

# V&V Reference Report

## L2 ASCDS Version : 10.7

Observation 21151 - L2 Version 1  
Chandra X-Ray Center

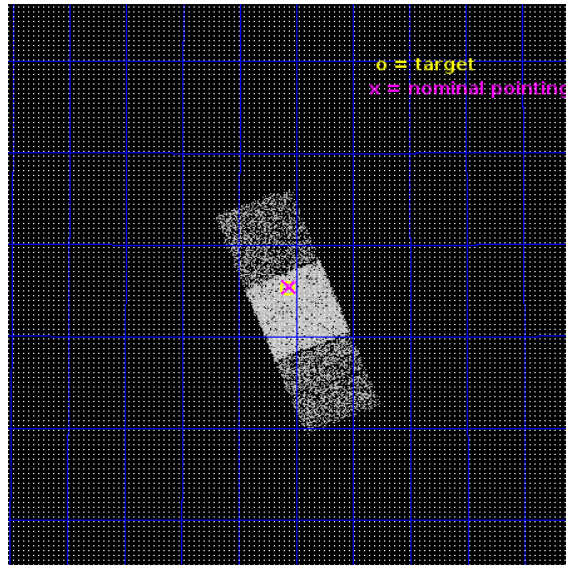
L2 Processing Date : Nov 11 2018

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# 1 Front

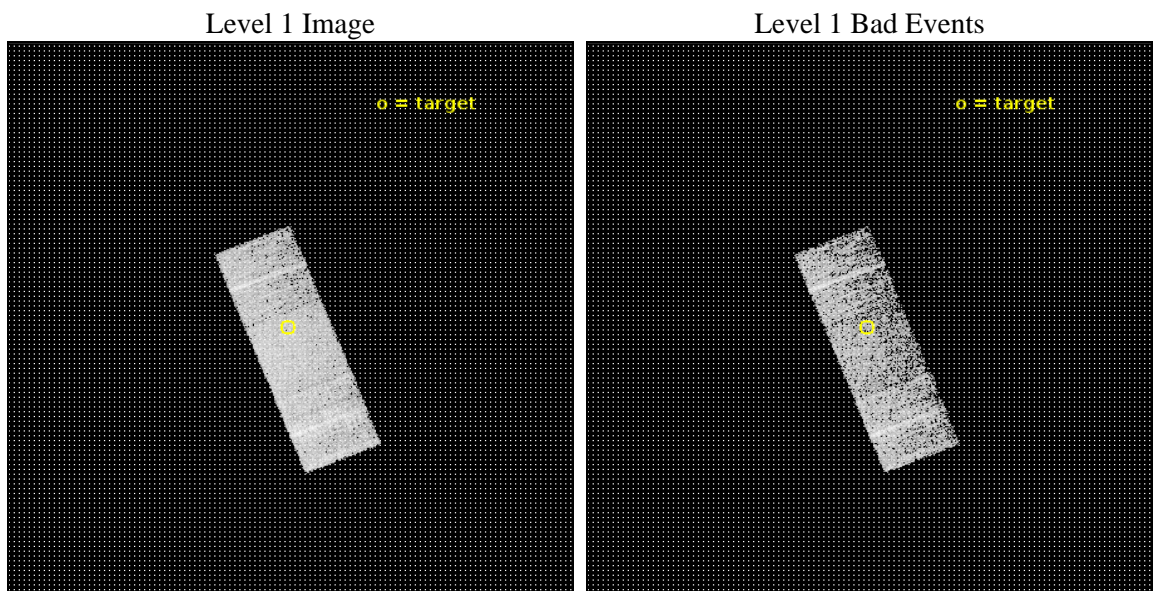
seq_num	703691	Sequence number
obs_id	21151	Observation id
title	A Chandra view of Eddington-limited accretion in DOGs	Proposal tit
observer	Dr. Gordon Garmire	Principal investigator
object	J1010+3725	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	152.642917	Observer's specified target RA [deg]
dec_targ	37.420778	Observer's specified target Dec [deg]
ra_nom	152.6394920315	Nominal RA [deg]
dec_nom	37.424151355261	Nominal Dec [deg]
roll_nom	68.158543859136	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2926.4000226259	Sum of GTIs [s]
livetime	2888.164451946	Livetime [s]
ontime6	2926.4000226259	Sum of GTIs [s]
ontime7	2926.4000226259	Sum of GTIs [s]
ontime8	2916.9770219326	Sum of GTIs [s]
l2events	16132	Number of level 2 events



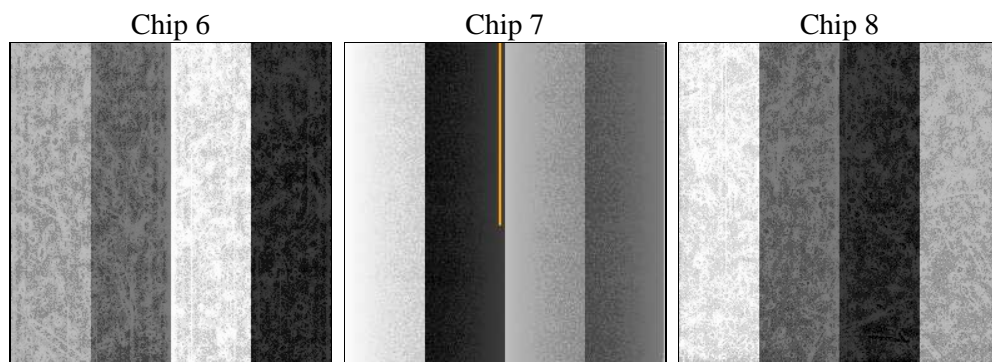
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	2926.4000226259	Sum of GTIs [s]
caldsver	4.8.0.1	&#160	ontime6	2926.4000226259	Sum of GTIs [s]
date	2018-11-11T22:06:21	Date and time of file creation	ontime7	2926.4000226259	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	2916.9770219326	Sum of GTIs [s]
			l1events	78994	Number of level 1 events

### 2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	21394	27351	30249
rejected events	18993	15532	22709
rejected %	88%	56%	75%

	ccd 6	ccd 7	ccd 8
grade 0 events	684	1017	2053
	3%	3%	6%
grade 1 events	11	47	24
	0%	0%	0%
grade 2 events	631	2466	1859
	2%	9%	6%
grade 3 events	195	915	729
	0%	3%	2%
grade 4 events	208	949	657
	0%	3%	2%
grade 5 events	932	2691	1409
	4%	9%	4%
grade 6 events	685	6482	2245
	3%	23%	7%
grade 7 events	18048	12784	21273
	84%	46%	70%

