

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13553 - L2 Version 2  
Chandra X-Ray Center

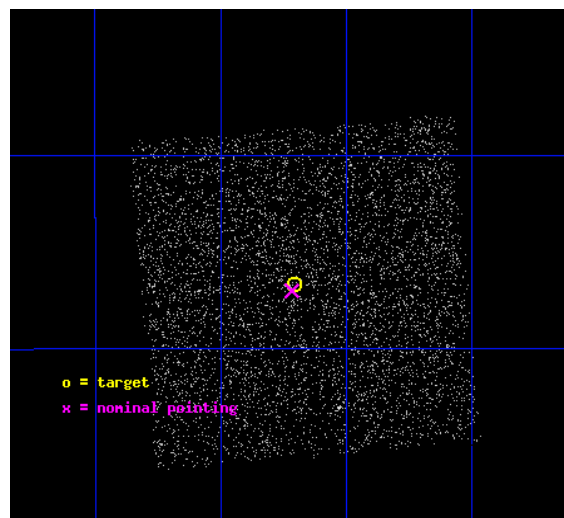
L2 Processing Date : Feb 25 2012

## 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

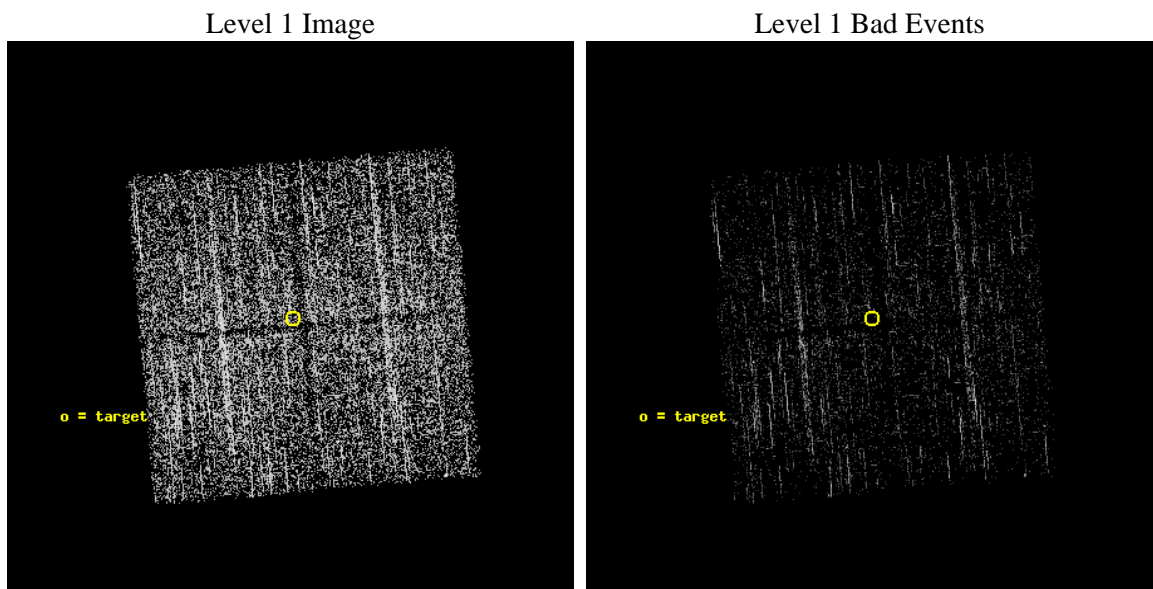
seq_num	401329	Sequence number
obs_id	13553	Observation id
title	Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr P Jonker	Principal investigator
object	GBS13-3	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	268.926907	Observer's specified target RA [deg]
dec_targ	-28.944515	Observer's specified target Dec [deg]
ra_nom	268.92913654504	Nominal RA [deg]
dec_nom	-28.950153619322	Nominal Dec [deg]
roll_nom	265.06495471004	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1971.6000151634	Sum of GTIs [s]
livetime	1945.8396094945	Livetime [s]
ontime0	1971.6000151634	Sum of GTIs [s]
ontime1	1971.6000151634	Sum of GTIs [s]
ontime2	1971.6000151634	Sum of GTIs [s]
ontime3	1971.6000151634	Sum of GTIs [s]
l2events	5863	Number of level 2 events



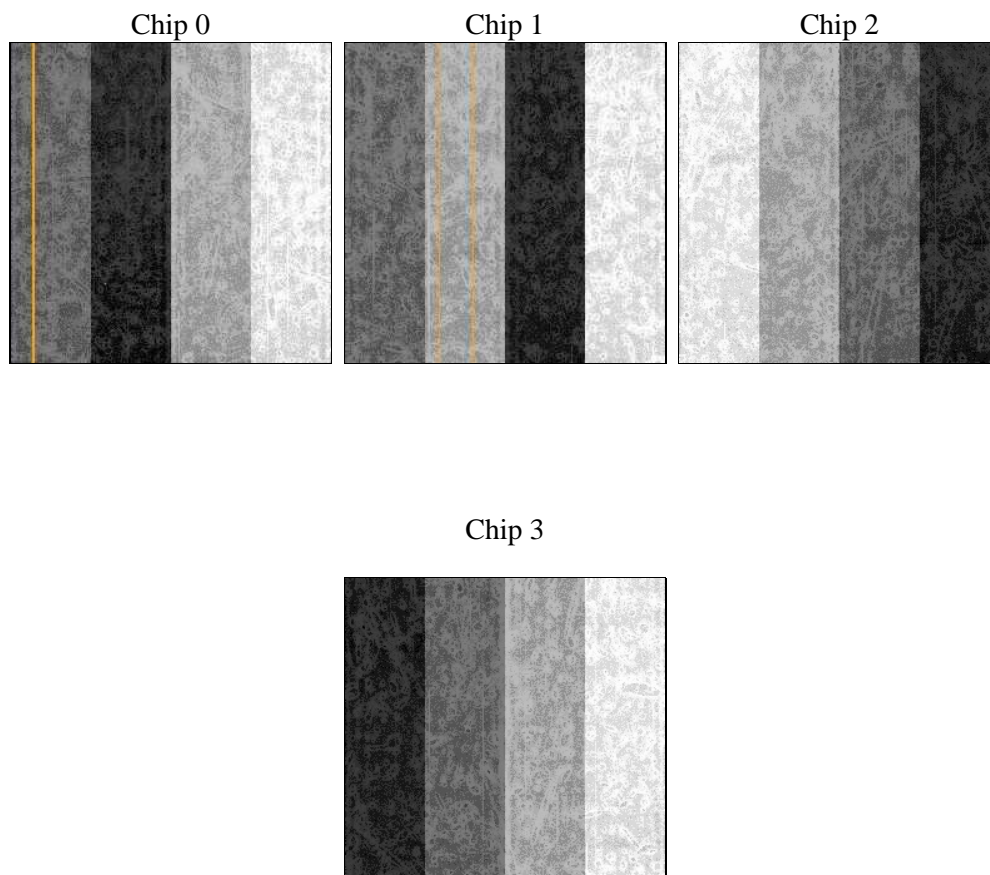
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	1971.6000151634	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	1971.6000151634	Sum of GTIs [s]
date	2012-02-26T01:29:50	Date and time of file creation	ontime1	1971.6000151634	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1971.6000151634	Sum of GTIs [s]
			ontime3	1971.6000151634	Sum of GTIs [s]
			l1events	47576	Number of level 1 events

