

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10283 - L2 Version 2  
Chandra X-Ray Center

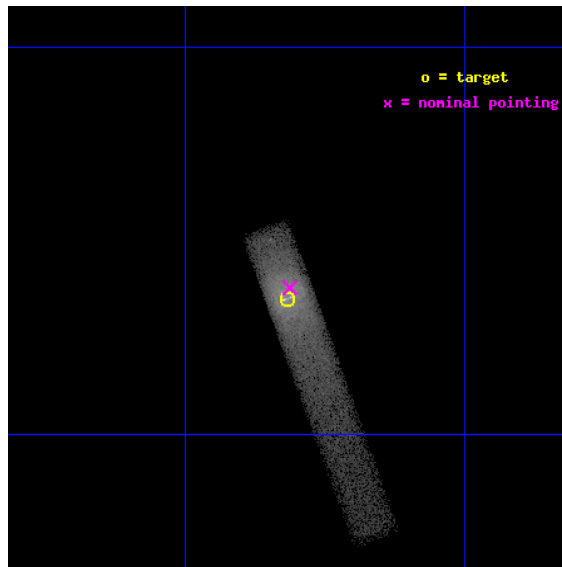
L2 Processing Date : May 28 2012

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# 1 Front

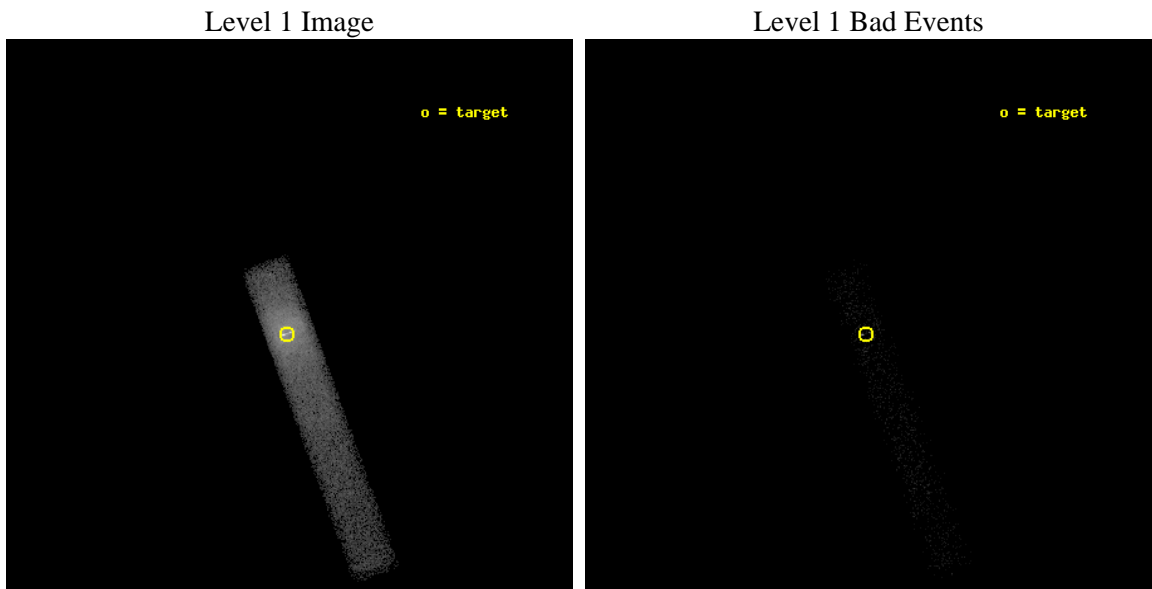
seq_num	701826	Sequence number
obs_id	10283	Observation id
title	Tracking the Aftermath of the Giant Flare in the M87 Jet	Proposal
observer	Dr. Daniel Harris	Principal investigator
object	M87	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.70317501786	Nominal RA [deg]
dec_nom	12.396336049917	Nominal Dec [deg]
roll_nom	69.931498374659	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5187.5996907949	Sum of GTIs [s]
livetime	4704.8790955877	Livetime [s]
ontime7	5187.5996907949	Sum of GTIs [s]
l2events	51954	Number of level 2 events



## 2 OBI

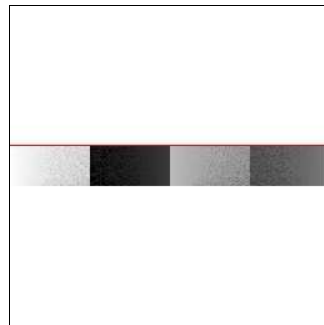
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5187.5996907949	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime7	5187.5996907949	Sum of GTIs [s]
date	2012-05-28T12:15:51	Date and time of file creation	l1events	60475	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

