

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8719 - L2 Version 2  
Chandra X-Ray Center

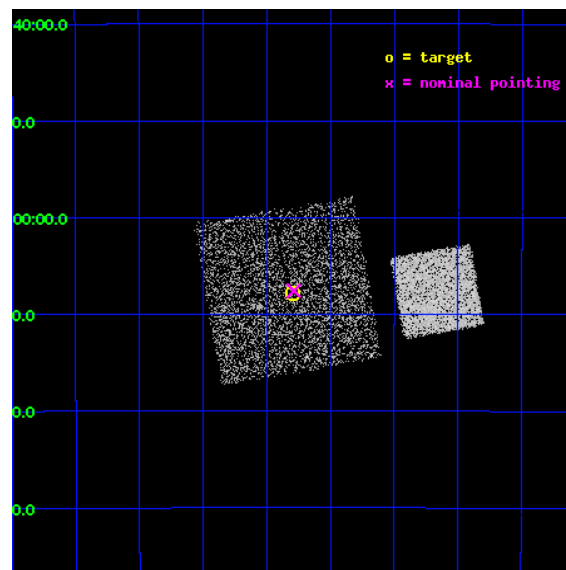
L2 Processing Date : May 14 2012

## 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

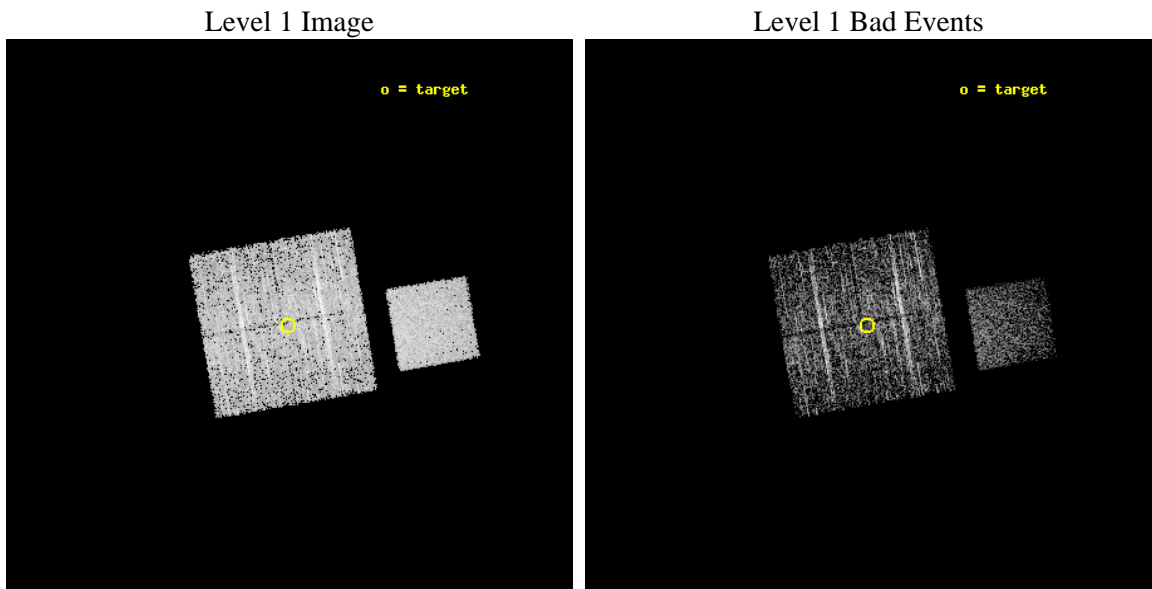
seq_num	400770	Sequence number
obs_id	8719	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	269.073642	Observer's specified target RA [deg]
dec_targ	-27.130919	Observer's specified target Dec [deg]
ra_nom	269.07177815533	Nominal RA [deg]
dec_nom	-27.126348254647	Nominal Dec [deg]
roll_nom	80.207861328507	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	2182.4000167847	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	15289	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	2012-05-14T23:21:29	Date and time of file creation	ontime1	2182.4000167847	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	97937	Number of level 1 events

### 2.1.4 Events

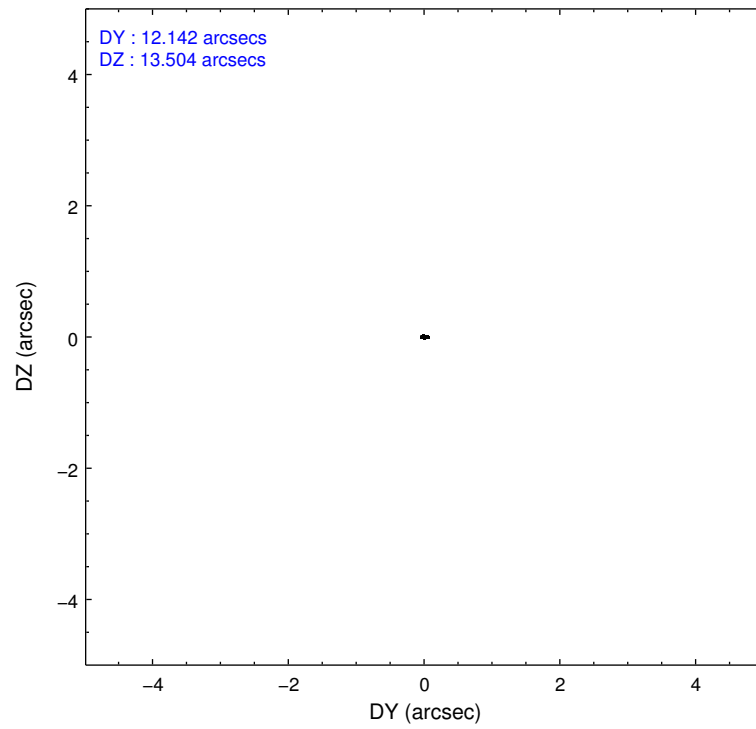
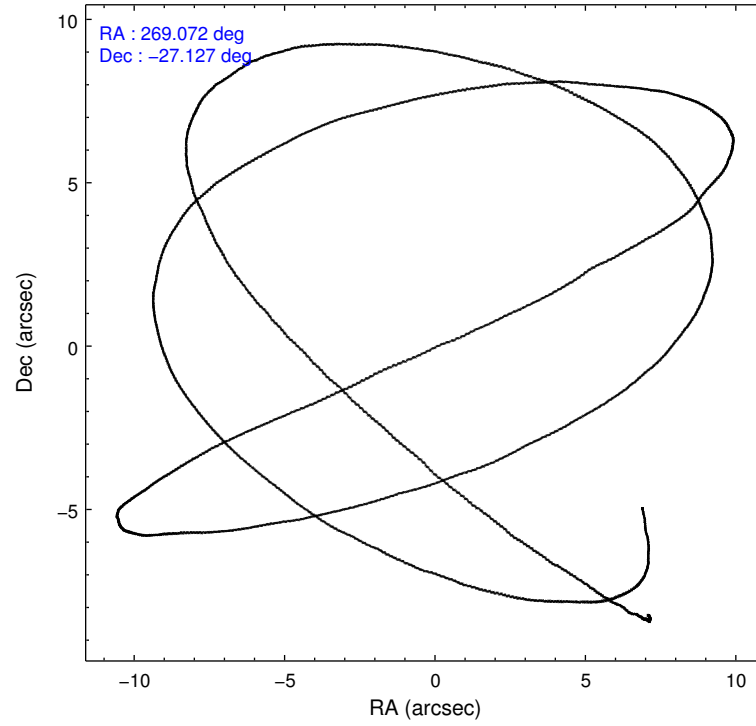
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	17585	18230	20631	18696	22795
rejected events	15664	16103	18792	16779	13772
rejected %	89%	88%	91%	89%	60%

