

# V&V Reference Report

## L2 ASCDS Version : 10.8

Observation 21595 - L2 Version 1  
Chandra X-Ray Center

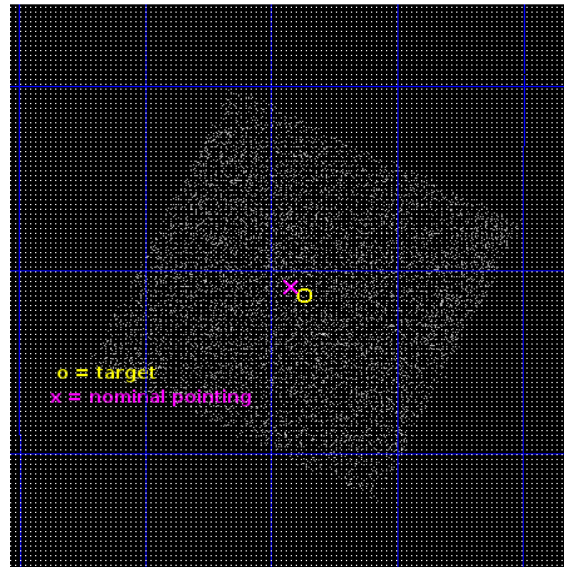
L2 Processing Date : Jul 3 2019

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# 1 Front

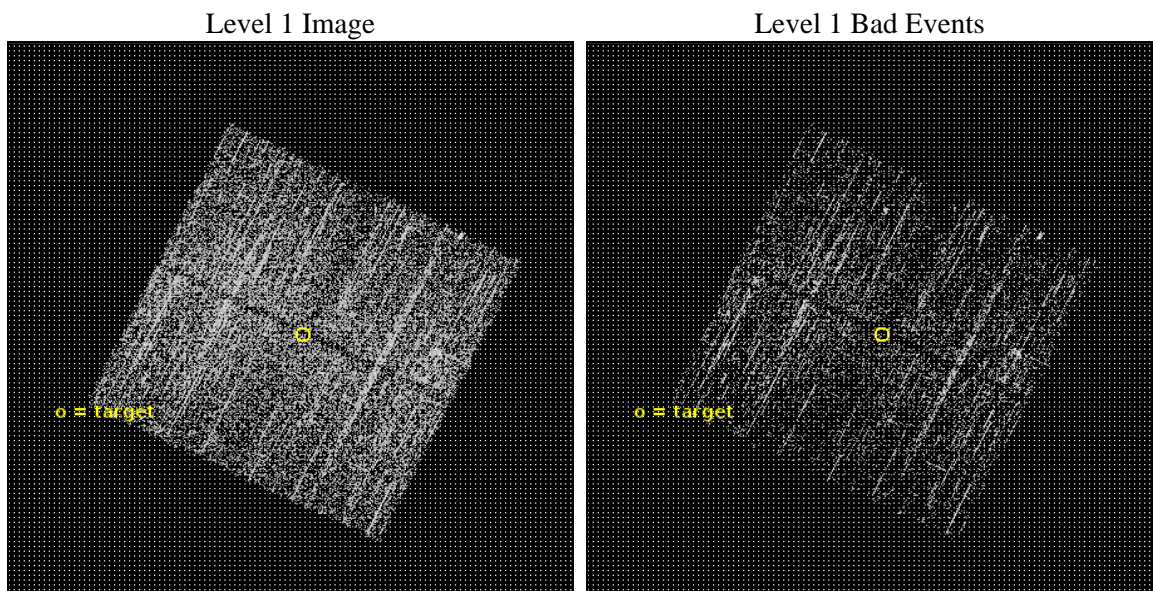
seq_num	300427	Sequence number
obs_id	21595	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 2	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.34159	Observer's specified target RA [deg]
dec_targ	-28.523243	Observer's specified target Dec [deg]
ra_nom	267.35478848498	Nominal RA [deg]
dec_nom	-28.515105265563	Nominal Dec [deg]
roll_nom	296.21502997588	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.7009333372	Sum of GTIs [s]
livetime	1883.762350478	Livetime [s]
ontime0	1908.6598933935	Sum of GTIs [s]
ontime1	1908.7009333372	Sum of GTIs [s]
ontime2	1908.7419734001	Sum of GTIs [s]
ontime3	1908.783013463	Sum of GTIs [s]
l2events	6415	Number of level 2 events



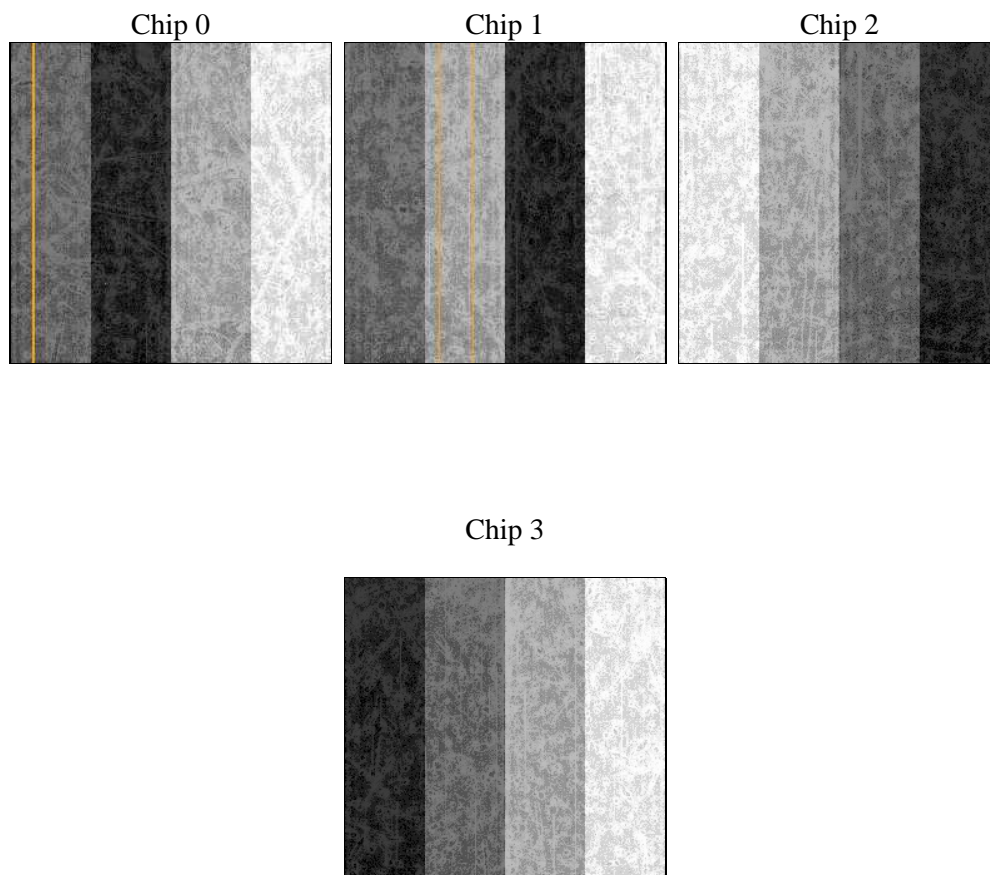
## 2 OBI

### 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	10.8	Processing system revision	ontime	1908.7009333372	Sum of GTIs [s]
caldsver	4.8.3.1	&#160	ontime0	1908.6598933935	Sum of GTIs [s]
date	2019-07-03T20:55:48	Date and time of file creation	ontime1	1908.7009333372	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.7419734001	Sum of GTIs [s]
			ontime3	1908.783013463	Sum of GTIs [s]
			l1events	57004	Number of level 1 events