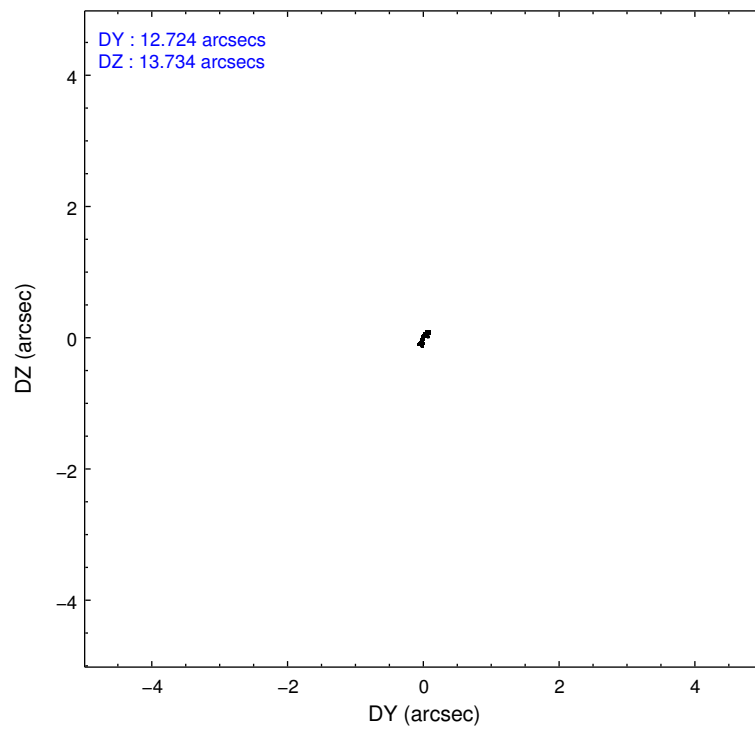
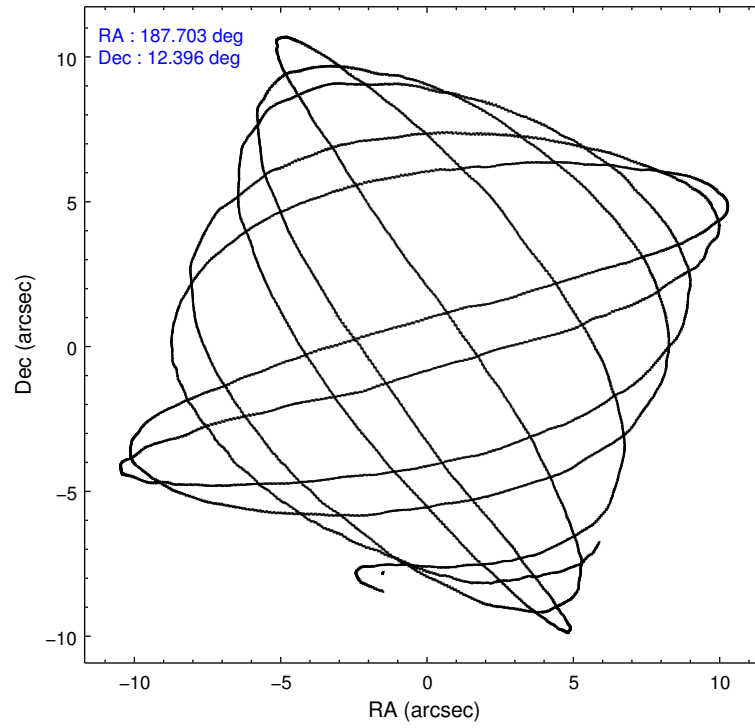
	<b>ccd 7</b>
level 1 events	60475
rejected events	7831
rejected %	12%

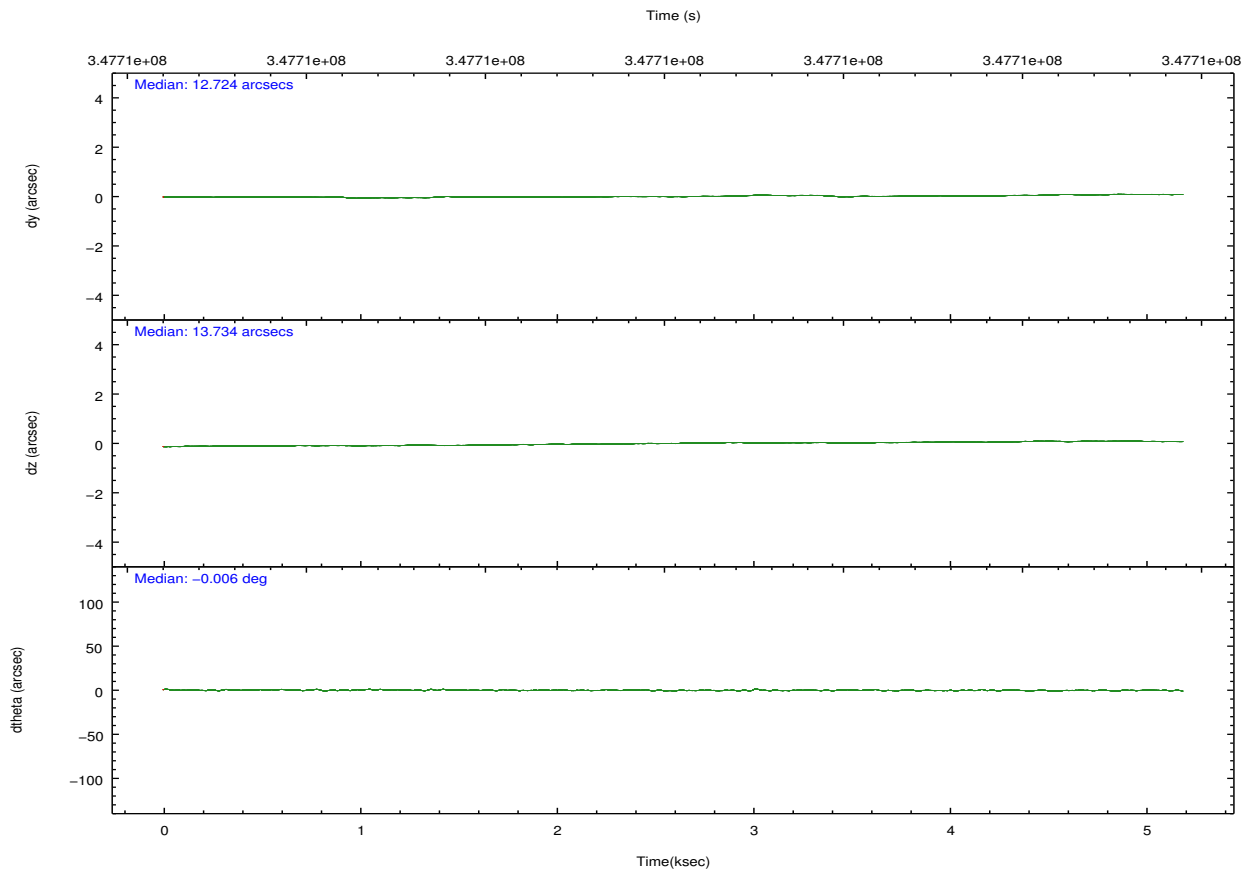
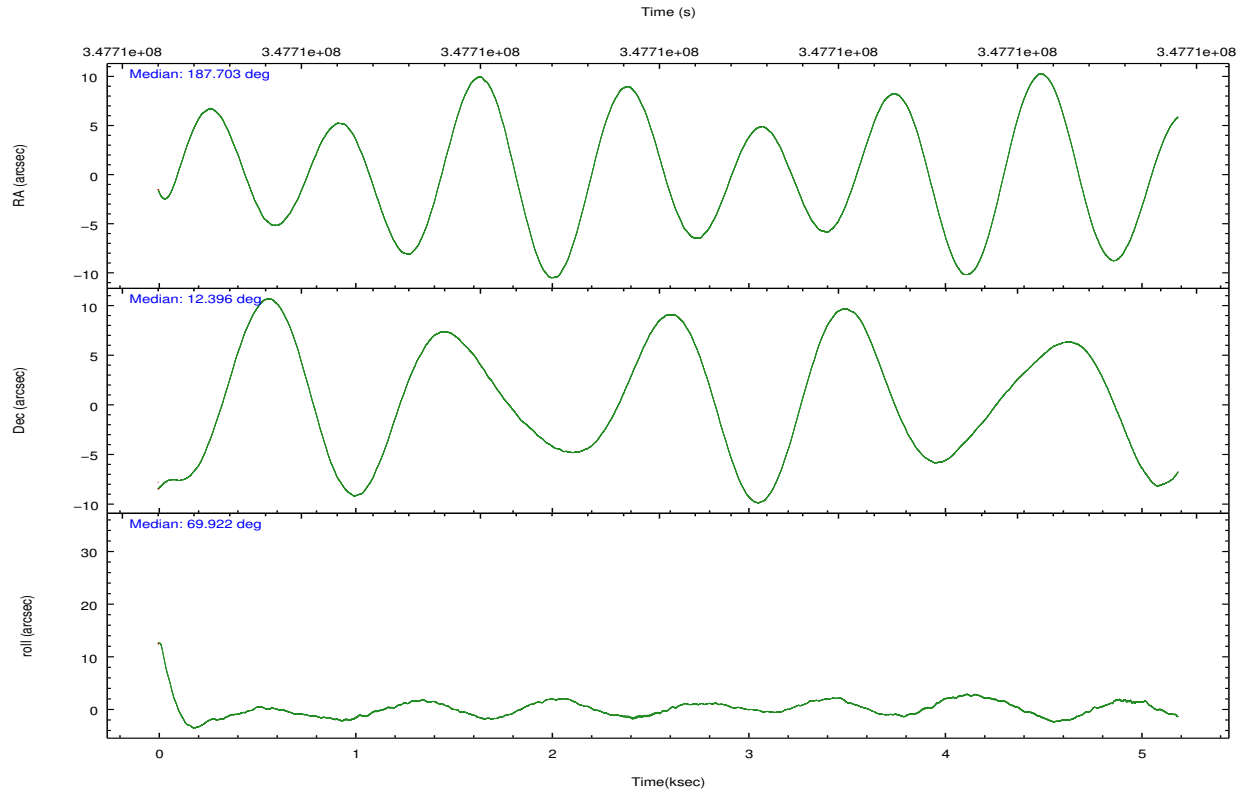
	<b>ccd 7</b>
grade 0 events	16358
	27%
grade 1 events	47
	0%
grade 2 events	13881
	22%
grade 3 events	6394
	10%
grade 4 events	6201
	10%
grade 5 events	1394
	2%
grade 6 events	11338
	18%
grade 7 events	4862
	8%

