

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8722 - L2 Version 2  
Chandra X-Ray Center

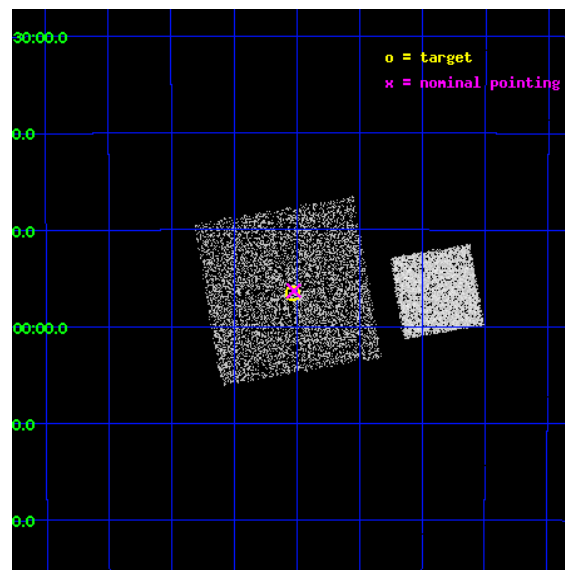
L2 Processing Date : May 14 2012

## 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

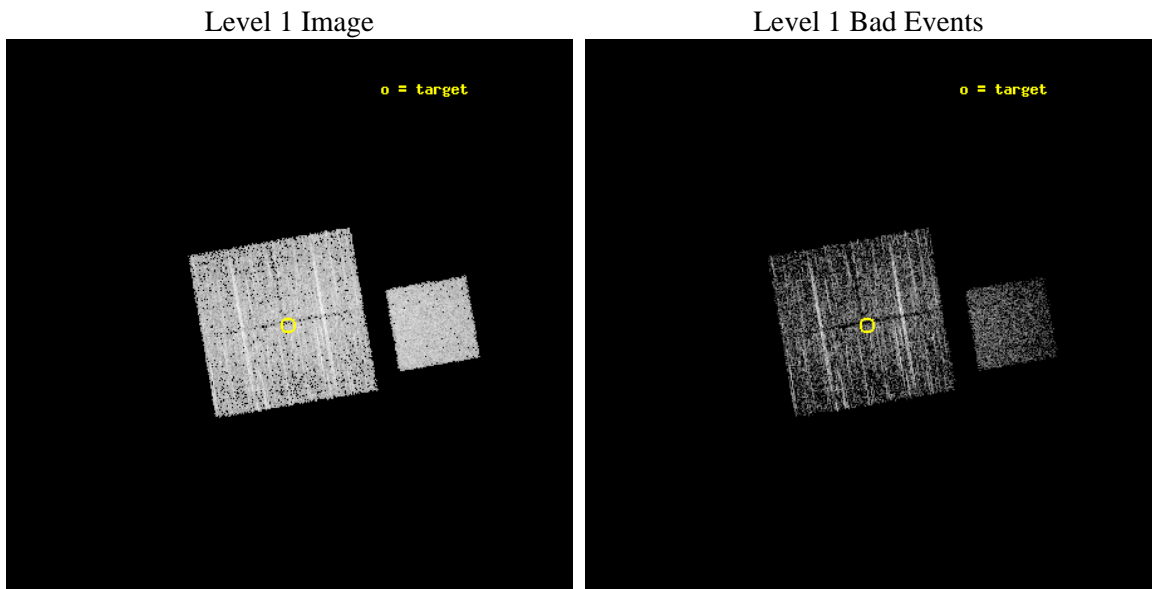
seq_num	400773	Sequence number
obs_id	8722	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	268.133027	Observer's specified target RA [deg]
dec_targ	-28.943108	Observer's specified target Dec [deg]
ra_nom	268.13111033912	Nominal RA [deg]
dec_nom	-28.938514155362	Nominal Dec [deg]
roll_nom	80.207771985449	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	2188.6000168324	Sum of GTIs [s]
ontime3	2188.6000168324	Sum of GTIs [s]
ontime7	2188.6000168324	Sum of GTIs [s]
l2events	17244	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	2188.6000168324	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2188.6000168324	Sum of GTIs [s]
date	2012-05-14T20:45:42	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	2188.6000168324	Sum of GTIs [s]
			ontime7	2188.6000168324	Sum of GTIs [s]
			l1events	105167	Number of level 1 events

### 2.1.4 Events

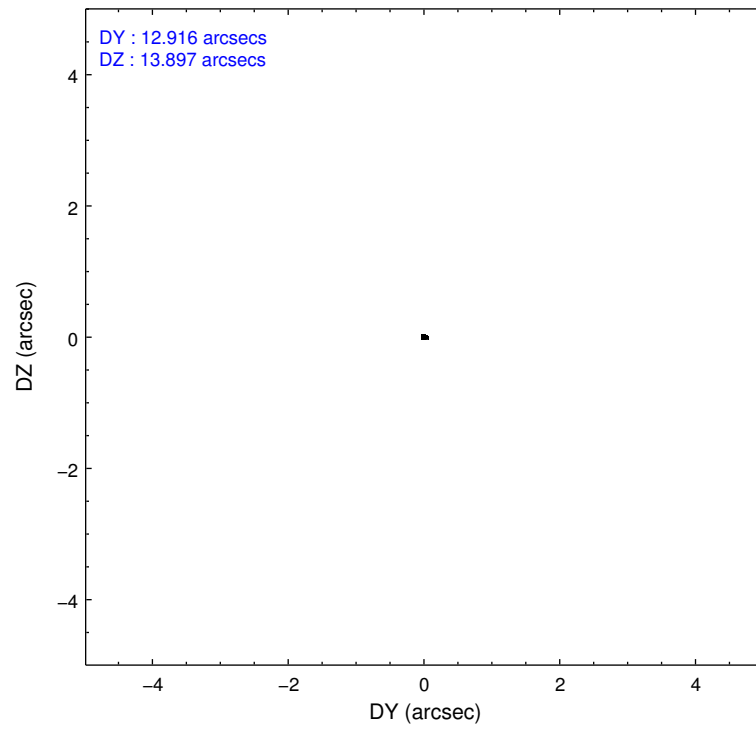
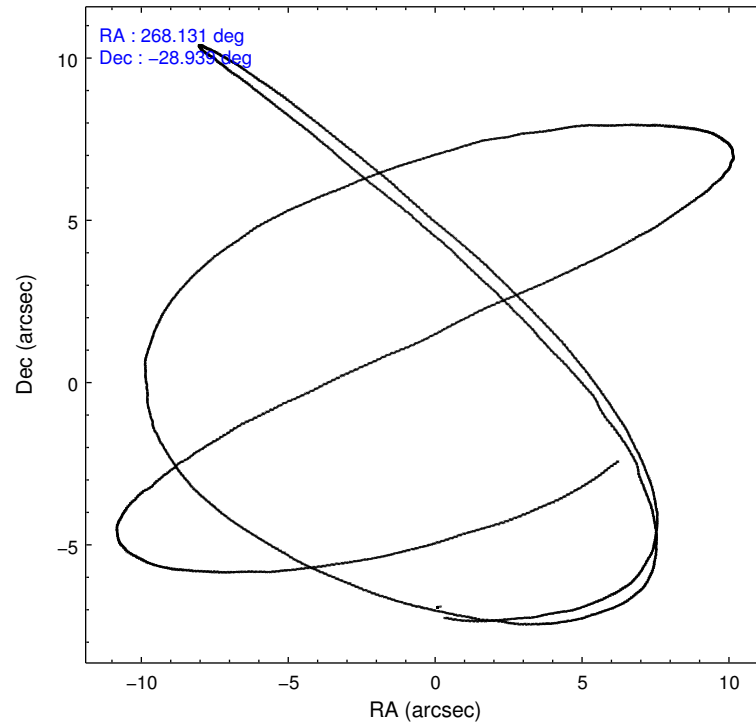
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	18713	20038	22100	21289	23027
rejected events	16427	17560	19654	18965	13640
rejected %	87%	87%	88%	89%	59%