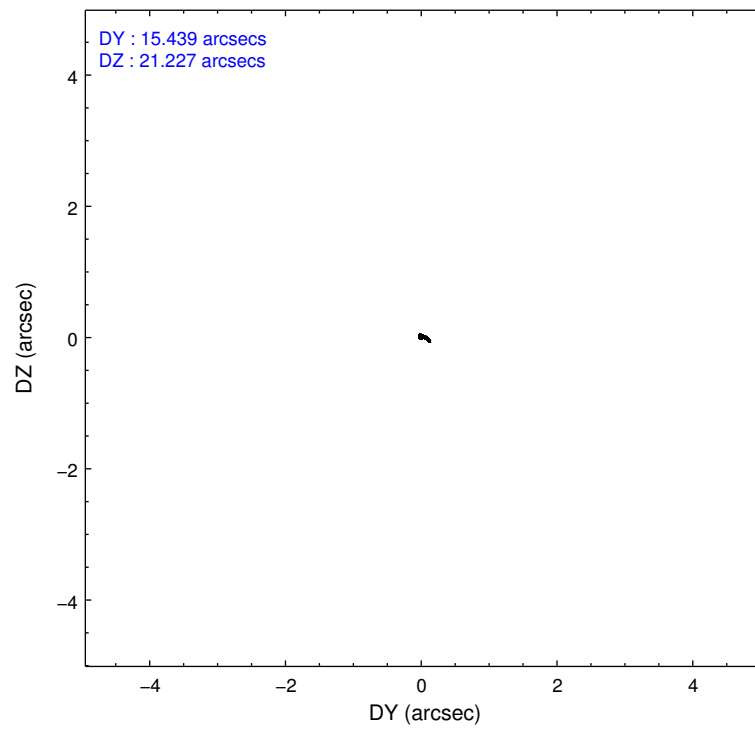
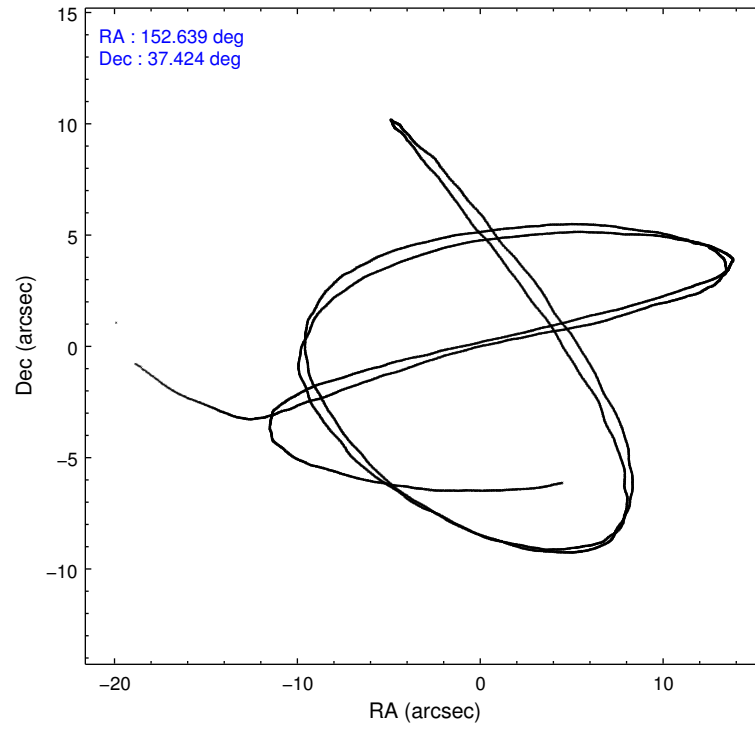


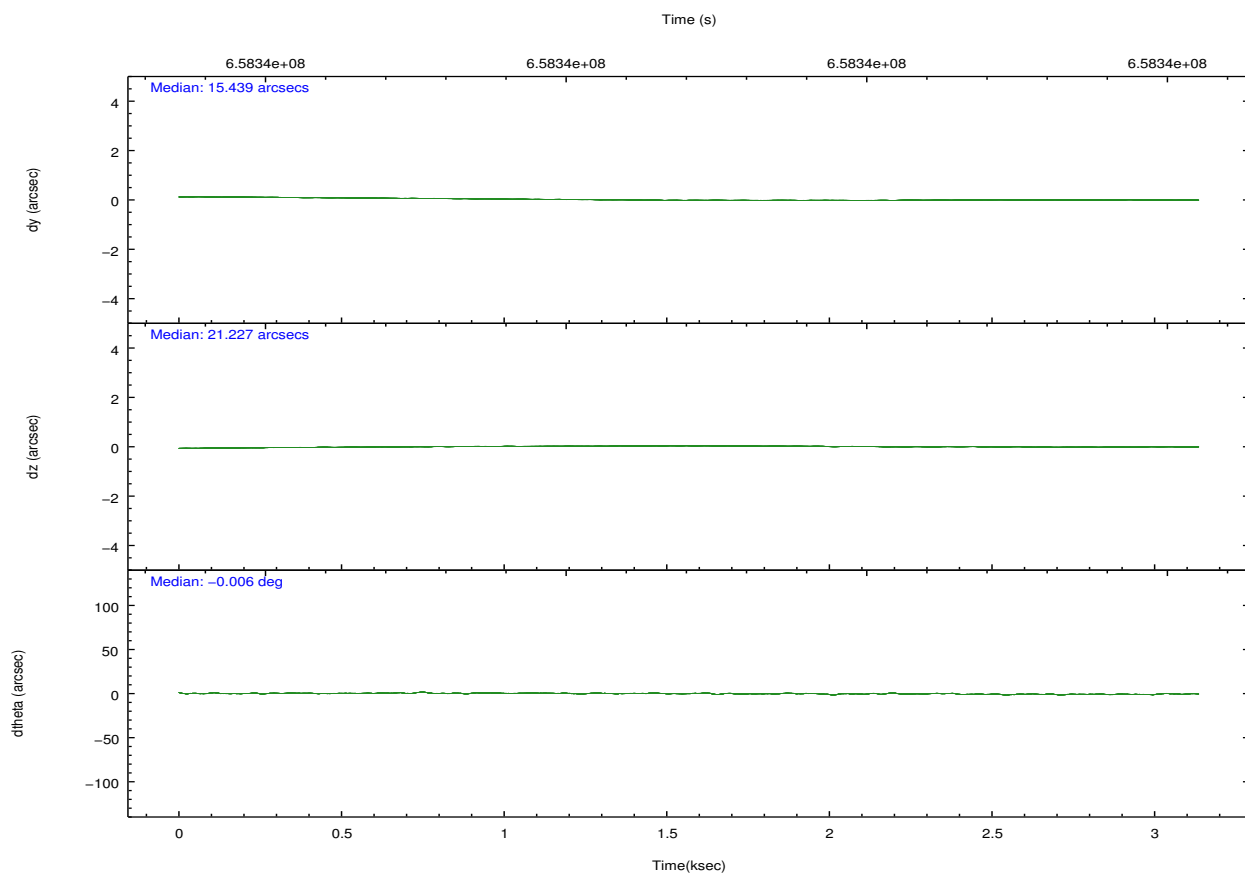
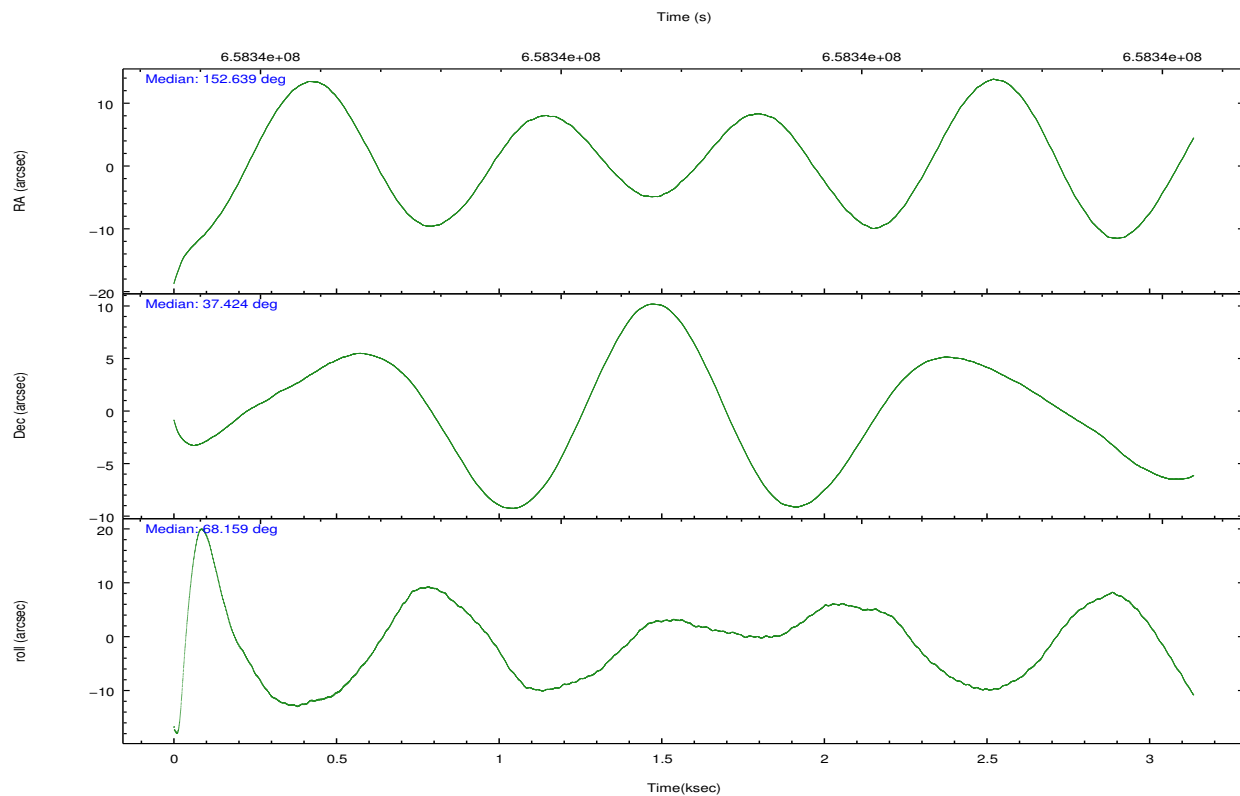
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	152.645048	152.6394920315034
[deg] Pointing Dec	37.397060	37.42415135526111
[deg] Pointing Roll	67.998706	68.15854385913593
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	658339977.184000	658338989.7904299
Observation start date	2018-11-11T16:11:48	2018-11-11T15:56:29
[s] Observation end time (MET)	658342977.184000	658343847.26572
Observation end date	2018-11-11T17:01:48	2018-11-11T17:17:27
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