### 2.1.4 Events

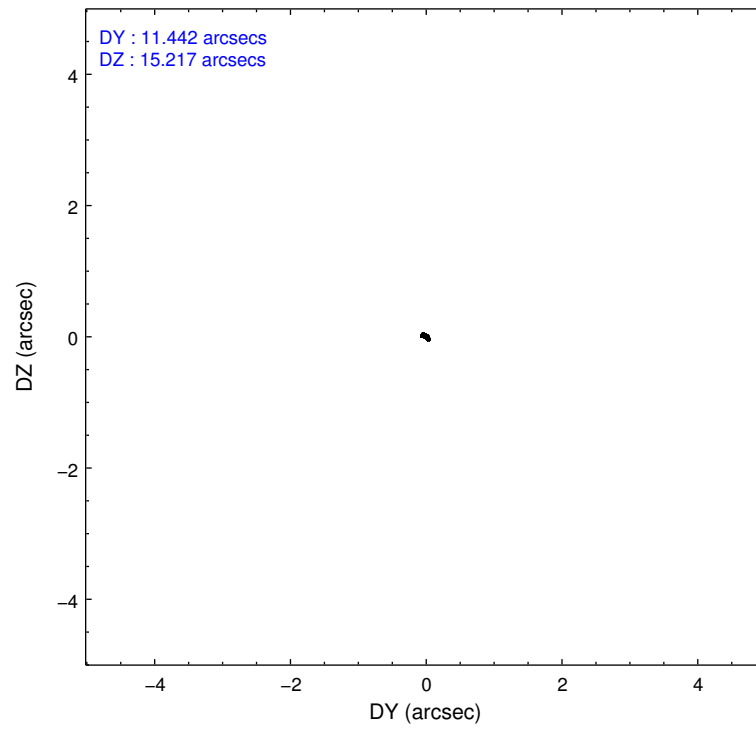
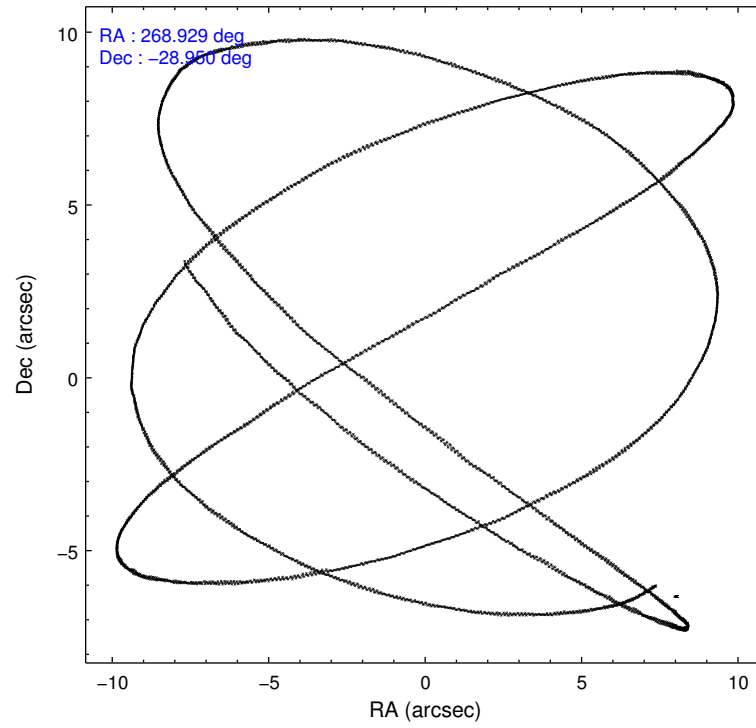
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	11241	11575	13392	11368
rejected events	9556	9767	11750	9707
rejected %	85%	84%	87%	85%

