

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 6305 - L2 Version 2  
Chandra X-Ray Center

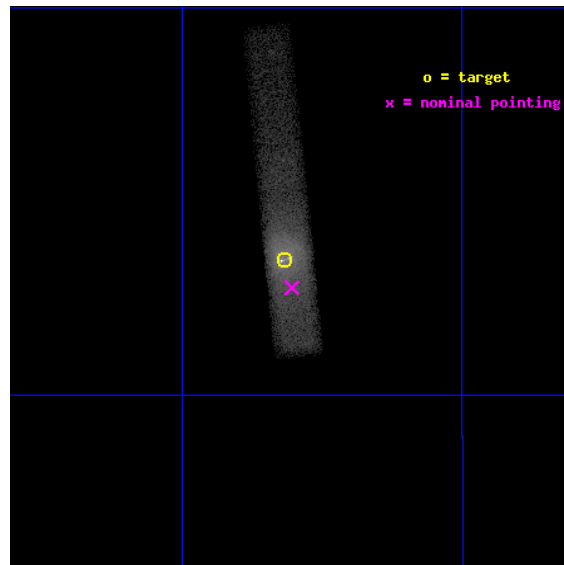
L2 Processing Date : Apr 6 2012

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# 1 Front

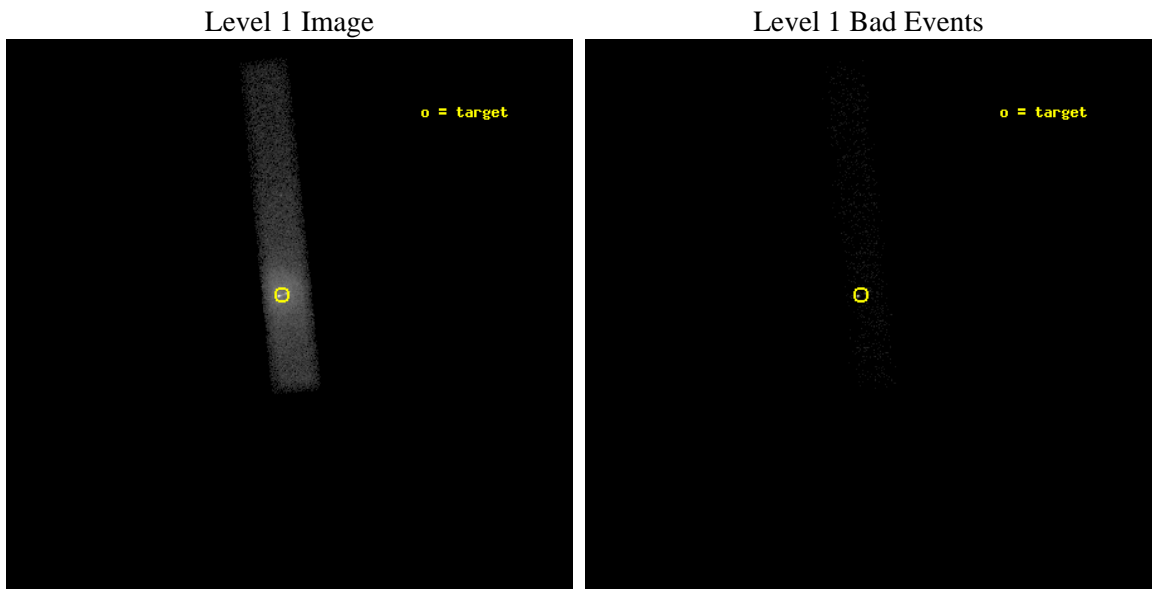
seq_num	701187	Sequence number
obs_id	6305	Observation id
title	HST / Chandra Monitoring of a Dramatic Flare in the M87 Jet	Propos
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.70115308397	Nominal RA [deg]
dec_nom	12.379576397837	Nominal Dec [deg]
roll_nom	264.15727861489	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5130.3996942043	Sum of GTIs [s]
liveltime	4653.0017179434	Livetime [s]
ontime7	5130.3996942043	Sum of GTIs [s]
l2events	56730	Number of level 2 events



## 2 OBI

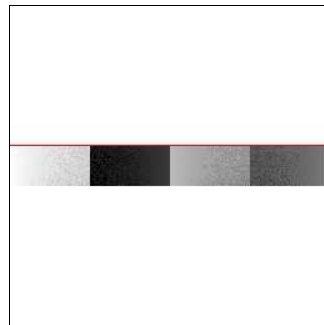
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4986.038000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	5130.3996942043	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime7	5130.3996942043	Sum of GTIs [s]
date	2012-04-06T17:55:40	Date and time of file creation	l1events	67450	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

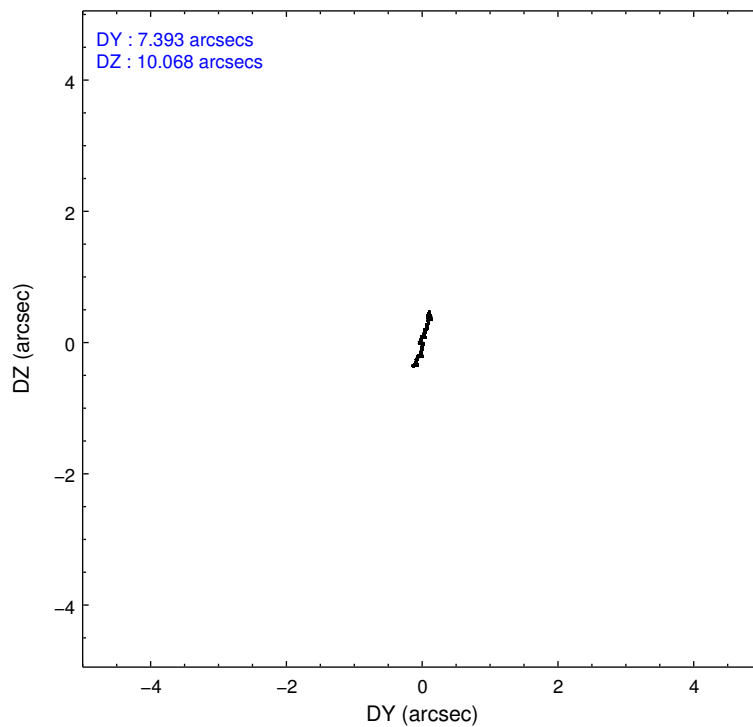
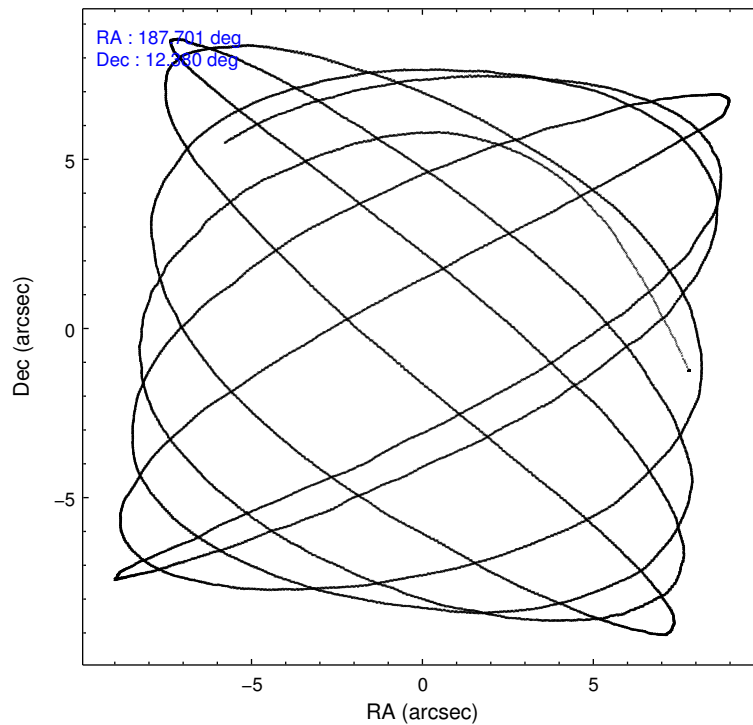
	<b>ccd 7</b>
level 1 events	67450
rejected events	10129
rejected %	15%