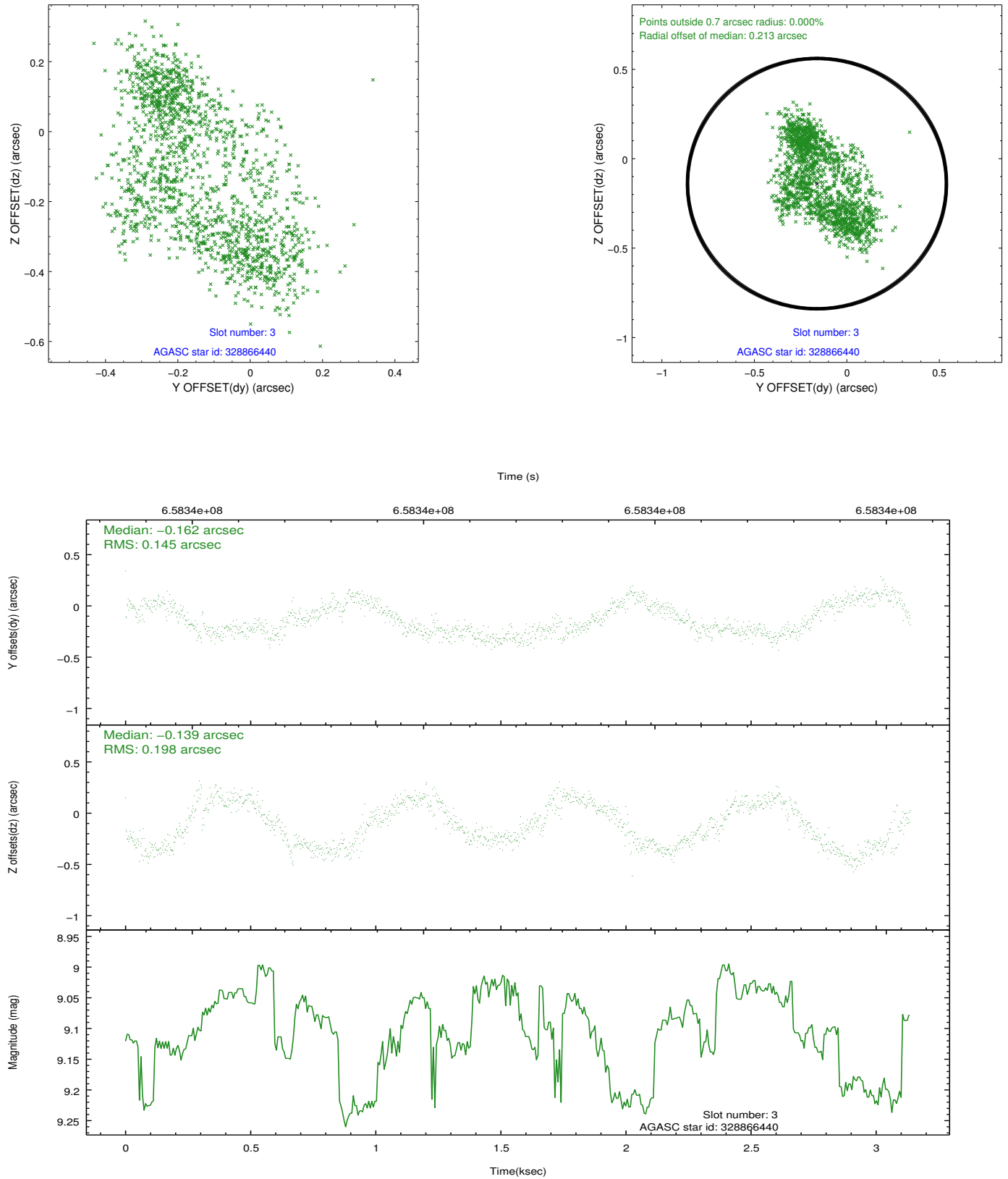


Slot Statistics

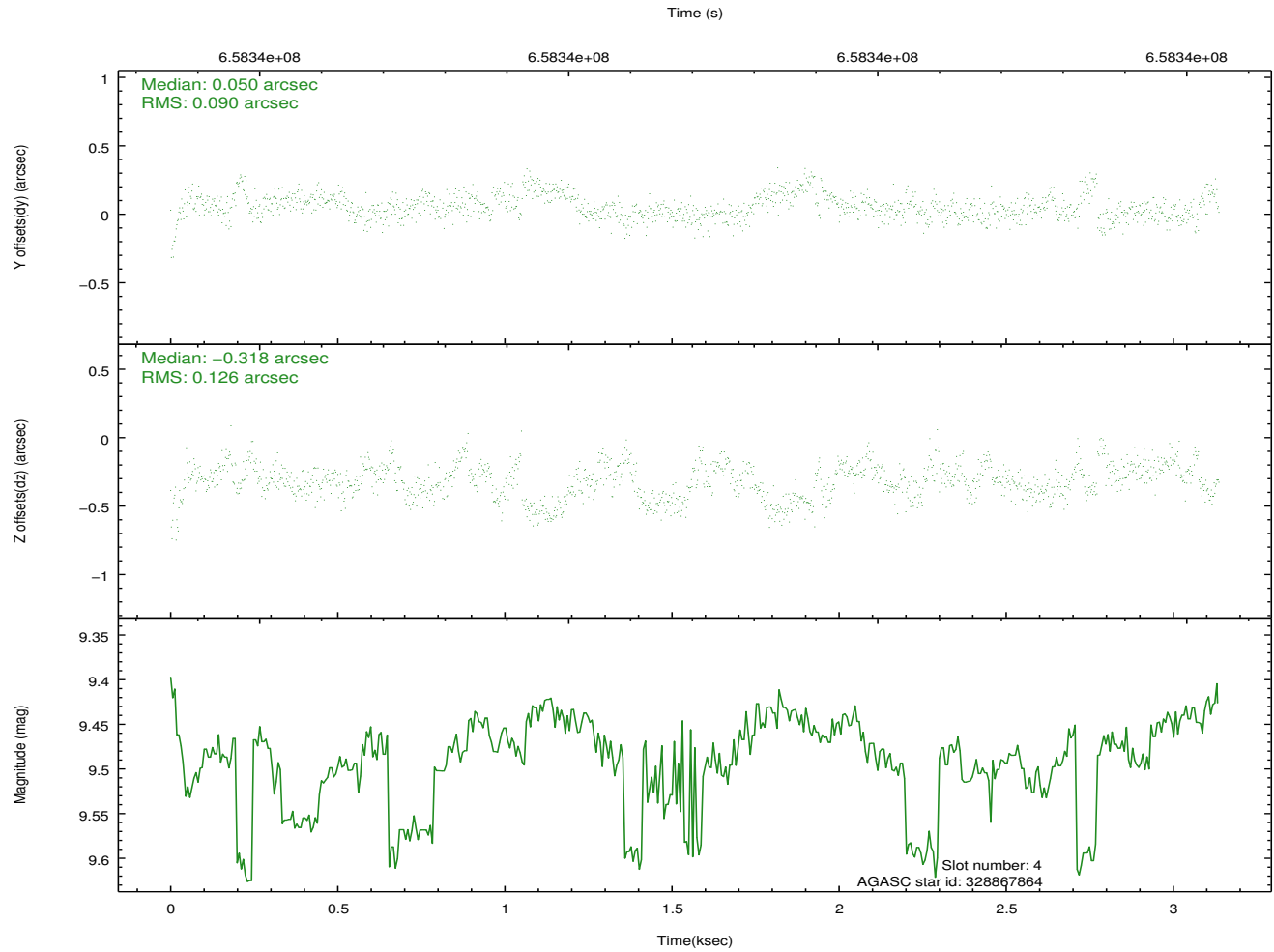
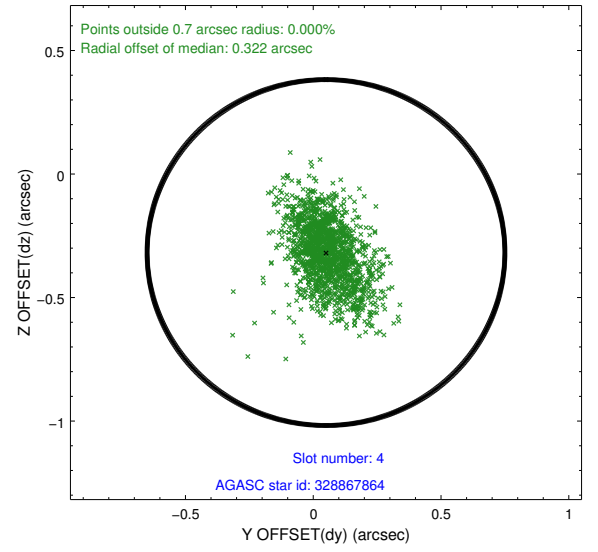
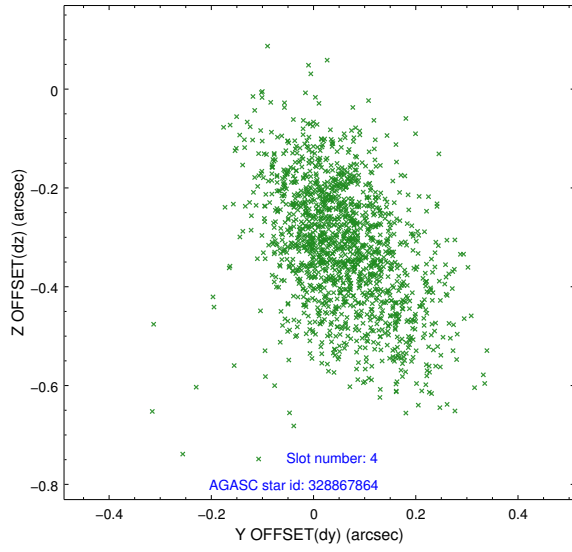
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.13	765	1.000	-0.373	-0.239	0.007	0.012	0.000000	0.000000	-768.76	-1742
1	FID		ACIS-S-4	7.25	765	1.000	0.820	0.244	0.006	0.011	0.000000	0.000000	2144.71	163
2	FID		ACIS-S-5	7.23	765	1.000	-0.479	0.004	0.007	0.012	0.000000	0.000000	-1819.17	159
3	GUIDE	used	328866440	9.10	1531	1.000	-0.162	-0.139	0.271	0.378	152.435459	37.382942	-270.25	536
4	GUIDE	used	328867864	9.48	1528	1.000	0.050	-0.318	0.162	0.280	152.118689	37.277977	-958.07	1238
5	GUIDE	used	329785416	8.39	1528	1.000	0.535	0.817	0.130	0.190	153.137092	36.674370	-1876.25	-2289
6	GUIDE	used	393219464	9.19	1527	1.000	-0.031	0.182	0.184	0.323	152.953705	37.515977	728.08	-657
7	GUIDE	used	393219584	9.70	1523	1.000	-0.418	-0.577	0.282	0.454	152.622078	37.523421	397.83	231