## 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	187.708371	187.7031750178611	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.369555	12.39633604991718	Subarray start row	449	449
[deg] Pointing Roll	69.773729	69.93149837465907	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	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	347707641.184000	347706723.77495			
Observation start date	2009-01-07T09:26:15	2009-01-07T09:12:03			
[s] Observation end time (MET)	347712641.184000	347713288.90028			
Observation end date	2009-01-07T10:49:35	2009-01-07T11:01:28			
Read mode	TIMED	TIMED			

## 2.3 Aspect



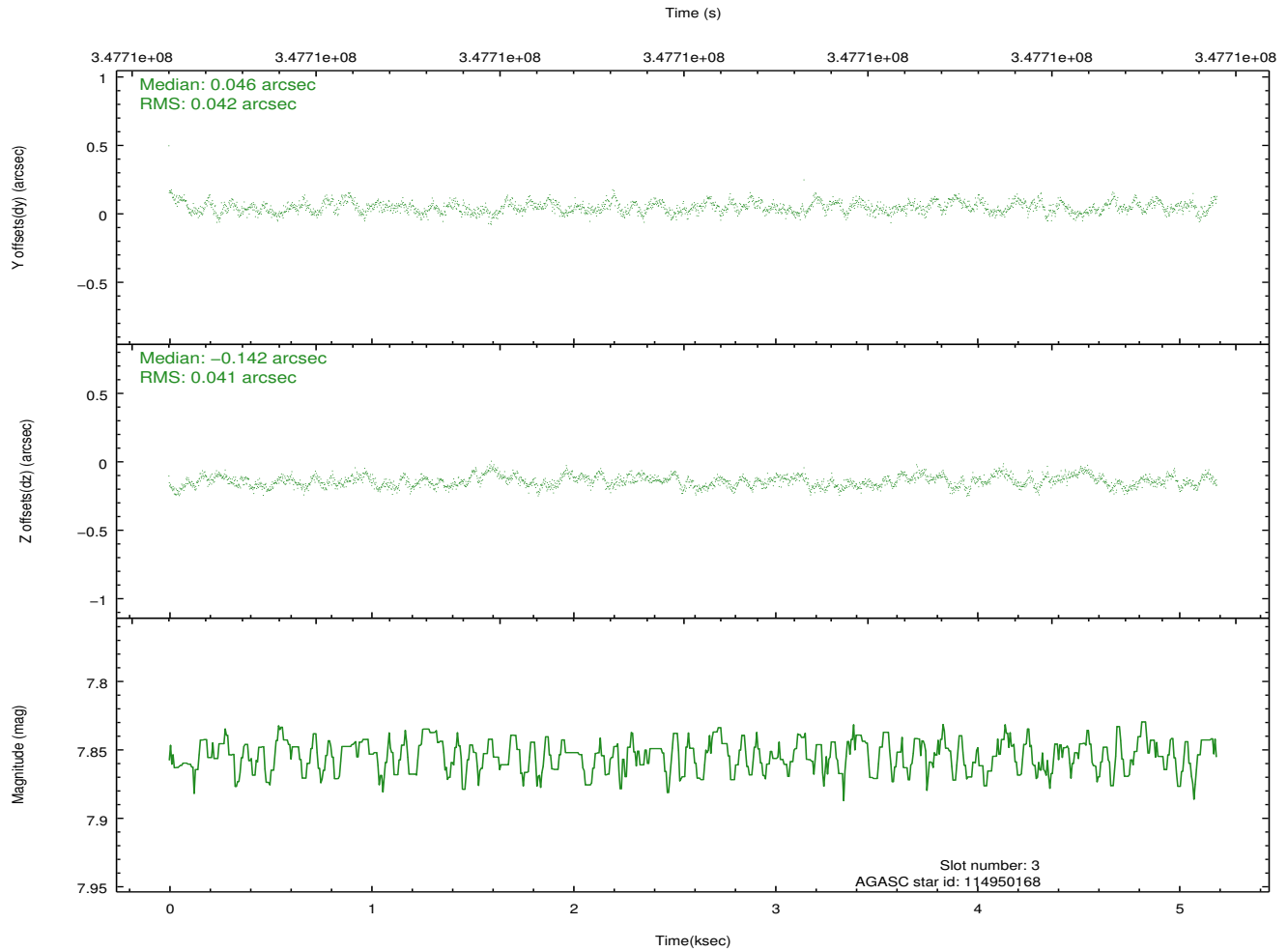
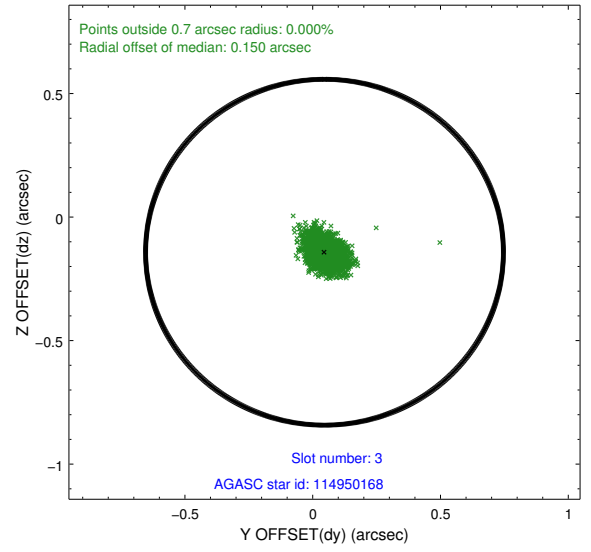
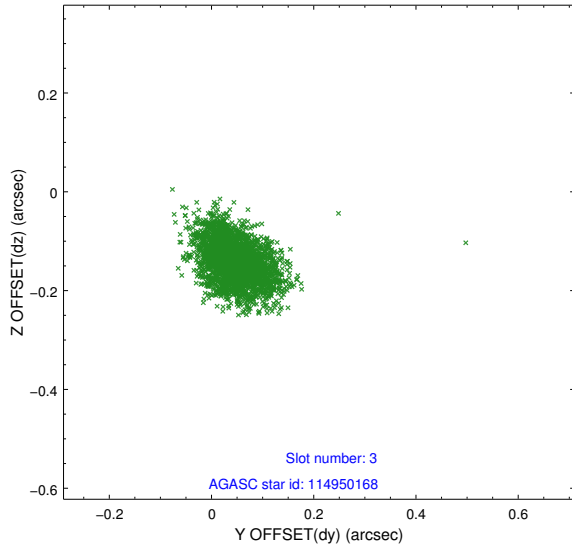