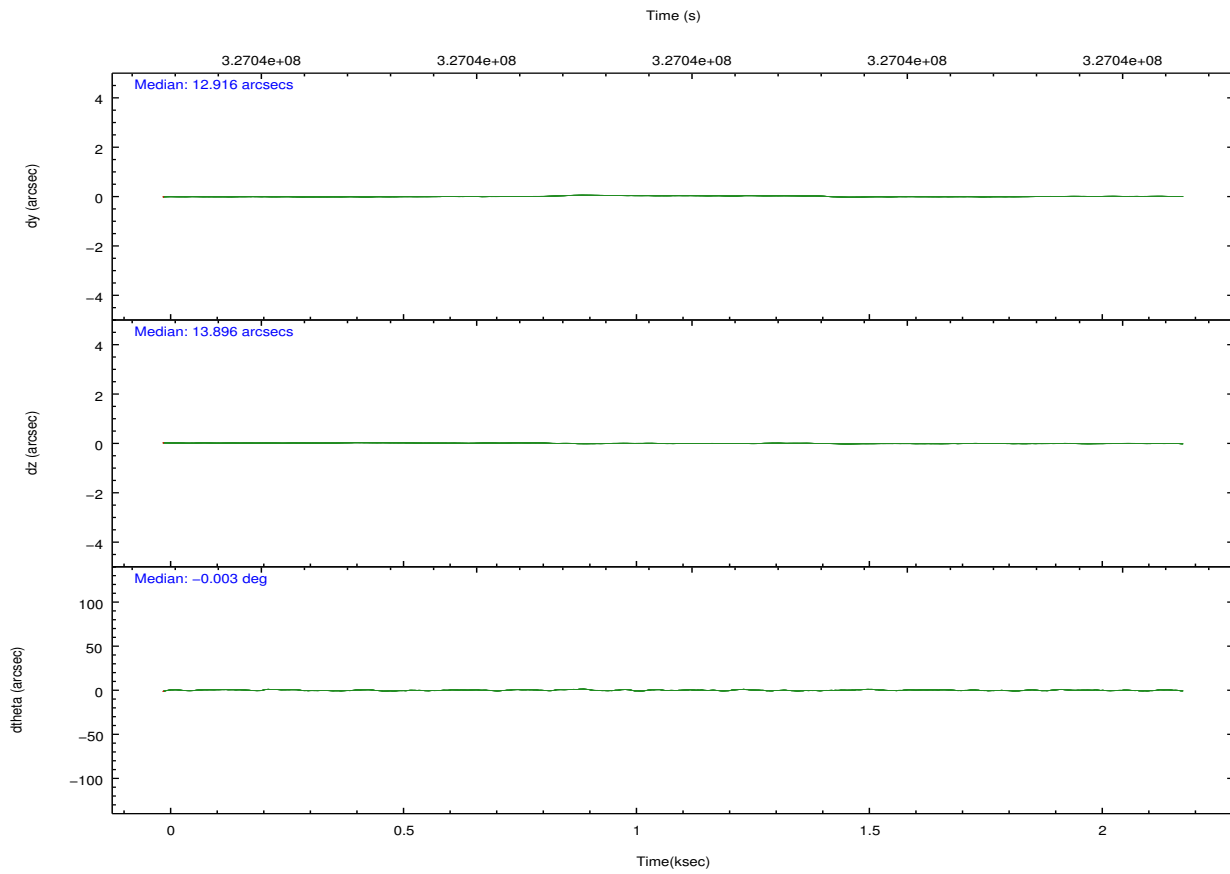
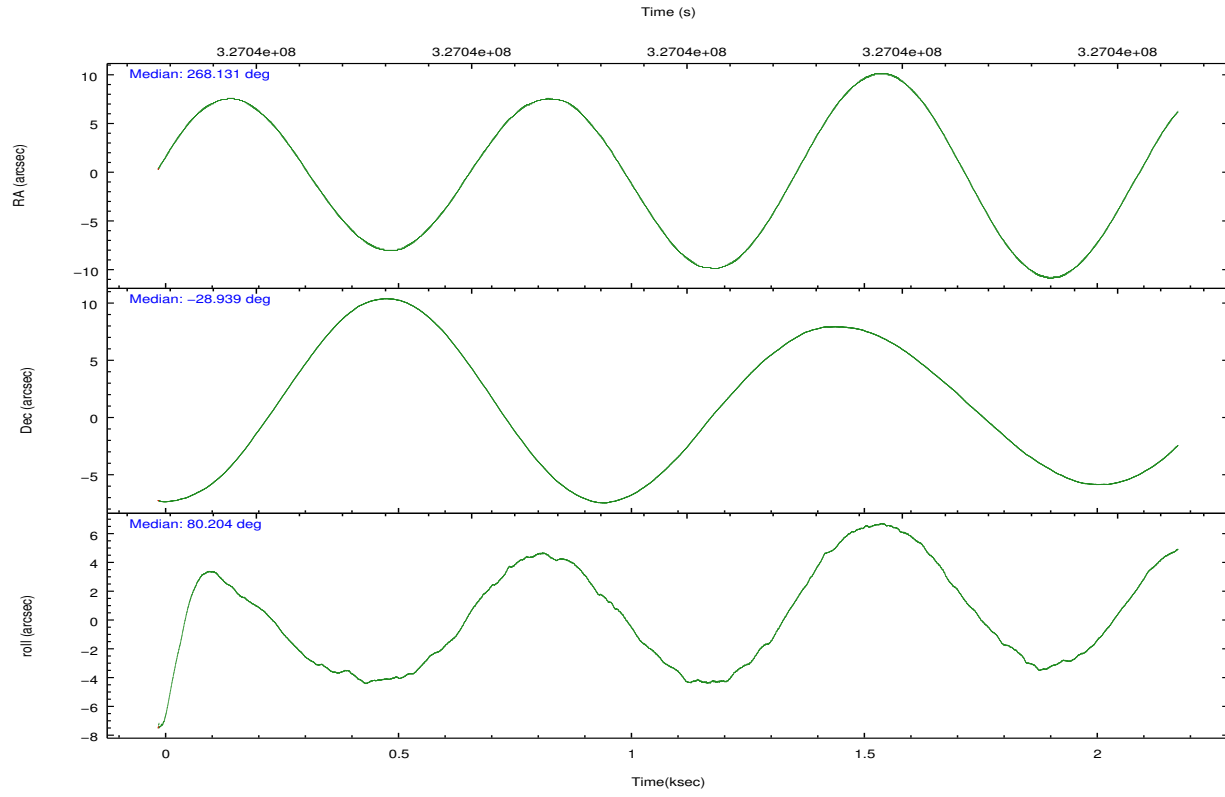
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1168	1301	1383	1204	1196
	6%	6%	6%	5%	5%
grade 1 events	16	11	20	17	20
	0%	0%	0%	0%	0%
grade 2 events	538	543	572	525	2182
	2%	2%	2%	2%	9%
grade 3 events	241	241	225	254	1049
	1%	1%	1%	1%	4%
grade 4 events	212	268	244	221	981
	1%	1%	1%	1%	4%
grade 5 events	679	751	708	832	2333
	3%	3%	3%	3%	10%
grade 6 events	439	489	387	460	5485
	2%	2%	1%	2%	23%
grade 7 events	15420	16434	18561	17776	9781
	82%	82%	83%	83%	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	268.142135	268.1311103391176	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.964140	-28.93851415536197	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004405	80.20777198544923	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)	327038542.184000	327038165.83699	CCD S5 on	N	N
Observation start date	2008-05-13T04:01:17	2008-05-13T03:56:05	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327040542.184000	327040676.06211	On-chip summing requested	N	N
Observation end date	2008-05-13T04:34:37	2008-05-13T04:37:56	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





