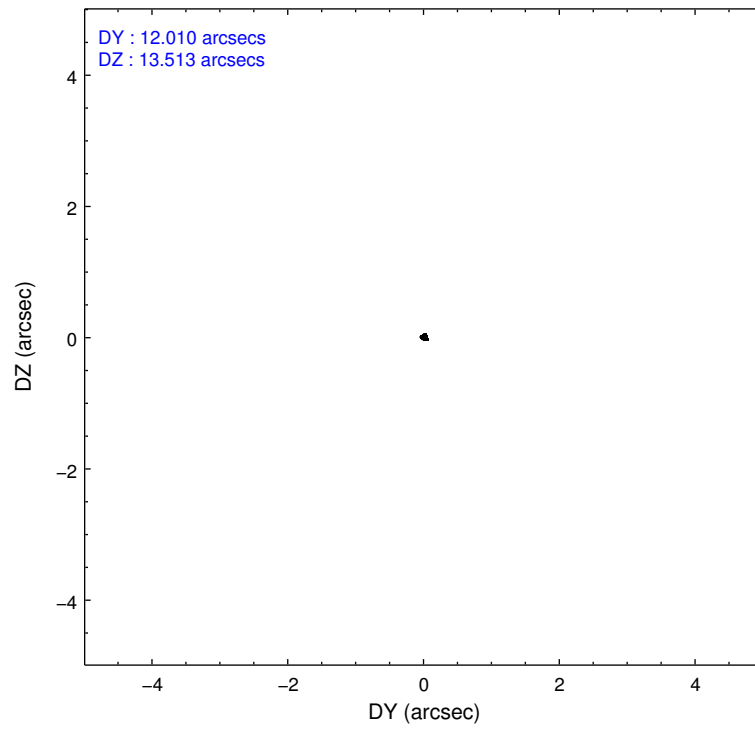
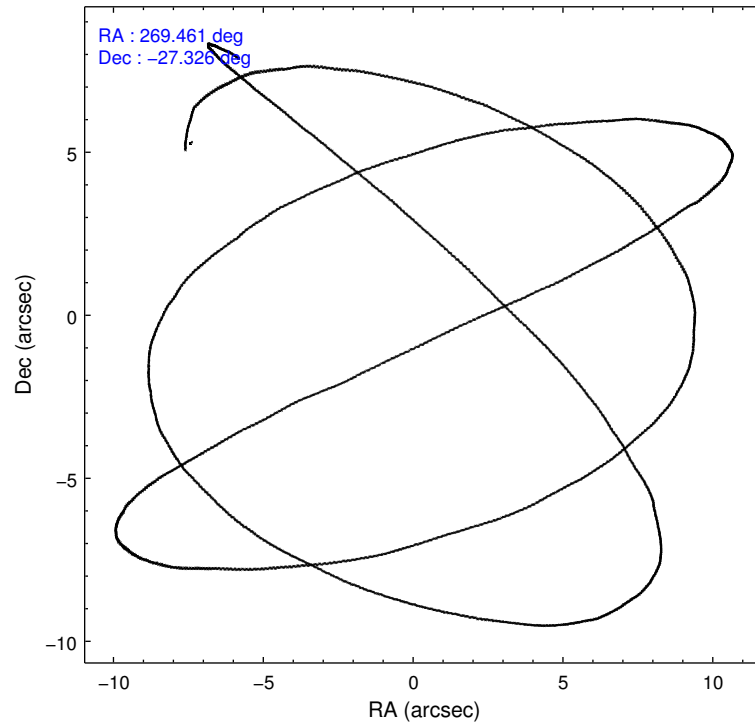
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	17990	19198	21361	19658	22175
rejected events	15996	16865	19374	17759	13146
rejected %	88%	87%	90%	90%	59%