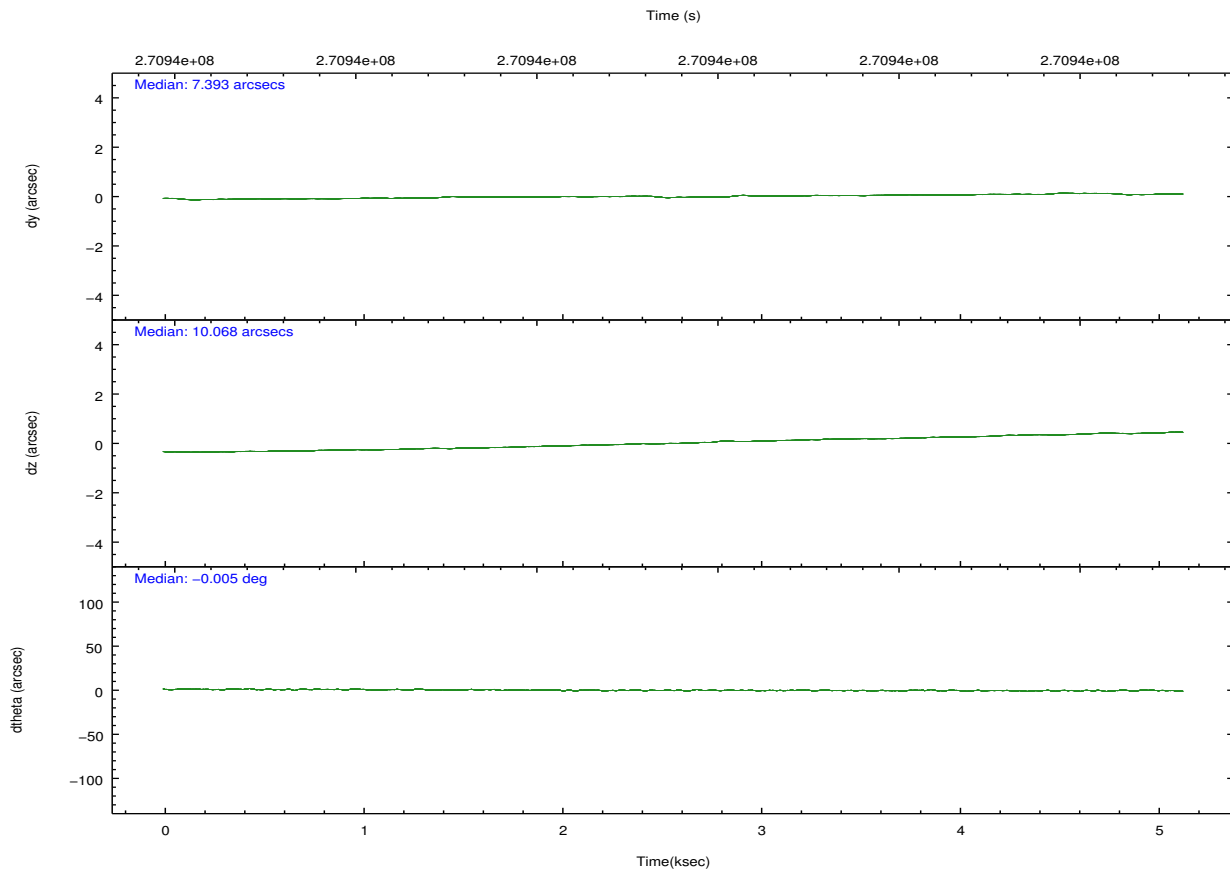
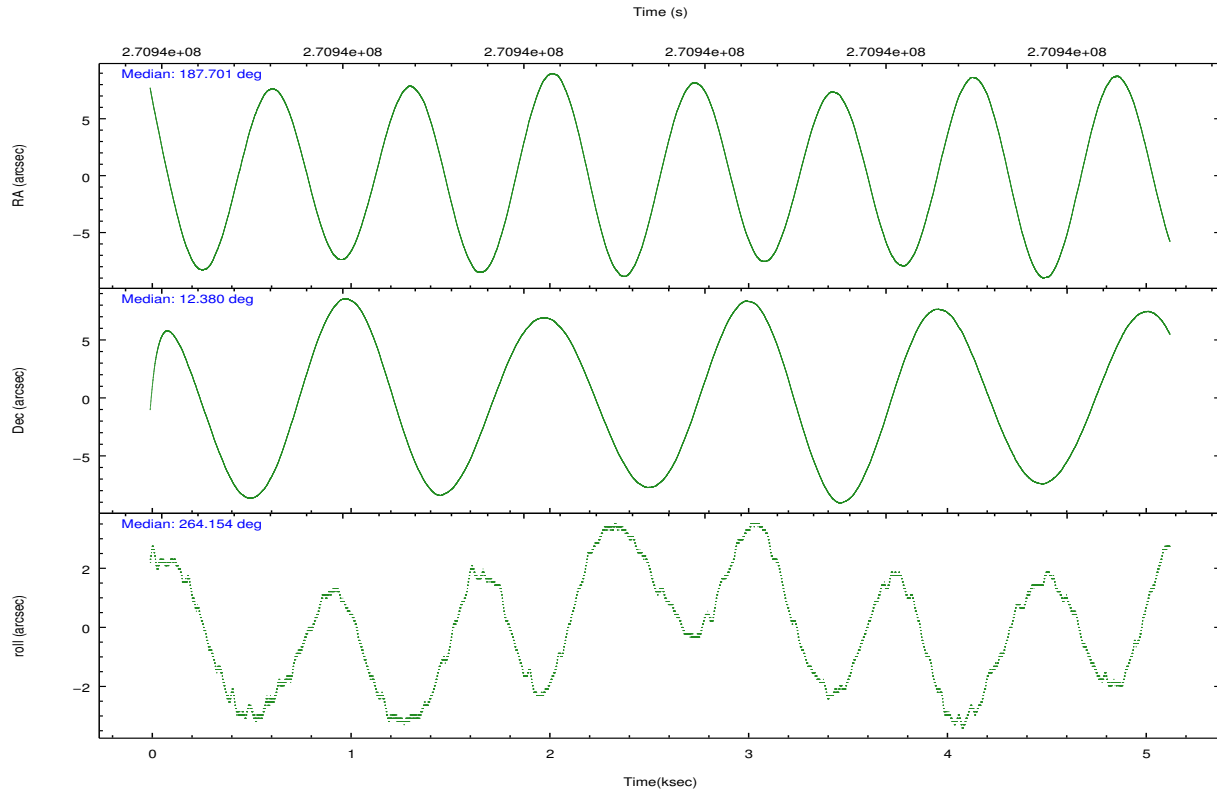
	<b>ccd 7</b>
grade 0 events	18546
	27%
grade 1 events	311
	0%
grade 2 events	15066
	22%
grade 3 events	6963
	10%
grade 4 events	6916
	10%
grade 5 events	1992
	2%
grade 6 events	12346
	18%
grade 7 events	5310
	7%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	187.689390	187.7011530839678	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.404248	12.37957639783733	Subarray start row	449	449
[deg] Pointing Roll	264.003172	264.1572786148918	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	270940325.184000	270939132.10211			
Observation start date	2006-08-02T21:11:00	2006-08-02T20:52:12			
[s] Observation end time (MET)	270945311.184000	270945532.71491			
Observation end date	2006-08-02T22:34:06	2006-08-02T22:38:52			
Read mode	TIMED	TIMED			