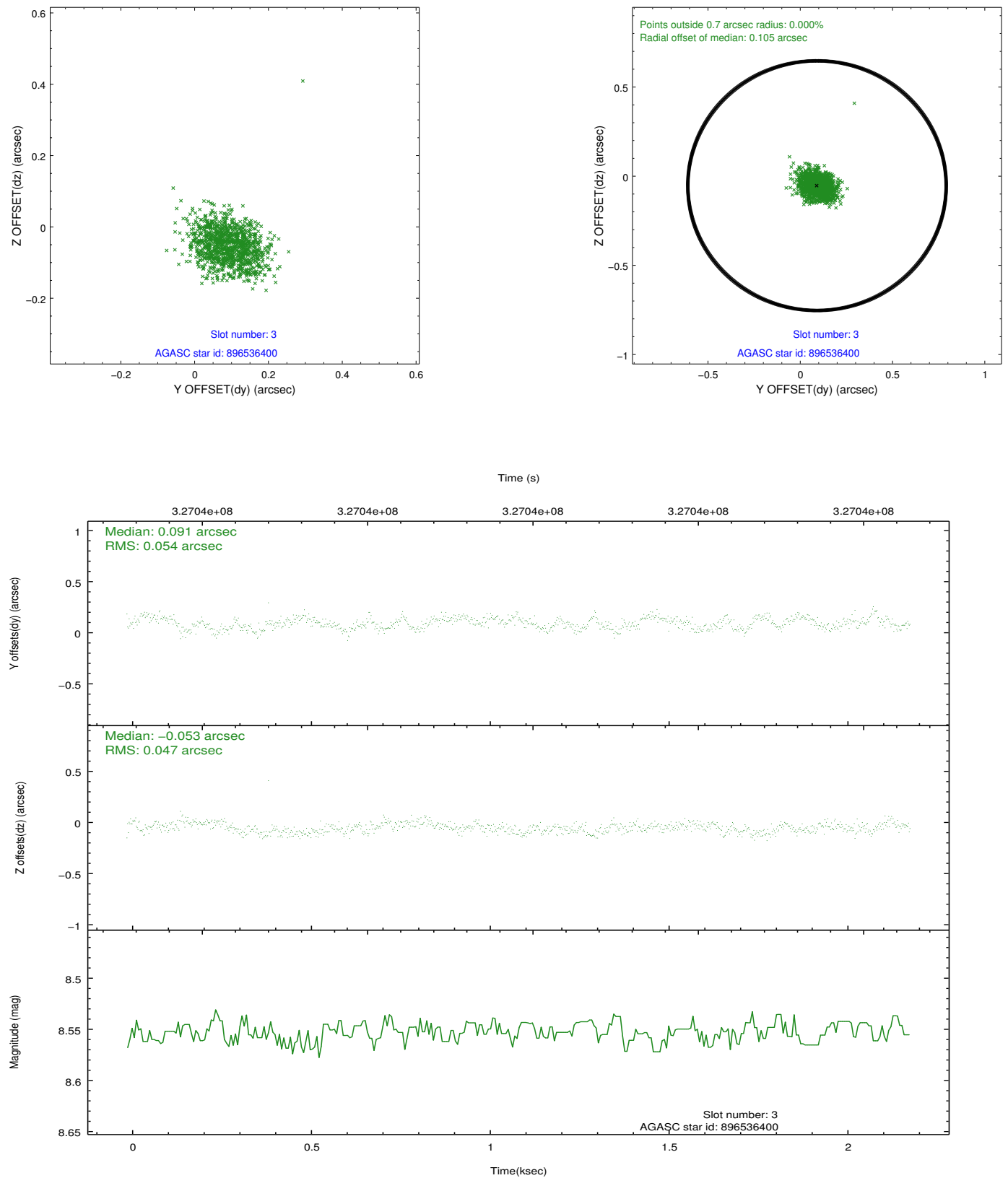
### Slot Statistics

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	535	0.016	0.032	0.007	0.012	0.000000	0.000000	926.62	-837.43
1	FID	ACIS-I-5	7.01	535	-0.184	0.035	0.007	0.011	0.000000	0.000000	-1820.06	1058.55
2	FID	ACIS-I-6	7.02	535	0.077	0.003	0.007	0.012	0.000000	0.000000	388.97	1706.41
3	GUIDE	896536400	8.55	1069	0.091	-0.053	0.076	0.116	267.359146	-29.438655	-2116.15	2119.61
4	GUIDE	896540528	8.27	1069	0.125	-0.069	0.071	0.124	267.368305	-29.314773	-1674.28	2173.26
5	GUIDE	896542048	9.20	1068	0.312	0.062	0.105	0.159	267.742937	-29.132026	-816.11	1133.14
6	GUIDE	896543712	8.22	1069	-0.452	-0.100	0.058	0.093	267.764551	-28.659720	869.50	1365.68
7	GUIDE	898238128	7.71	1068	-0.079	0.161	0.067	0.108	268.450740	-28.688500	1146.37	-786.19