### Slot Statistics

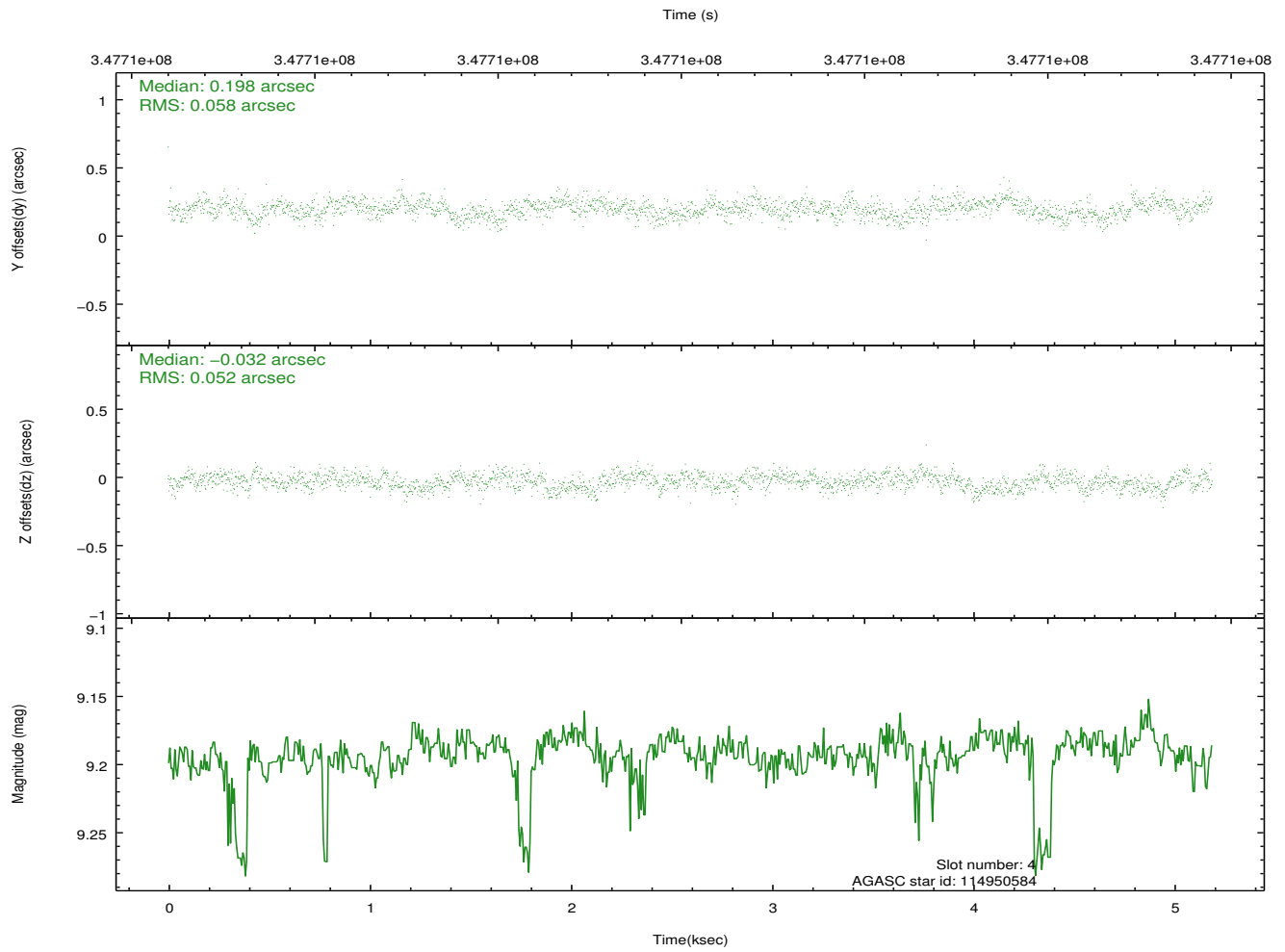
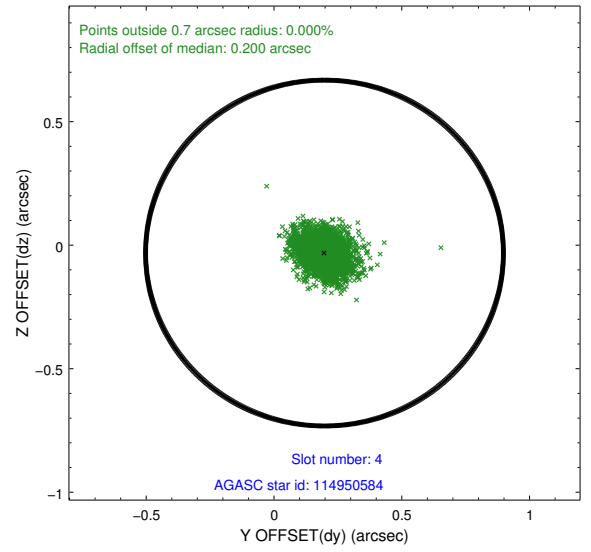
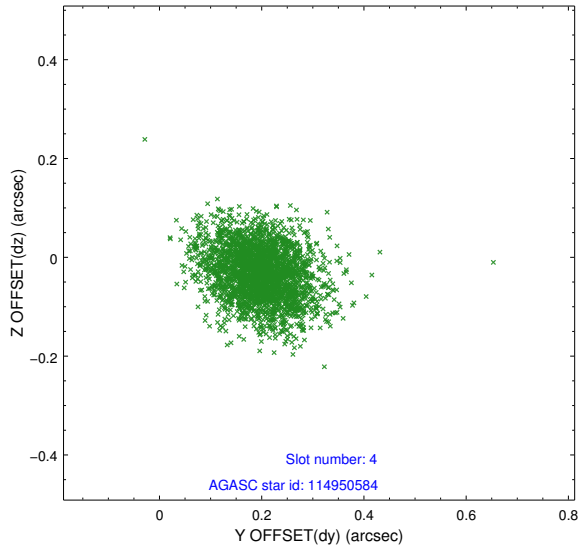
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.05	1266	0.112	-0.065	0.006	0.011	0.000000	0.000000	930.52	-1730.65
1	FID	ACIS-S-5	7.09	1266	-0.156	0.081	0.006	0.010	0.000000	0.000000	-1818.11	165.83
2	FID	ACIS-S-6	7.18	1266	0.022	-0.004	0.006	0.011	0.000000	0.000000	394.70	811.04
3	GUIDE	114950168	7.85	2532	0.046	-0.142	0.062	0.099	187.143398	12.117441	-1537.18	1552.94
4	GUIDE	114950584	9.19	2520	0.198	-0.032	0.082	0.138	187.487323	11.827248	-2101.06	56.99
5	GUIDE	114952824	8.55	2532	-0.182	-0.170	0.068	0.107	187.703904	12.486727	389.58	161.30
6	GUIDE	114955056	8.33	2530	-0.134	0.588	0.080	0.128	187.914001	12.127854	-565.41	-978.67
7	GUIDE	114957008	8.24	2531	0.072	-0.242	0.077	0.130	186.894794	12.099160	-1899.96	2352.29