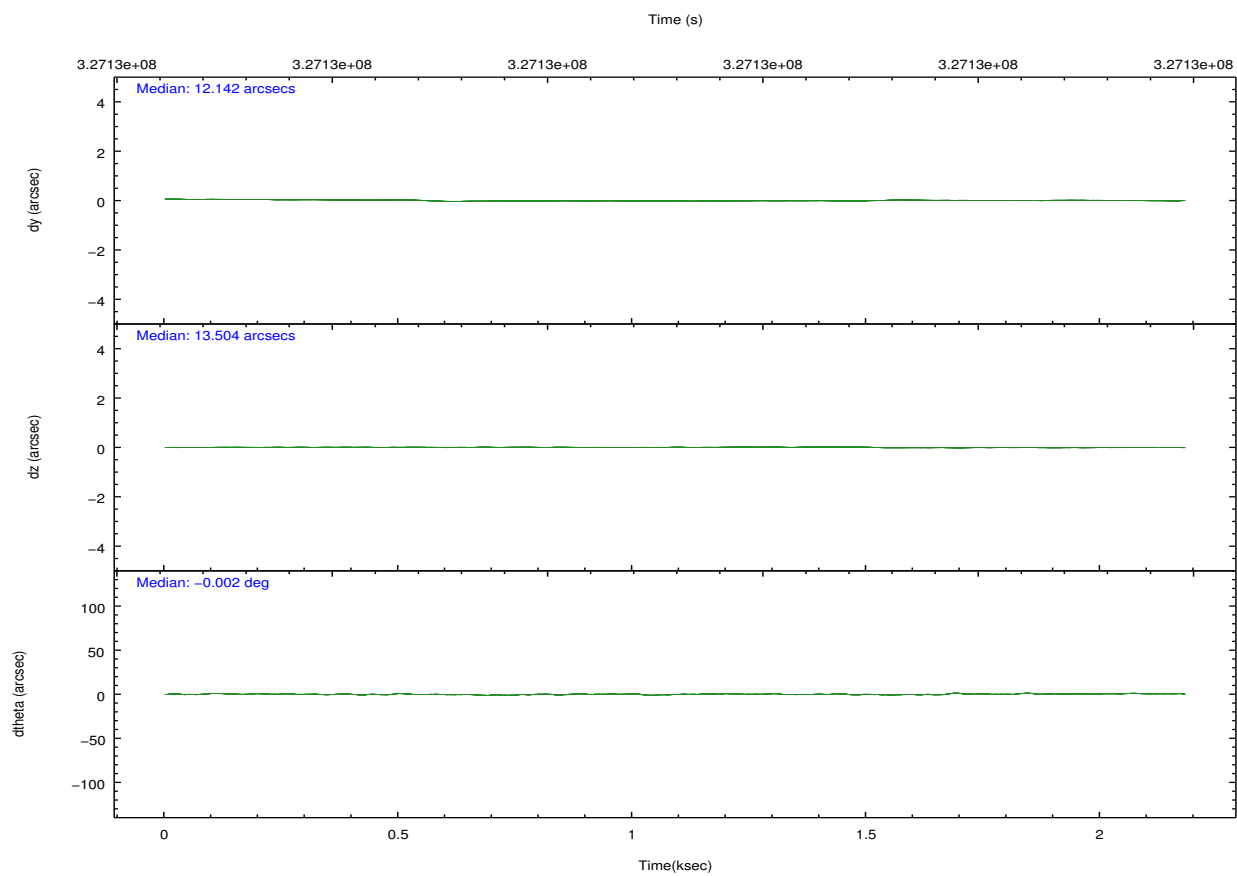
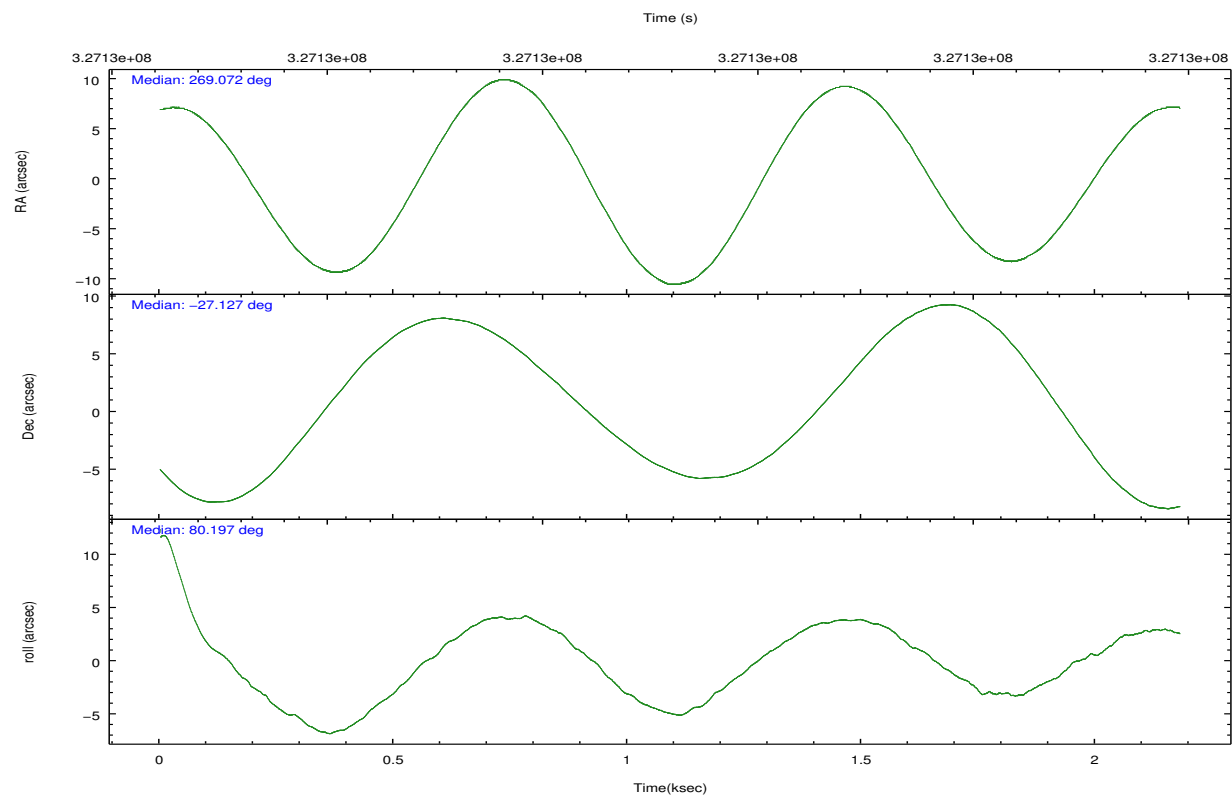
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	874	1026	835	861	1022
	4%	5%	4%	4%	4%
grade 1 events	7	10	12	14	20
	0%	0%	0%	0%	0%
grade 2 events	490	552	490	485	2143
	2%	3%	2%	2%	9%
grade 3 events	237	249	219	218	972
	1%	1%	1%	1%	4%
grade 4 events	203	225	217	218	934
	1%	1%	1%	1%	4%
grade 5 events	732	805	678	805	2435
	4%	4%	3%	4%	10%
grade 6 events	369	457	337	411	5367
	2%	2%	1%	2%	23%
grade 7 events	14673	14906	17843	15684	9902
	83%	81%	86%	83%	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	269.082600	269.0717781553276	CCD I2 on	Y	Y
[deg] Pointing Dec	-27.151960	-27.12634825464681	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004091	80.20786132850674	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)	327126392.184000	327126015.51627	CCD S5 on	N	N
Observation start date	2008-05-14T04:25:27	2008-05-14T04:20:15	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327128392.184000	327128525.7414	On-chip summing requested	N	N
Observation end date	2008-05-14T04:58:47	2008-05-14T05:02:05	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