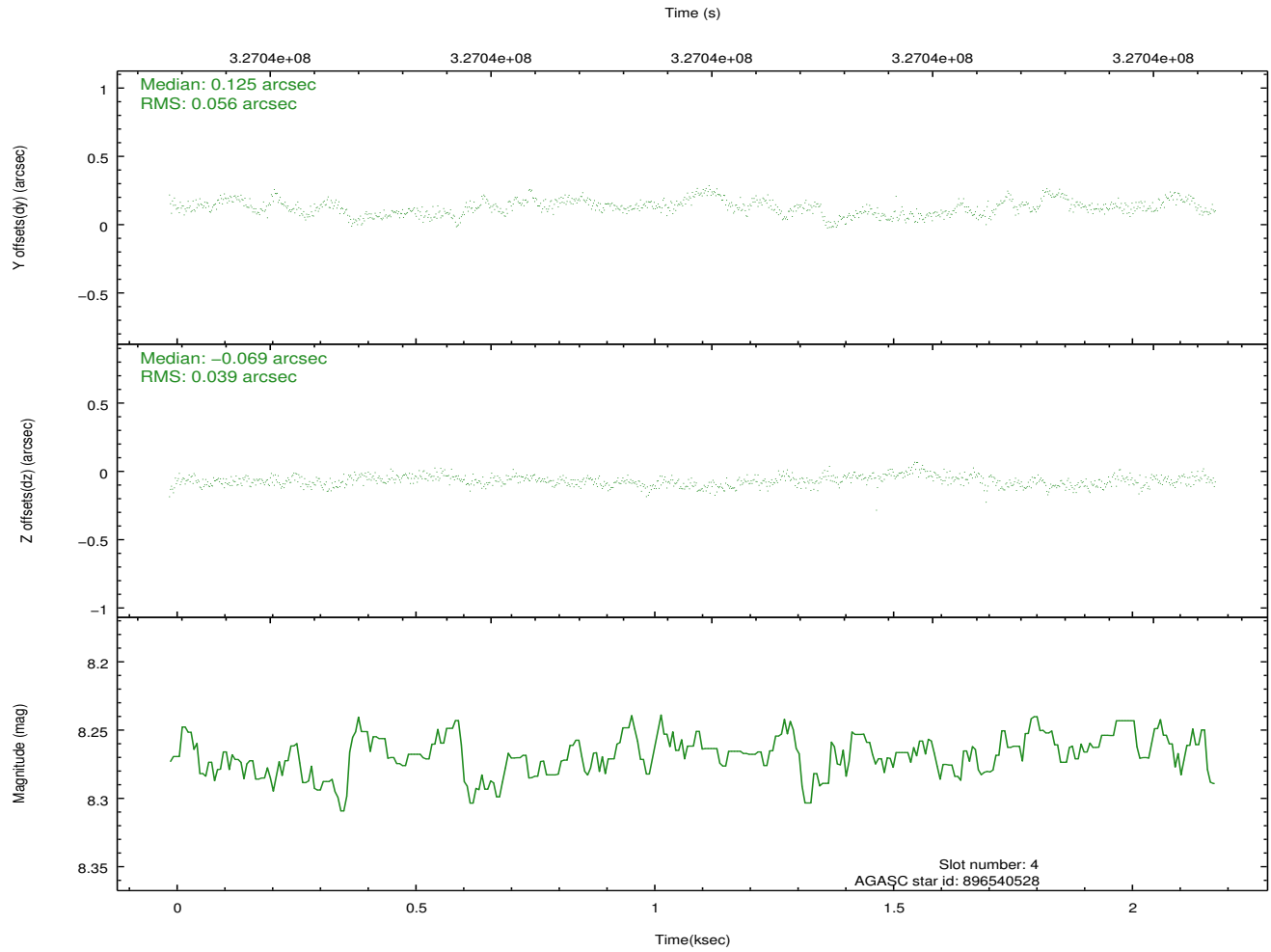
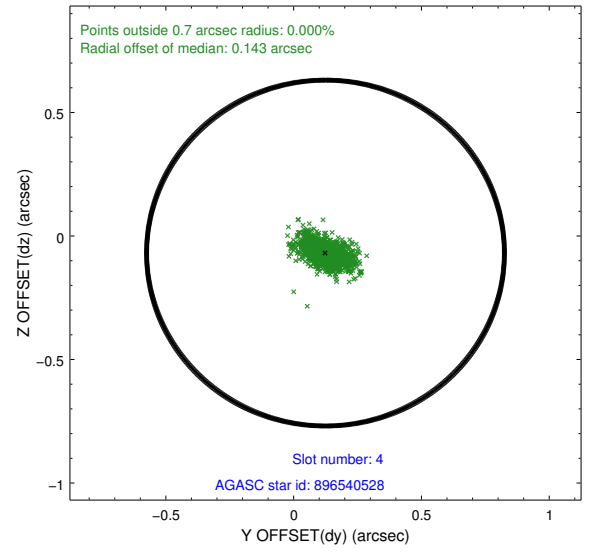
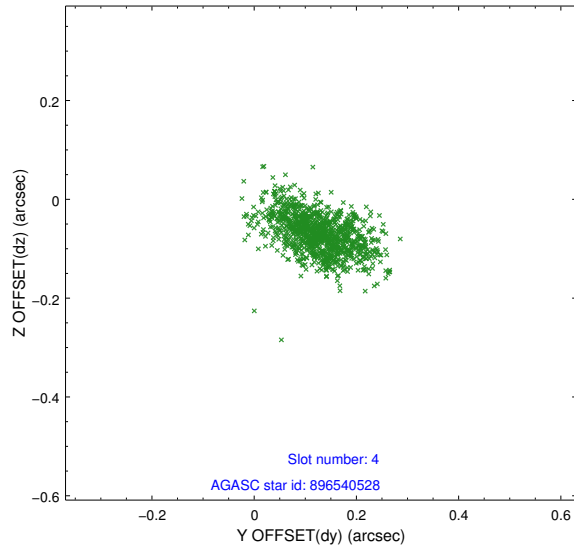