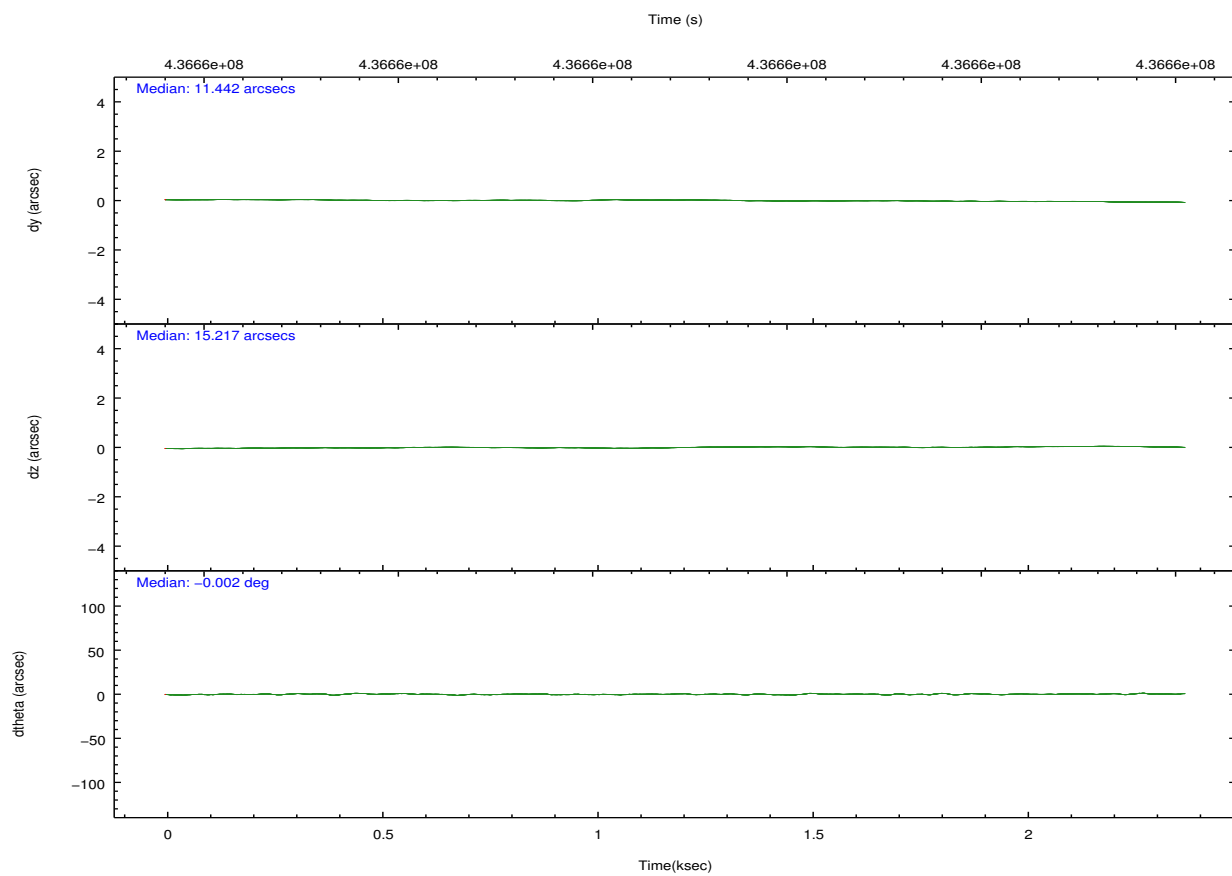
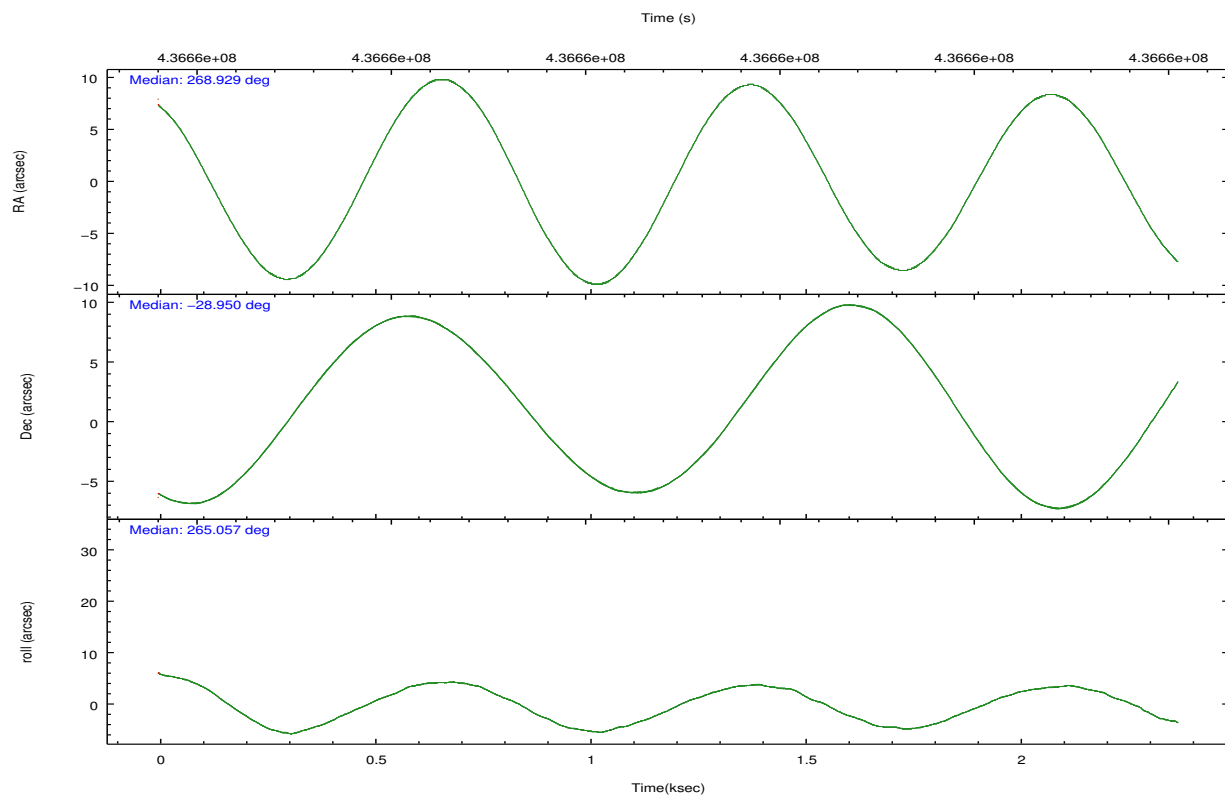
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	784	818	743	794
	6%	7%	5%	6%
grade 1 events	9	10	8	9
	0%	0%	0%	0%
grade 2 events	332	390	369	282
	2%	3%	2%	2%
grade 3 events	139	150	150	159
	1%	1%	1%	1%
grade 4 events	141	130	134	151
	1%	1%	1%	1%
grade 5 events	561	571	524	575
	4%	4%	3%	5%
grade 6 events	296	324	249	281
	2%	2%	1%	2%
grade 7 events	8979	9182	11215	9117
	79%	79%	83%	80%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	268.915713	268.9291365450446	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.925061	-28.95015361932154	Alternating exposures requested	N	N
[deg] Pointing Roll	264.849791	265.0649547100398	[s] Primary exposure time	0.000000	3.1
[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)	436662712.184000	436662336.21434			
Observation start date	2011-11-02T23:10:46	2011-11-02T23:05:36			
[s] Observation end time (MET)	436664892.184000	436665026.83949			
Observation end date	2011-11-02T23:47:06	2011-11-02T23:50:26			
Read mode	TIMED	TIMED			