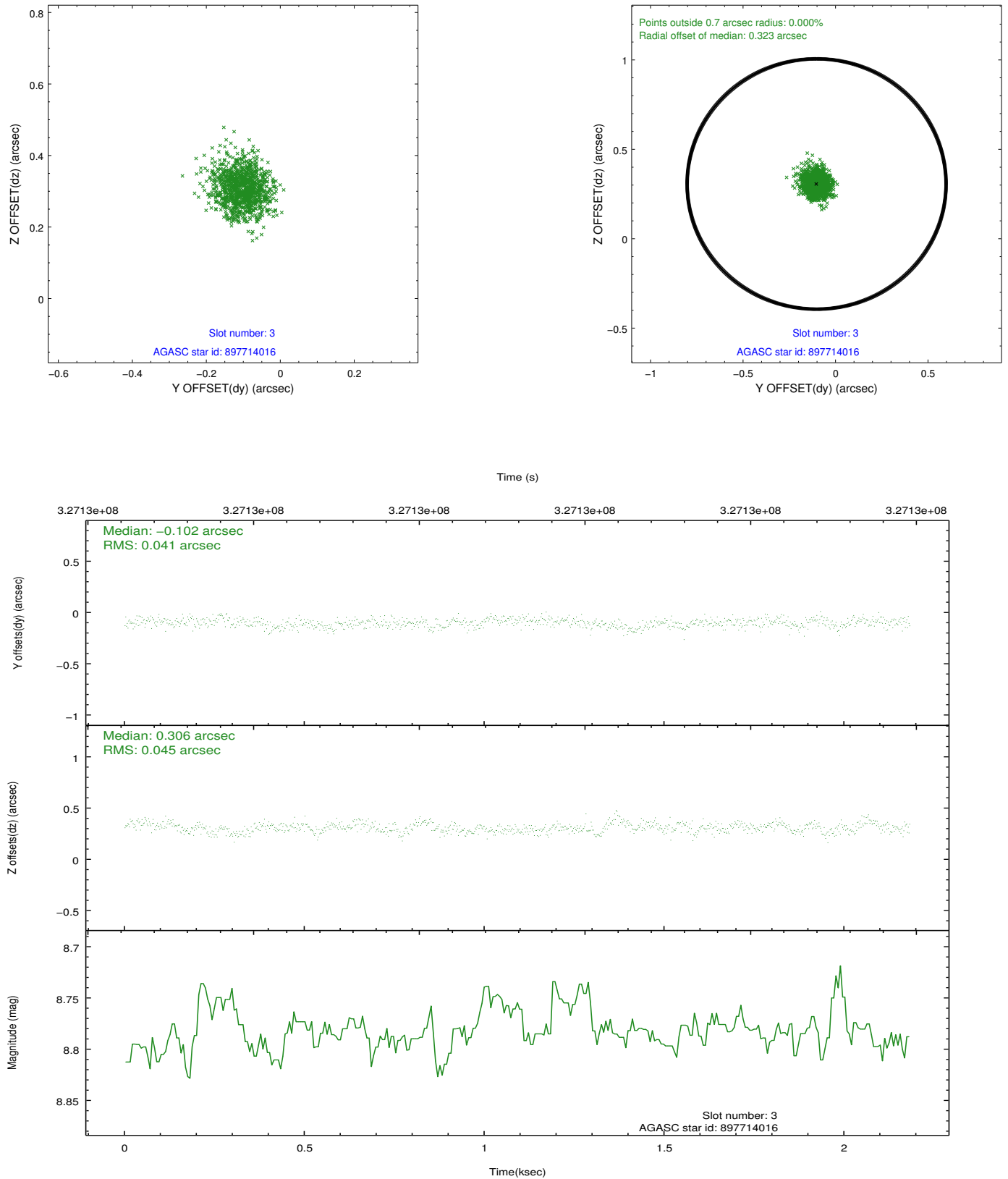
### Slot Statistics

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	532	0.007	0.043	0.008	0.013	0.000000	0.000000	927.40	-837.02
1	FID	ACIS-I-5	7.05	532	-0.155	0.036	0.009	0.015	0.000000	0.000000	-1819.22	1058.95
2	FID	ACIS-I-6	7.06	532	0.057	-0.009	0.008	0.015	0.000000	0.000000	389.73	1706.81
3	GUIDE	897714016	8.78	1065	-0.102	0.306	0.065	0.102	269.708519	-26.828266	1492.79	-1778.12
4	GUIDE	897715808	7.50	1065	-0.007	0.005	0.067	0.105	269.101805	-26.773394	1354.31	174.53
5	GUIDE	897717760	7.26	1065	0.111	-0.258	0.074	0.111	268.392593	-27.282645	-850.73	2091.39
6	GUIDE	897720600	8.25	1065	0.138	-0.012	0.073	0.114	268.319864	-27.628963	-2121.18	2098.39
7	GUIDE	897726696	8.07	1064	-0.144	-0.050	0.063	0.098	269.027034	-27.024261	420.38	257.45