## 2.4 Star Slots

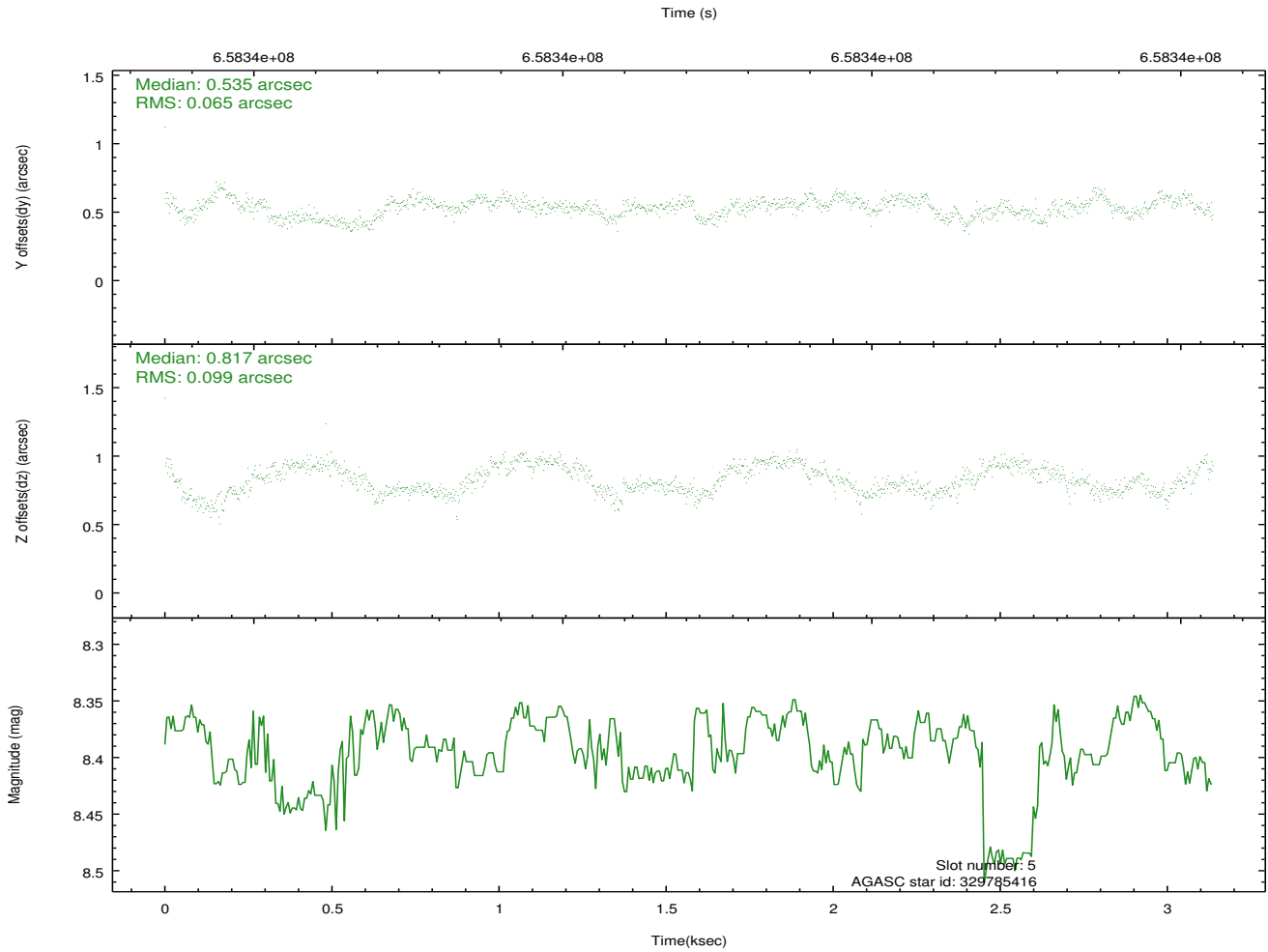
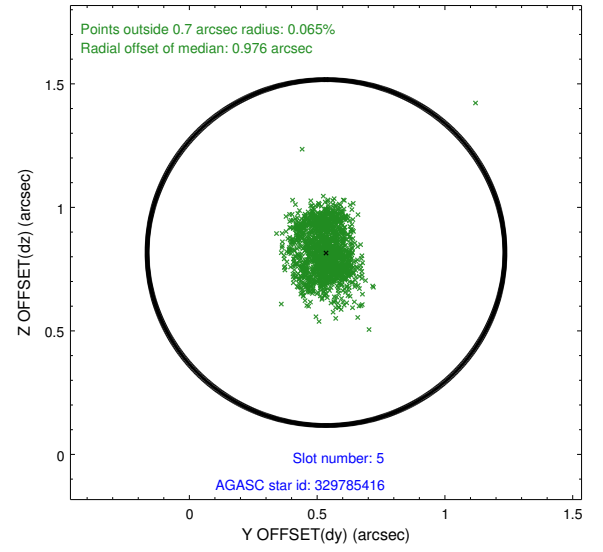
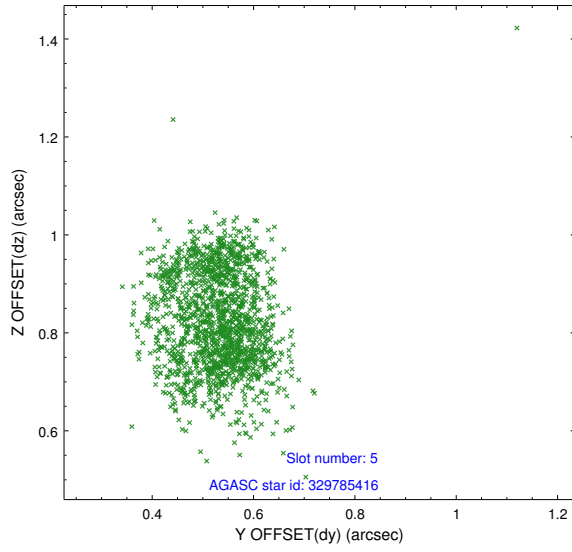