## 2.3 Aspect





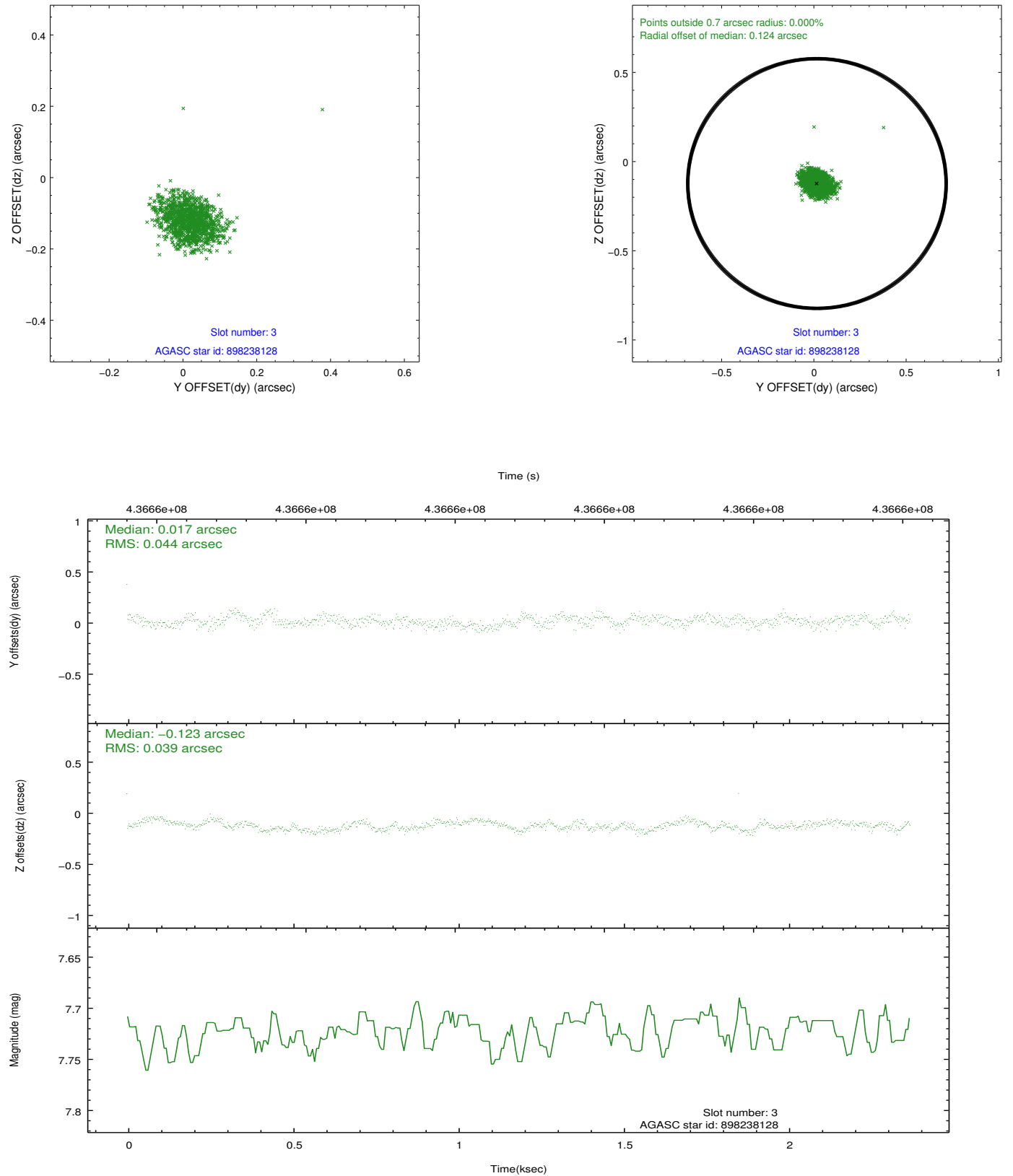
### Slot Statistics

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	579	0.046	-0.031	0.006	0.012	0.000000	0.000000	928.16	-838.85
1	FID	ACIS-I-5	7.02	579	-0.199	0.050	0.007	0.012	0.000000	0.000000	-1818.68	1057.34
2	FID	ACIS-I-6	7.03	579	0.062	0.052	0.007	0.013	0.000000	0.000000	390.75	1704.95
3	GUIDE	898238128	7.72	1157	0.017	-0.123	0.061	0.098	268.450740	-28.688500	-713.73	-1538.84
4	GUIDE	898247688	8.66	1157	-0.029	-0.163	0.093	0.152	268.426687	-29.012154	452.77	-1506.29
5	GUIDE	898258992	8.00	1157	-0.151	0.149	0.060	0.102	269.435214	-28.570389	-1415.99	1520.28
6	GUIDE	898267256	9.35	1153	0.013	0.001	0.119	0.186	269.153744	-29.049851	379.15	787.92
7	GUIDE	898271176	8.47	1155	0.146	0.146	0.084	0.128	269.530159	-29.583143	2191.64	2130.32

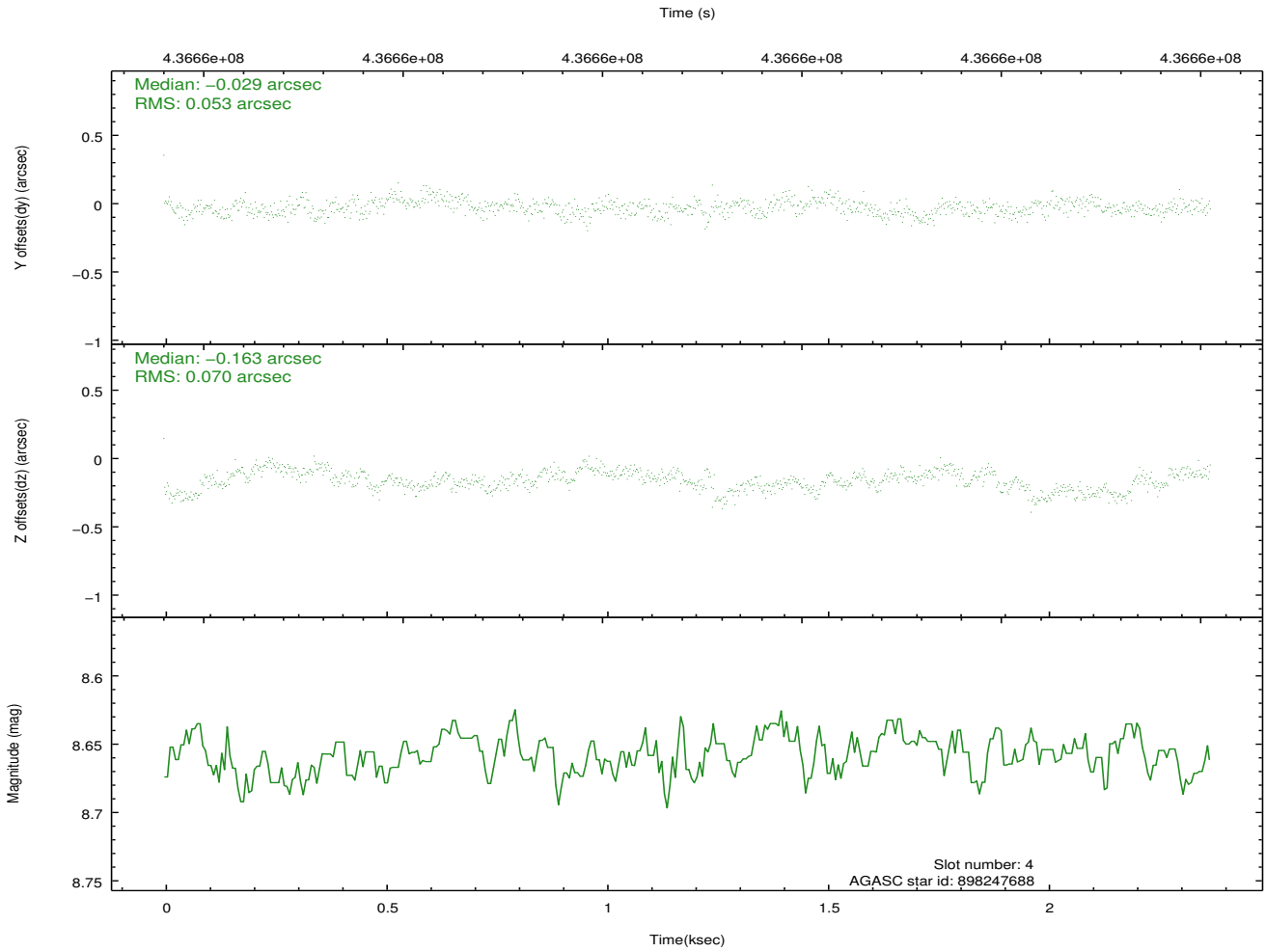
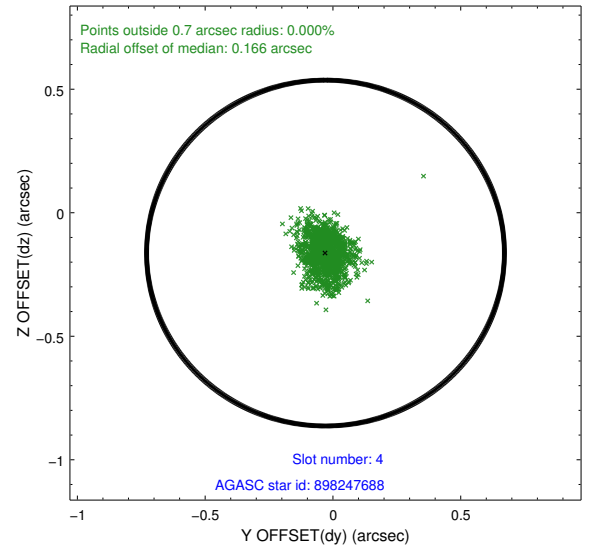
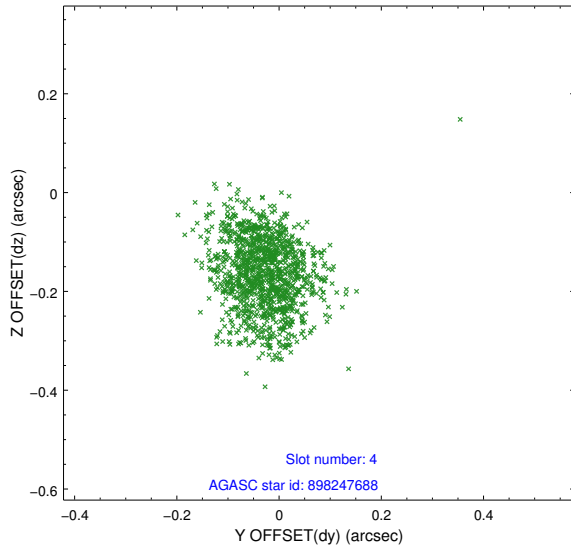