### 2.1.4 Events

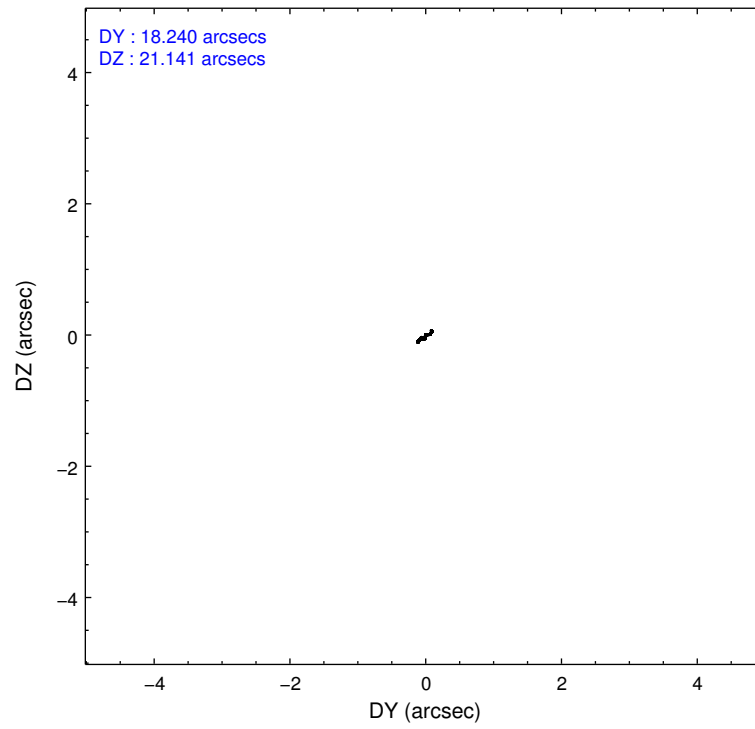
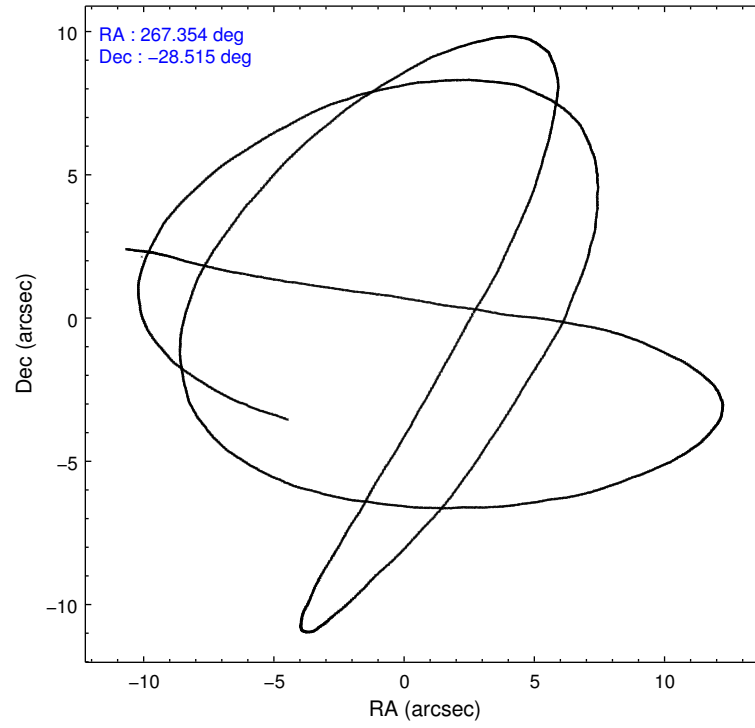
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13348	14215	14837	14604
rejected events	11484	12149	12991	12805
rejected %	86%	85%	87%	87%

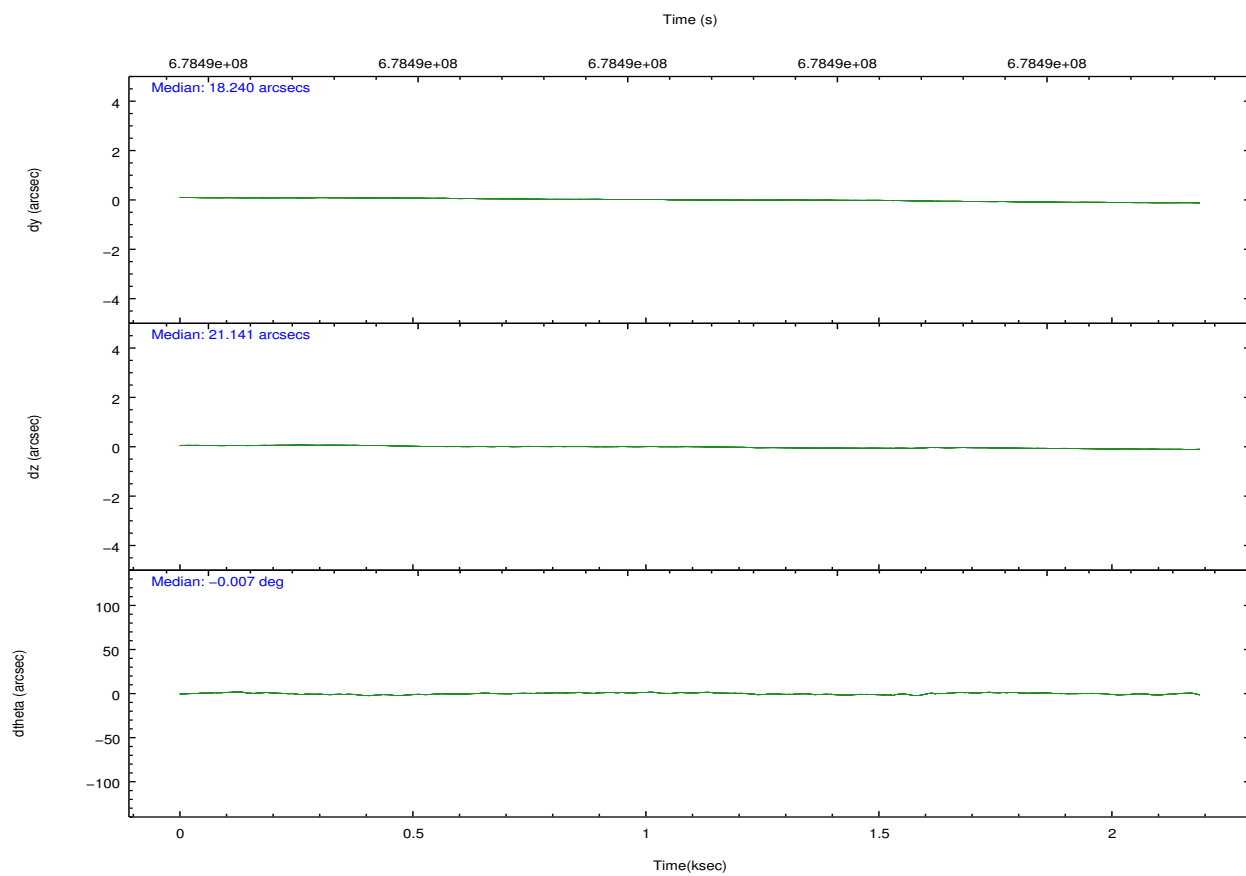
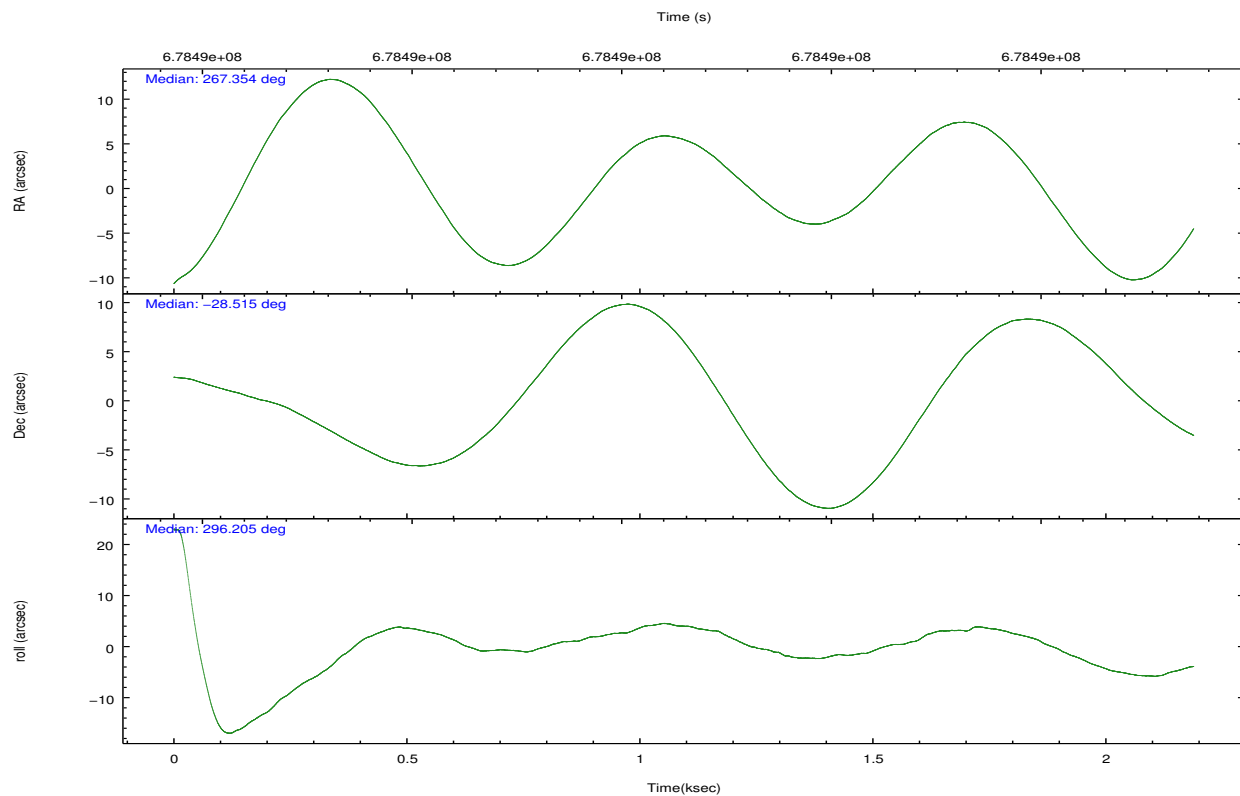
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	756	779	751	694
	5%	5%	5%	4%
grade 1 events	7	6	21	7
	0%	0%	0%	0%
grade 2 events	372	520	430	371
	2%	3%	2%	2%
grade 3 events	183	188	168	186
	1%	1%	1%	1%
grade 4 events	171	182	156	185
	1%	1%	1%	1%
grade 5 events	646	655	615	675
	4%	4%	4%	4%
grade 6 events	386	398	343	366
	2%	2%	2%	2%
grade 7 events	10827	11487	12353	12120
	81%	80%	83%	82%