## 2.4 Star Slots

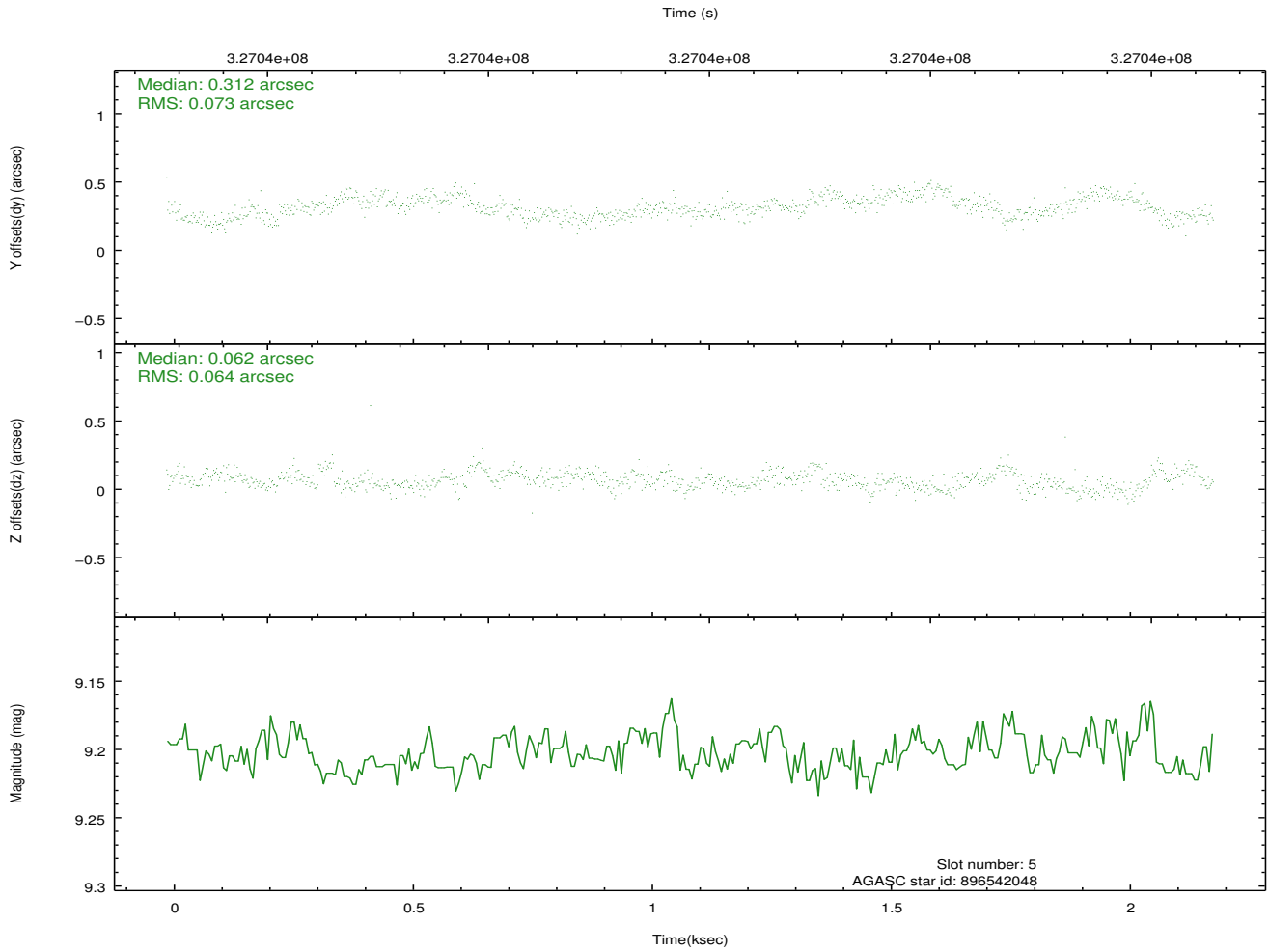
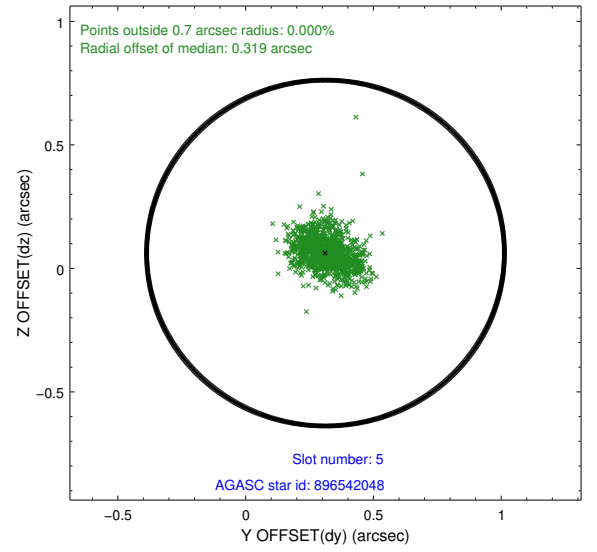
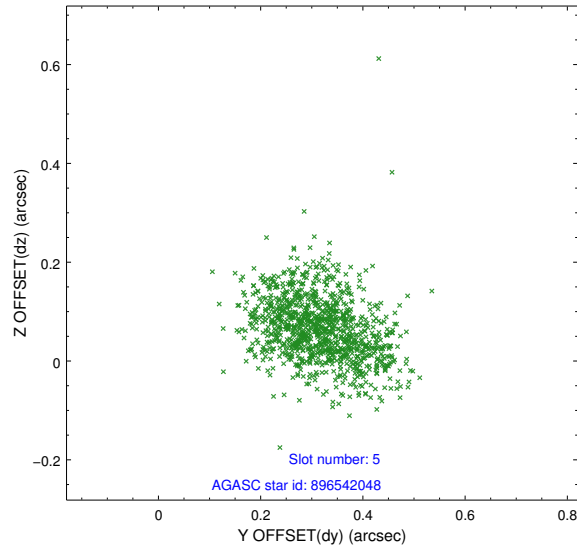
### 2.4.1 Slot 3