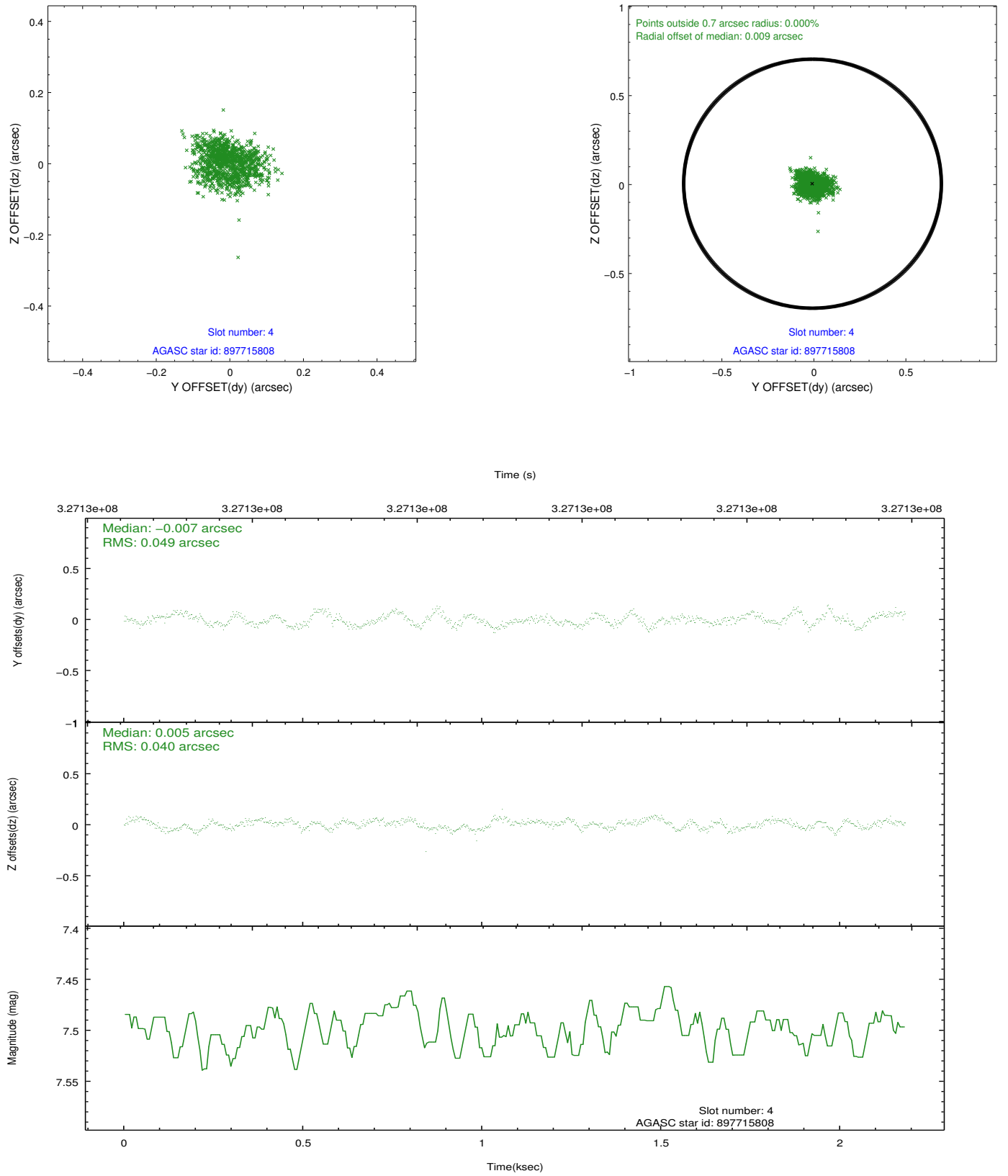


## 2.4 Star Slots

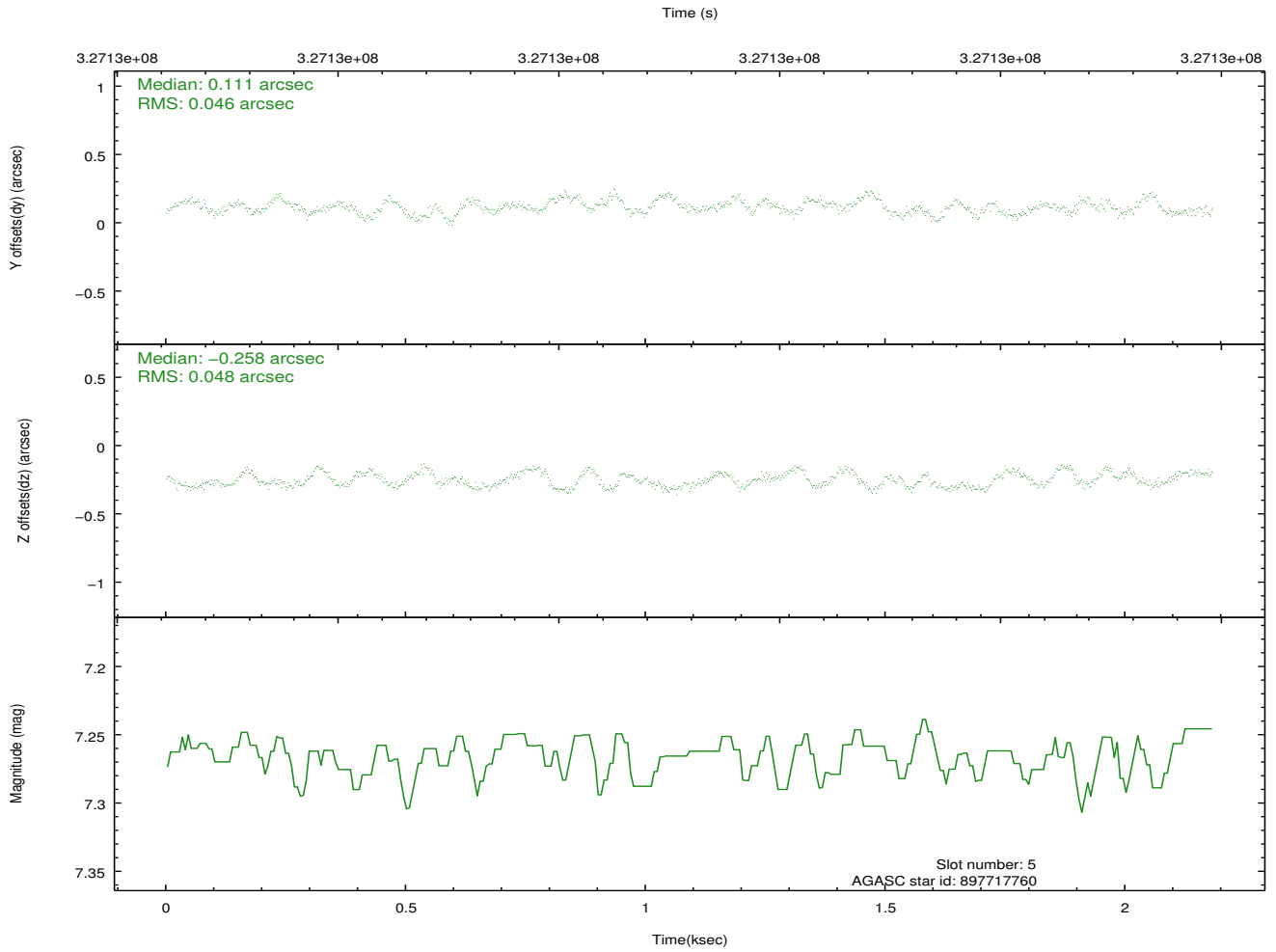
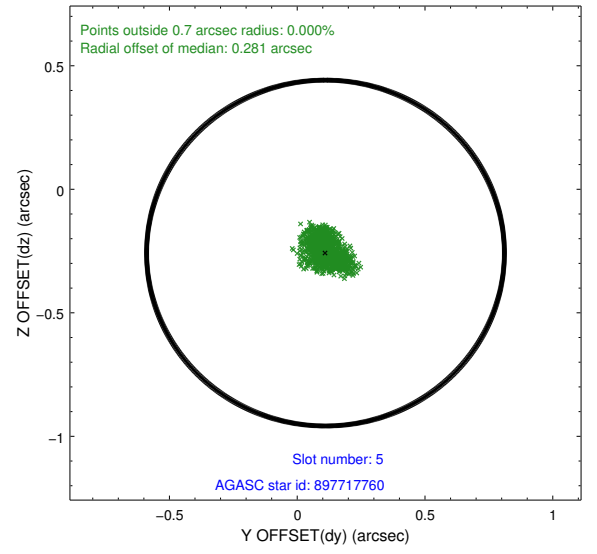
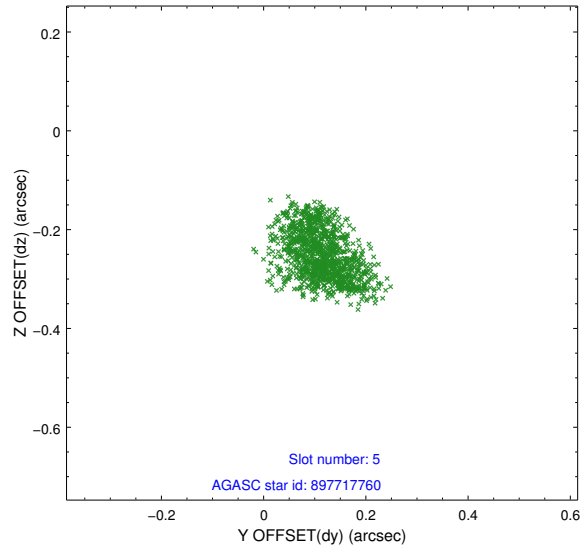
### 2.4.1 Slot 3