## 2.3 Aspect



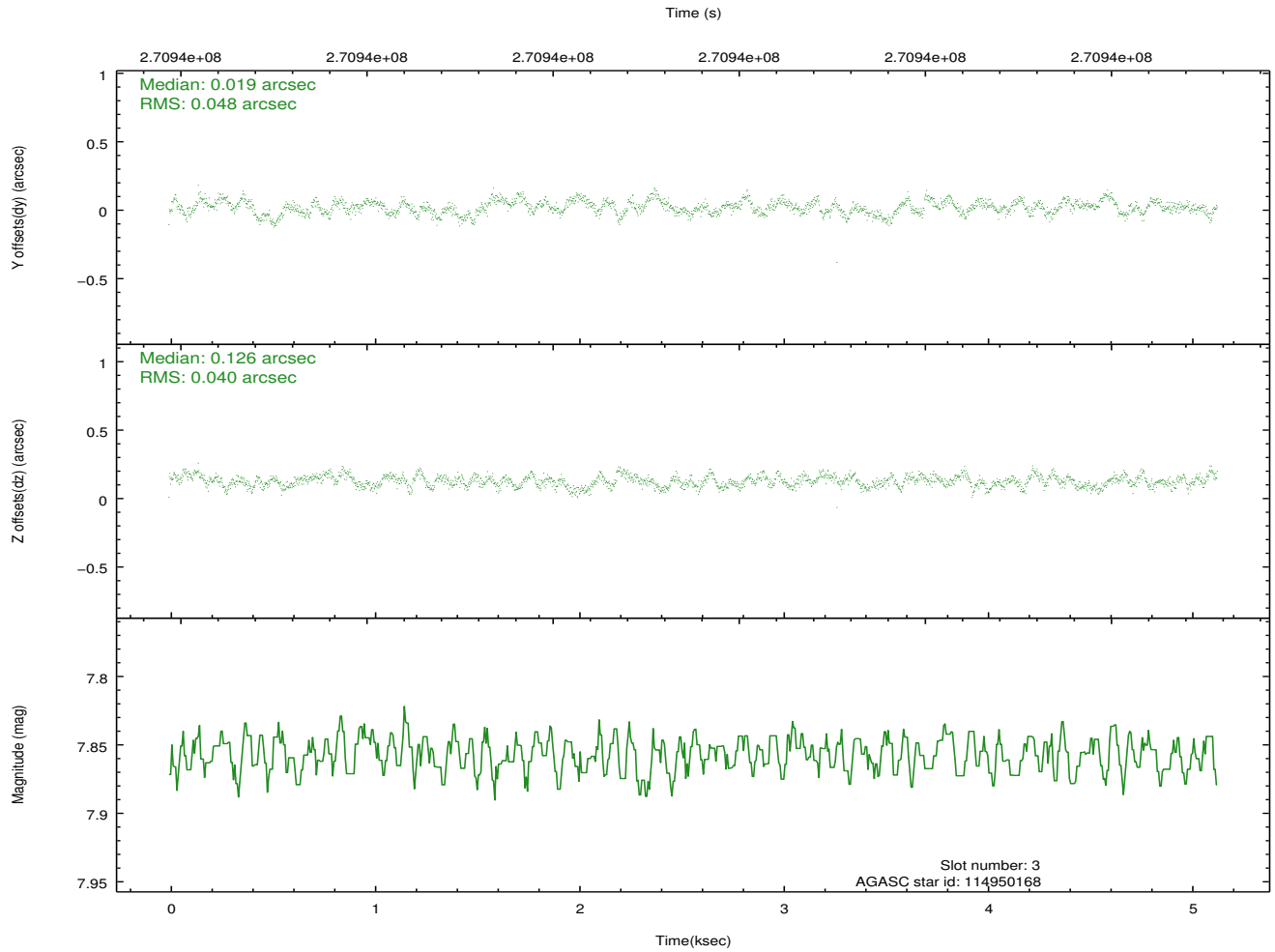
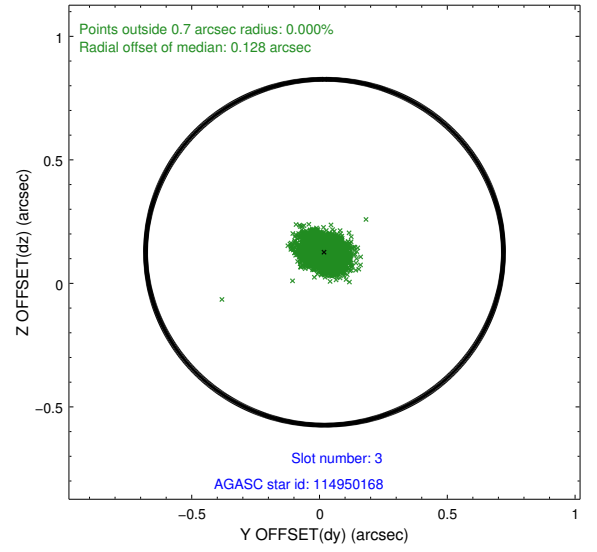
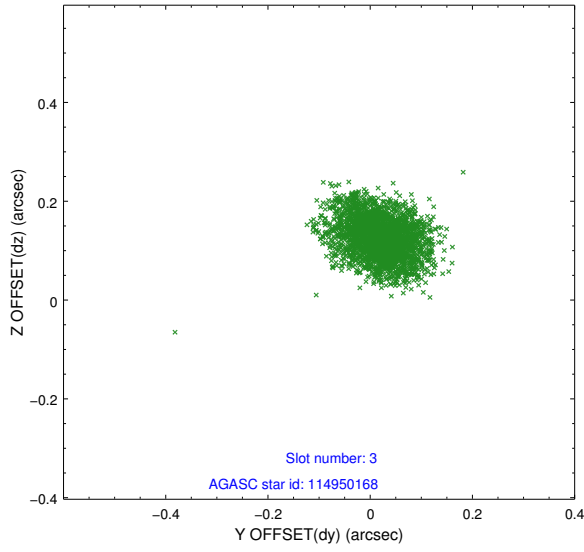