### 2.4.1 Slot 3



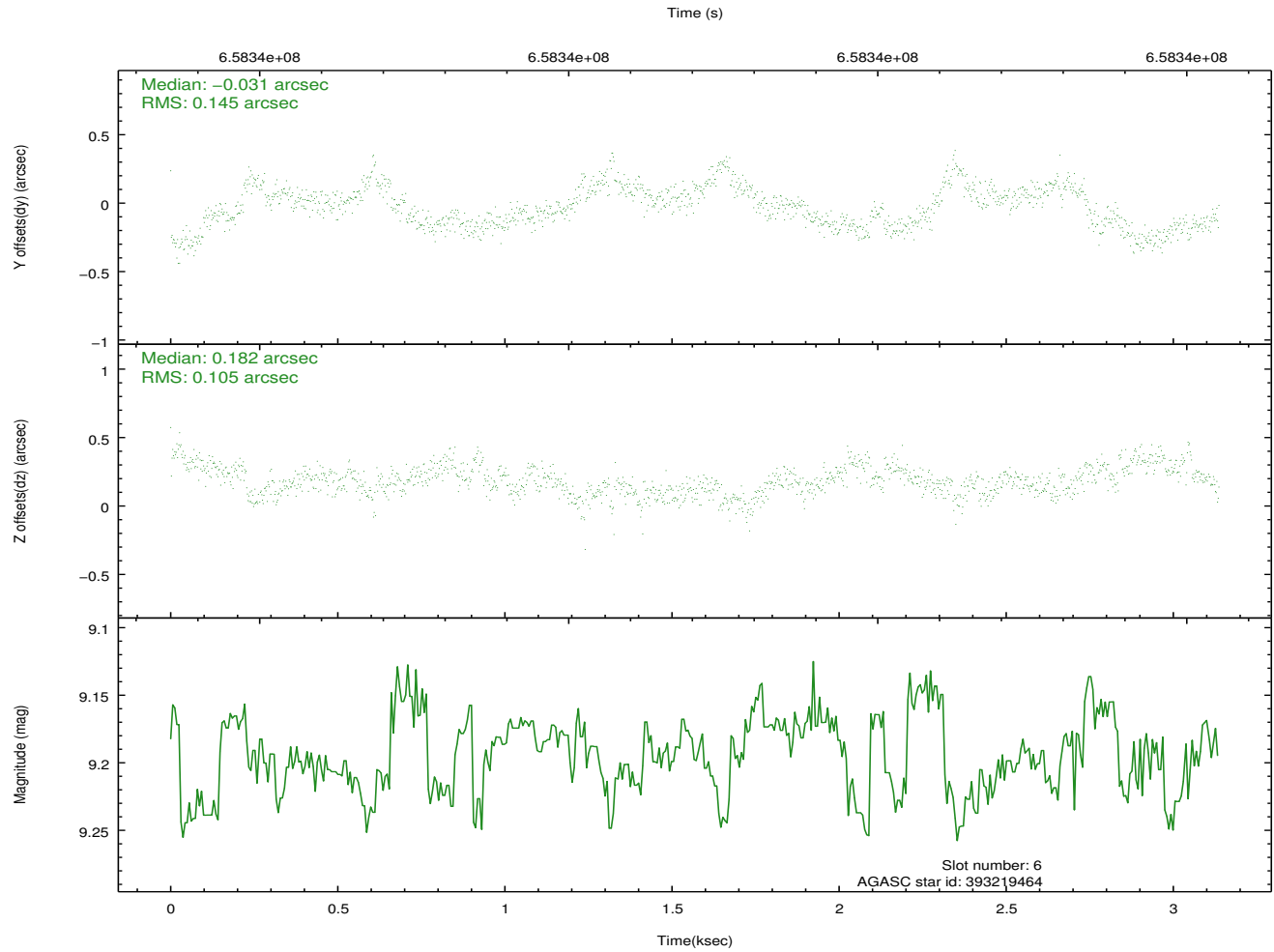
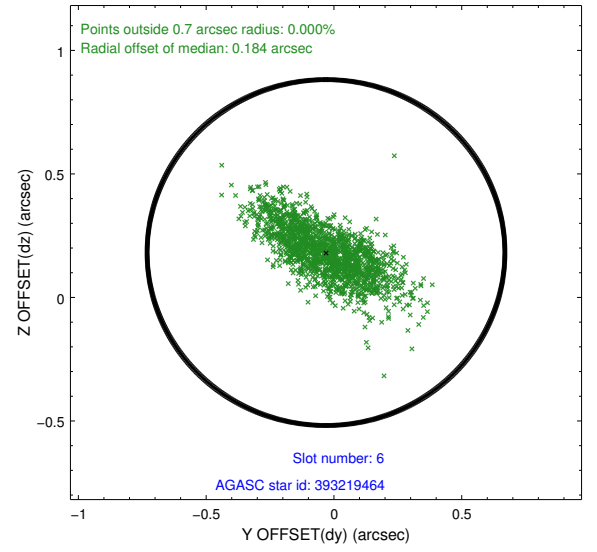
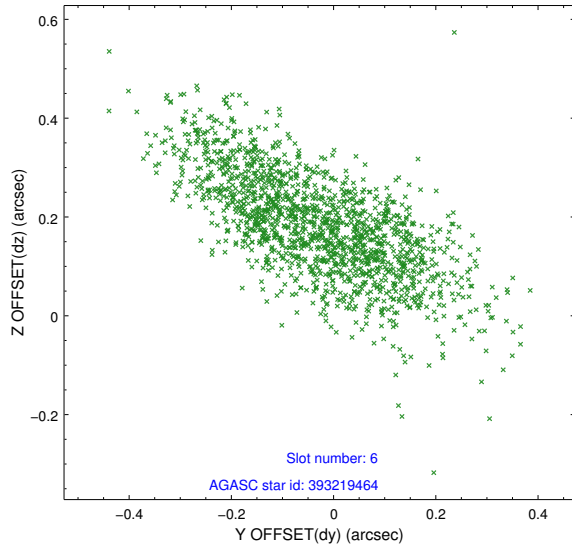
## 2.4.2 Slot 4