## 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	267.328677	267.3547884849774	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.499910	-28.51510526556294	Alternating exposures requested	N	N
[deg] Pointing Roll	295.993845	296.2150299758842	[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)	678490730.184000	678490354.67038			
Observation start date	2019-07-02T21:37:41	2019-07-02T21:32:34			
[s] Observation end time (MET)	678492730.184000	678492864.89553			
Observation end date	2019-07-02T22:11:01	2019-07-02T22:14:24			
Read mode	TIMED	TIMED			

## 2.3 Aspect





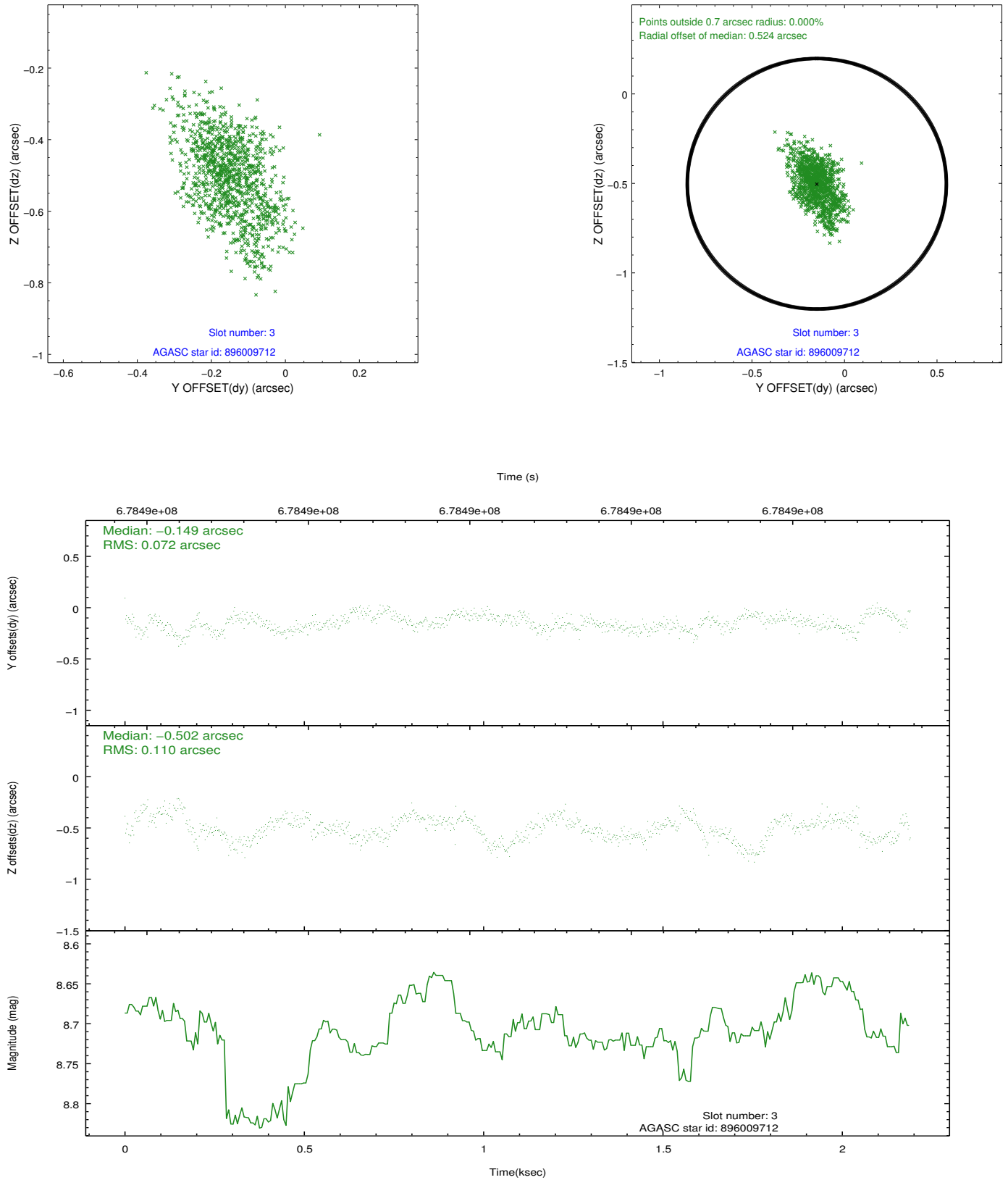
### Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.18	534	1.000	0.132	-0.157	0.021	0.033	0.000000	0.000000	921.34	-844
1	FID		ACIS-I-5	7.15	535	1.000	-0.579	0.008	0.012	0.023	0.000000	0.000000	-1826.02	1050
2	FID		ACIS-I-6	7.15	534	1.000	0.358	0.223	0.027	0.041	0.000000	0.000000	383.62	1699
3	GUIDE	used	896009712	8.71	1067	1.000	-0.149	-0.502	0.137	0.244	267.615249	-27.952169	-1371.23	1683
4	GUIDE	used	896541576	8.16	1069	1.000	-0.035	-0.161	0.166	0.257	267.051055	-28.762912	468.12	-1200
5	GUIDE	used	896534664	8.17	1068	1.000	0.247	0.375	0.131	0.211	266.405570	-28.407461	-1566.95	-2486
6	GUIDE	used	896538208	7.92	1069	1.000	-0.260	-0.156	0.108	0.190	267.176969	-28.671626	345.71	-702
7	GUIDE	used	896534744	8.10	1067	1.000	0.215	0.393	0.145	0.233	266.576468	-28.135368	-2217.46	-1573