## 2.4 Star Slots

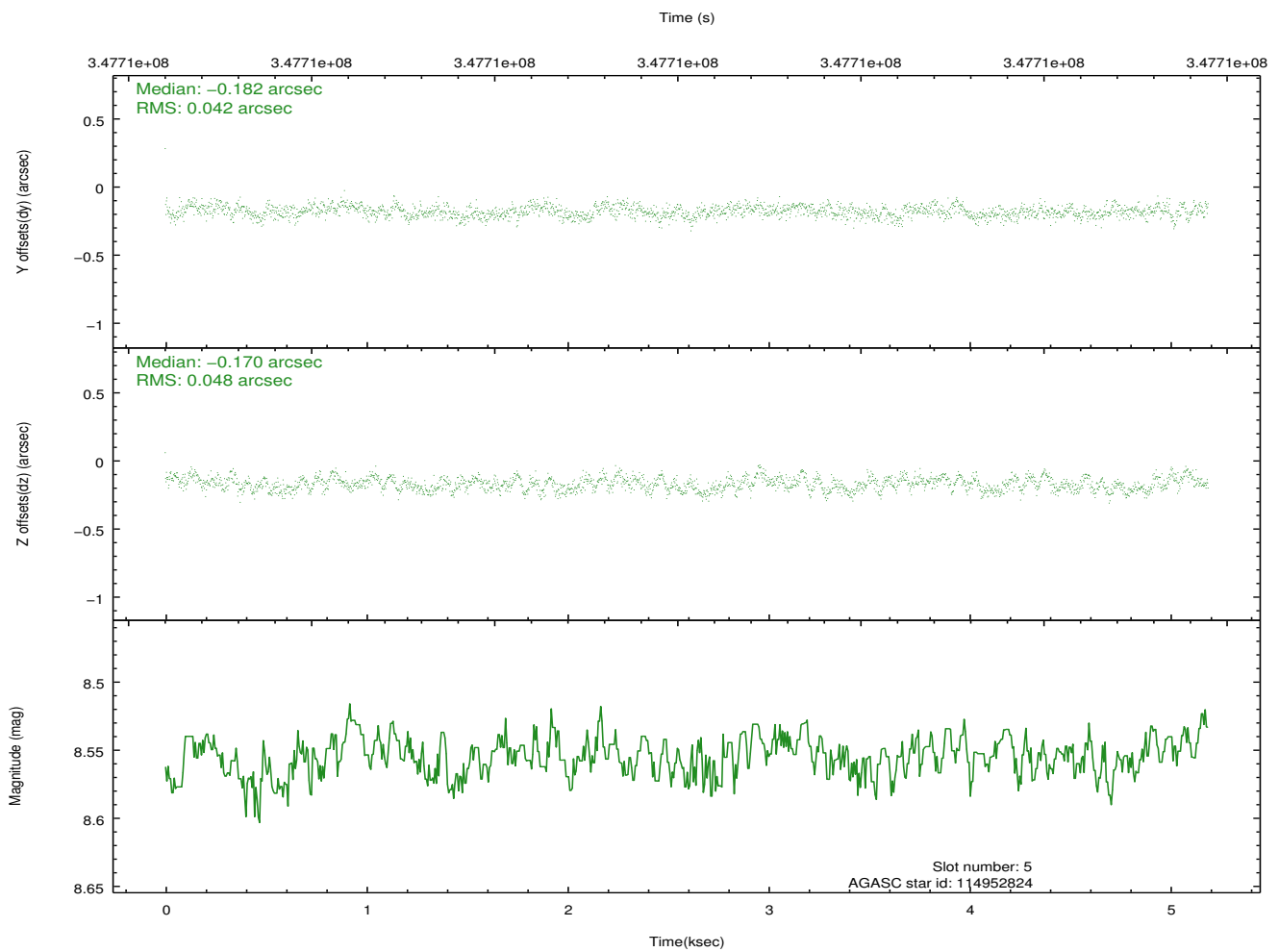
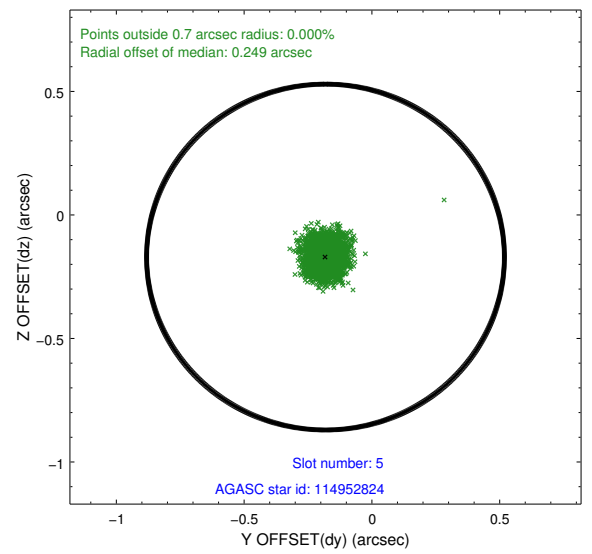
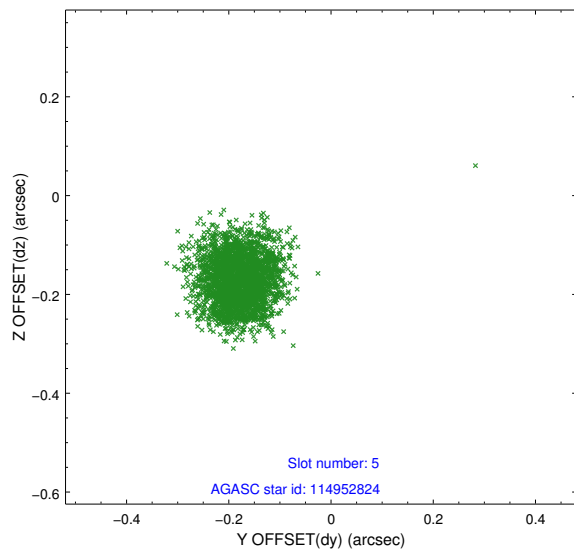