### 2.4.3 Slot 5

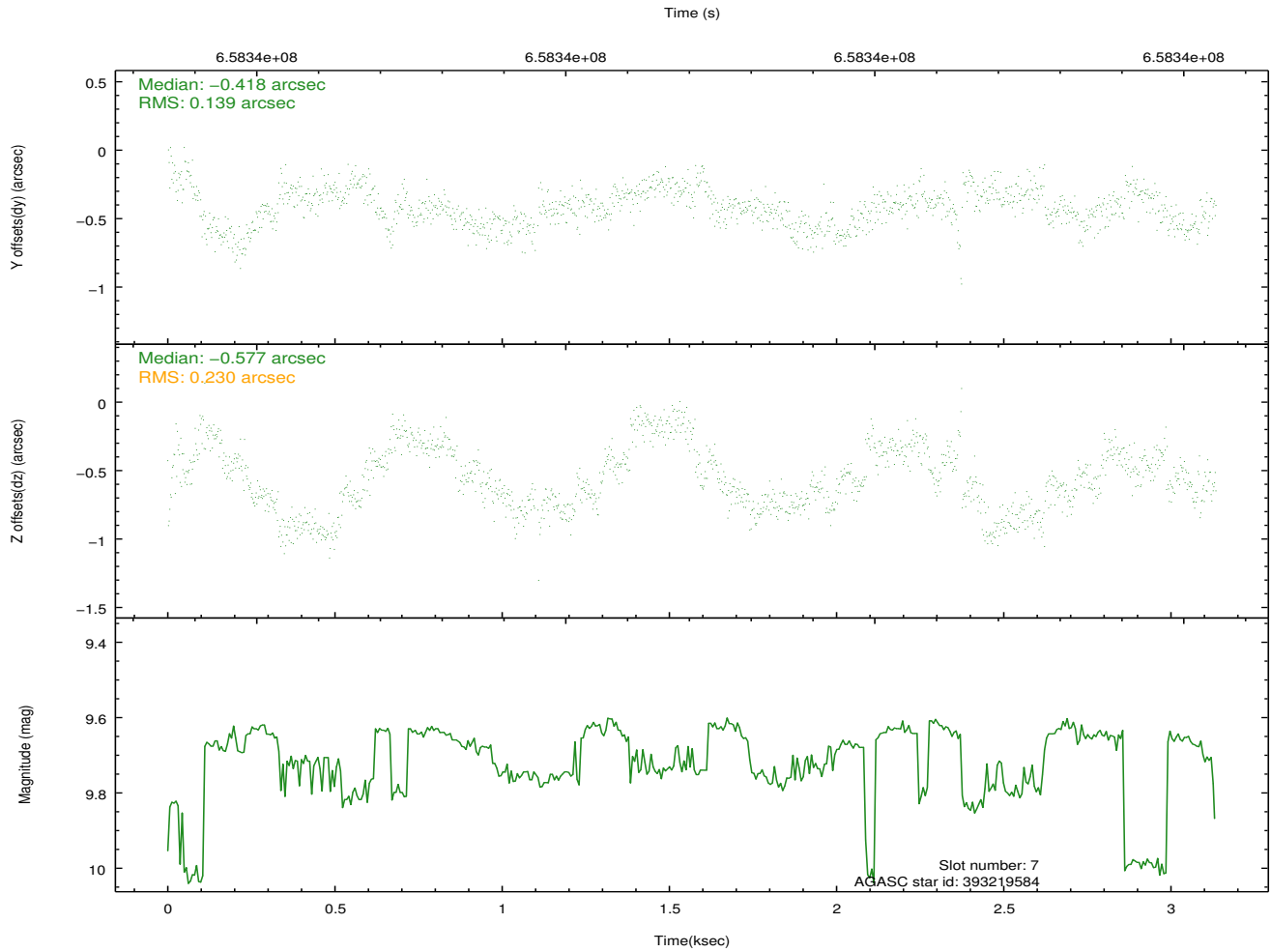
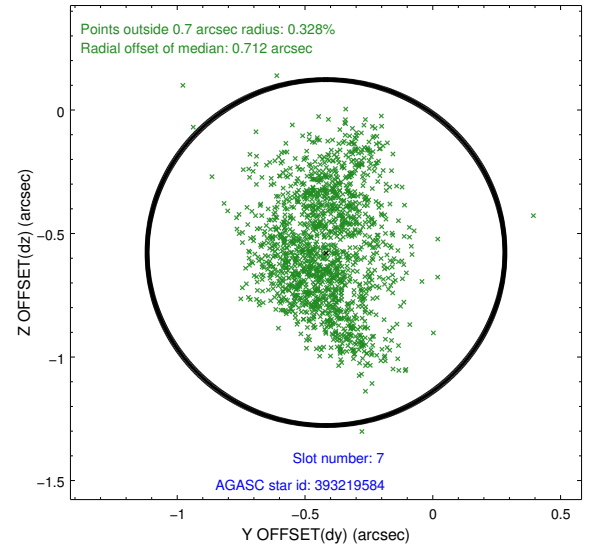
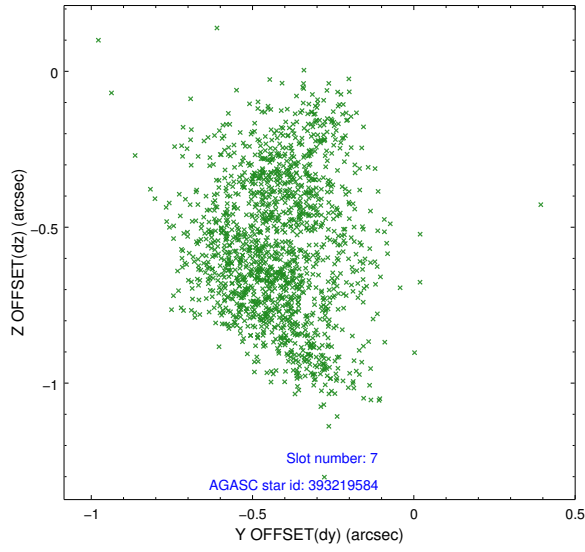