## 2.4 Star Slots

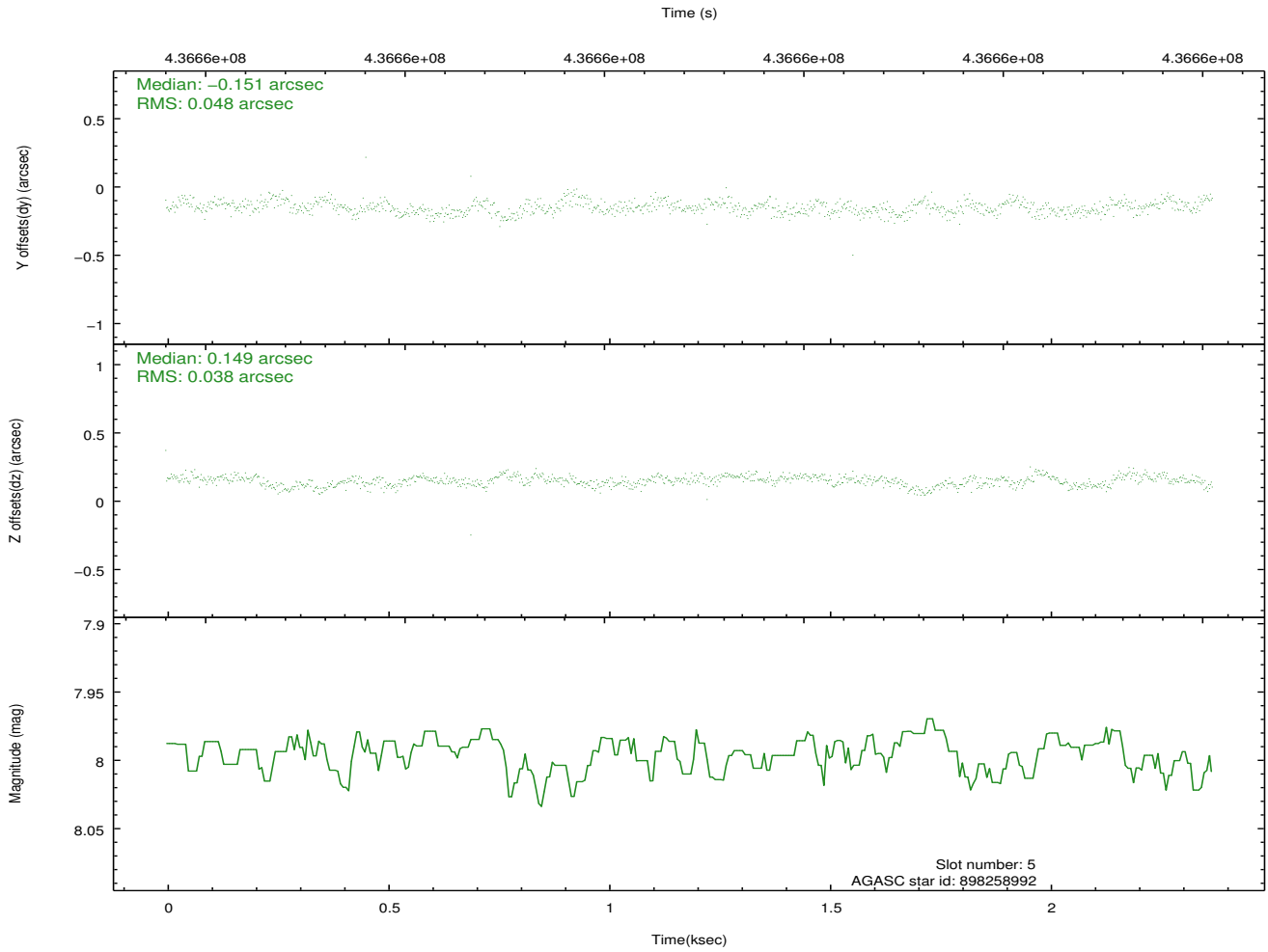
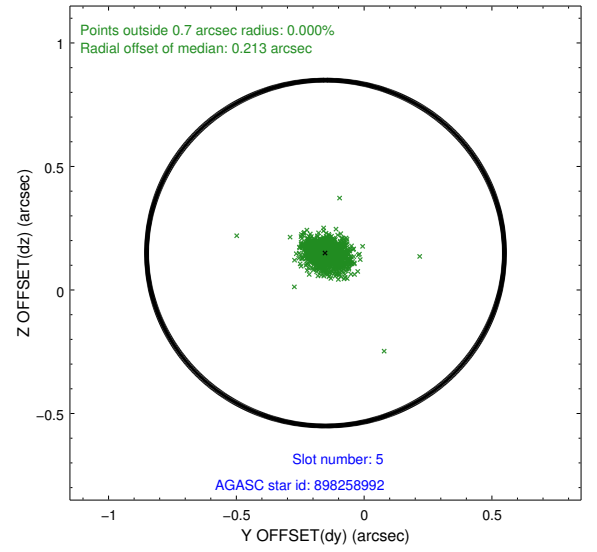
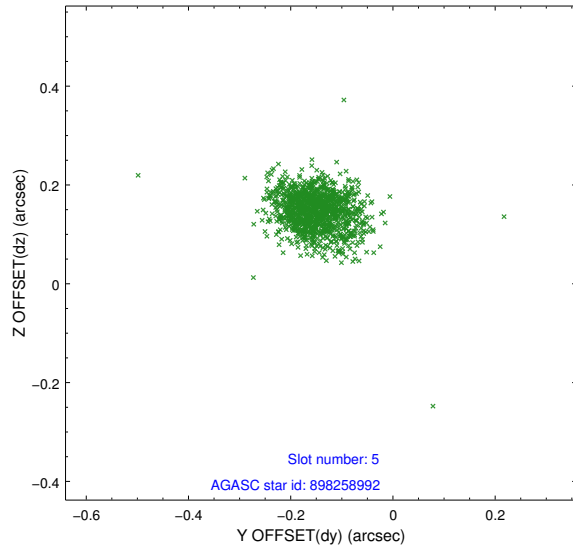
### 2.4.1 Slot 3