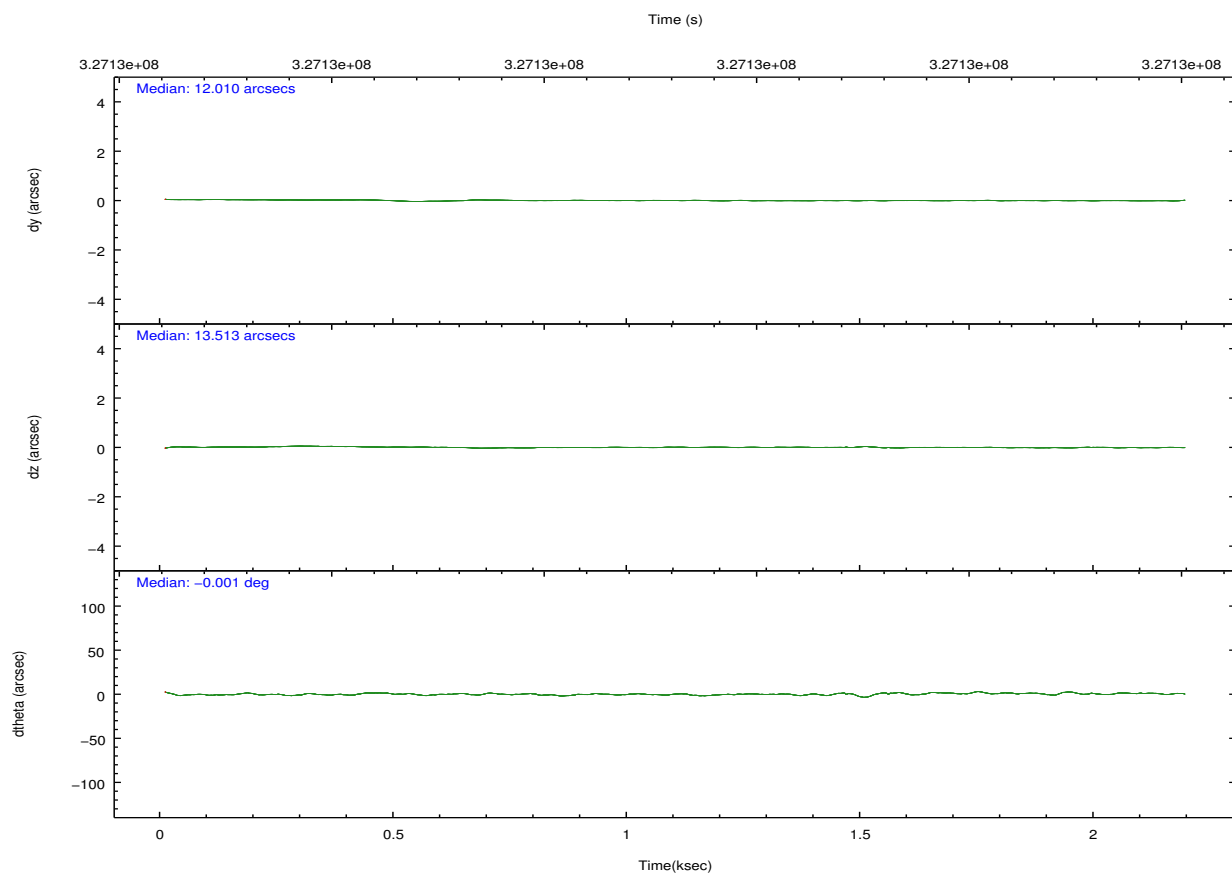
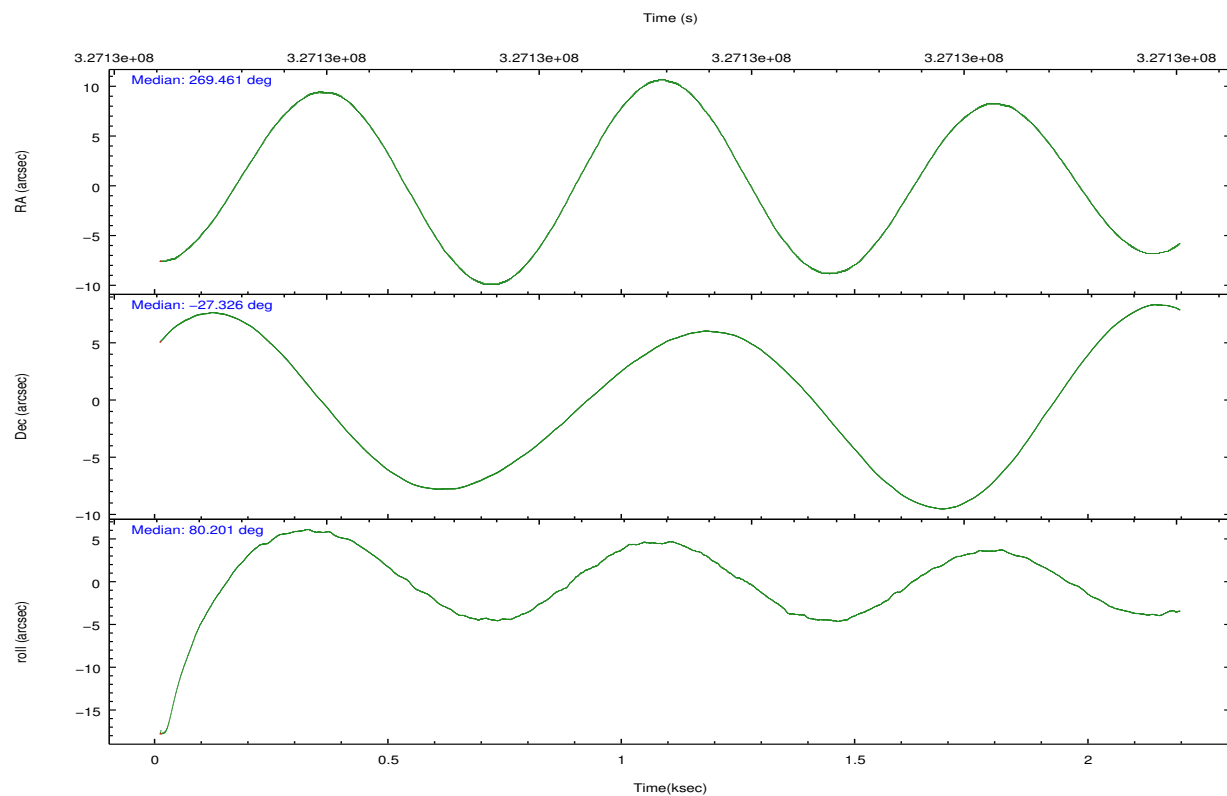
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	970	1177	972	934	1014
	5%	6%	4%	4%	4%
grade 1 events	9	7	21	8	31
	0%	0%	0%	0%	0%
grade 2 events	476	535	489	466	2015
	2%	2%	2%	2%	9%
grade 3 events	261	271	223	213	1000
	1%	1%	1%	1%	4%
grade 4 events	200	246	210	214	975
	1%	1%	0%	1%	4%
grade 5 events	675	737	616	753	2396
	3%	3%	2%	3%	10%
grade 6 events	380	437	398	404	5378
	2%	2%	1%	2%	24%
grade 7 events	15019	15788	18432	16666	9366
	83%	82%	86%	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	269.471865	269.460959014957	CCD I2 on	Y	Y
[deg] Pointing Dec	-27.352461	-27.32650542363383	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004125	80.20775572506103	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)	327128902.184000	327128525.7414	CCD S5 on	N	N
Observation start date	2008-05-14T05:07:17	2008-05-14T05:02:05	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327130902.184000	327131035.96652	On-chip summing requested	N	N
Observation end date	2008-05-14T05:40:37	2008-05-14T05:43:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