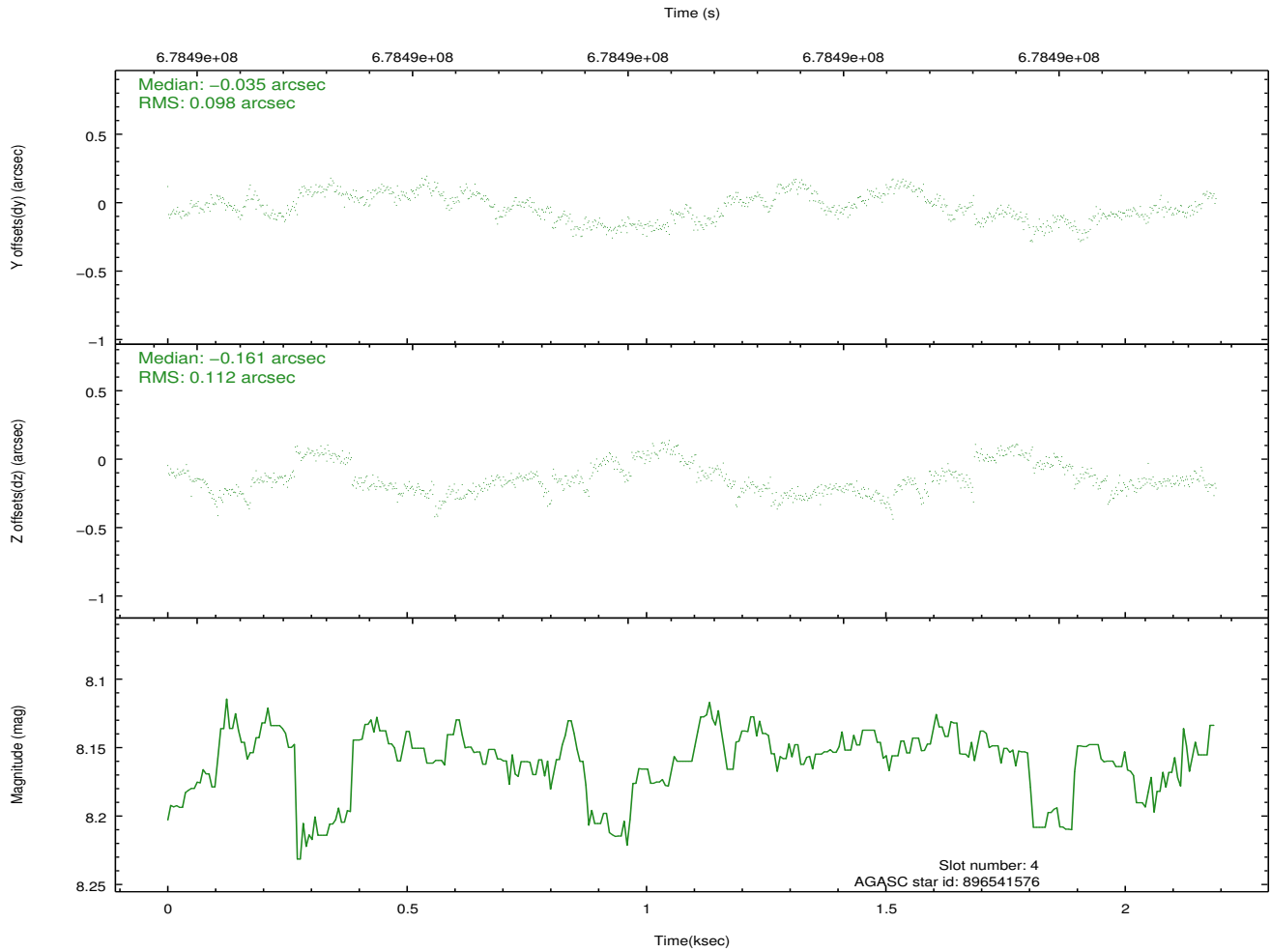
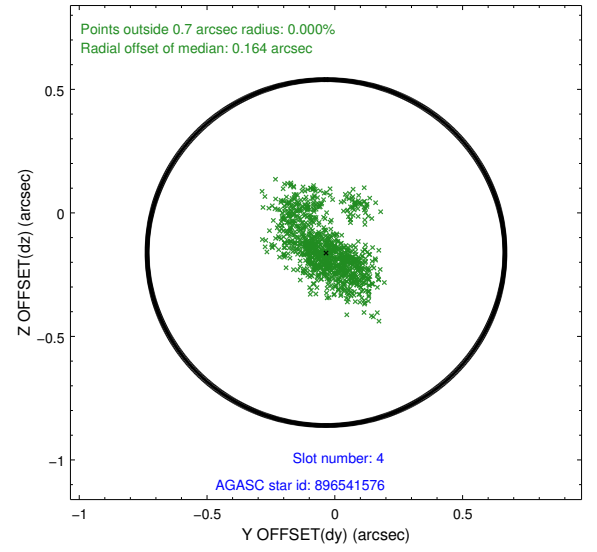
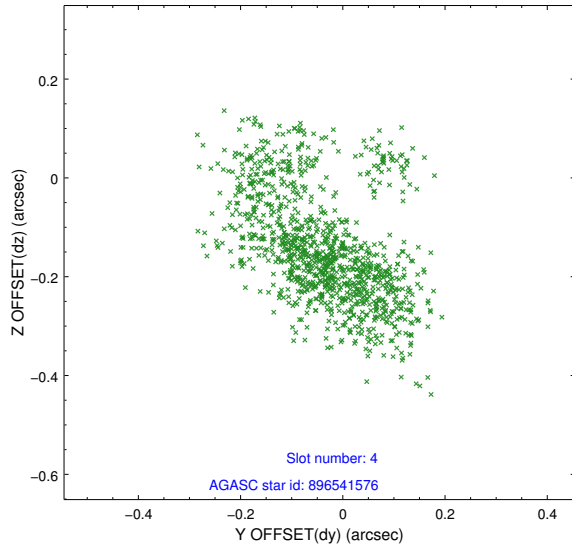