### 2.4.1 Slot 3



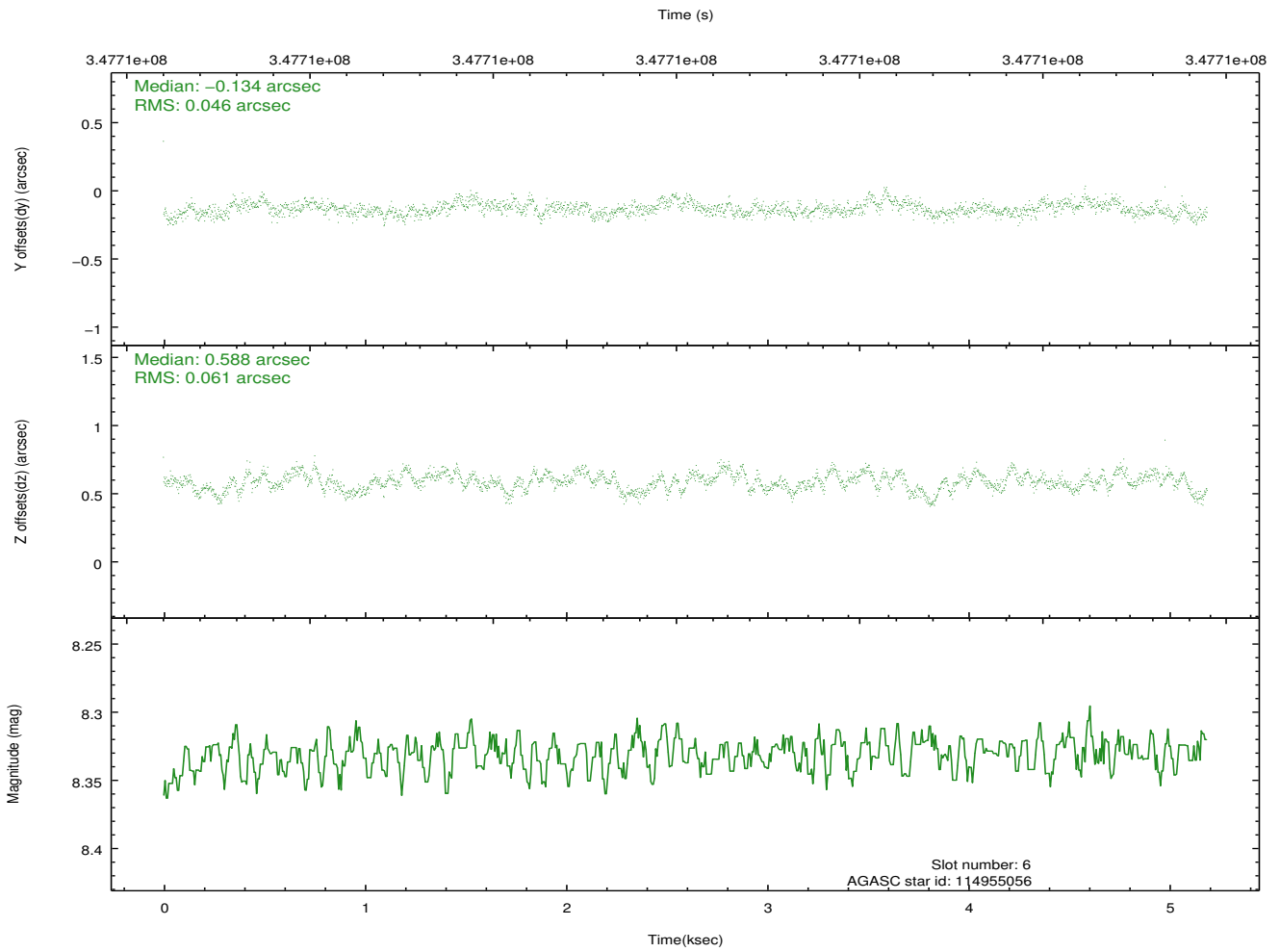
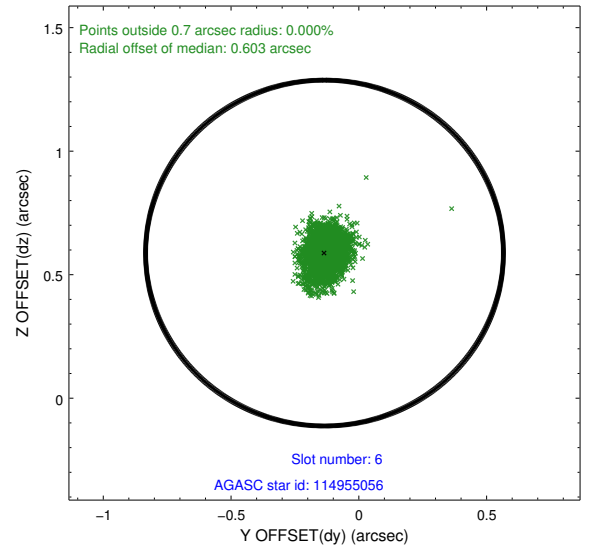
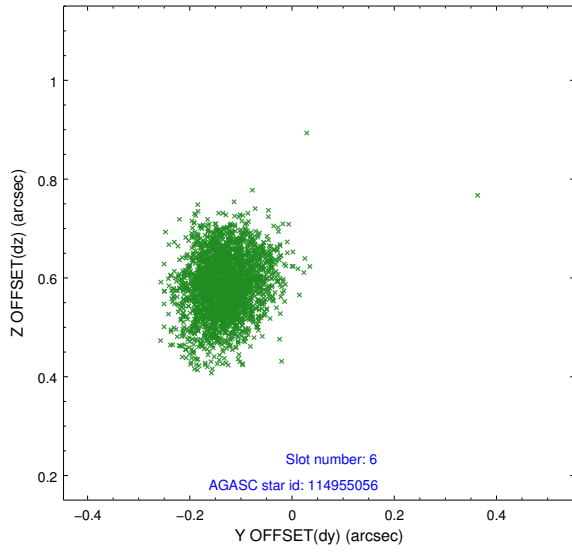
## 2.4.2 Slot 4