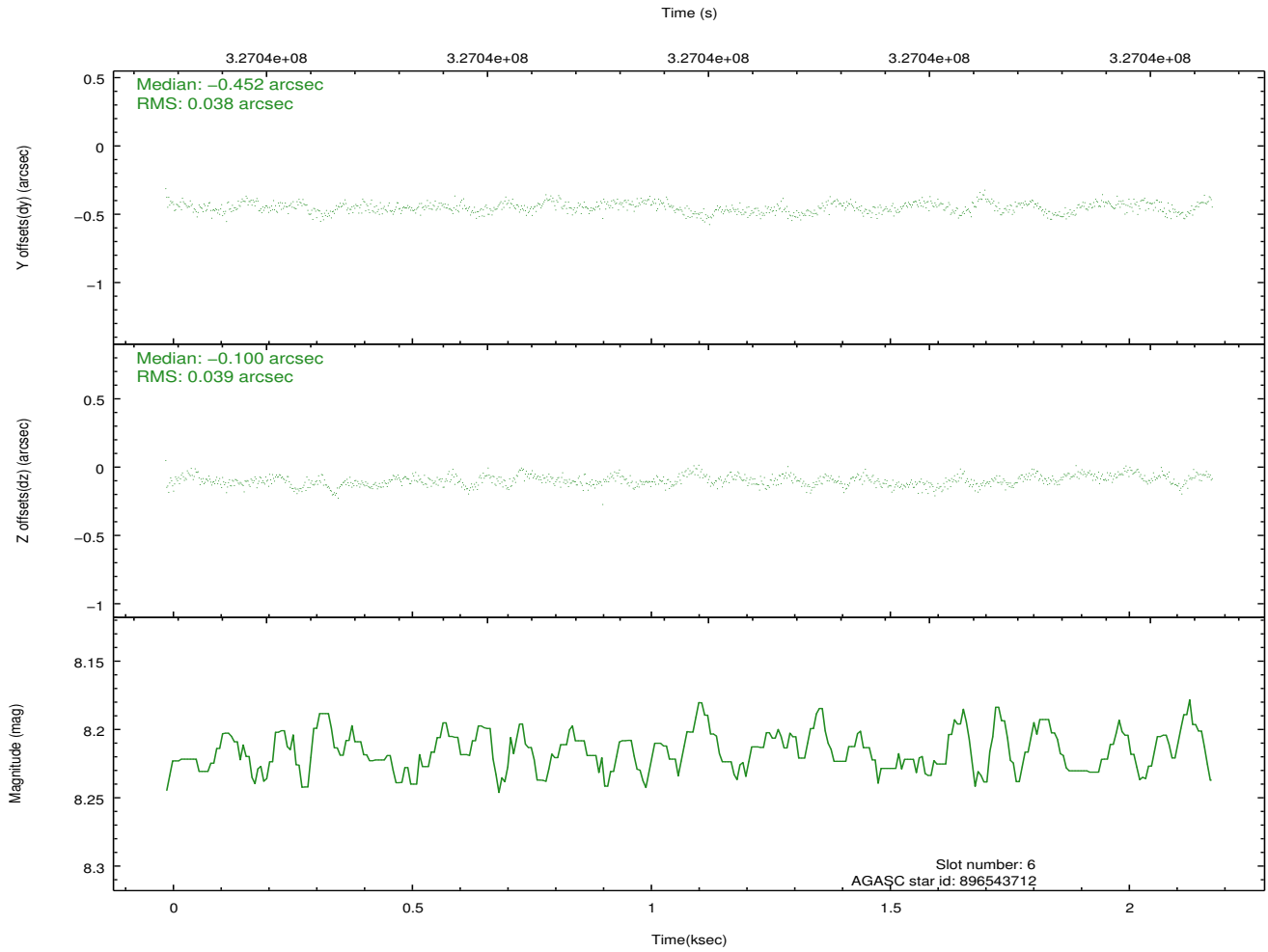
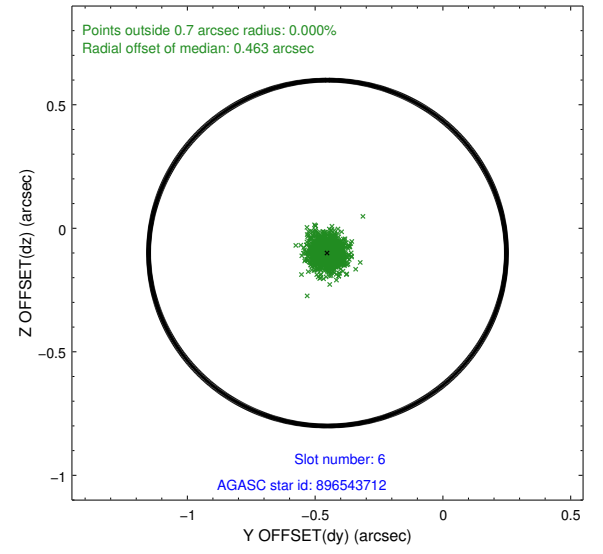
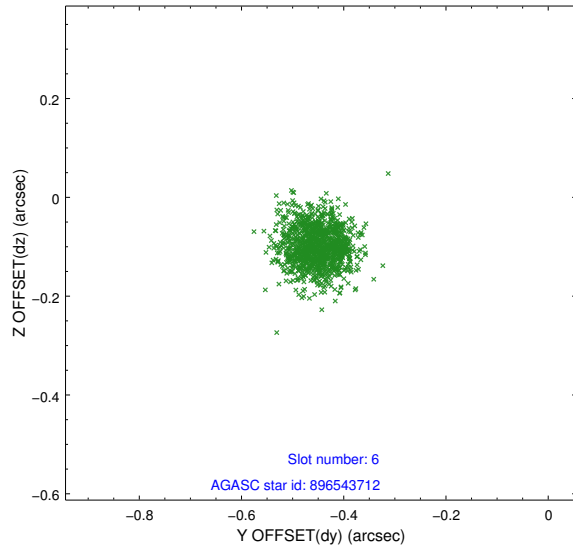