## 2.4 Star Slots

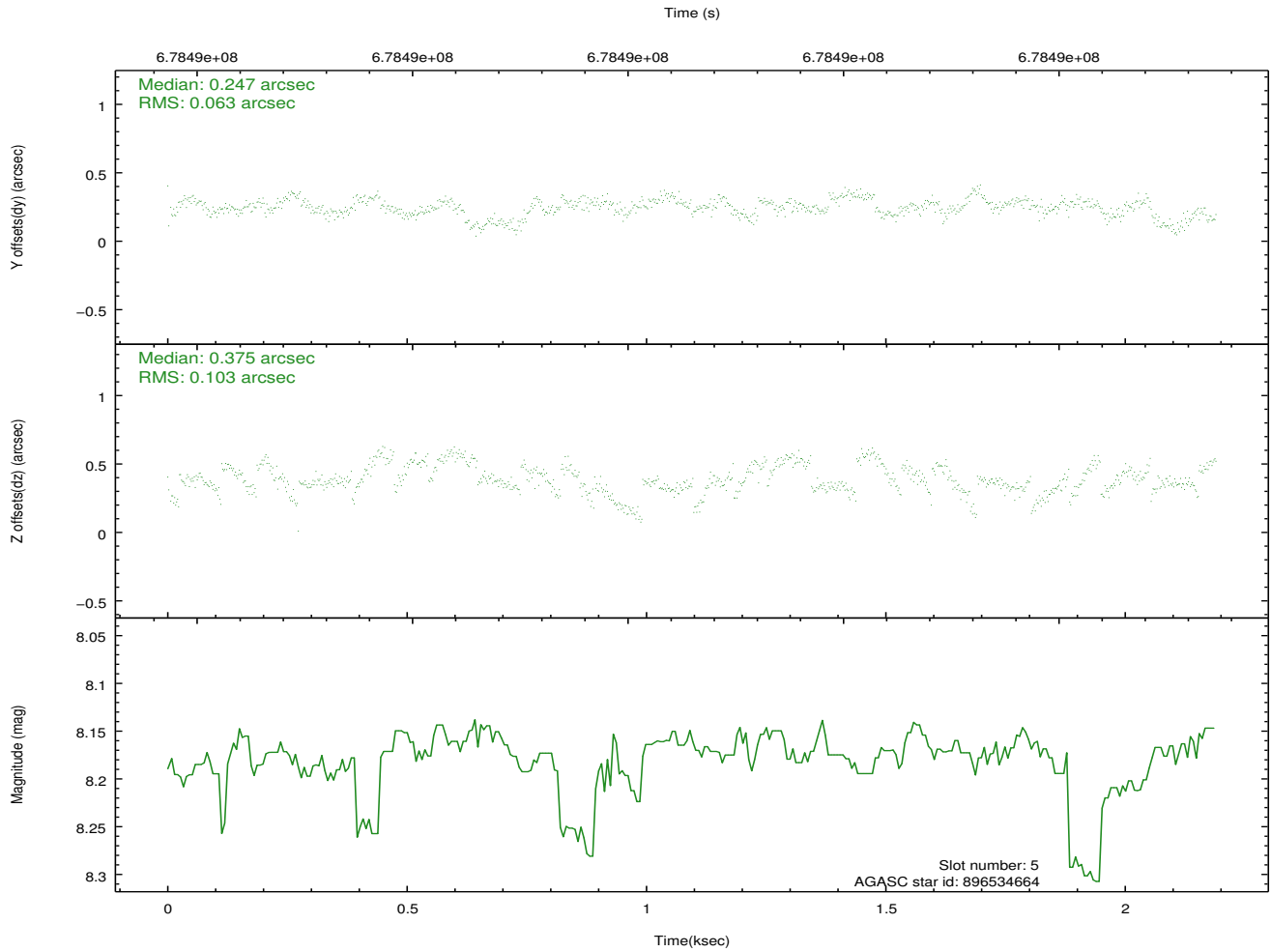
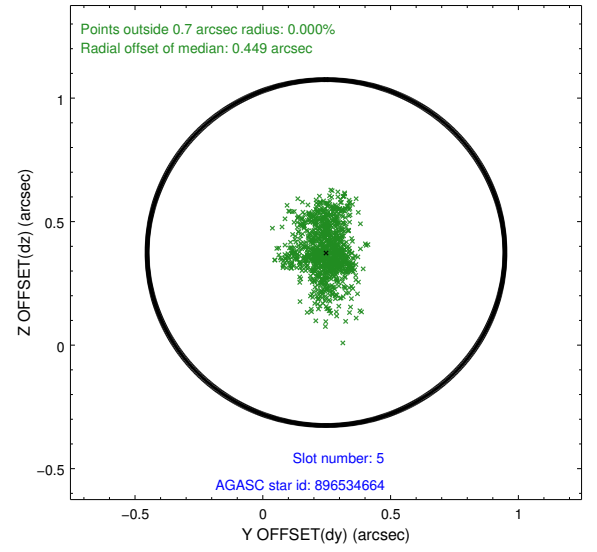
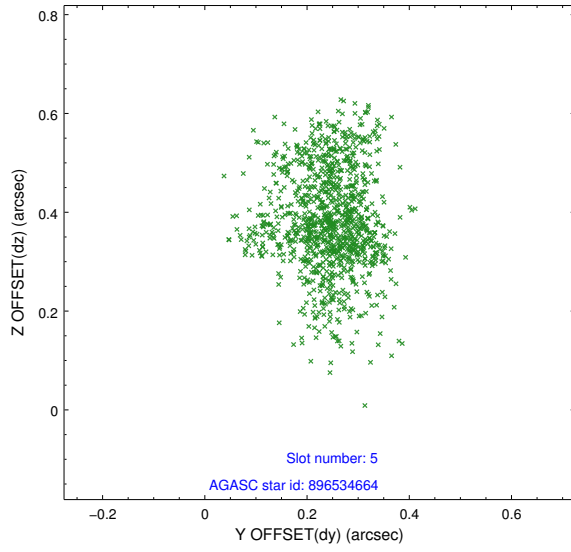
### 2.4.1 Slot 3