### Slot Statistics

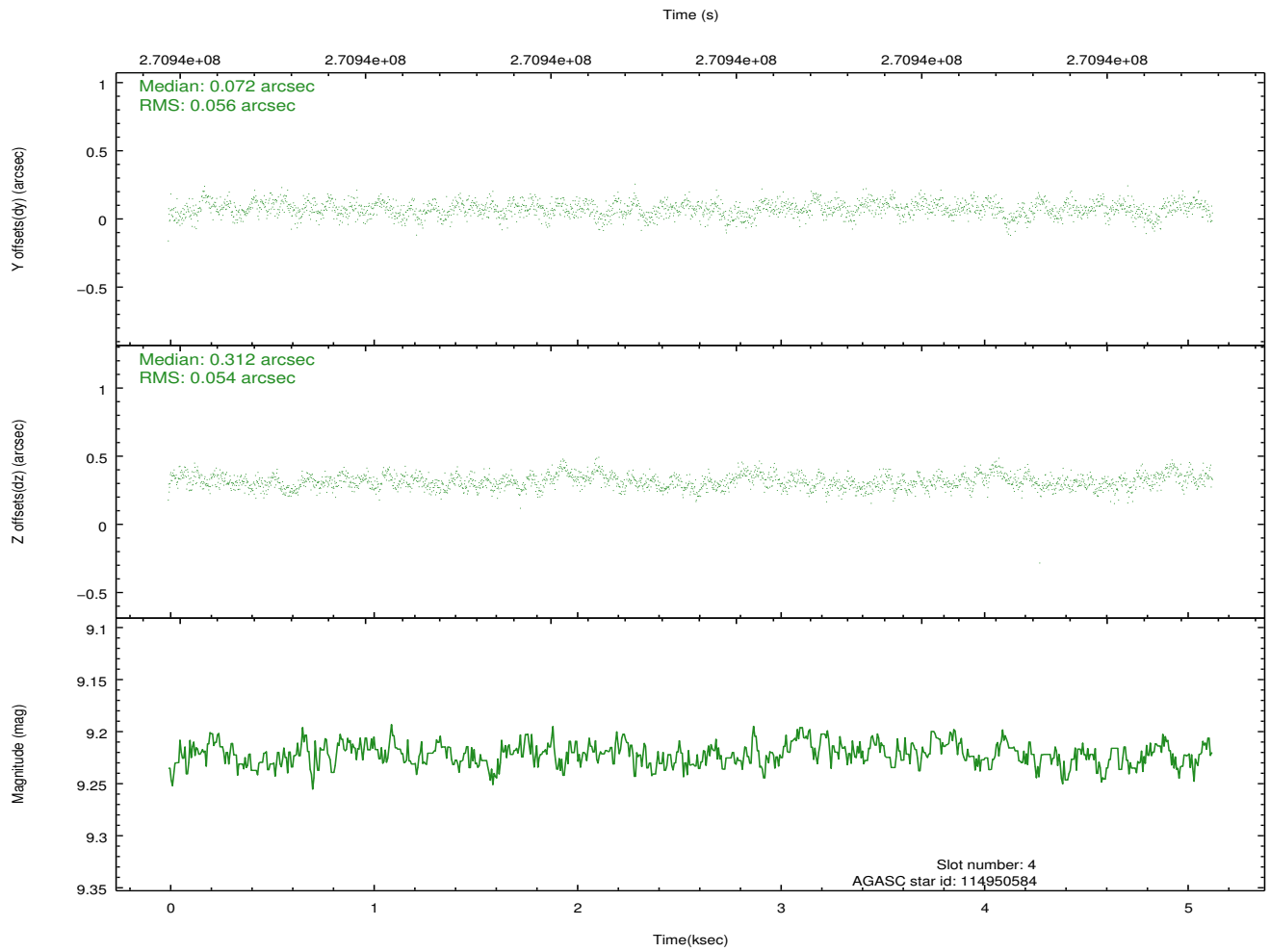
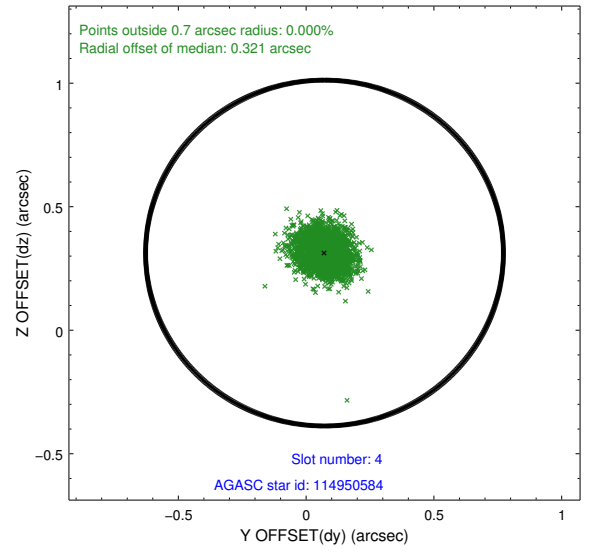
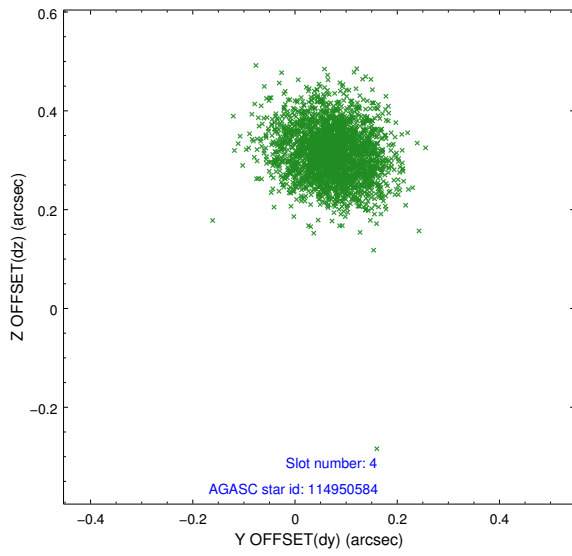
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1252	-0.055	-0.033	0.008	0.013	0.000000	0.000000	-760.17	-1731.33
1	FID	ACIS-S-4	7.21	1252	0.117	0.036	0.006	0.010	0.000000	0.000000	2152.69	176.06
2	FID	ACIS-S-5	7.23	1252	-0.093	0.006	0.007	0.012	0.000000	0.000000	-1811.58	170.96
3	GUIDE	114950168	7.86	2500	0.019	0.126	0.066	0.106	187.143398	12.117441	1226.51	-1803.23
4	GUIDE	114950584	9.22	2503	0.072	0.312	0.083	0.133	187.487323	11.827248	2141.15	-491.50
5	GUIDE	114955056	8.32	2504	0.007	-0.154	0.066	0.105	187.914001	12.127854	908.00	889.91
6	GUIDE	114955568	7.55	2503	0.178	-0.261	0.070	0.119	187.061916	11.826551	2298.03	-1981.68
7	GUIDE	115348424	9.50	2502	-0.282	-0.019	0.100	0.161	187.199498	13.087929	-2268.54	-1966.65

## 2.4 Star Slots

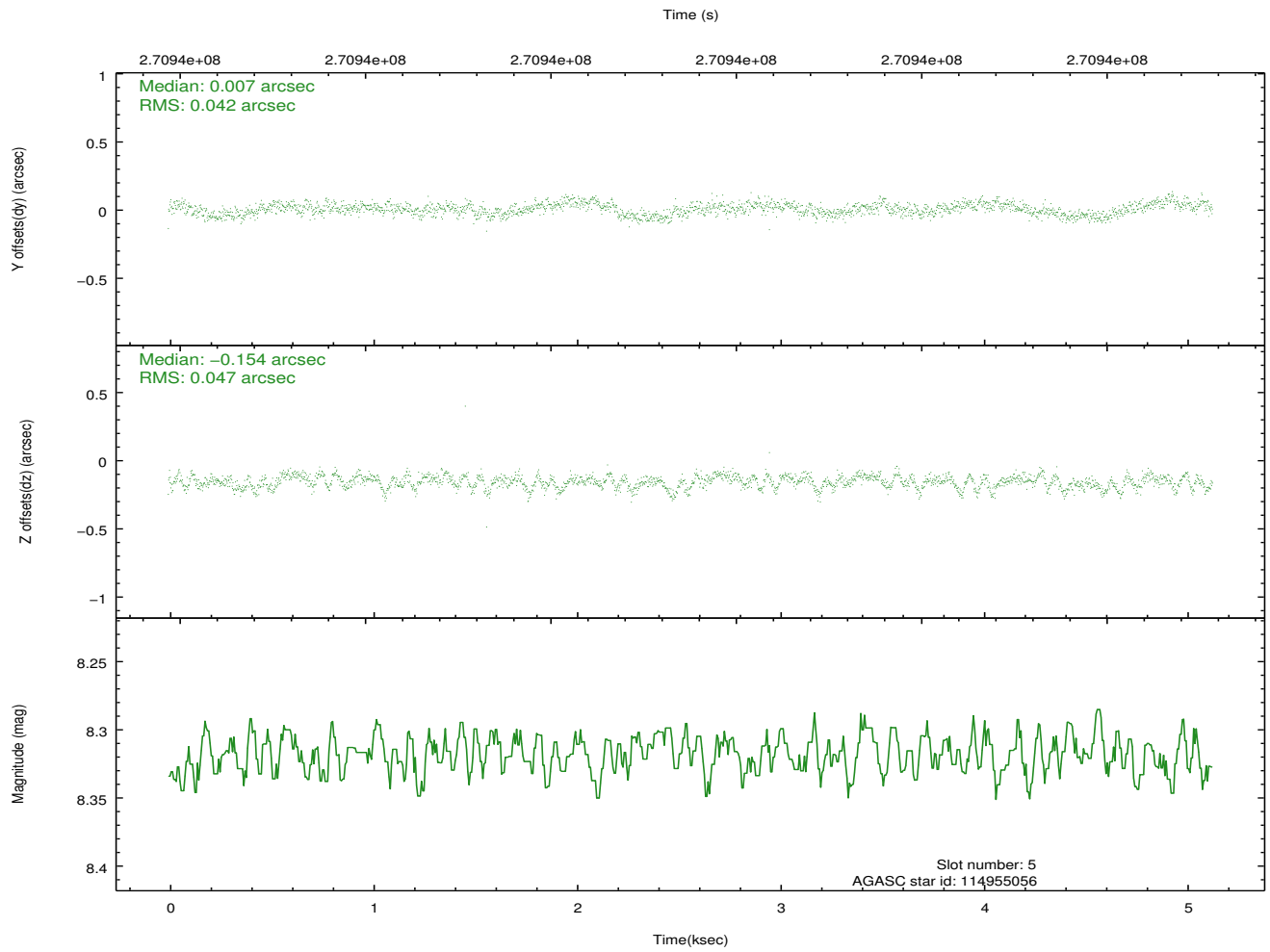
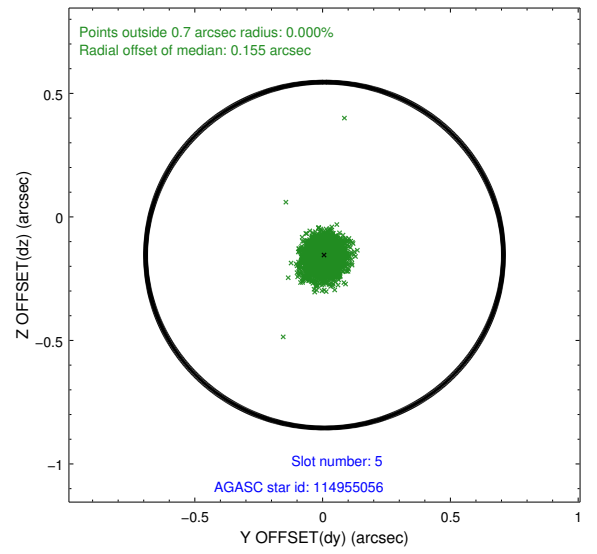
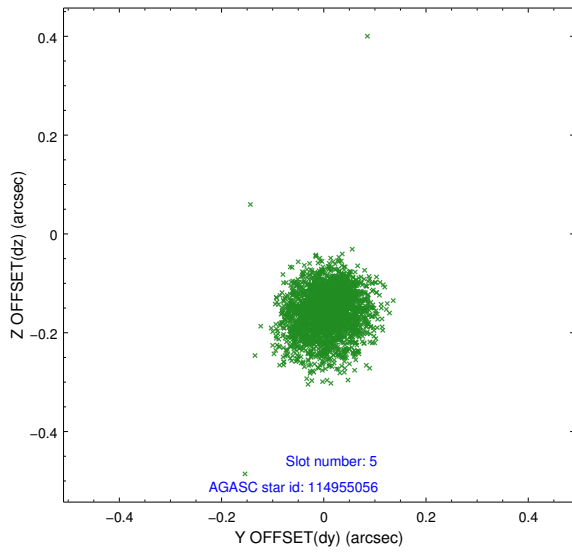
### 2.4.1 Slot 3