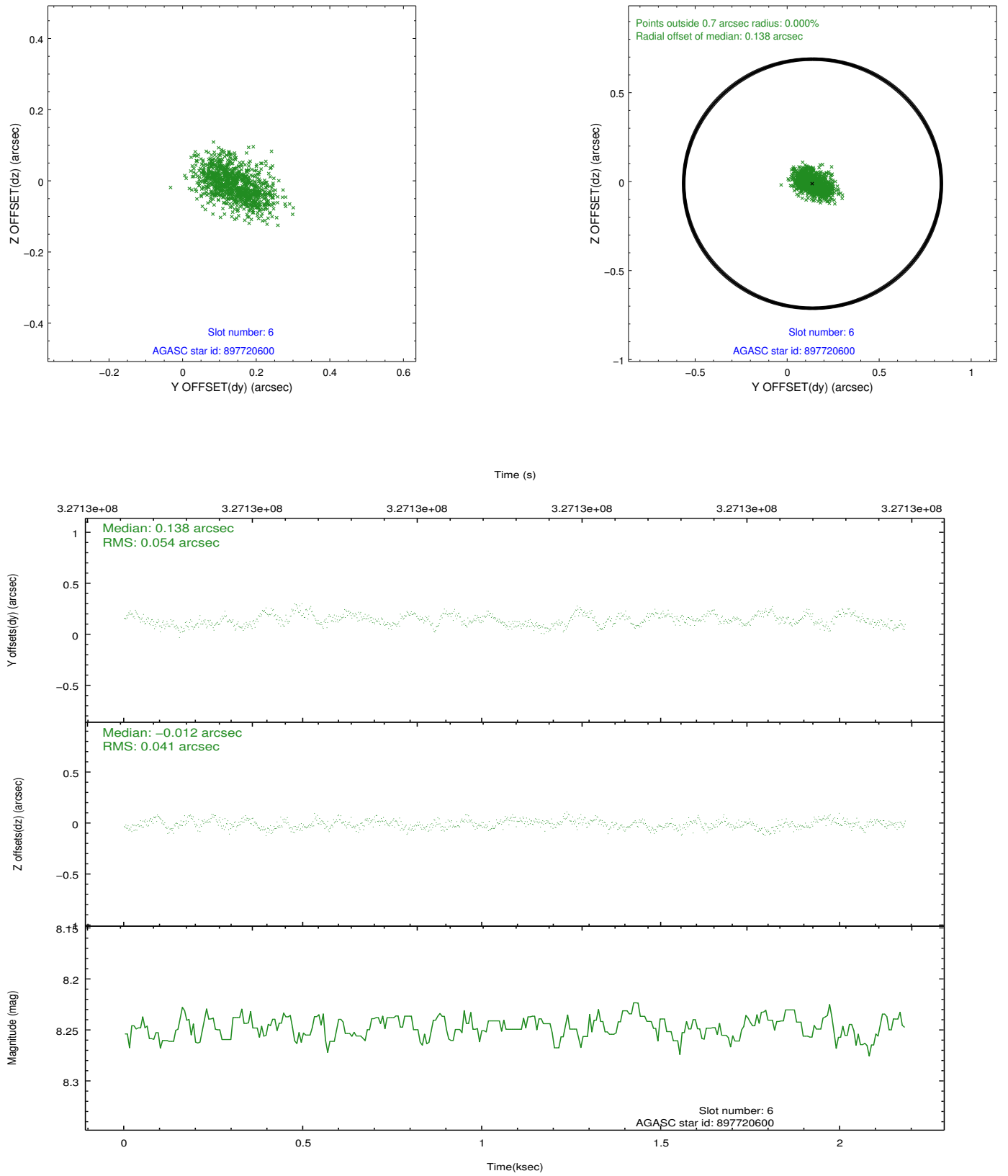
## 2.4.2 Slot 4



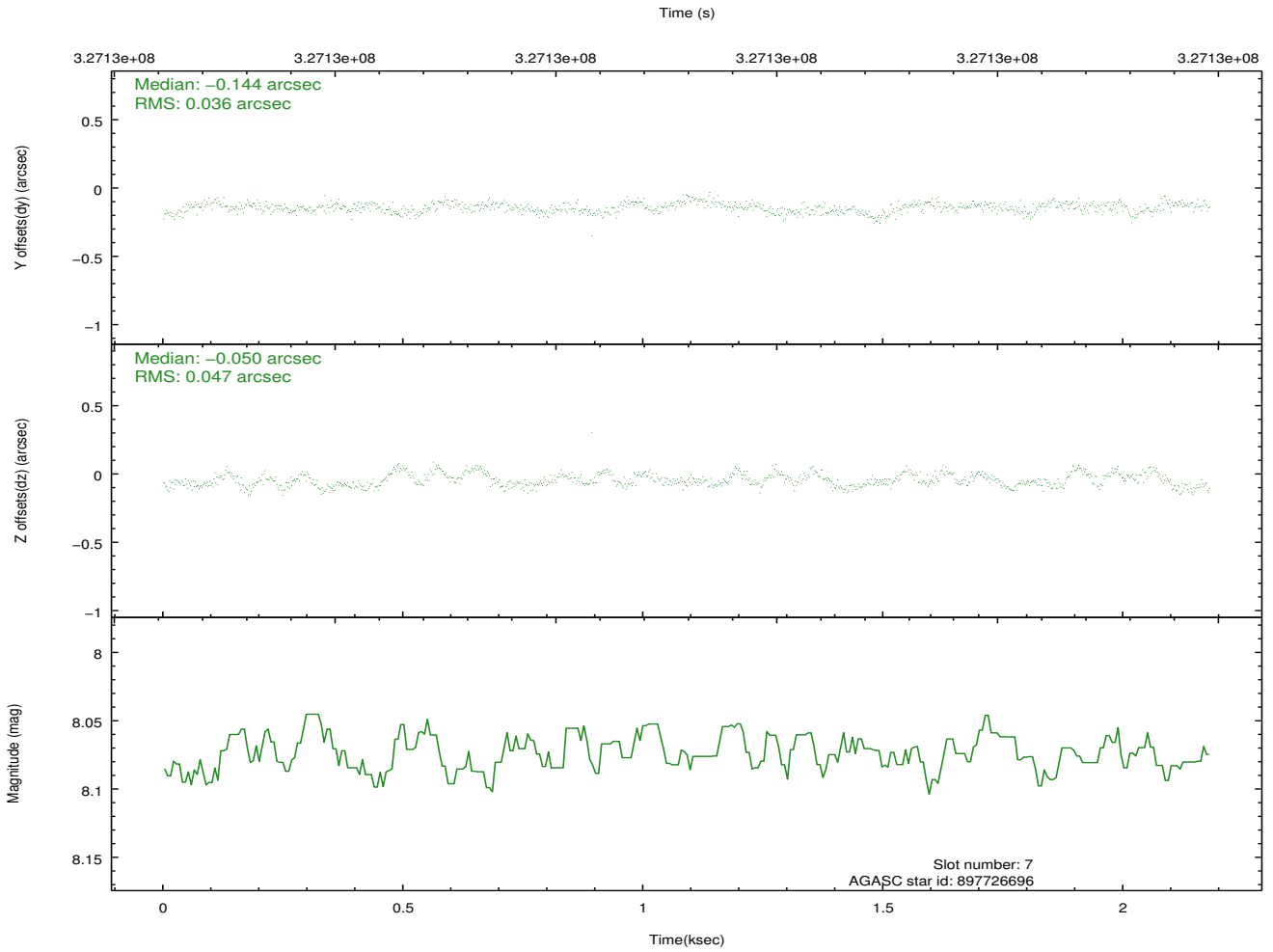