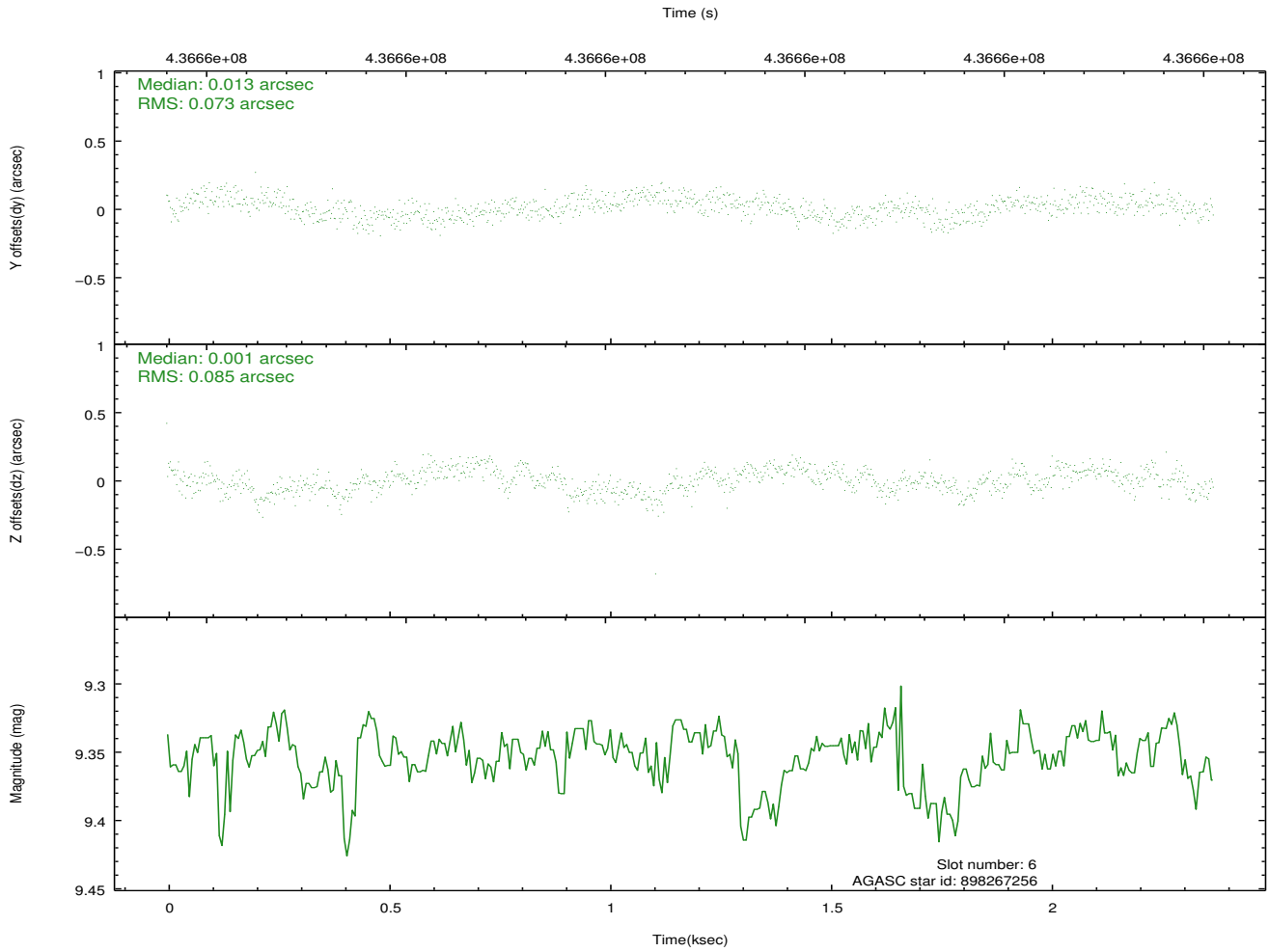
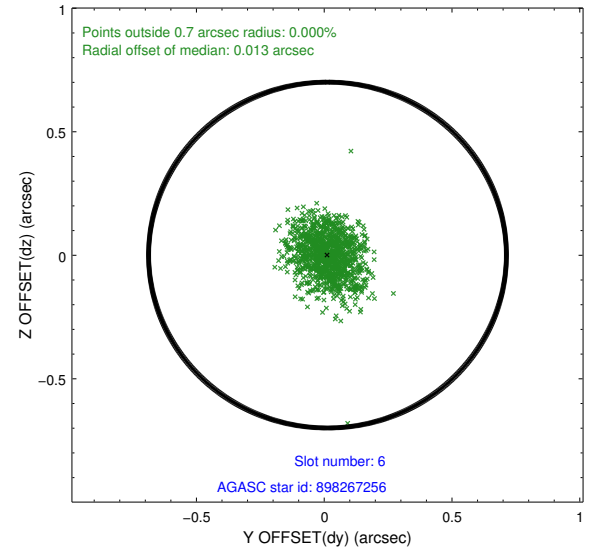
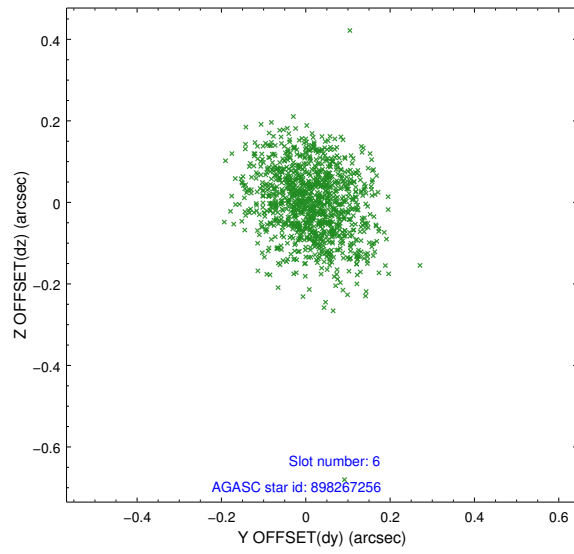
## 2.4.2 Slot 4