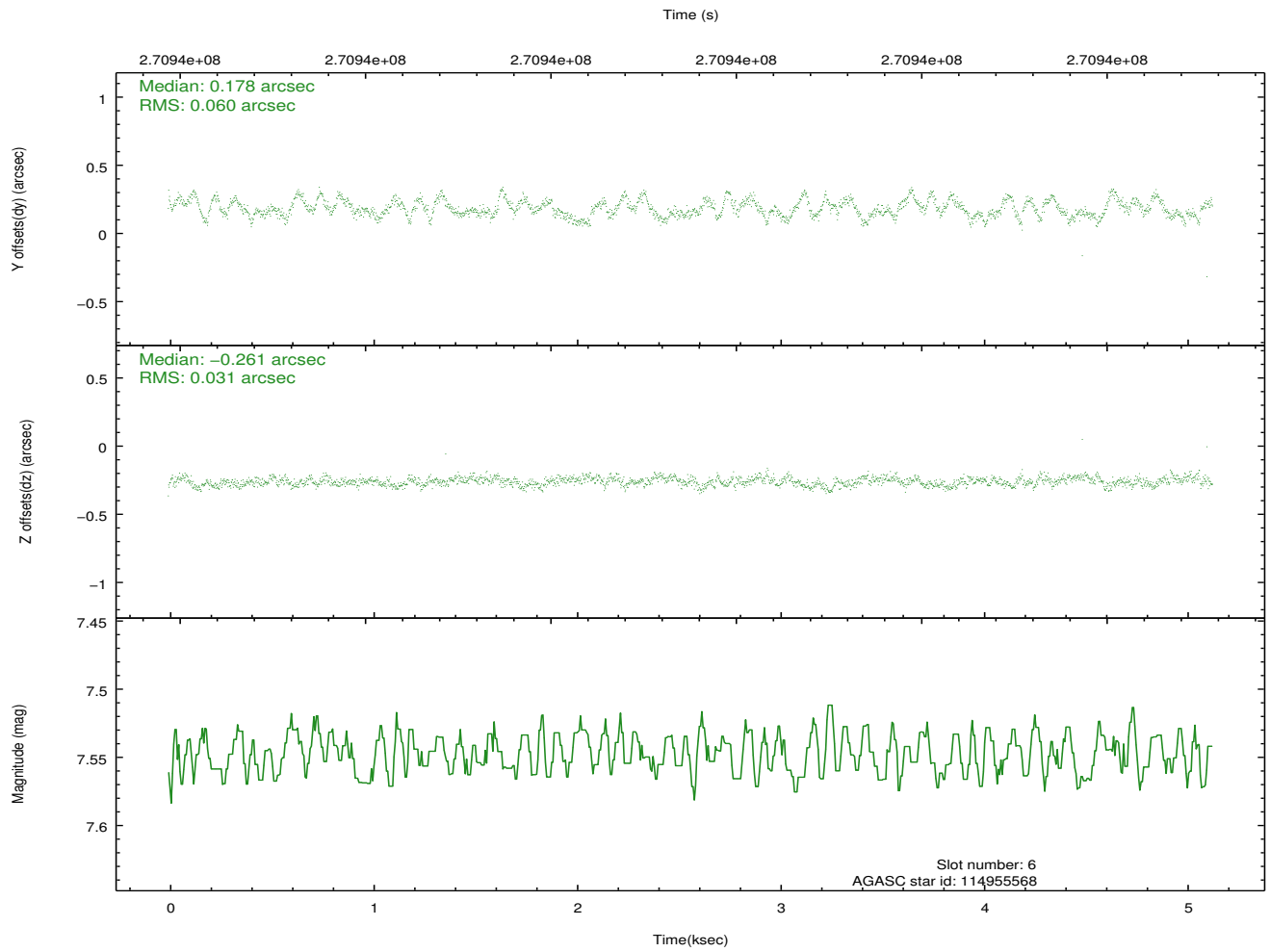
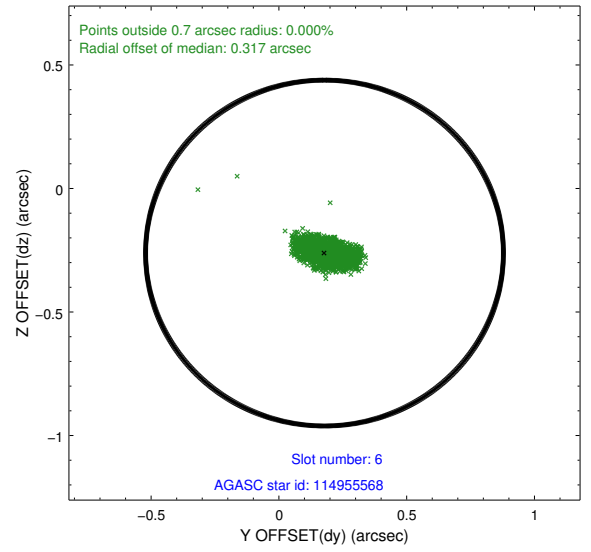
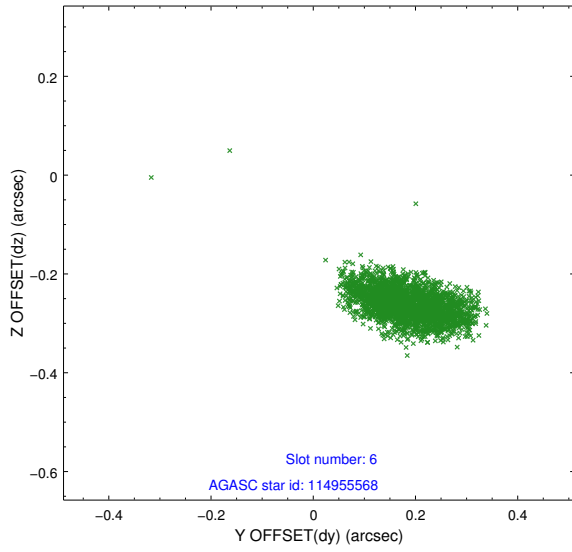
### 2.4.2 Slot 4