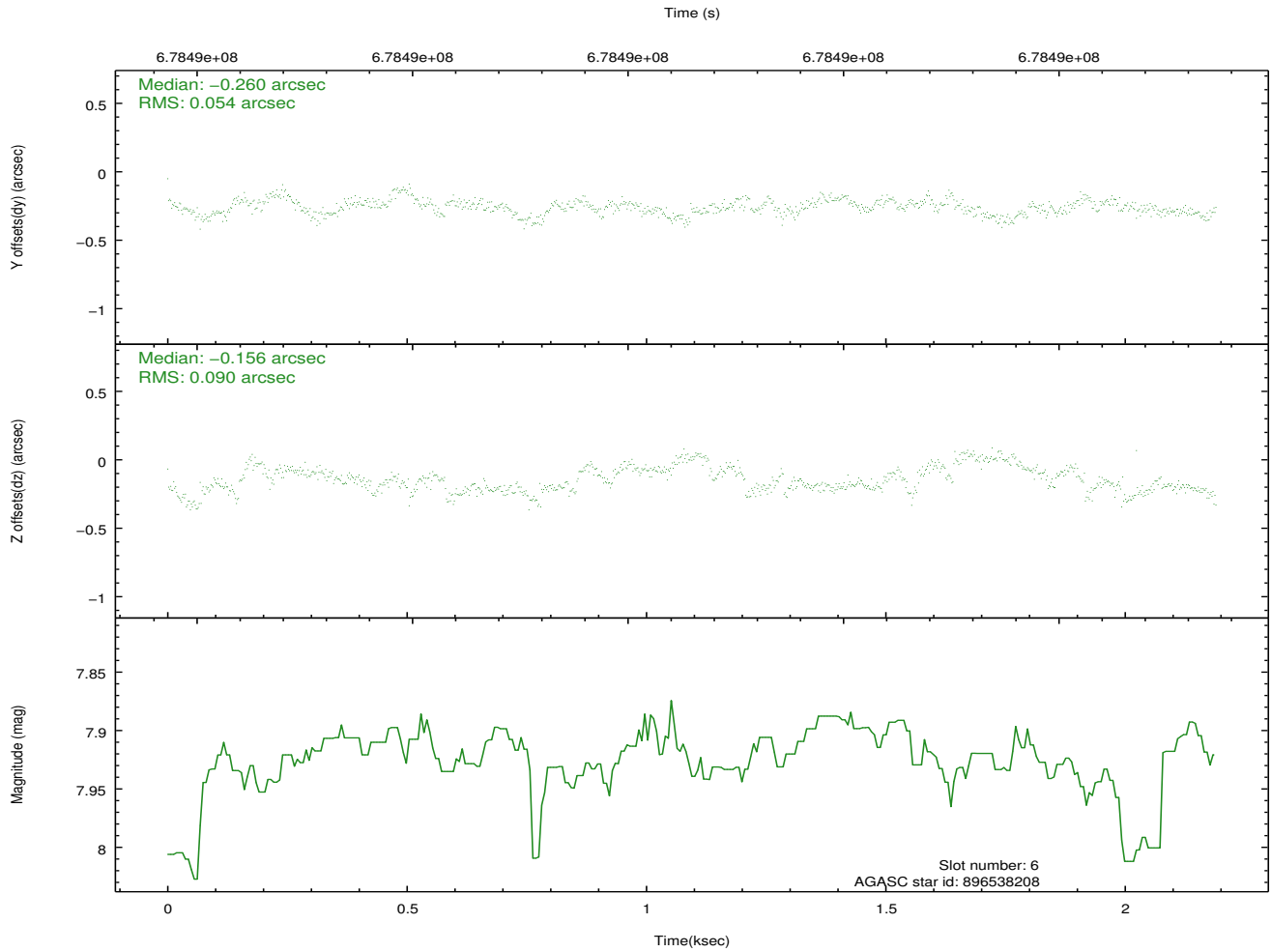
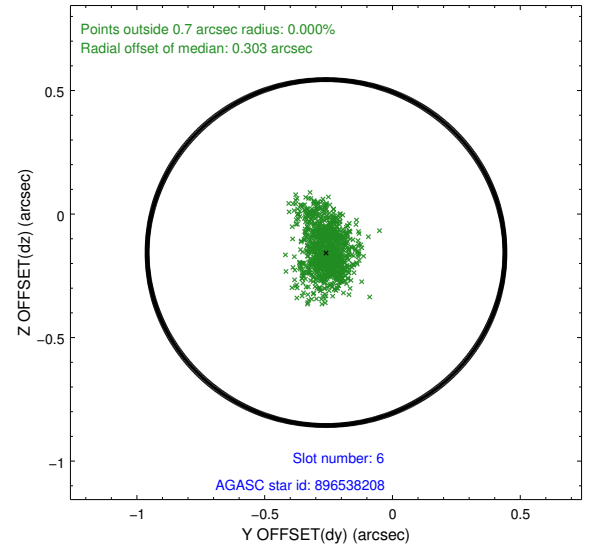
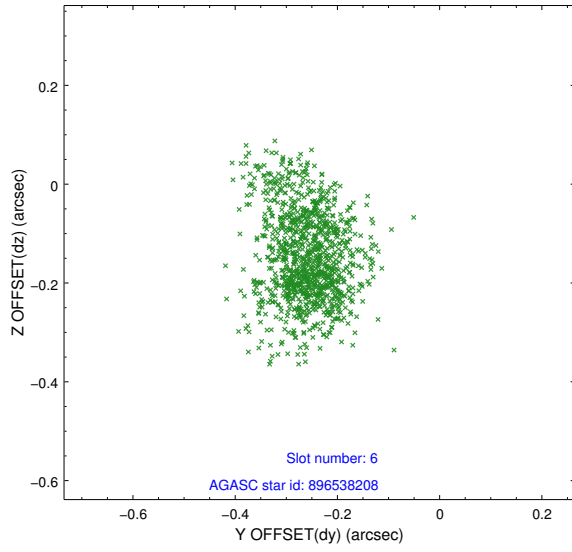
## 2.4.2 Slot 4



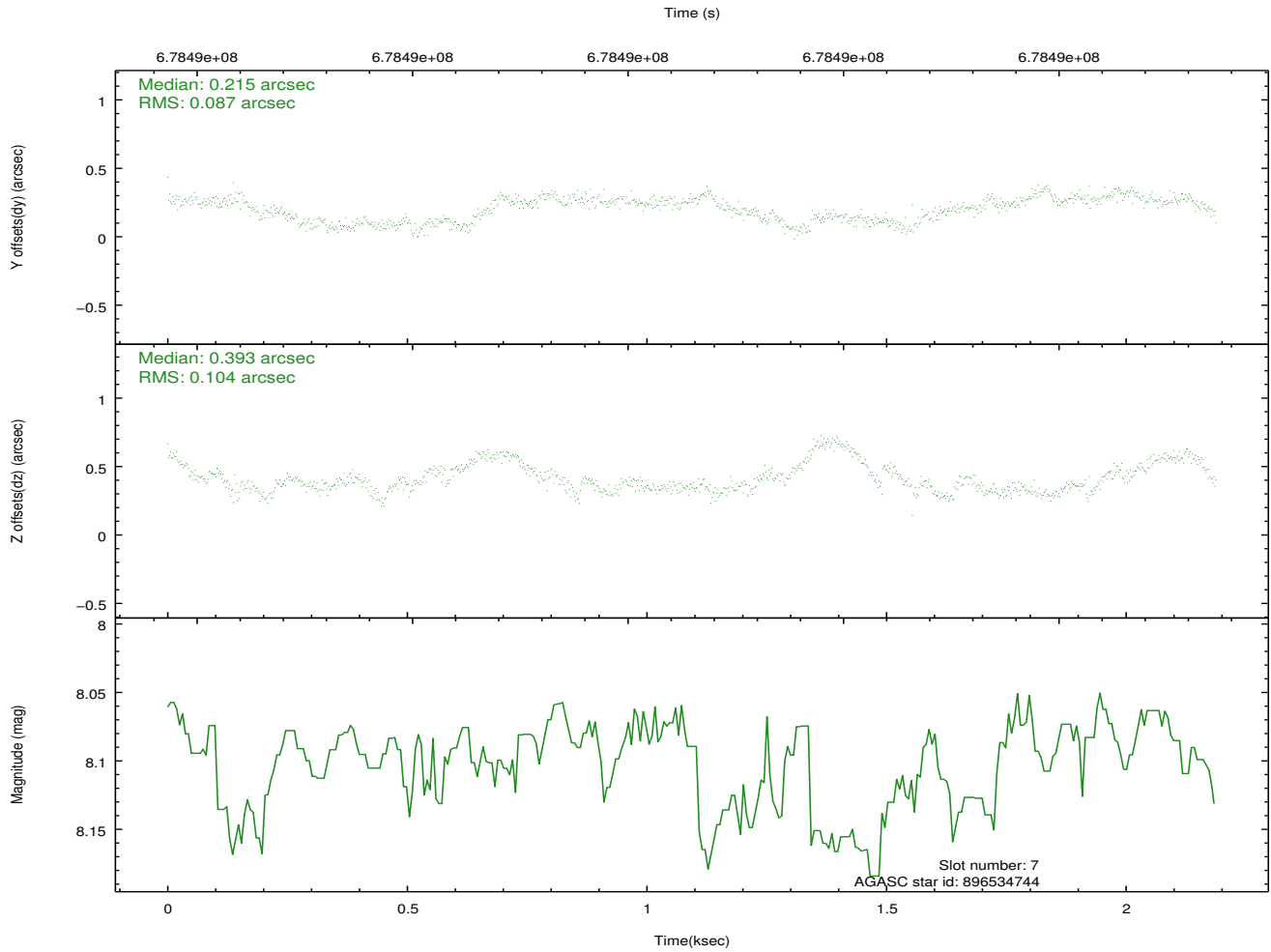
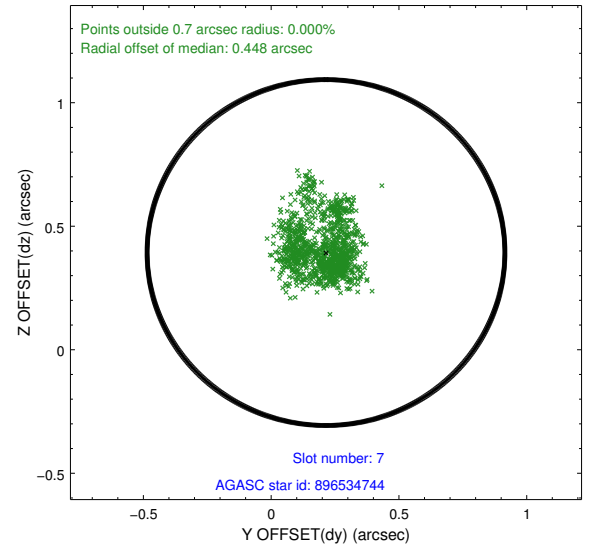
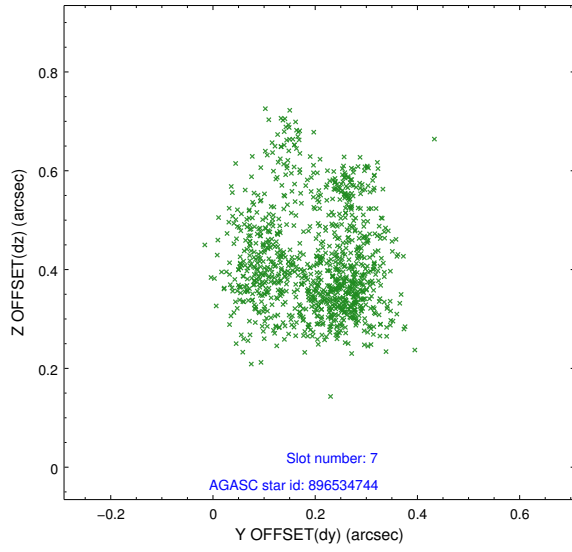
### 2.4.3 Slot 5