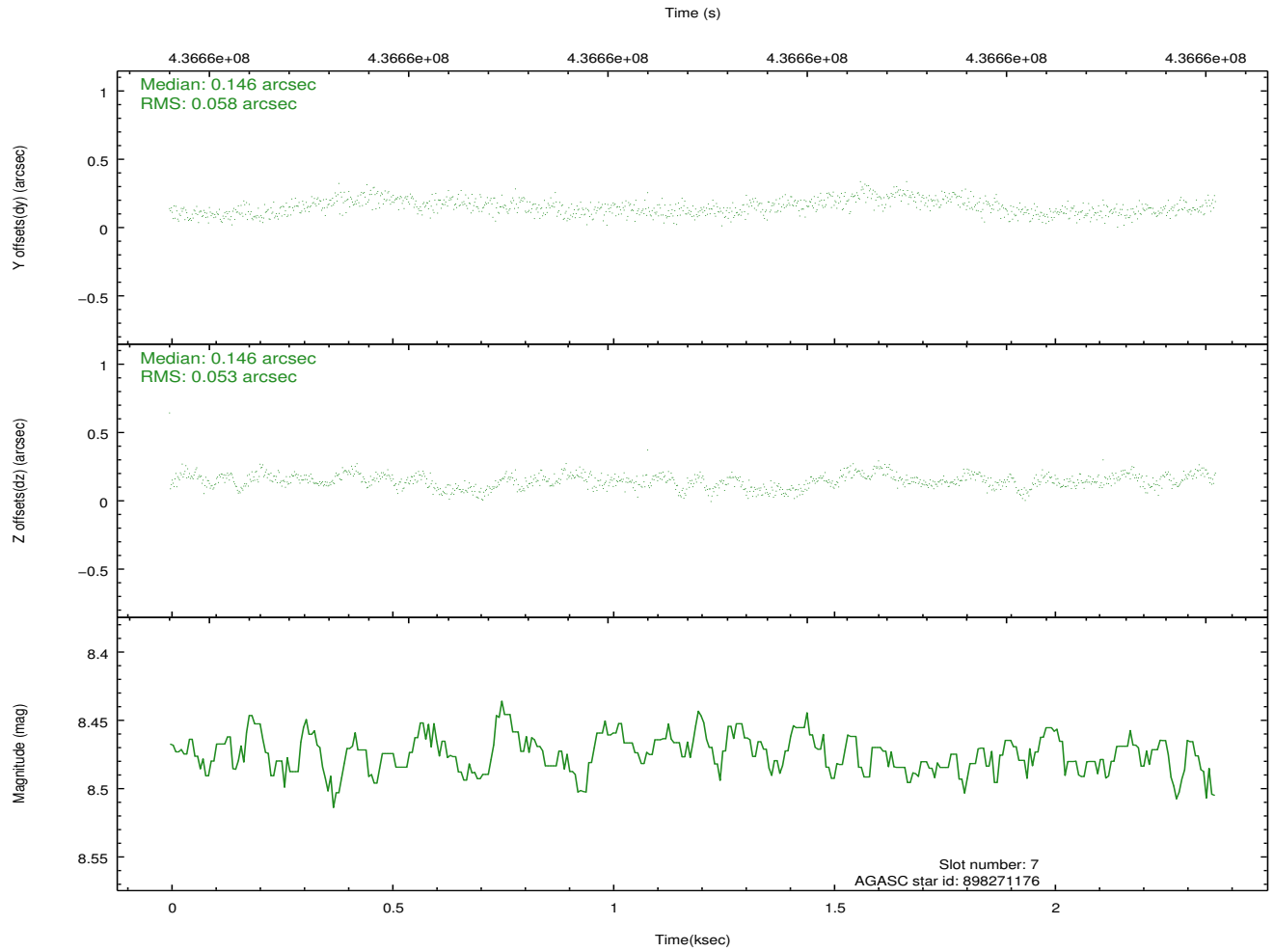
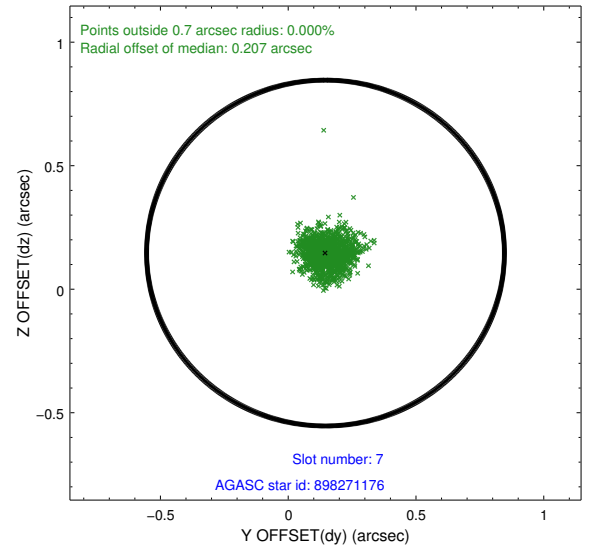
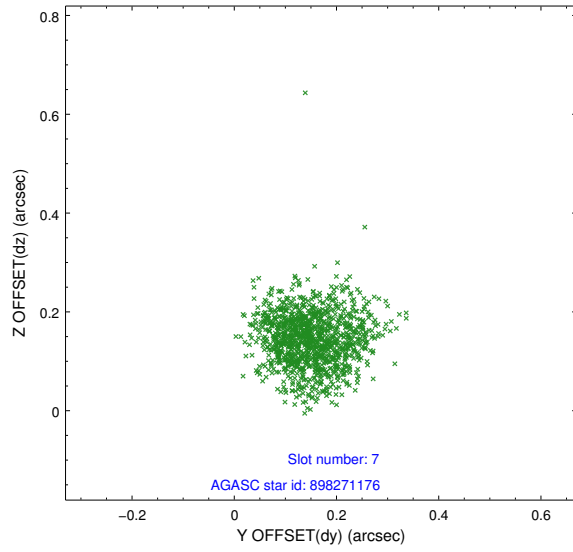
### 2.4.3 Slot 5