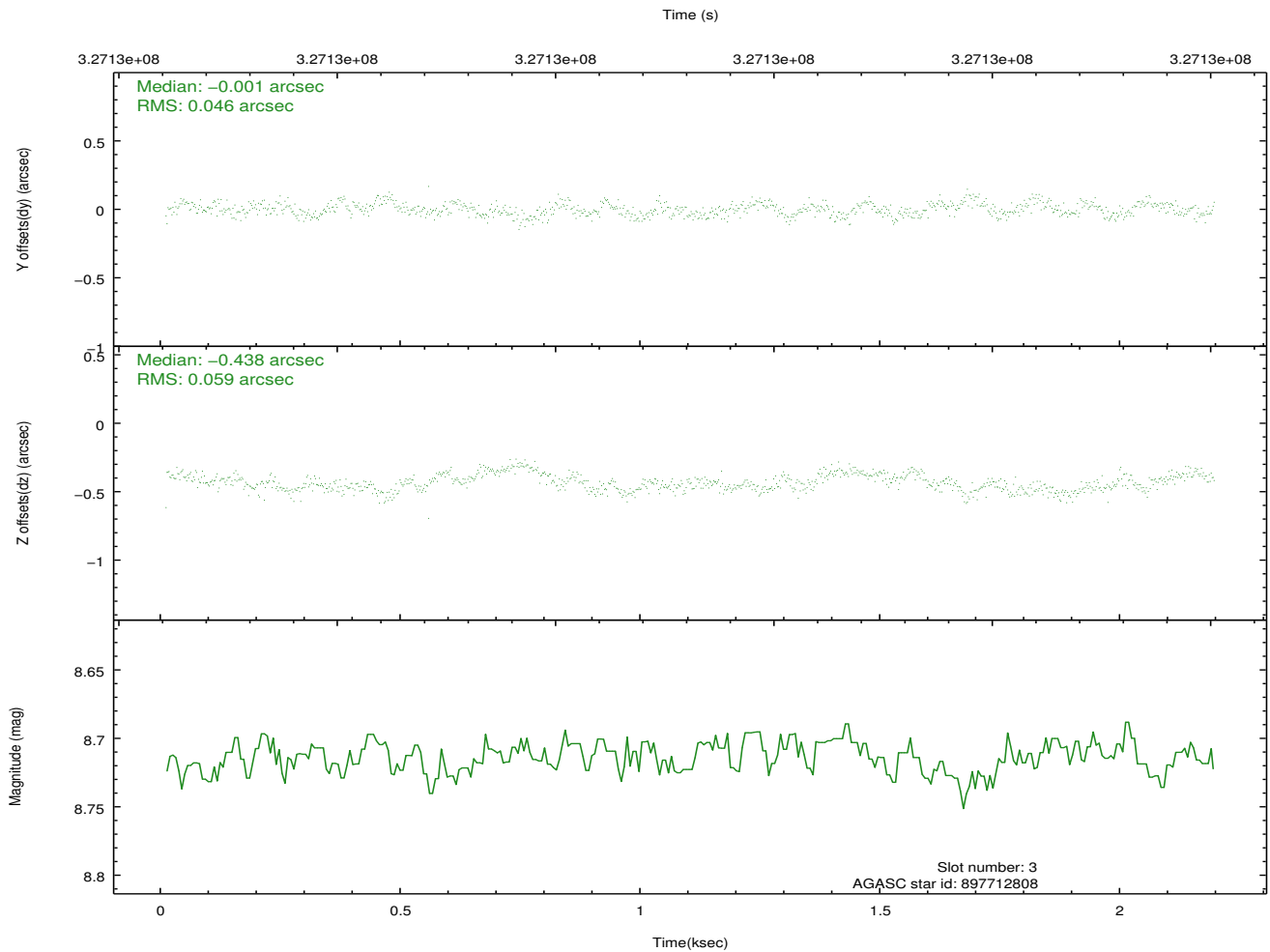
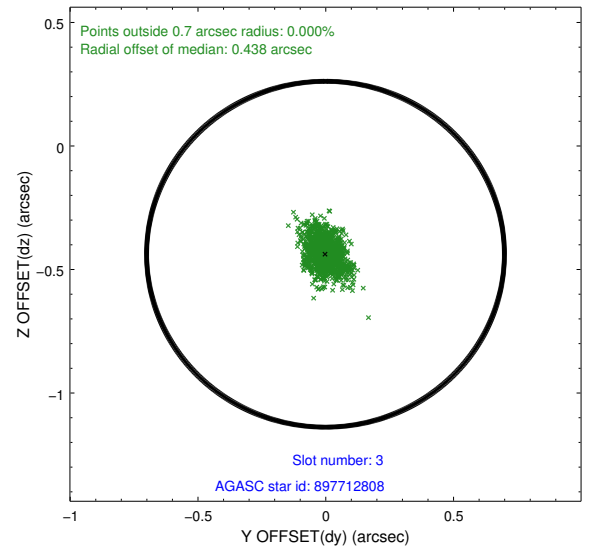
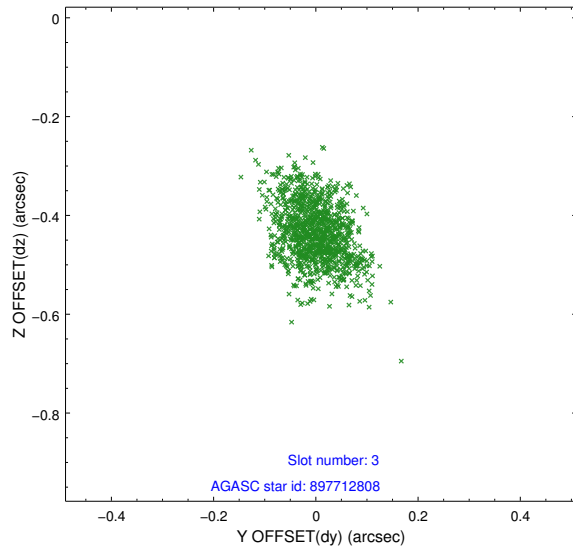
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.06	534	-0.060	0.080	0.011	0.020	0.000000	0.000000	927.45	-837.01
1	FID	ACIS-I-2	6.97	534	-0.121	-0.081	0.010	0.017	0.000000	0.000000	-765.04	-845.07
2	FID	ACIS-I-4	7.00	534	0.084	0.066	0.010	0.015	0.000000	0.000000	2146.15	1061.26
3	GUIDE	897712808	8.71	1067	-0.001	-0.438	0.079	0.130	268.777505	-27.542029	-1063.77	2062.47
4	GUIDE	897715808	7.51	1067	-0.144	-0.156	0.056	0.097	269.101805	-26.773394	1842.44	1534.62
5	GUIDE	897716896	7.34	1067	-0.105	0.142	0.048	0.078	269.902616	-27.069631	1241.46	-1182.15
6	GUIDE	897720616	8.61	1067	0.229	0.250	0.068	0.111	269.886360	-27.876425	-1629.69	-1628.20
7	GUIDE	897862152	9.26	1066	0.014	0.201	0.092	0.149	270.075629	-28.076037	-2238.77	-2343.63

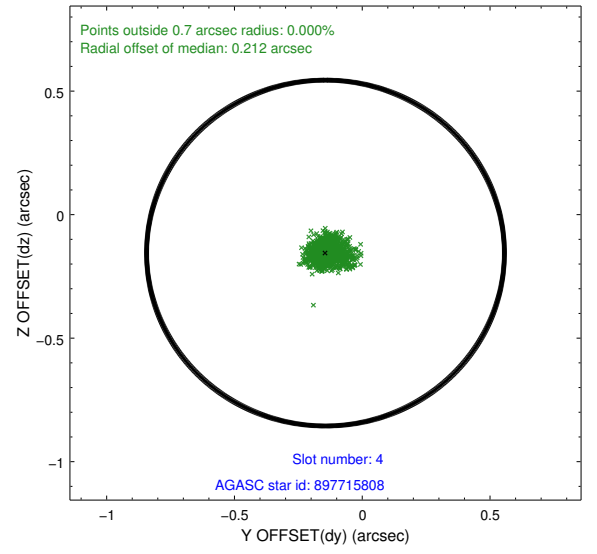
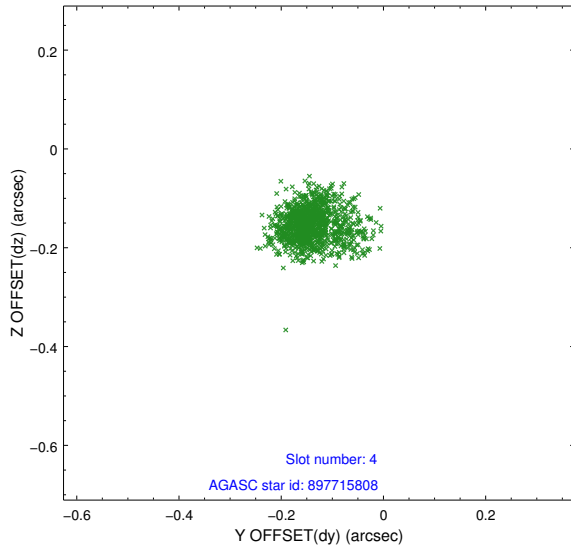