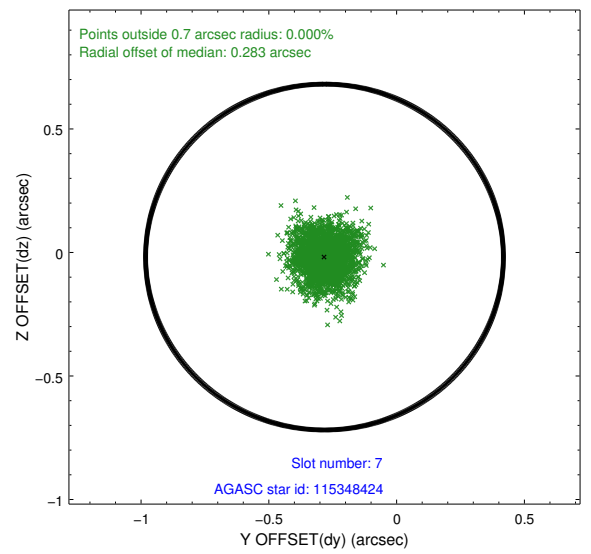
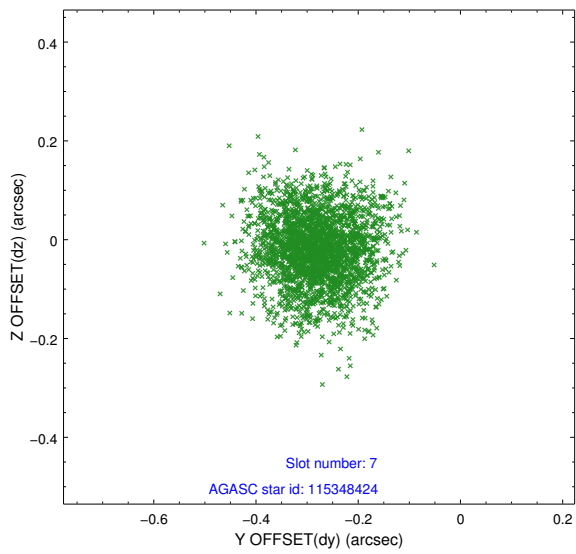
### 2.4.3 Slot 5