## 2.4.4 Slot 6

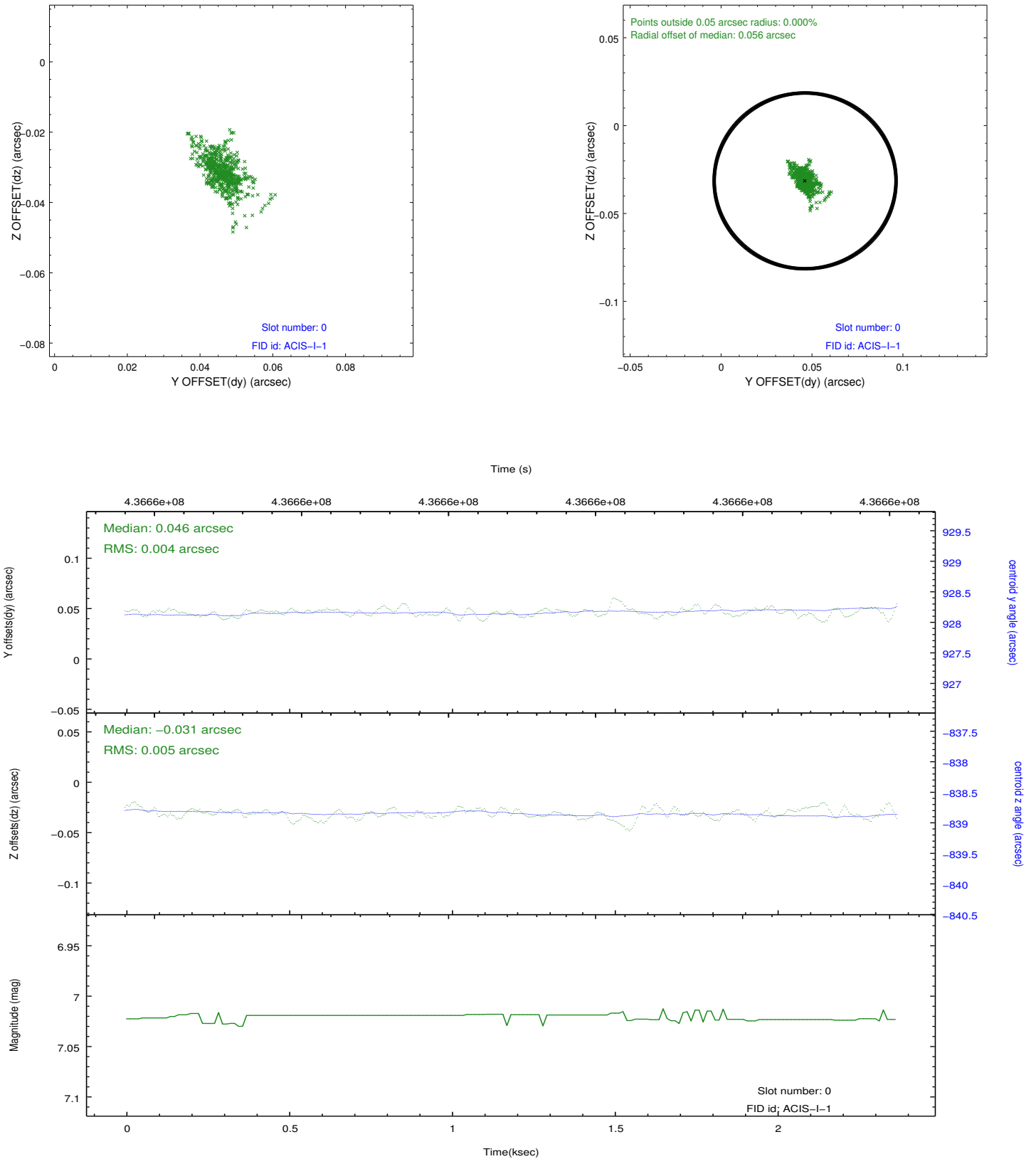


## 2.4.5 Slot 7

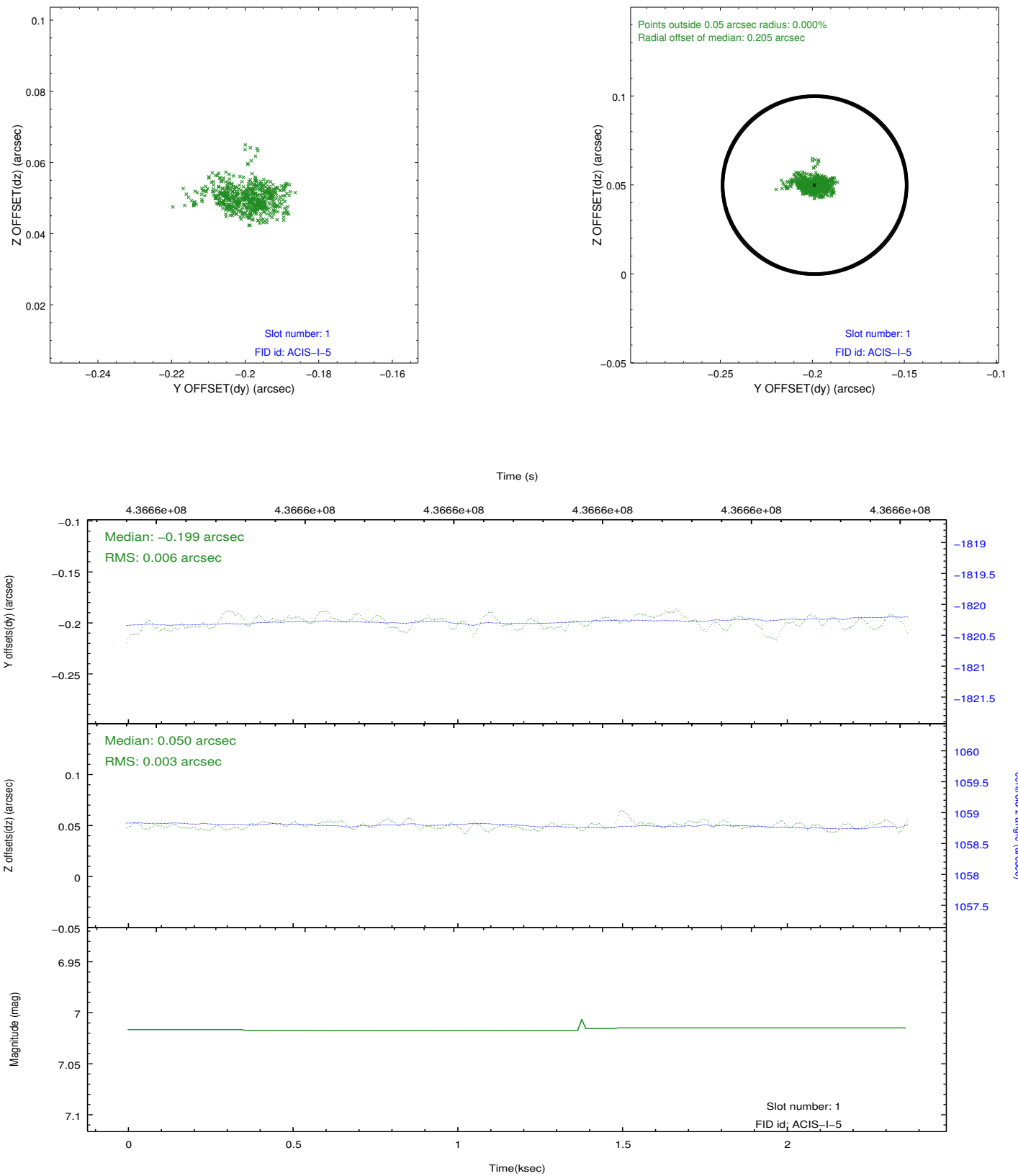


## 2.5 FID Slots

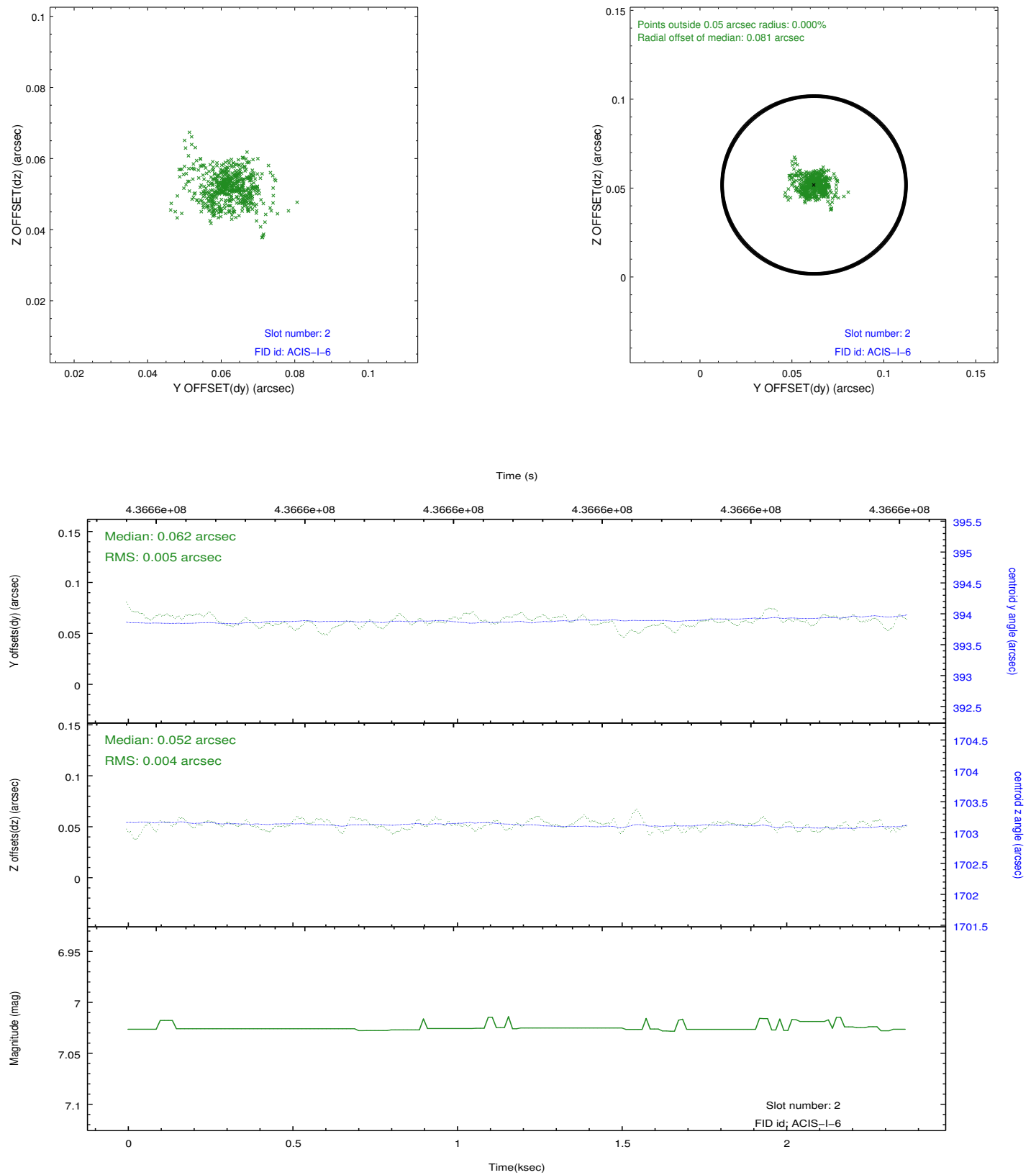
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9716000151634

### A.2 Comments

Joint proposal: NOAO