## 2.4 Star Slots

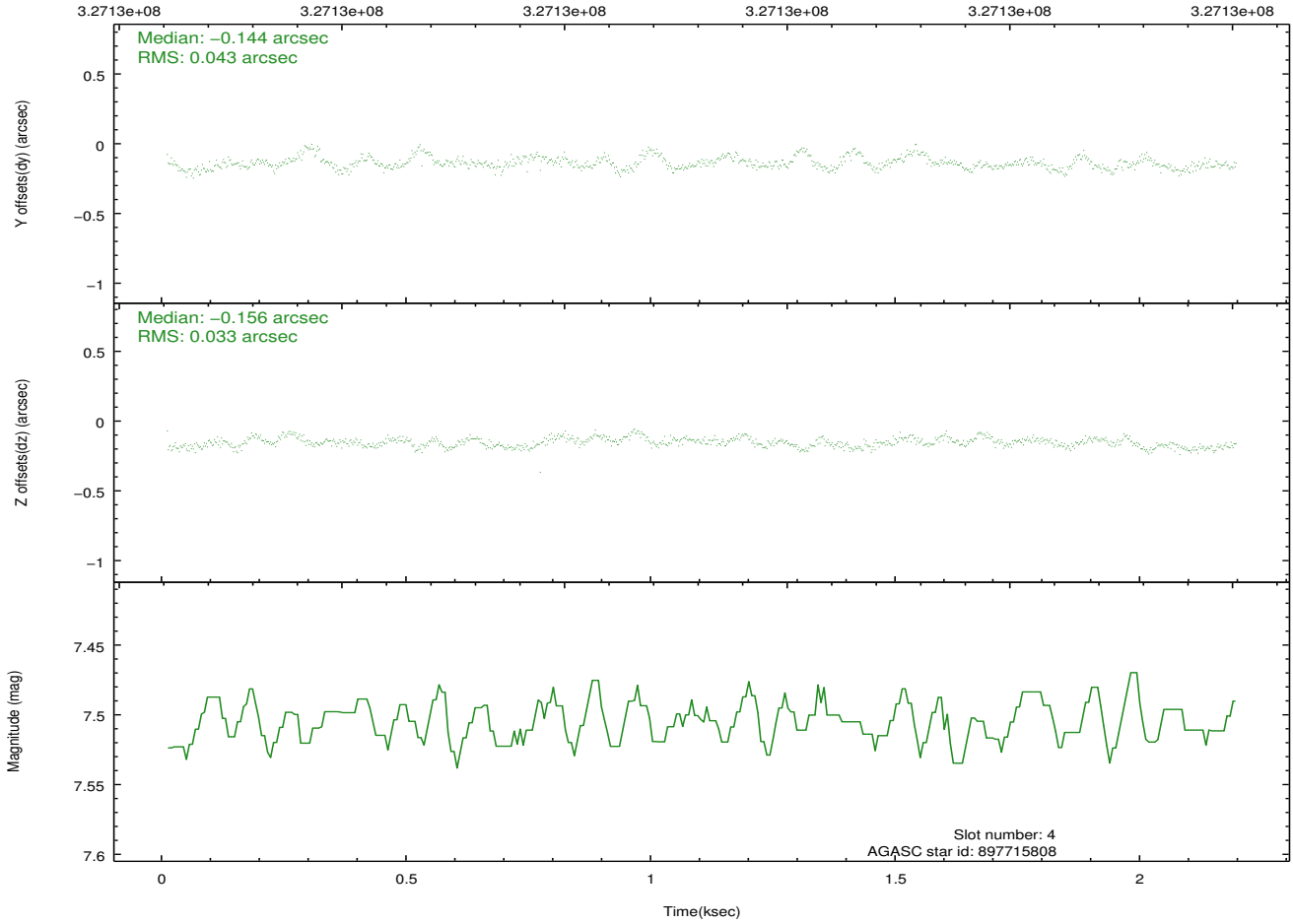
### 2.4.1 Slot 3



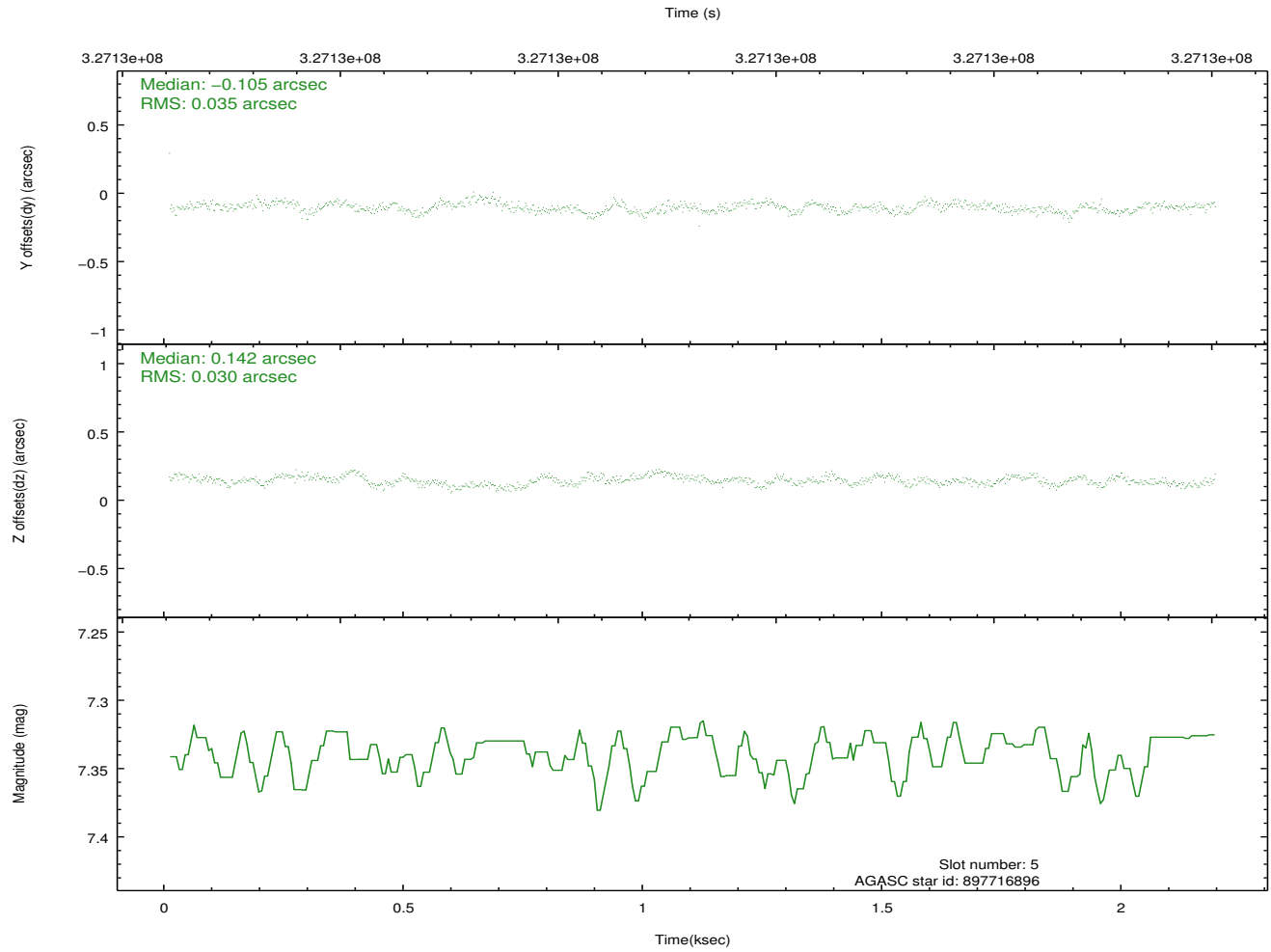
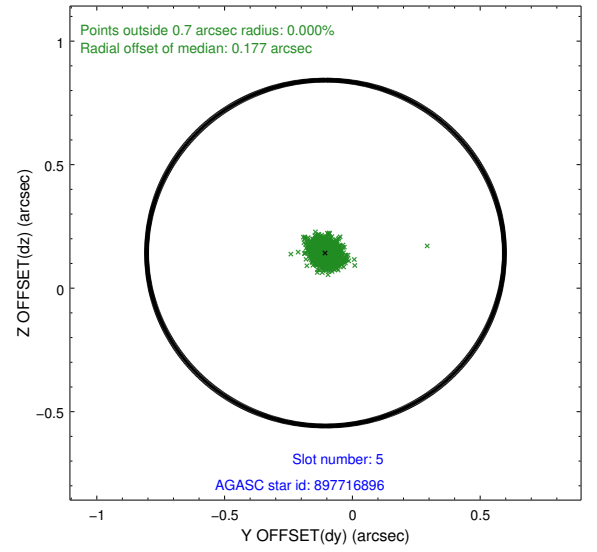
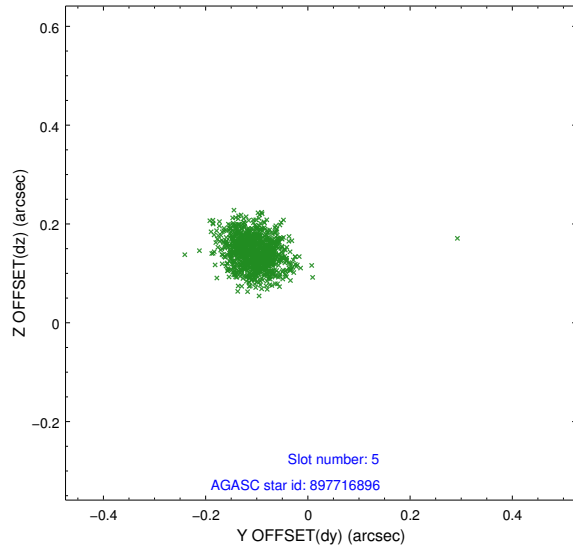
## 2.4.2 Slot 4