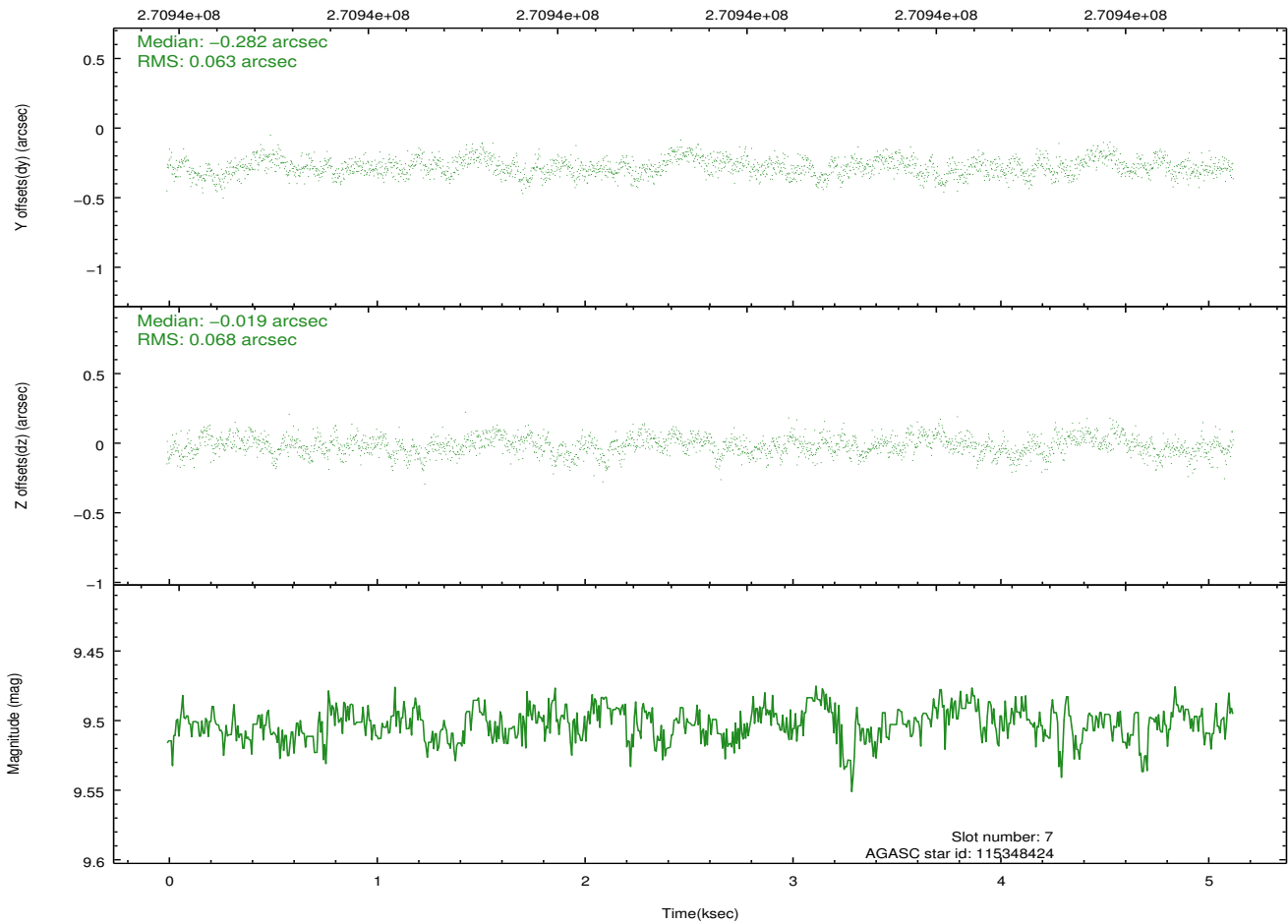
### 2.4.4 Slot 6



### 2.4.5 Slot 7

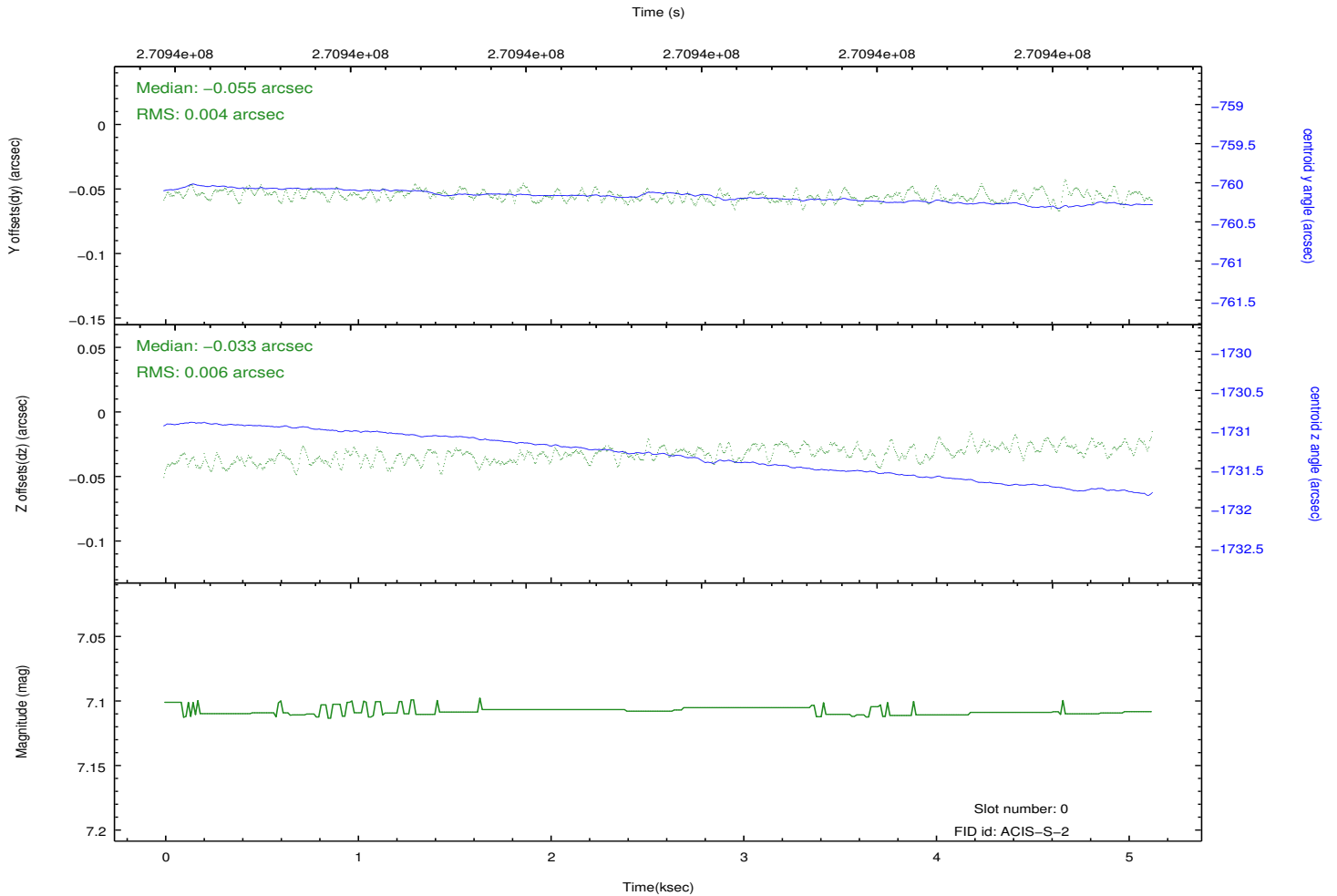
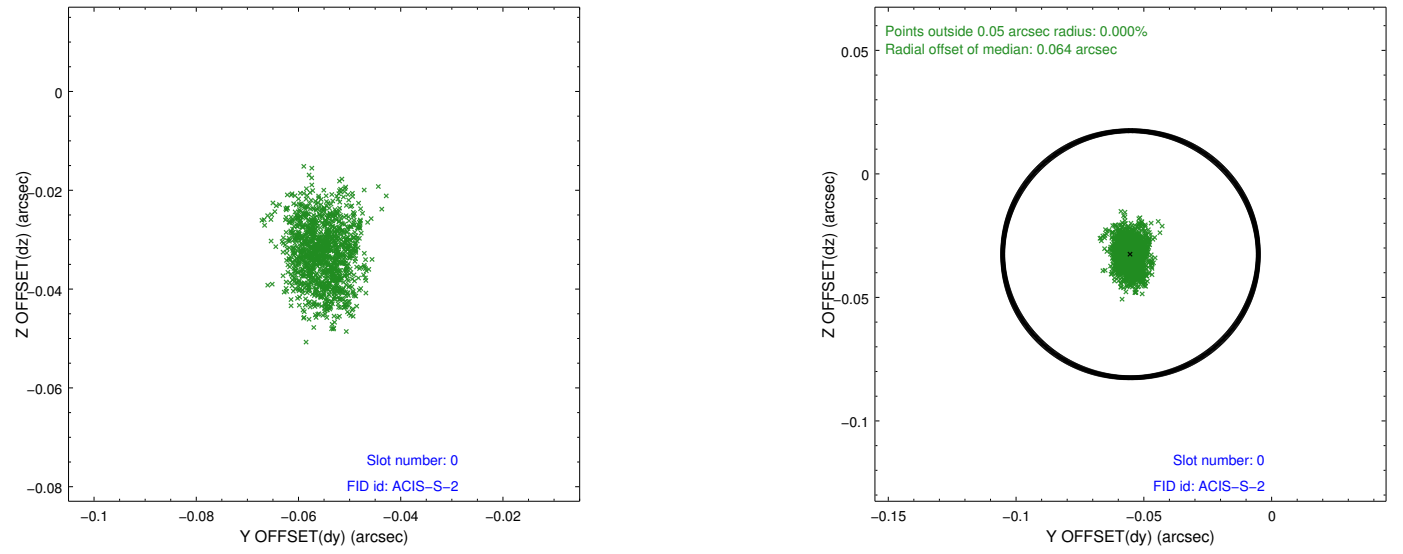


Time (s)

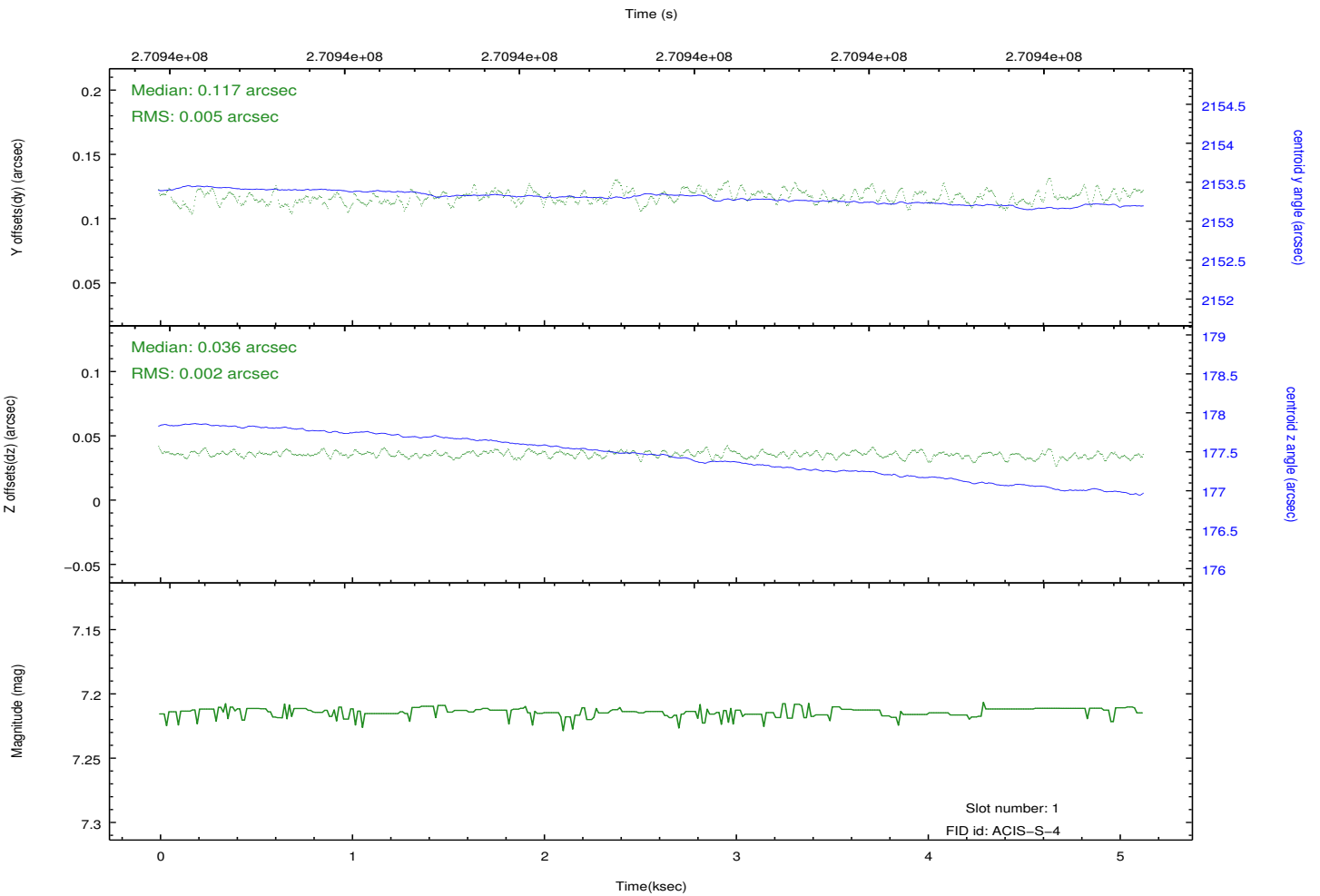
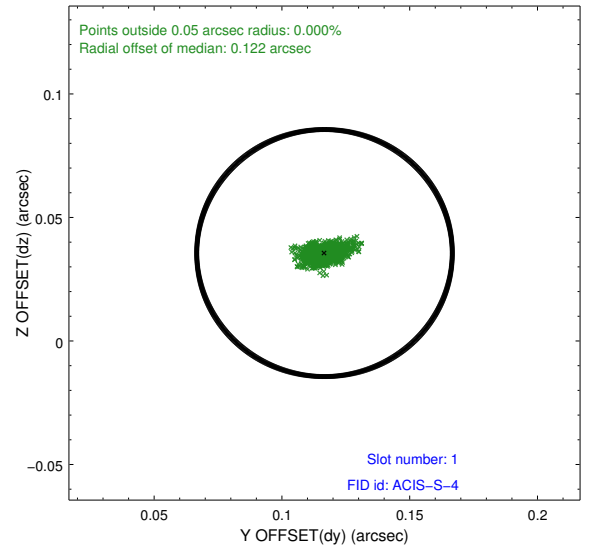
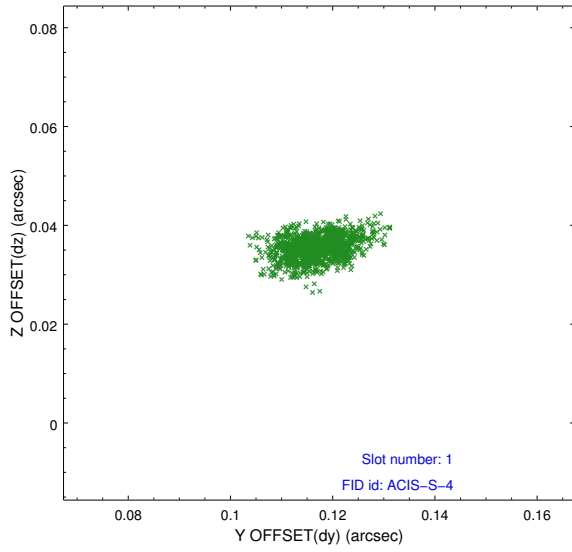