## 2.4.4 Slot 6



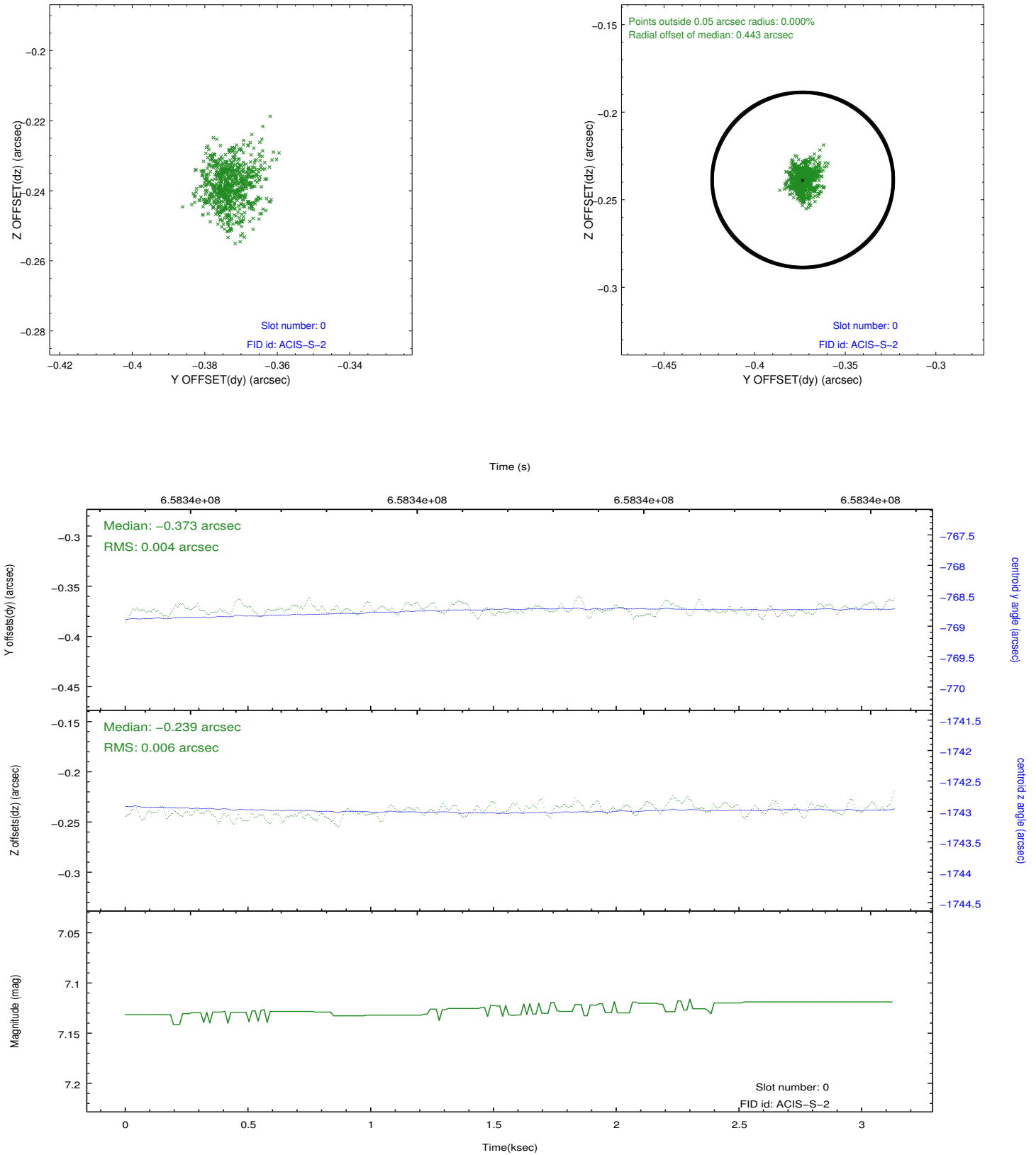


## 2.4.5 Slot 7

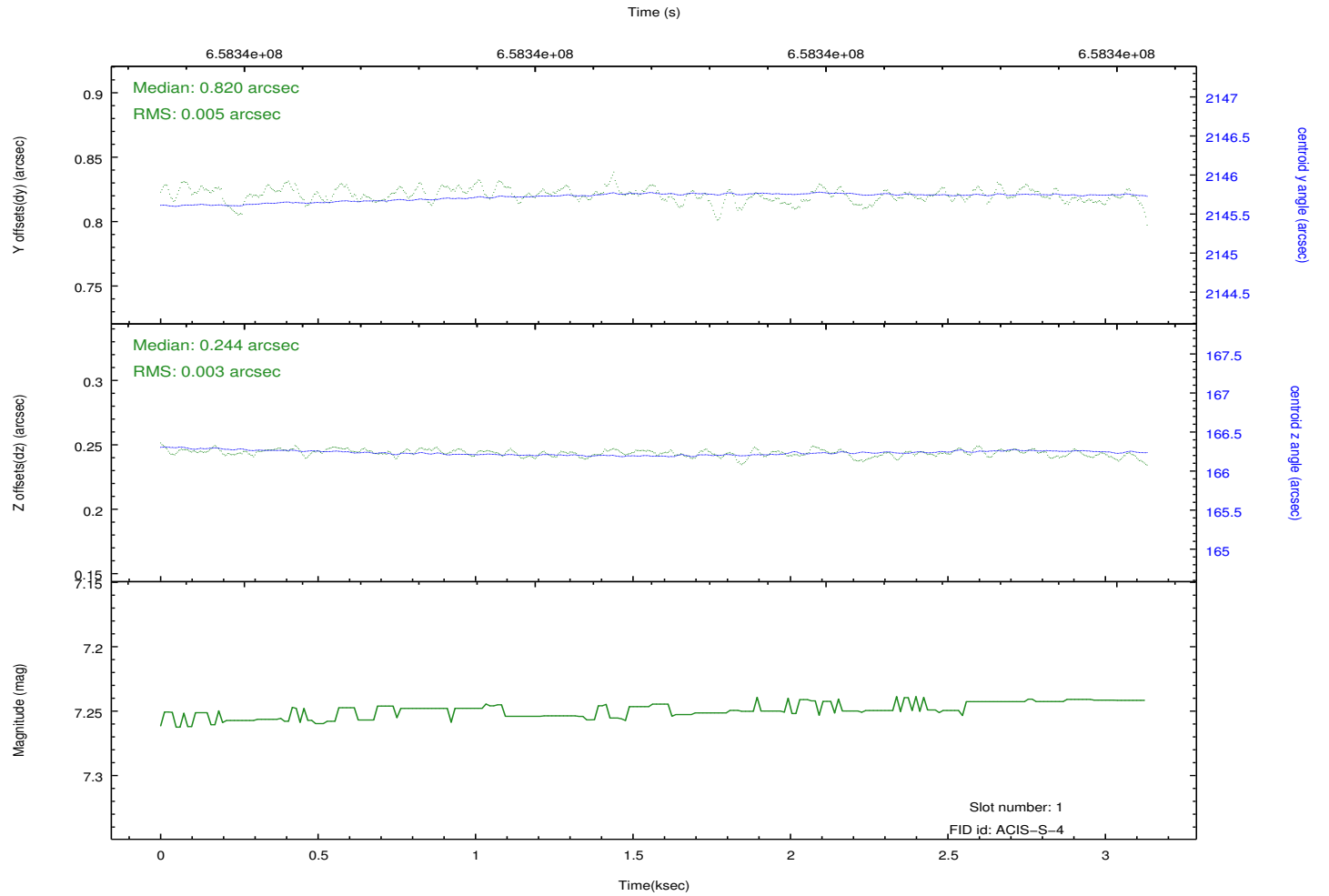
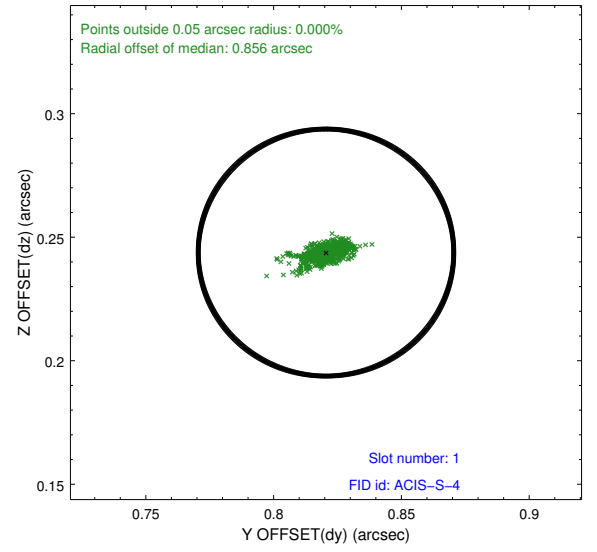
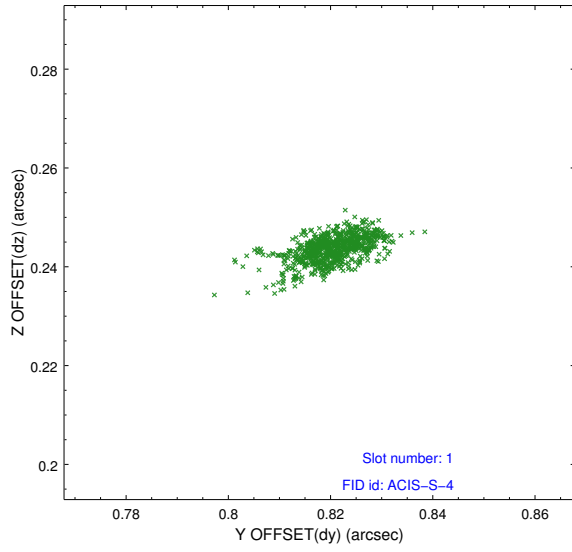