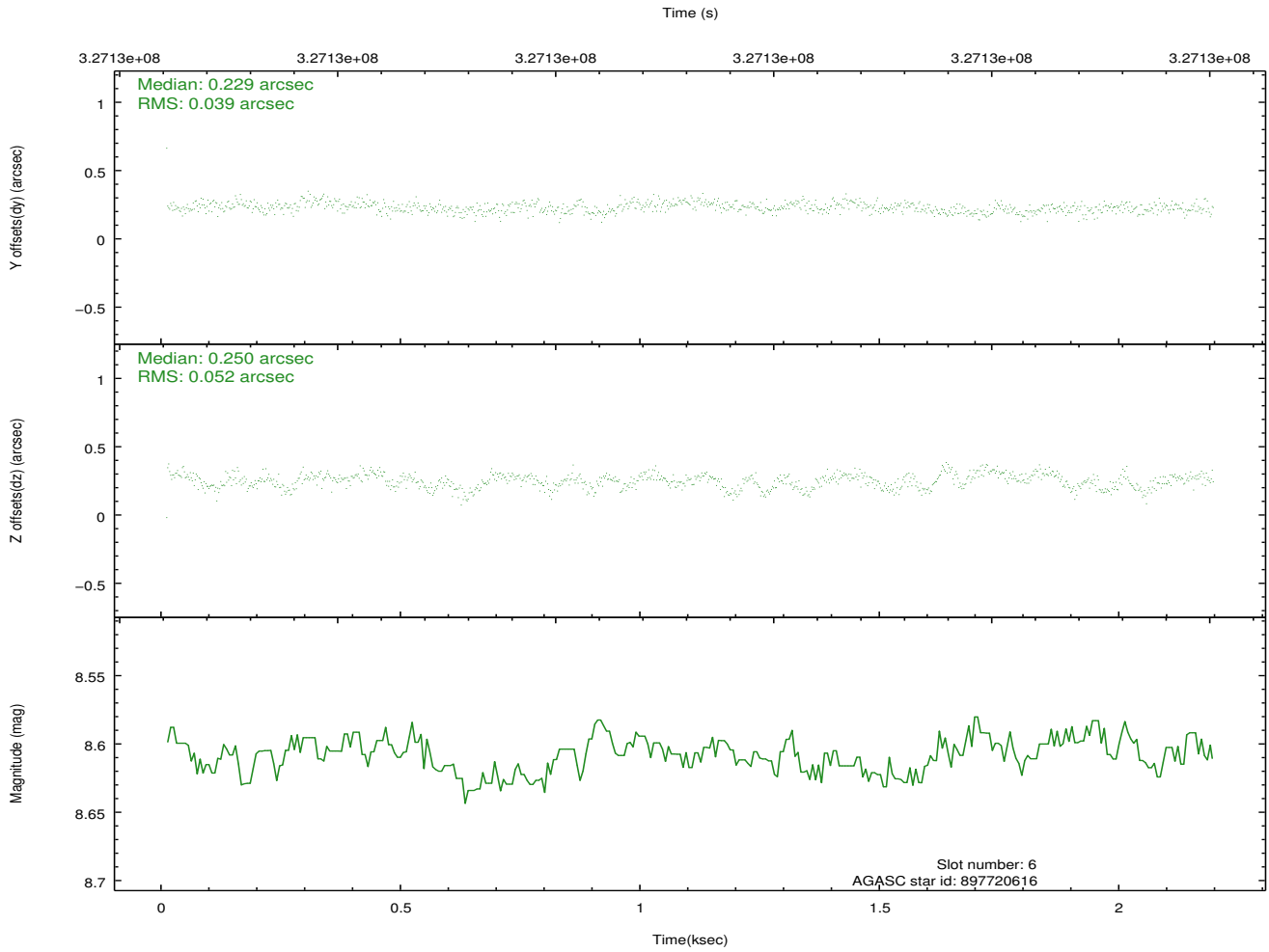
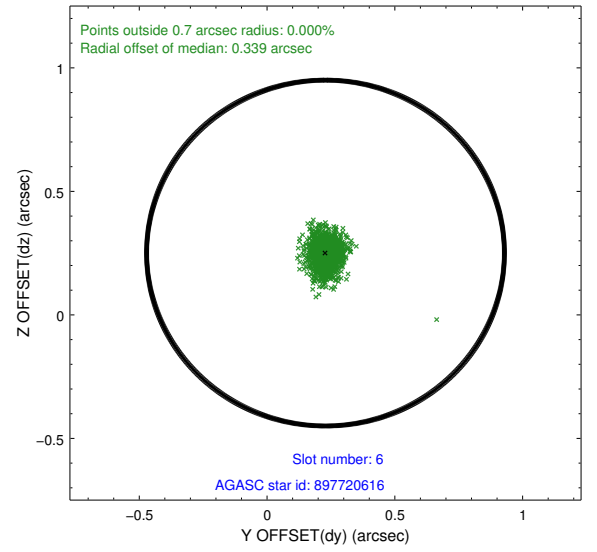
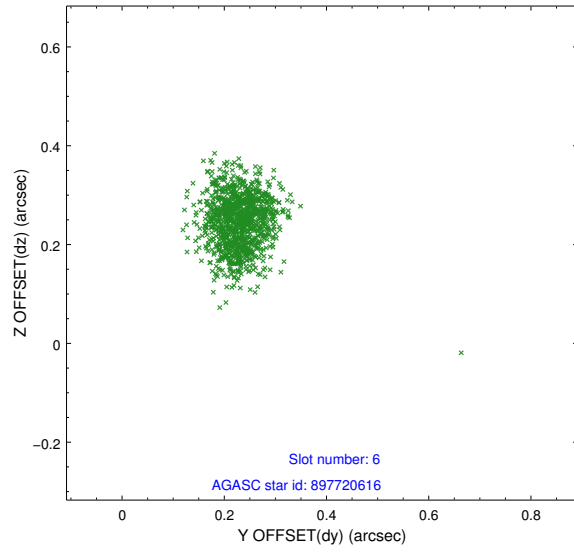
Time (s)