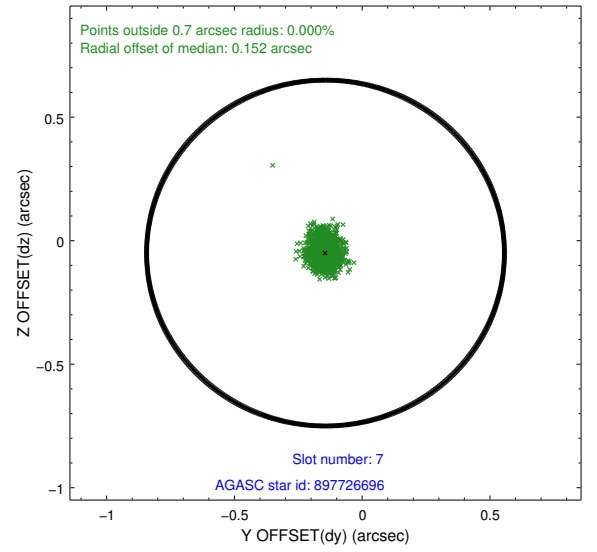
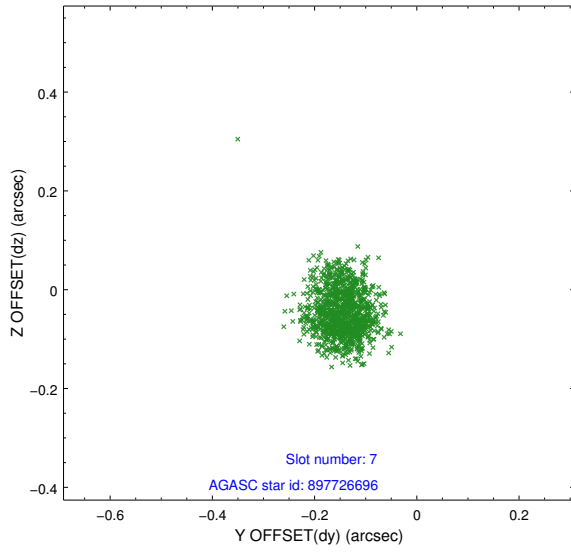
### 2.4.3 Slot 5