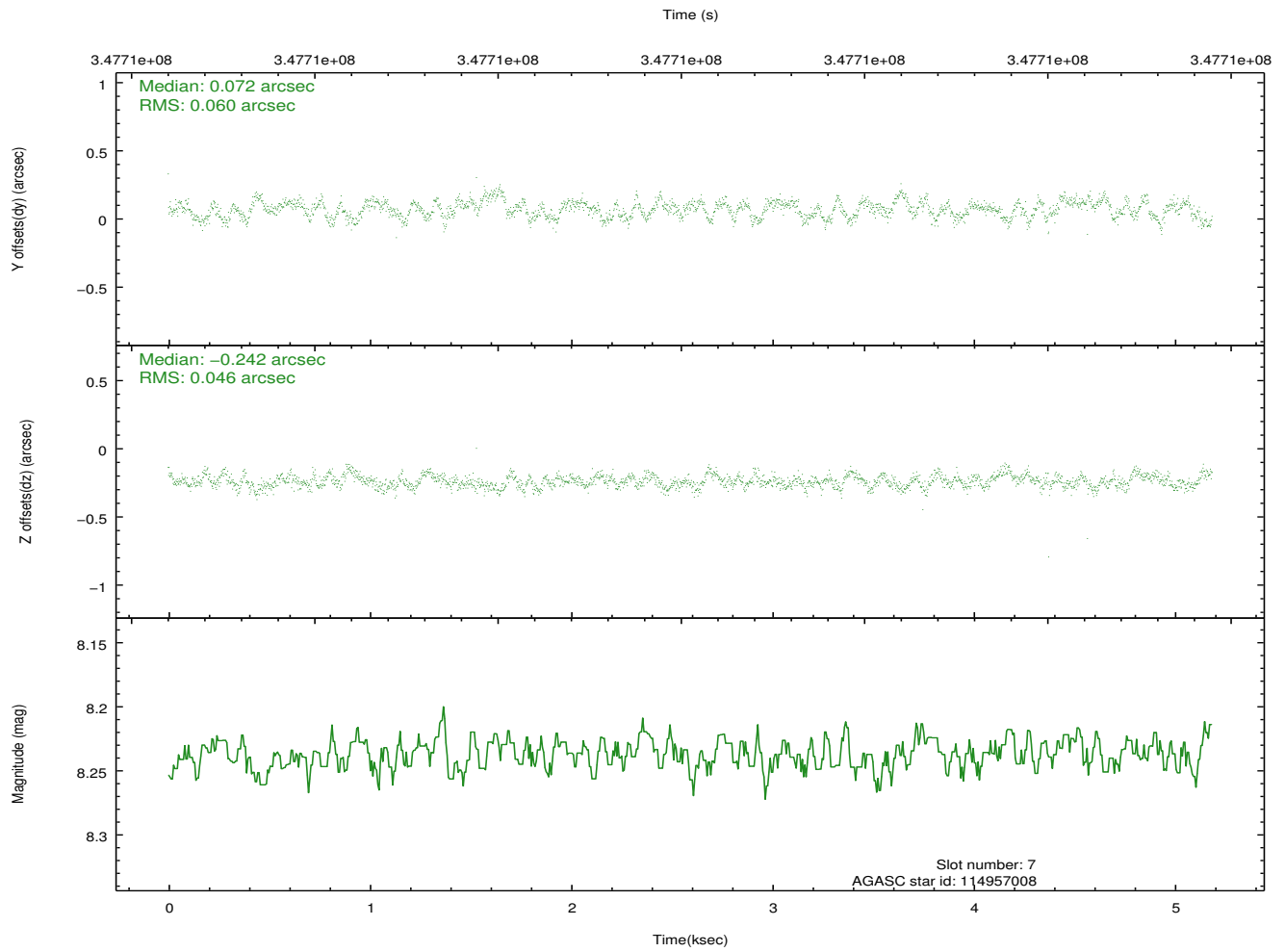
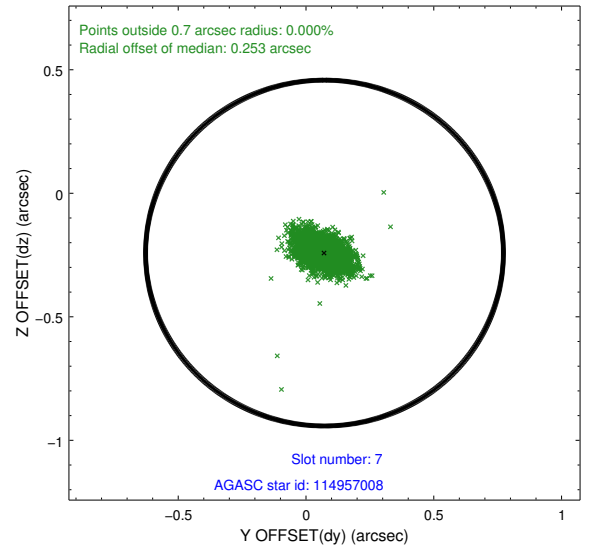
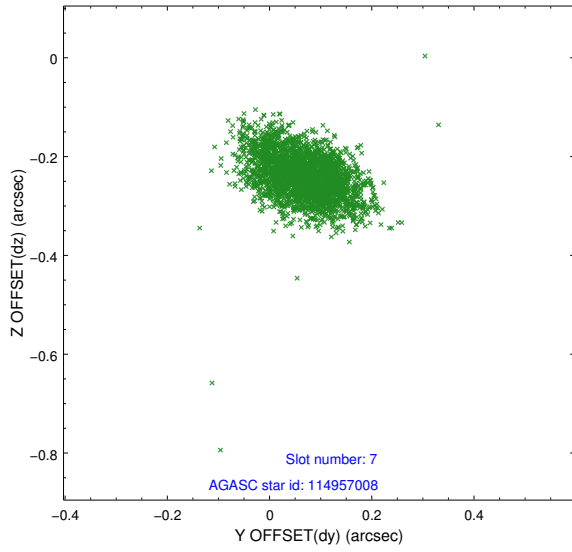
### 2.4.3 Slot 5