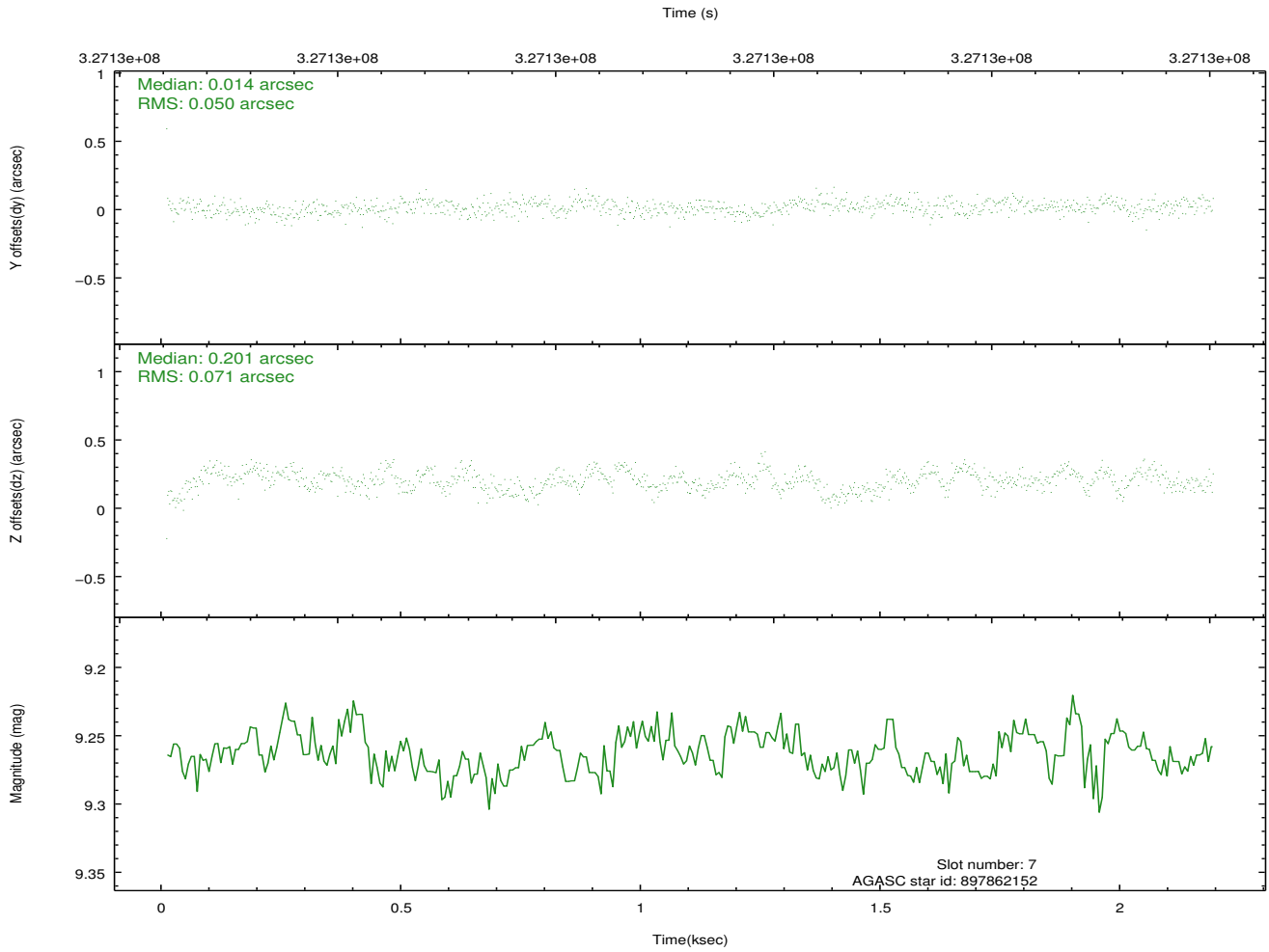
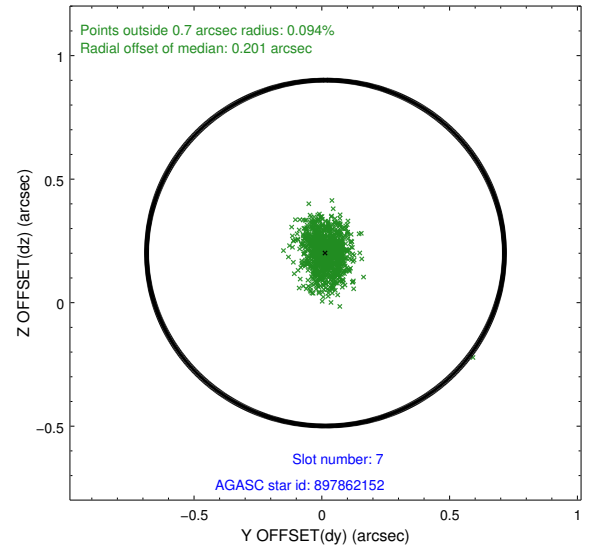
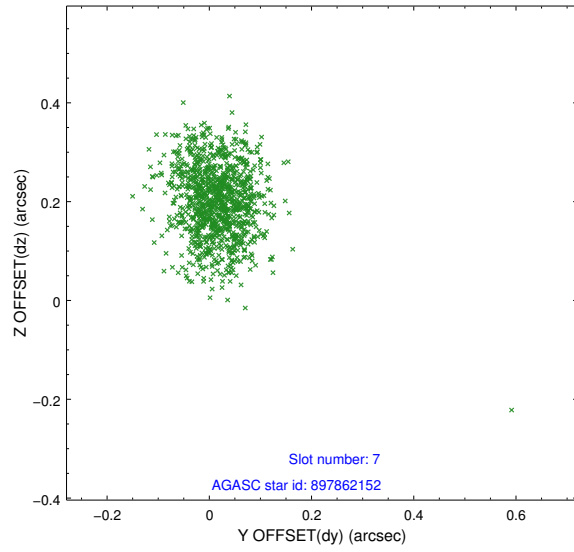
### 2.4.3 Slot 5