## 2.4.4 Slot 6

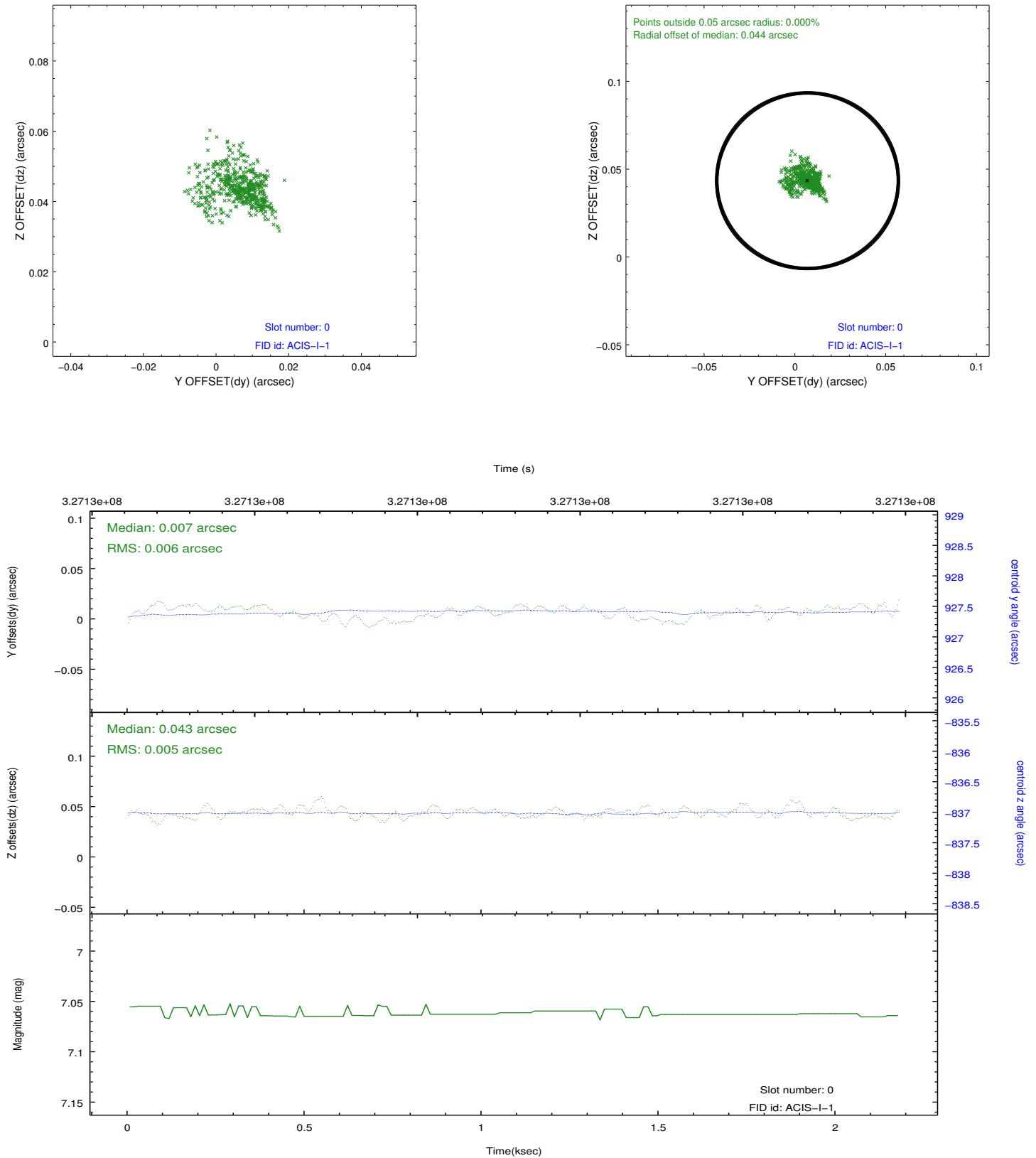


## 2.4.5 Slot 7

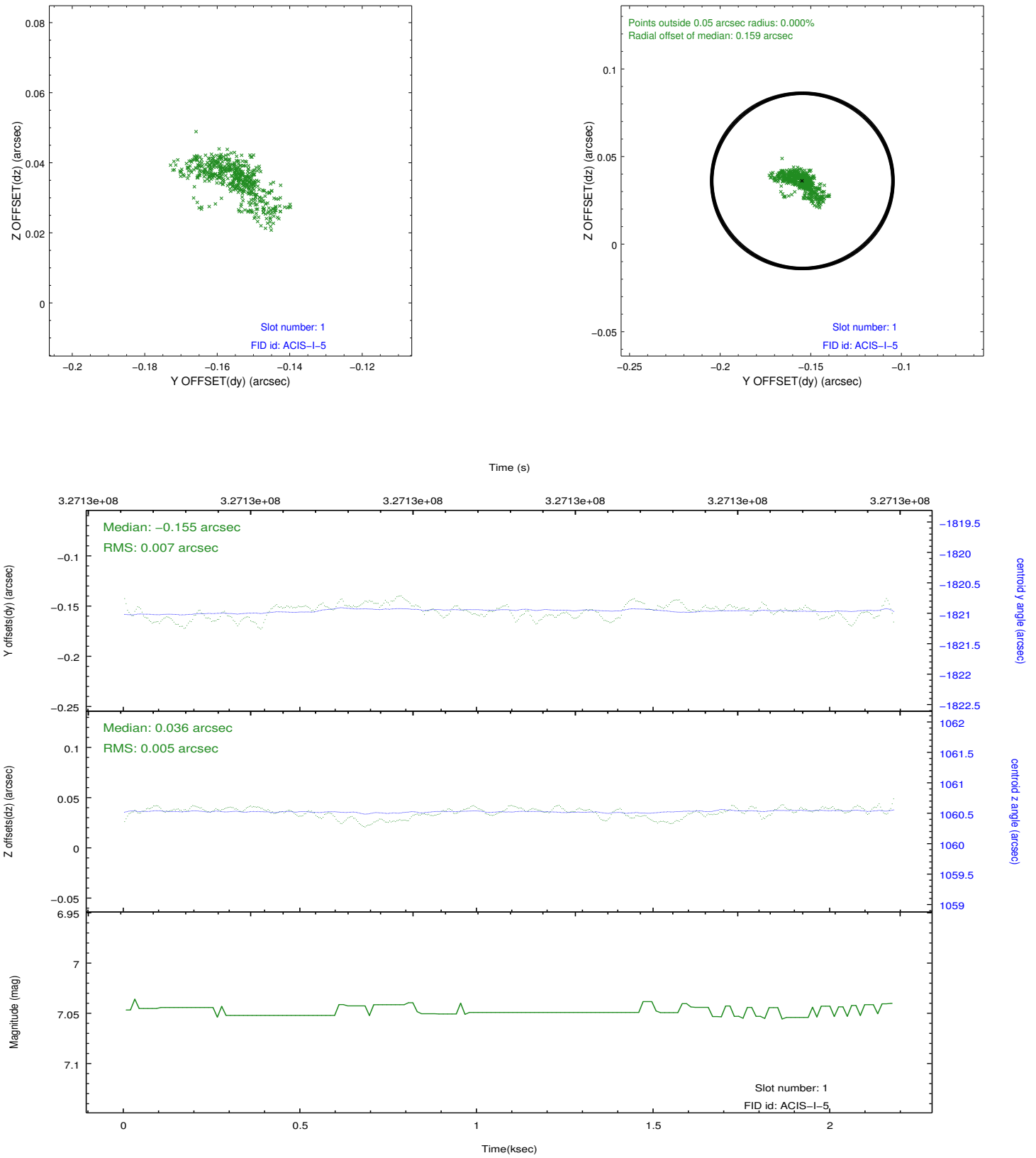


## 2.5 FID Slots

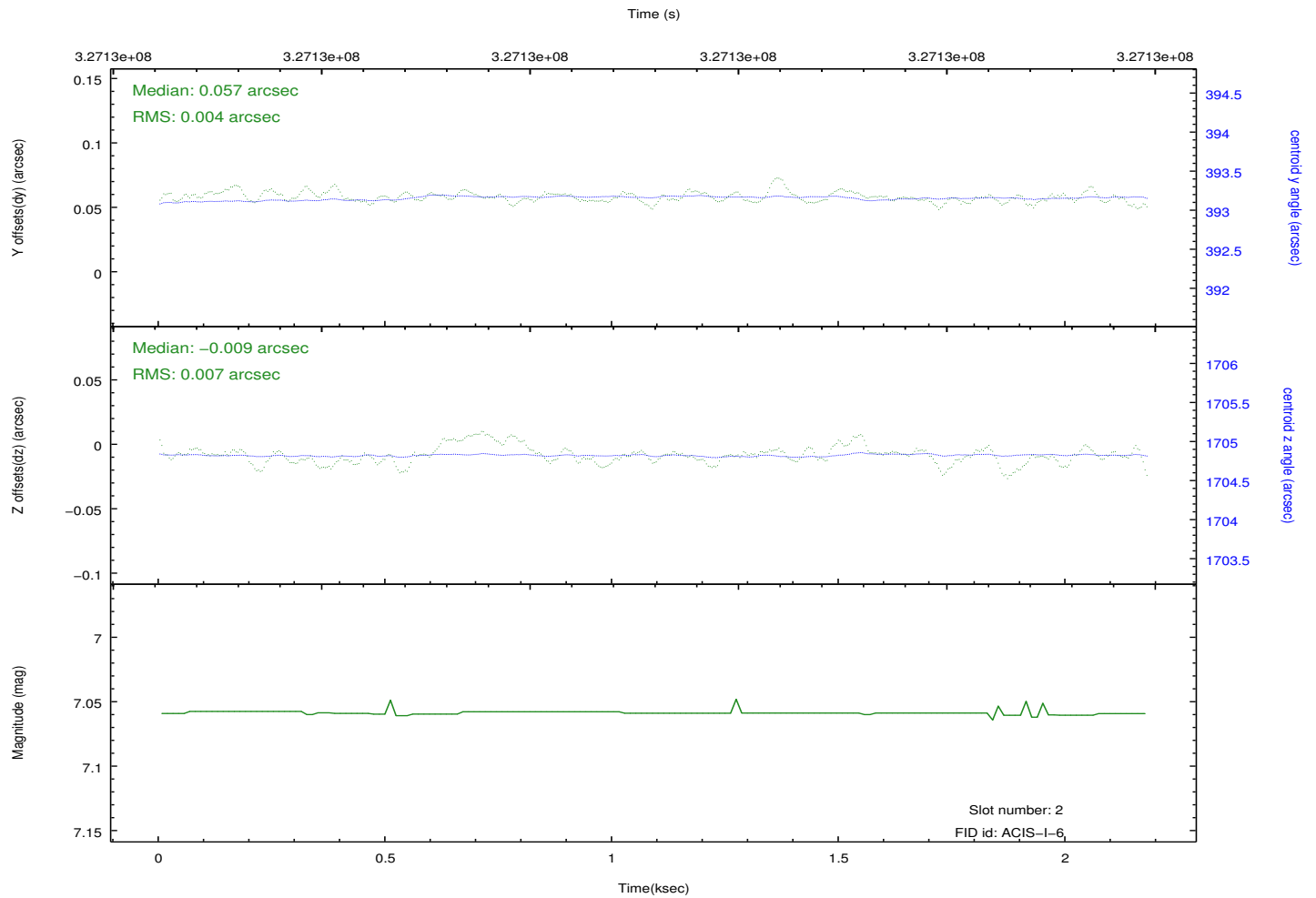
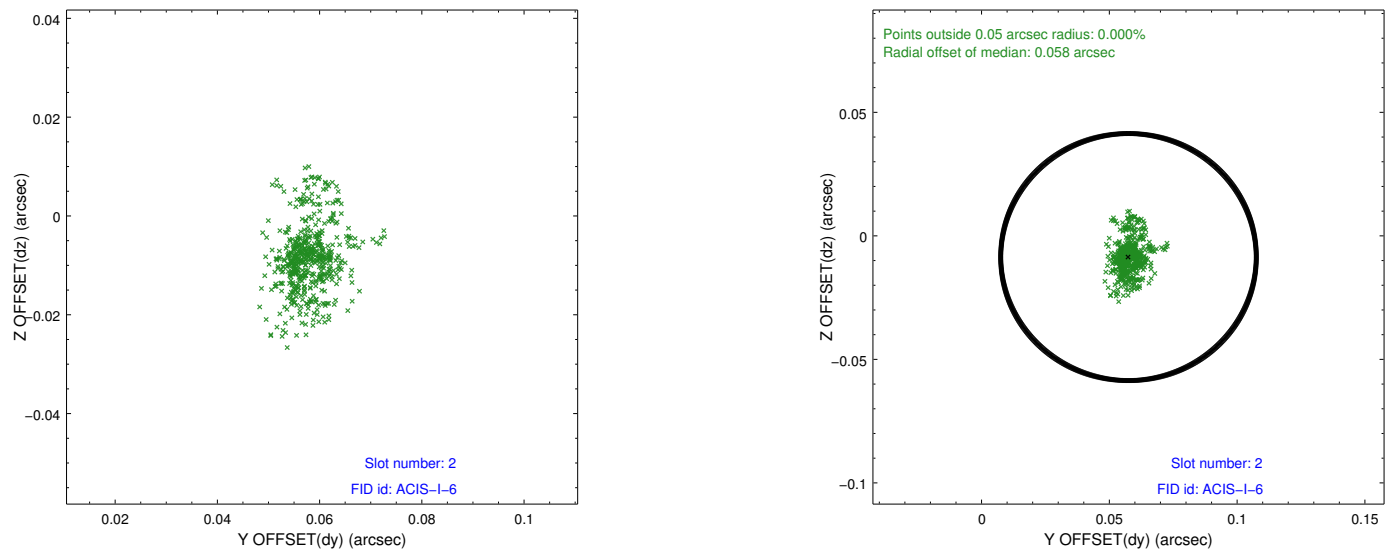
### 2.5.1 Slot 0



## 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)	2012.05.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18240001

## A.2 Comments

Joint proposal with NOAO.