## 2.4.4 Slot 6

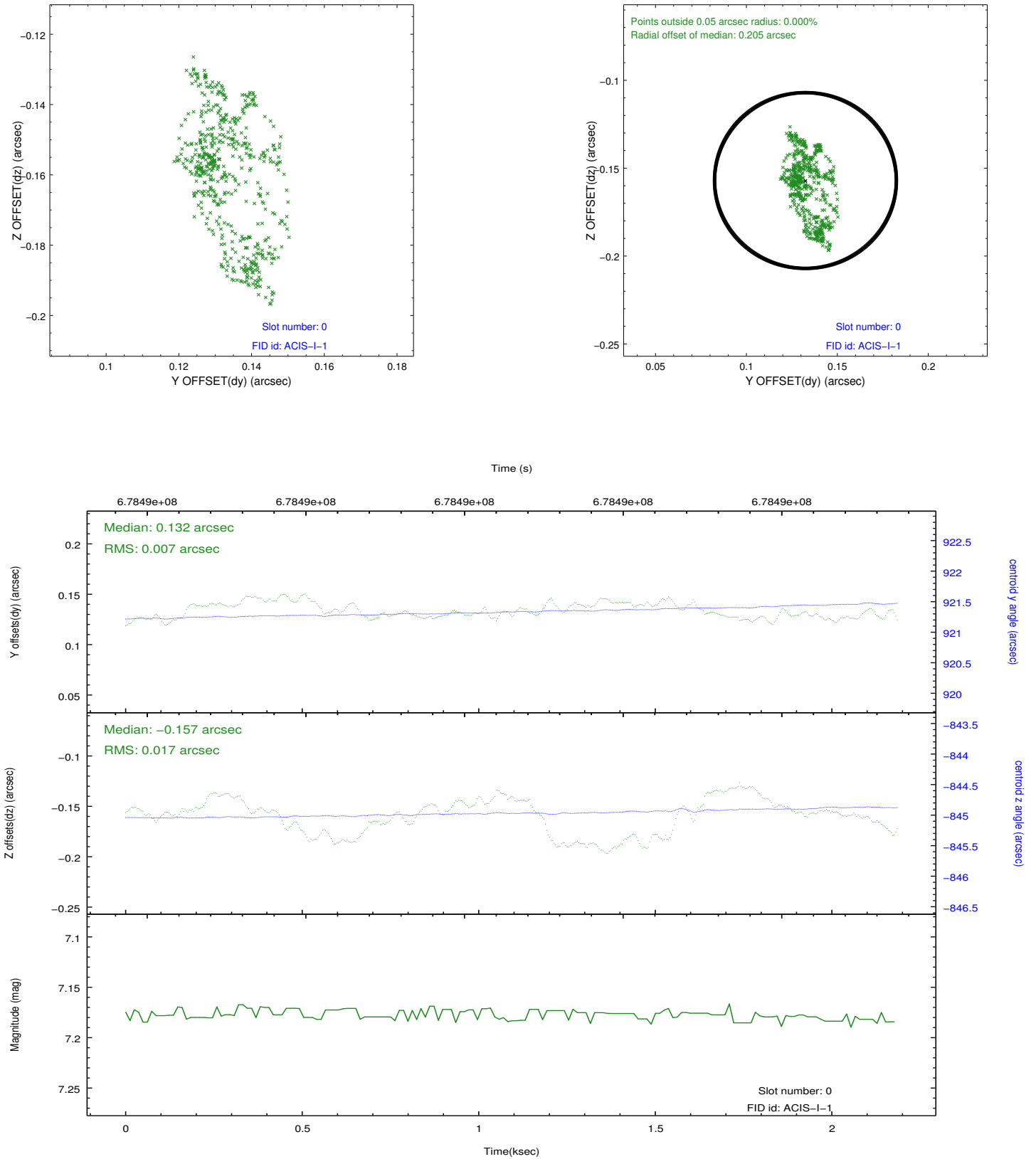


## 2.4.5 Slot 7

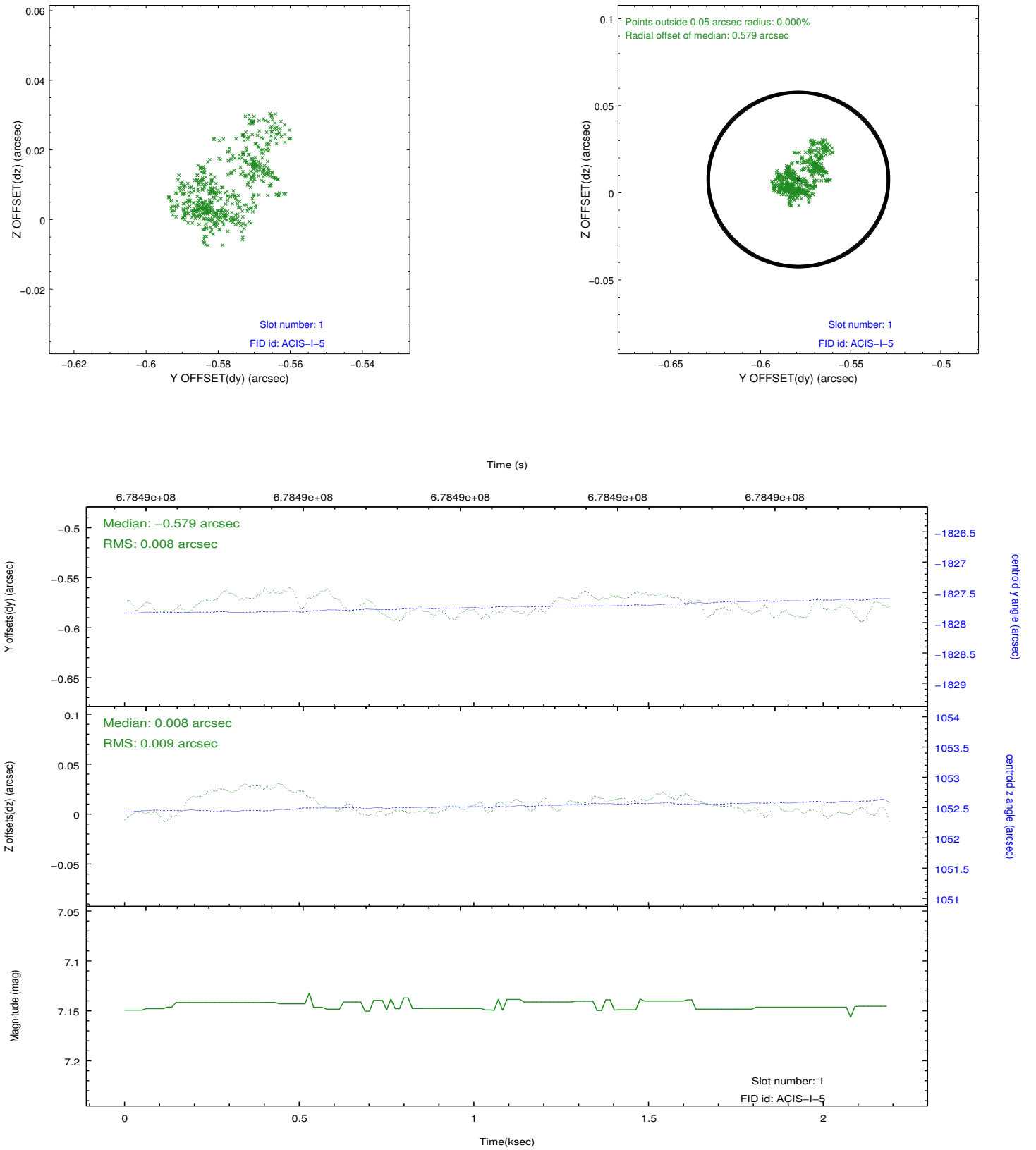


## 2.5 FID Slots

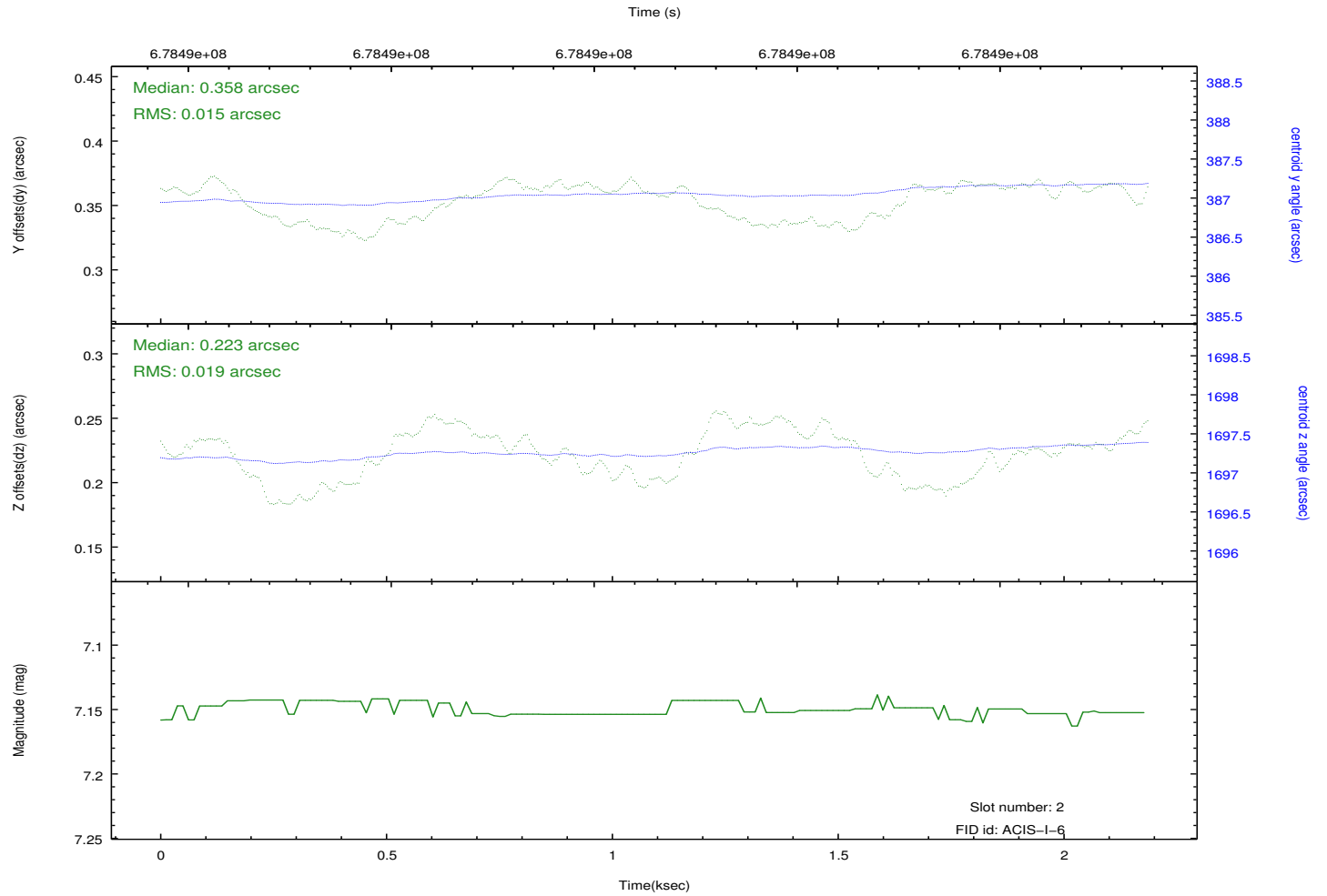
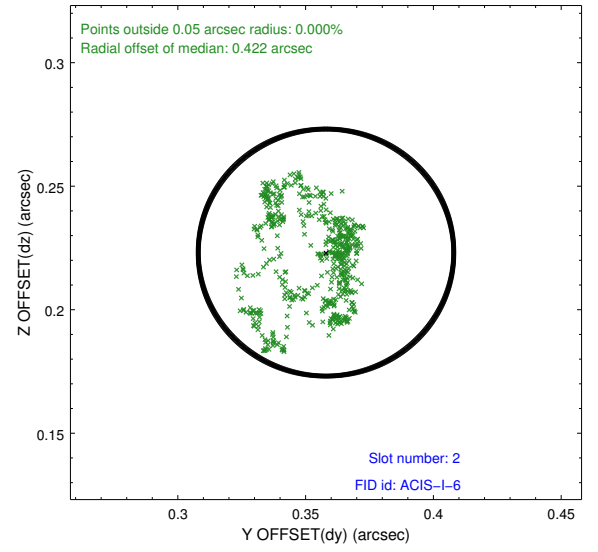
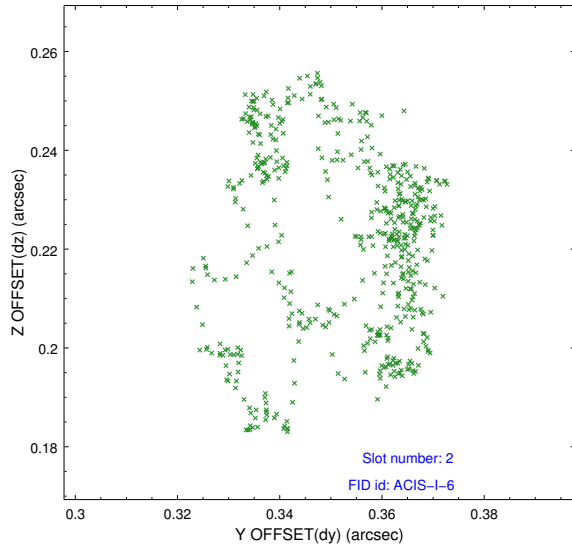
### 2.5.1 Slot 0



## 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)	2019.07.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9087009333372

### A.2 Comments