## 2.5 FID Slots

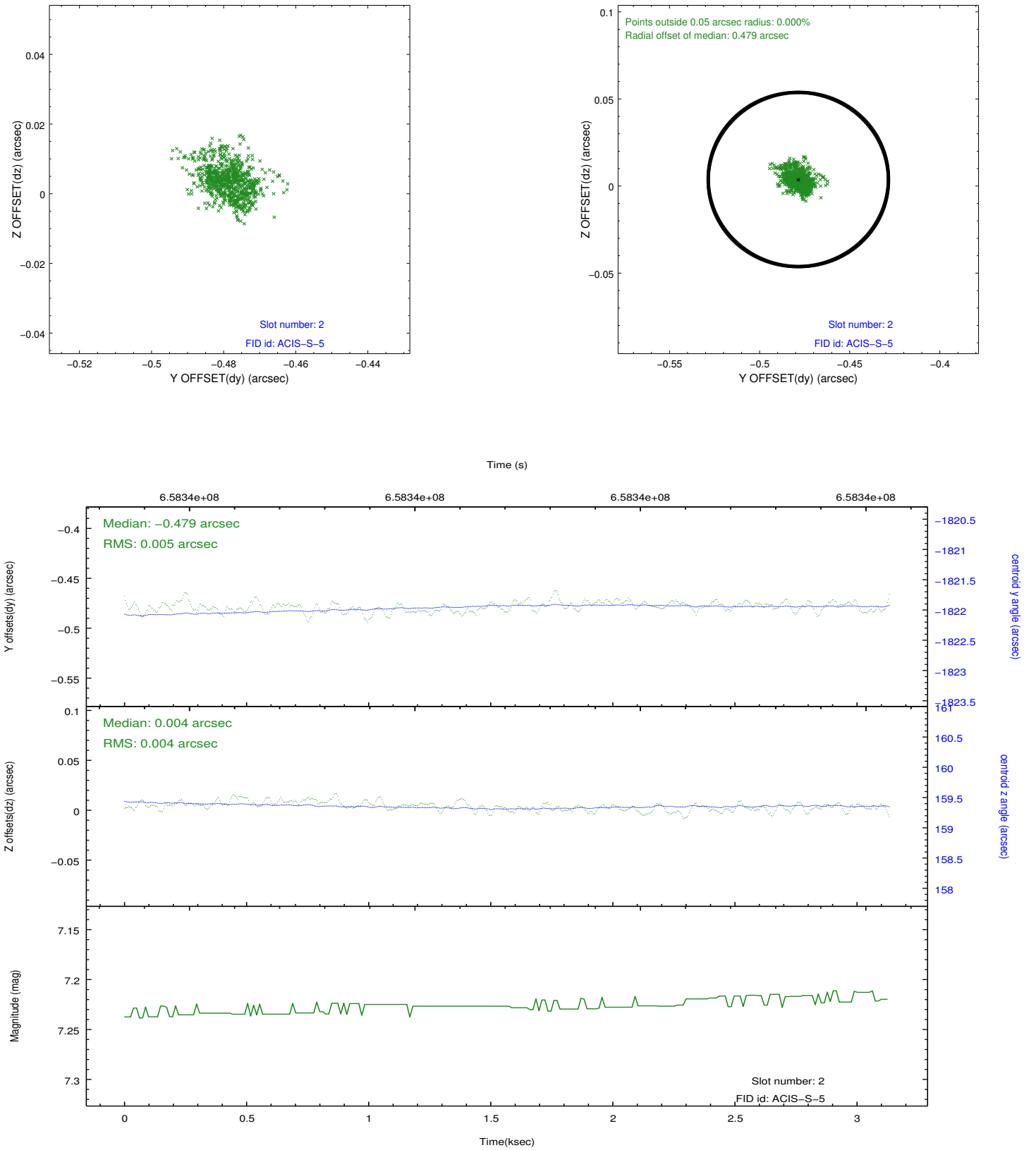
### 2.5.1 Slot 0



## 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)	2018.11.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.9264000226259

### A.2 Comments