## 2.4.4 Slot 6

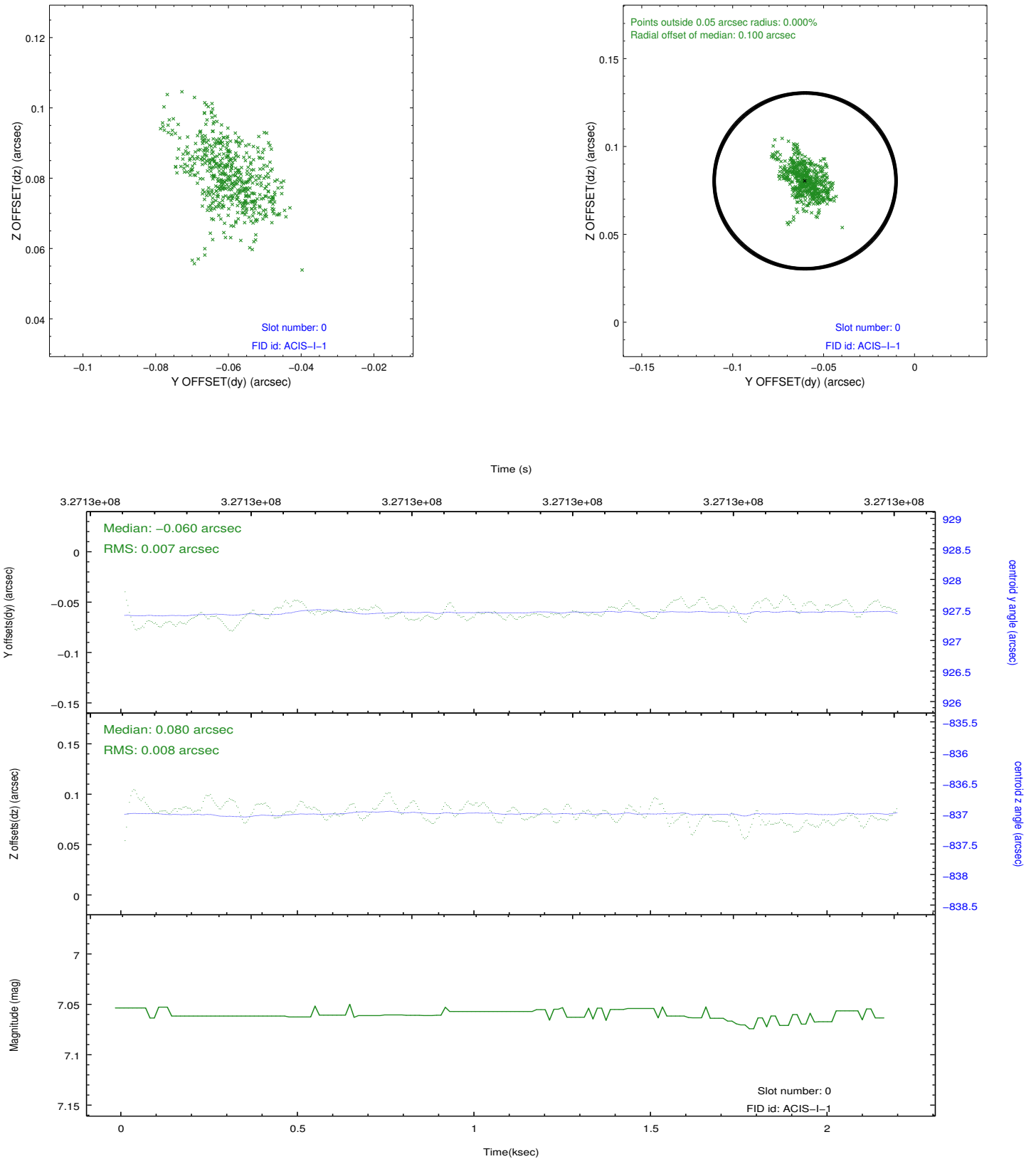


## 2.4.5 Slot 7

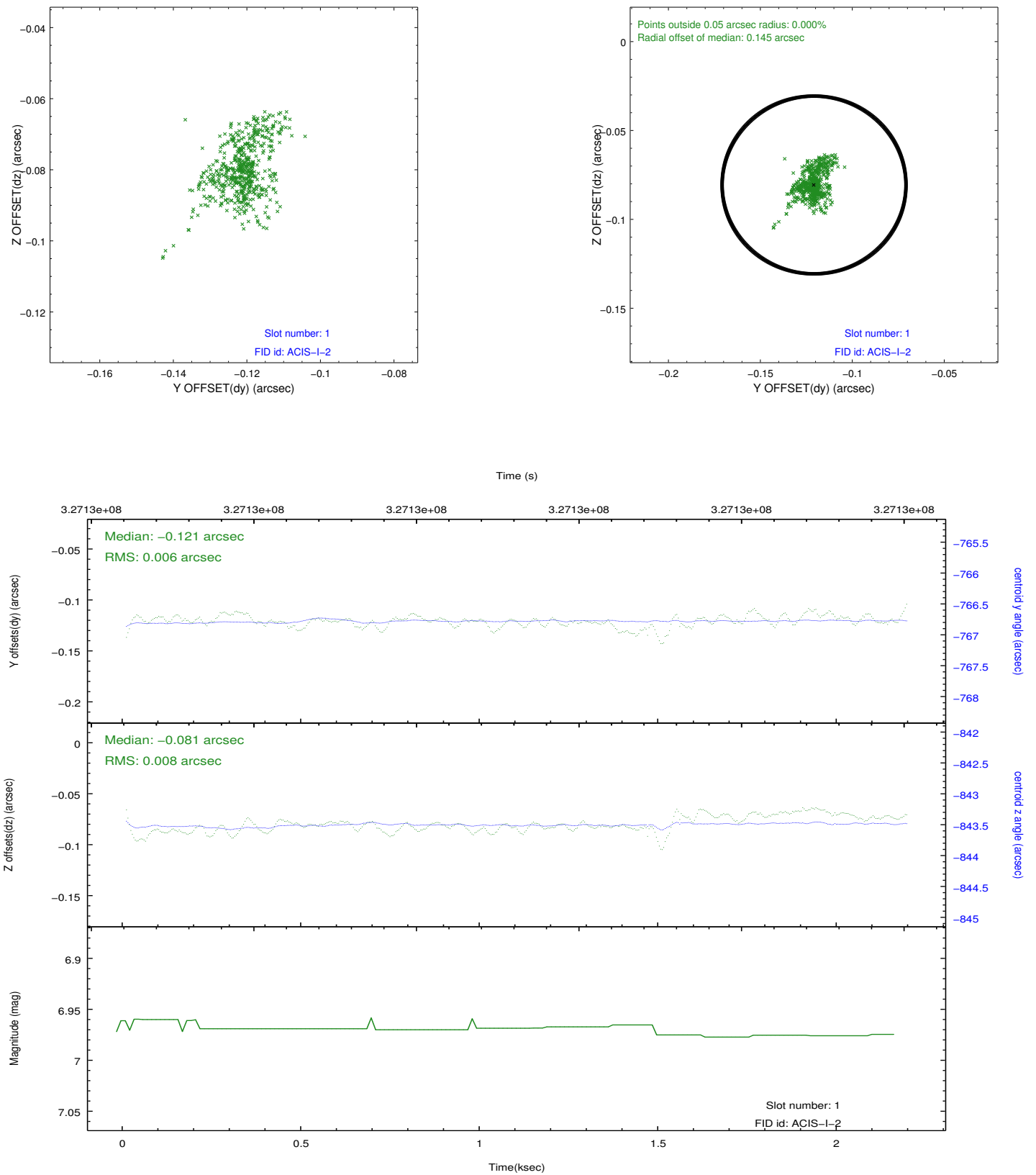


## 2.5 FID Slots

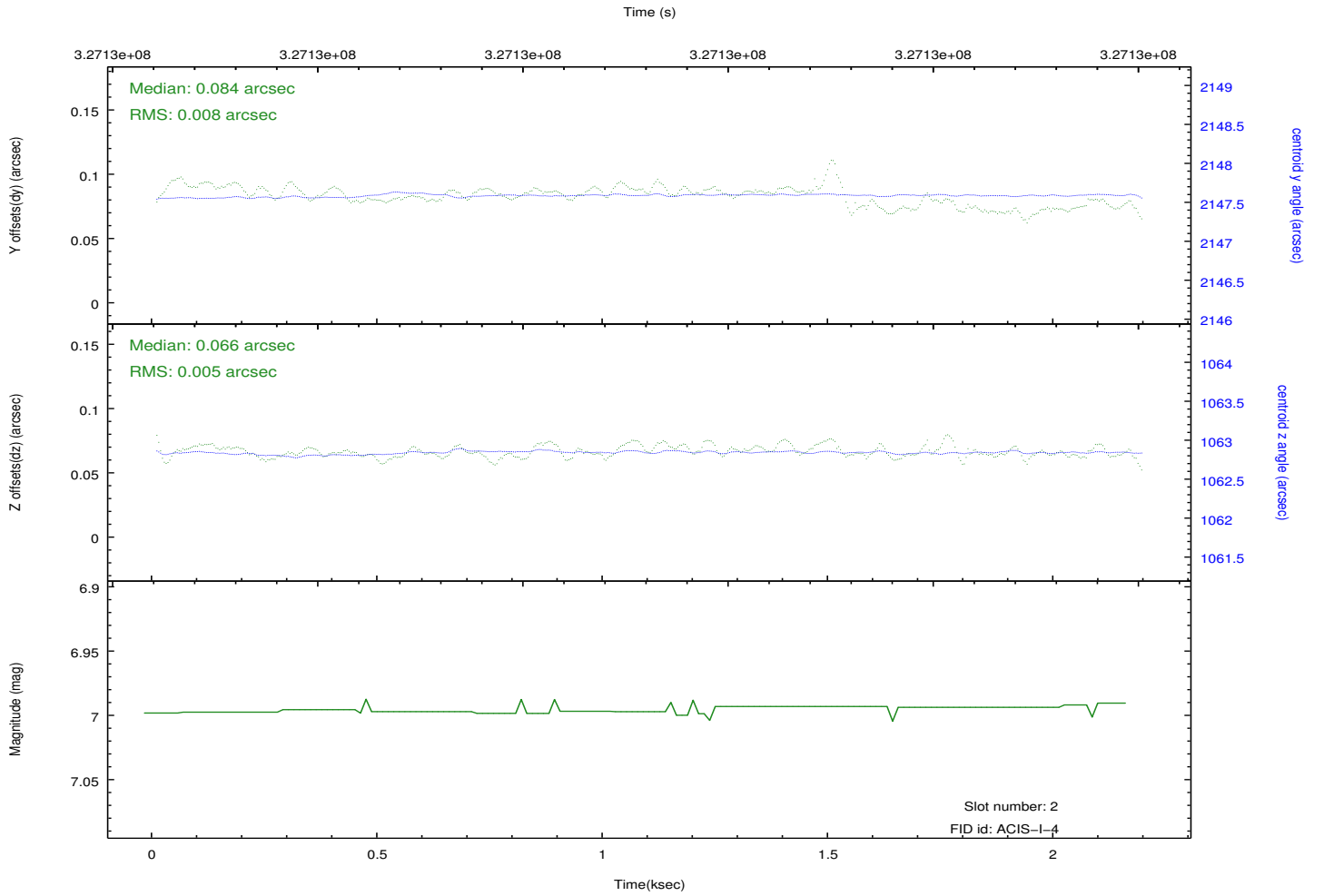
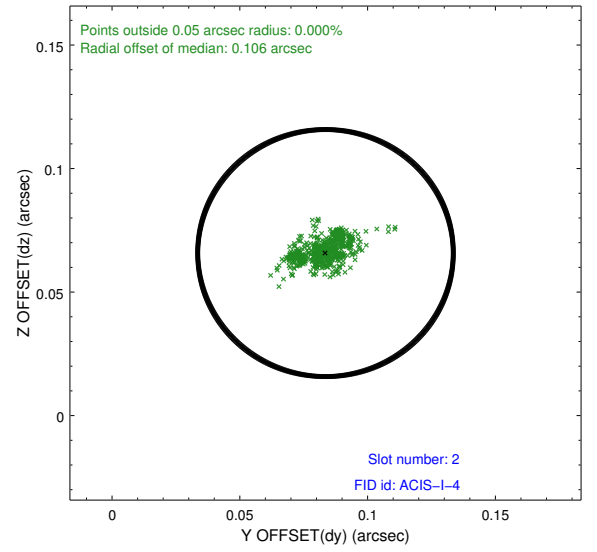
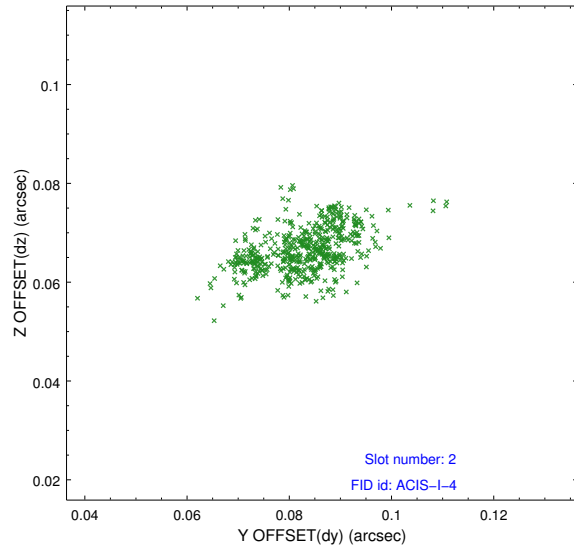
### 2.5.1 Slot 0



## 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)	2012.05.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18550001

### A.2 Comments

Joint proposal with NOAO.