## 2.4.2 Slot 4



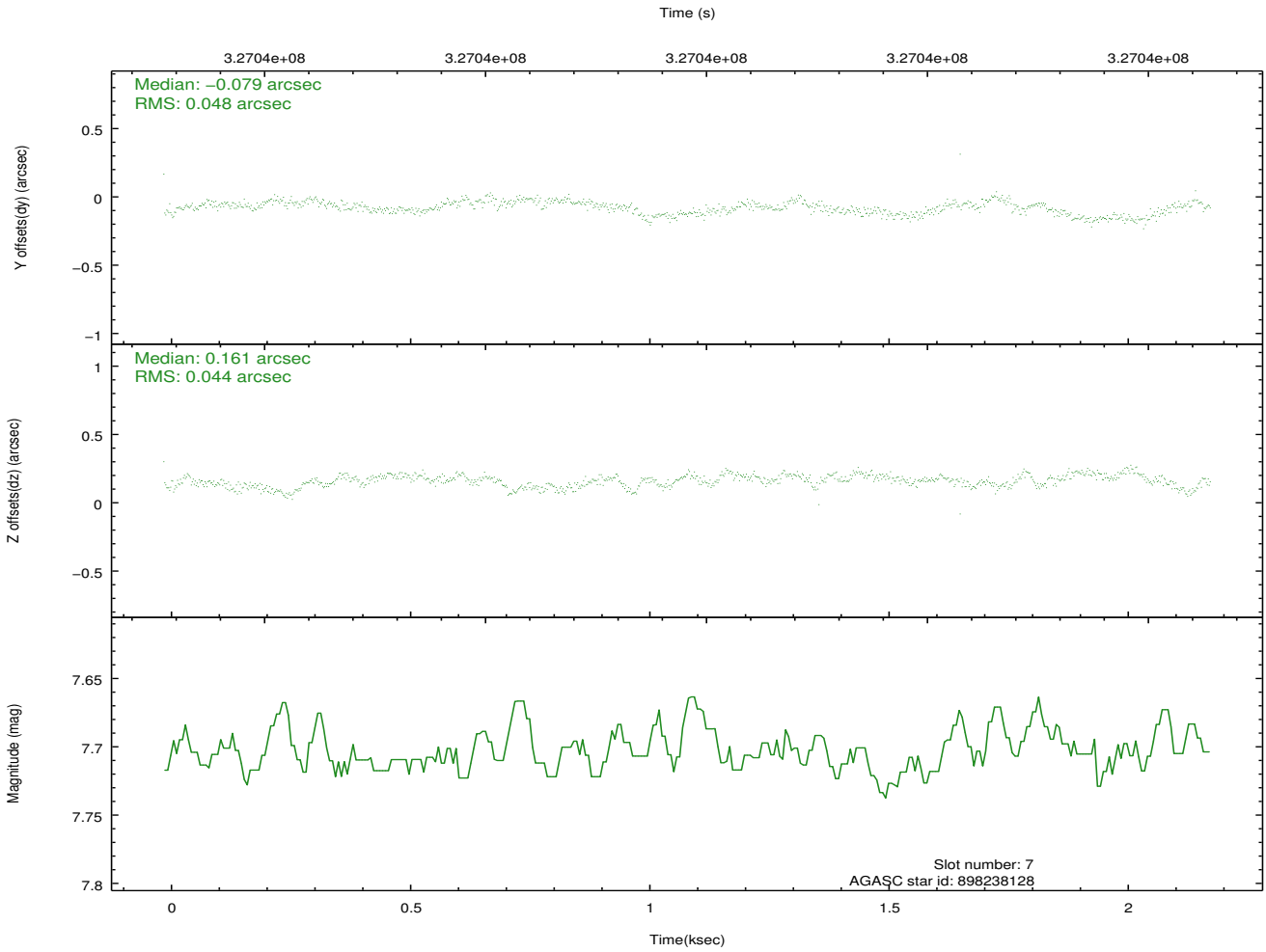
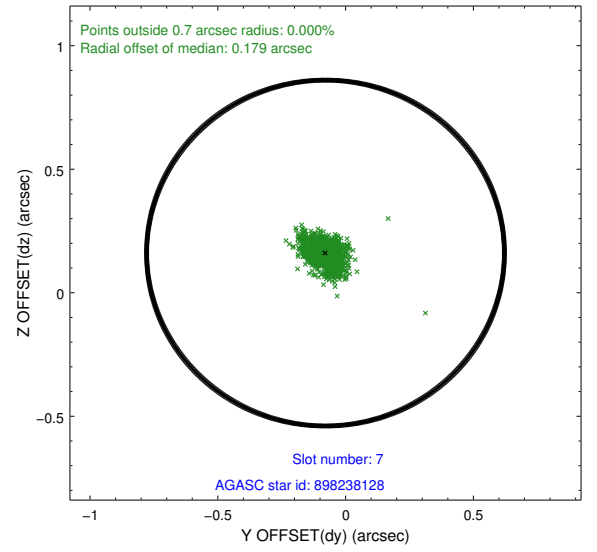
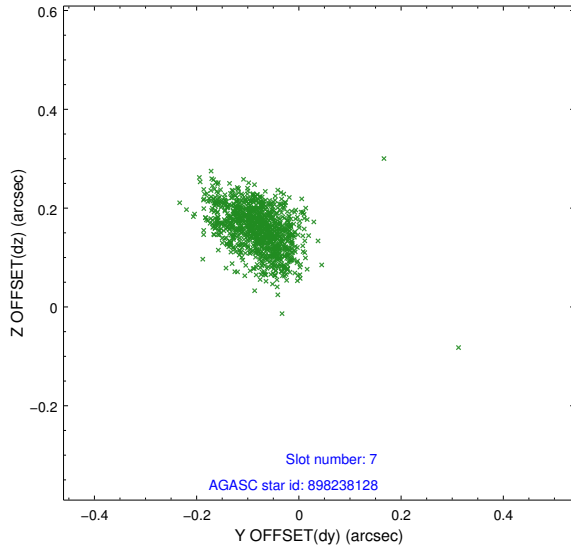
### 2.4.3 Slot 5