## 2.5 FID Slots

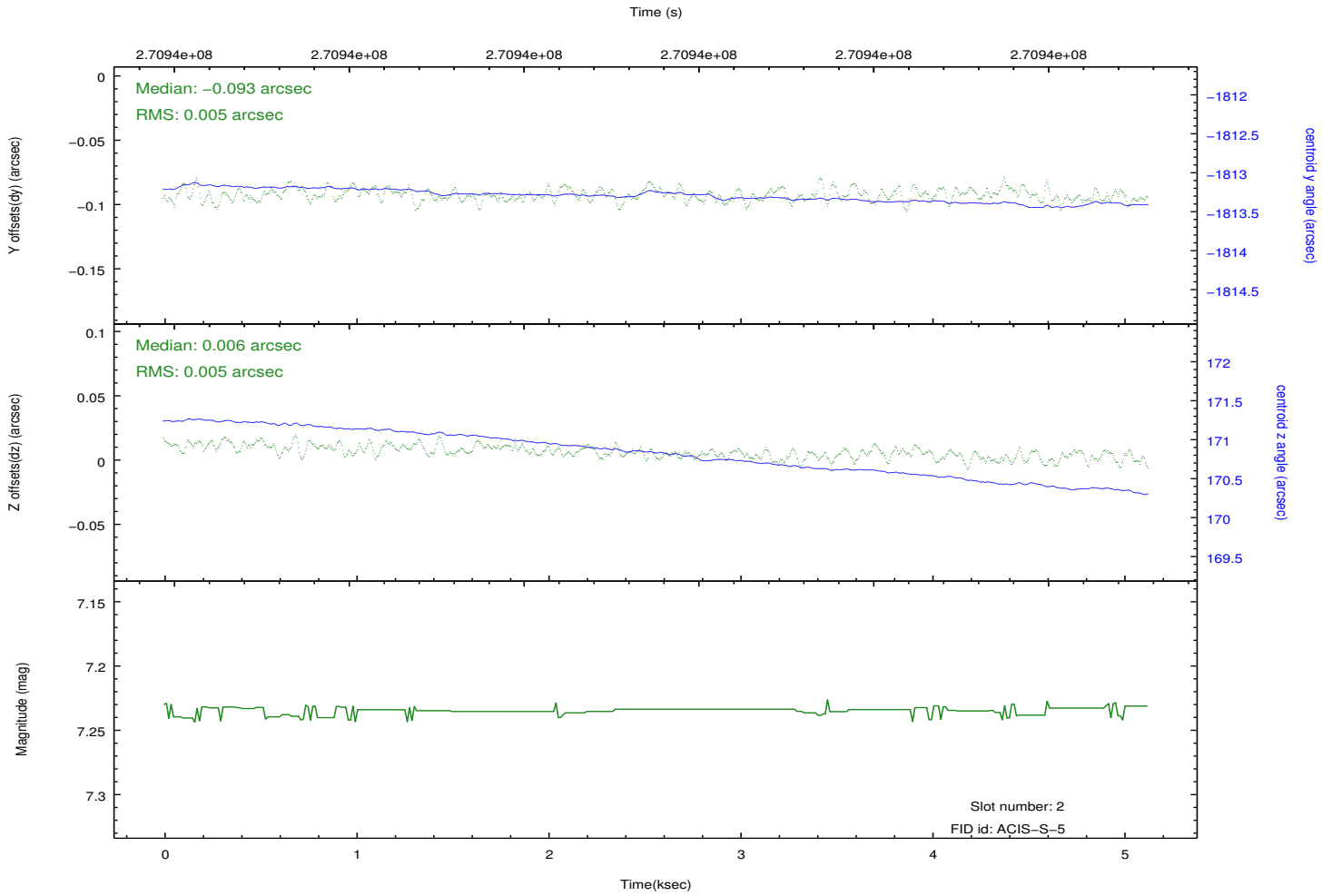
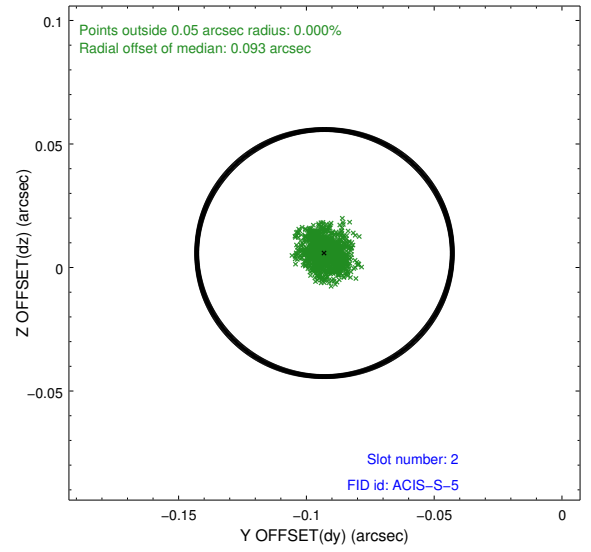
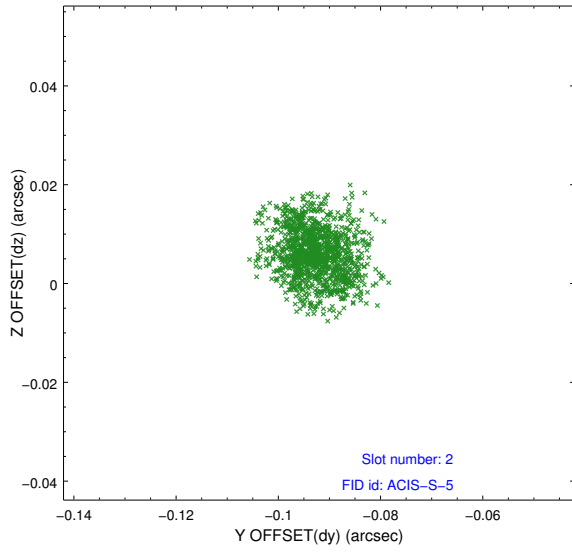
### 2.5.1 Slot 0



## 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)	2012.04.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.13039969

## A.2 Comments

Roll preference to avoid readout streak aligning with jet was met.