## 2.4.4 Slot 6

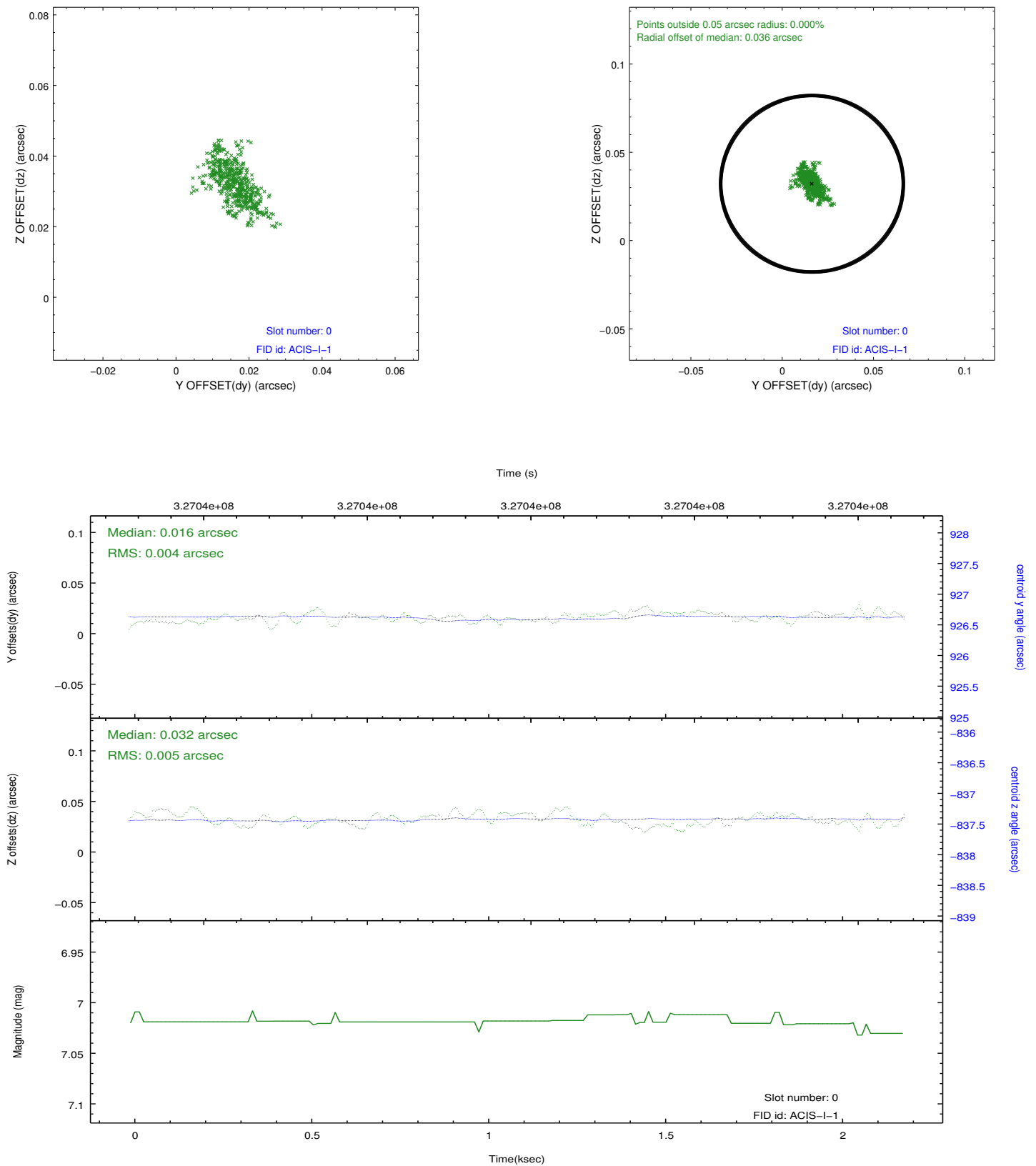


## 2.4.5 Slot 7

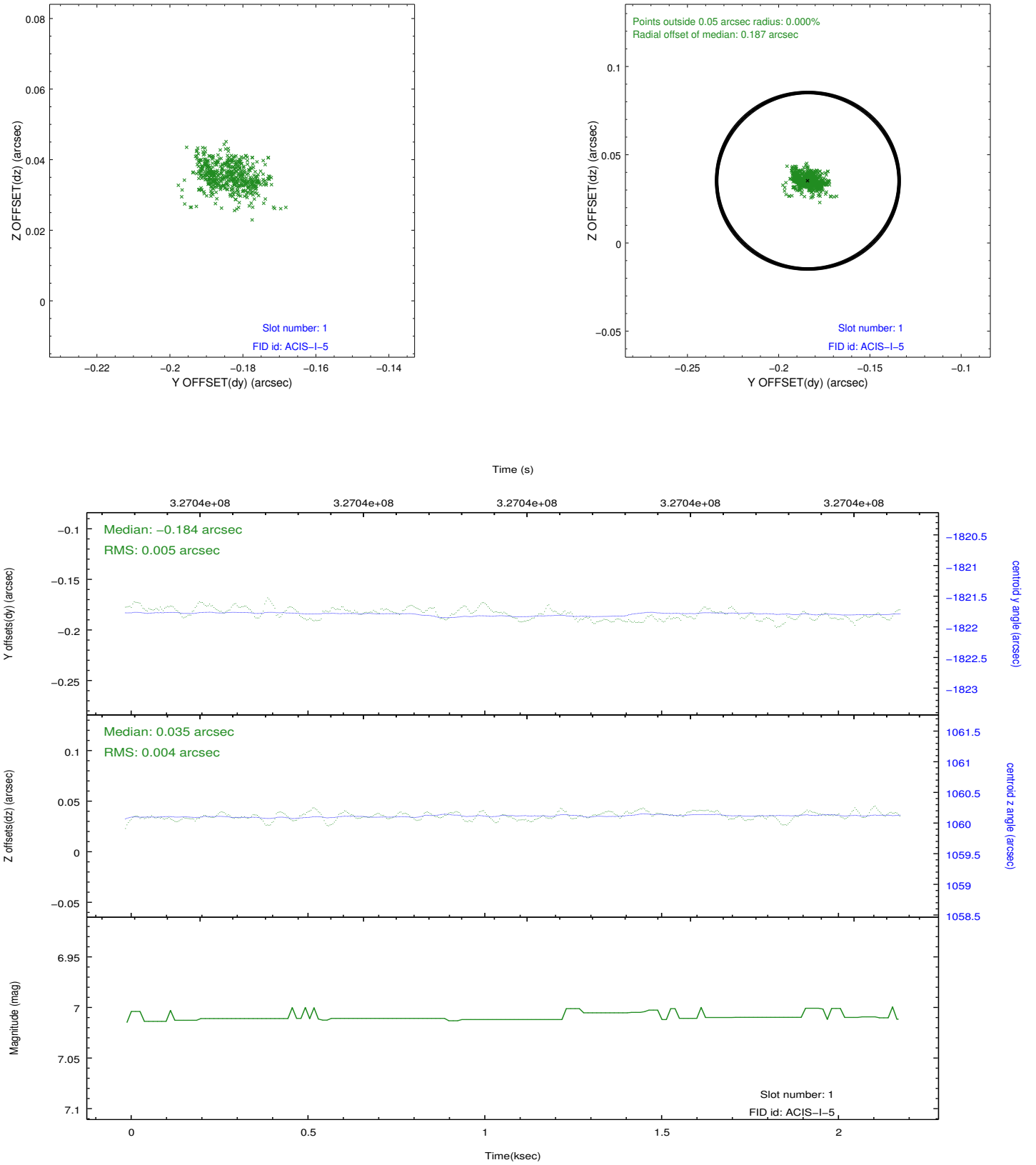


## 2.5 FID Slots

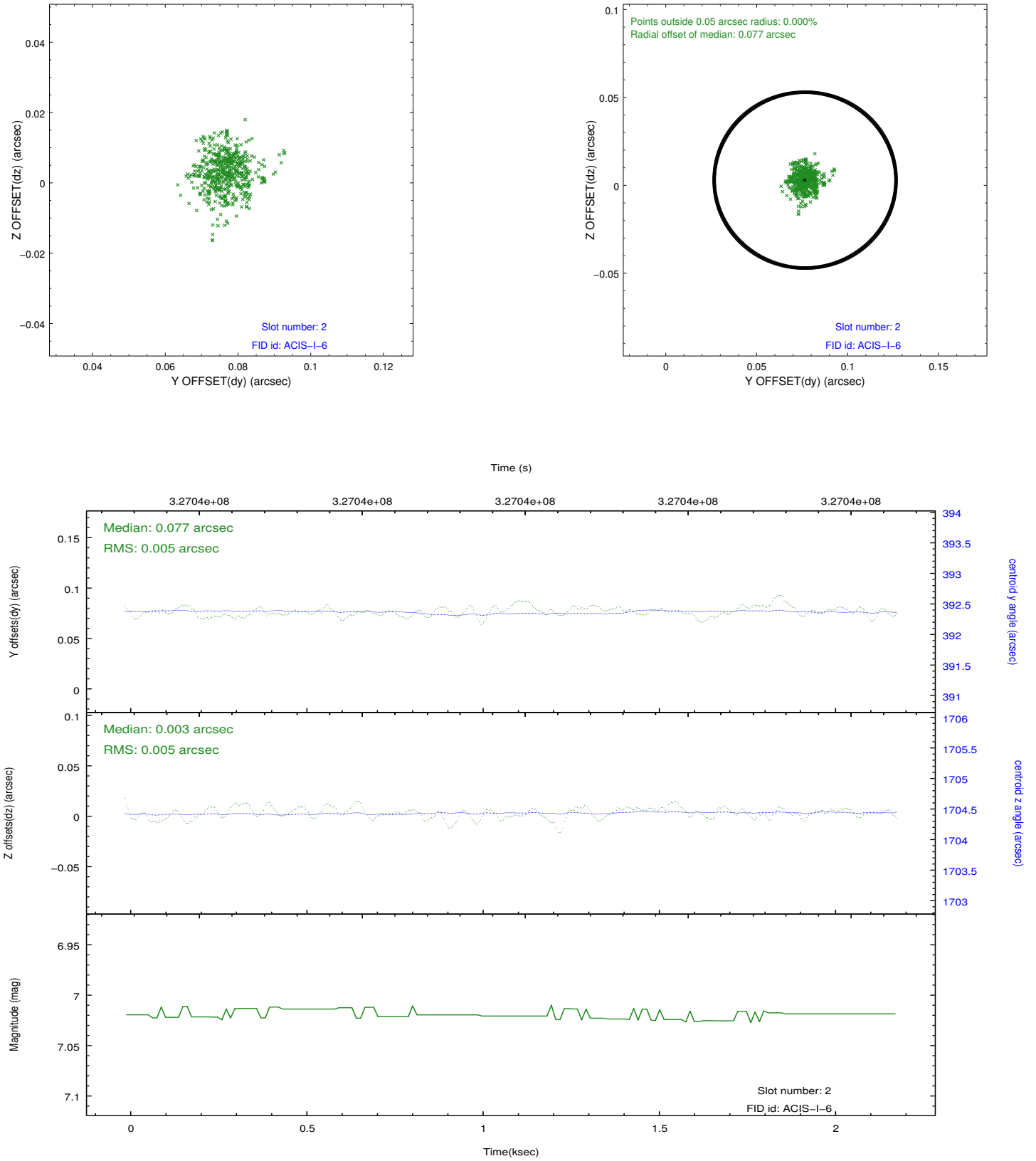
### 2.5.1 Slot 0



## 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	2.18860001

## A.2 Comments

Joint proposal with NOAO.