### 2.4.4 Slot 6

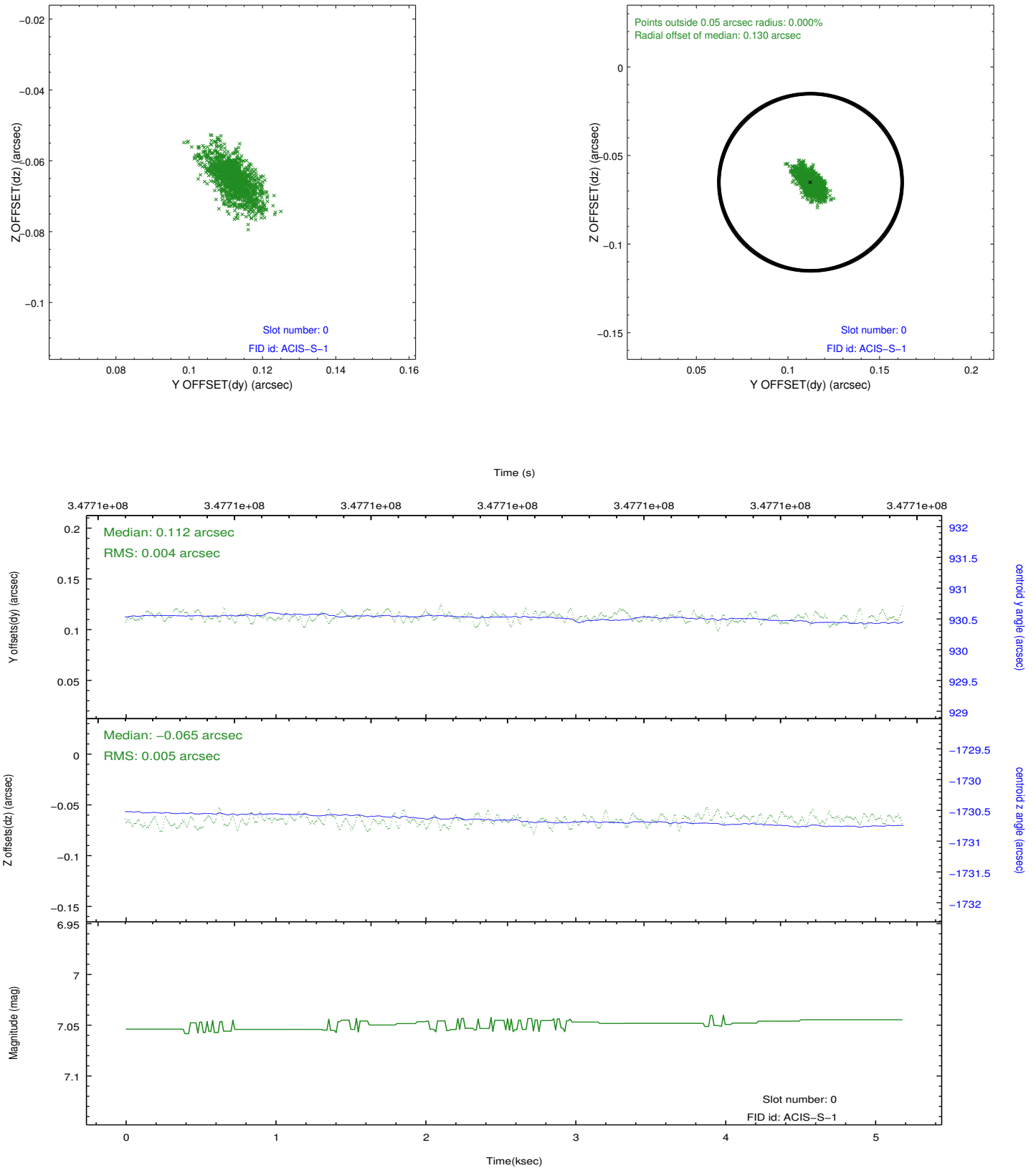


### 2.4.5 Slot 7

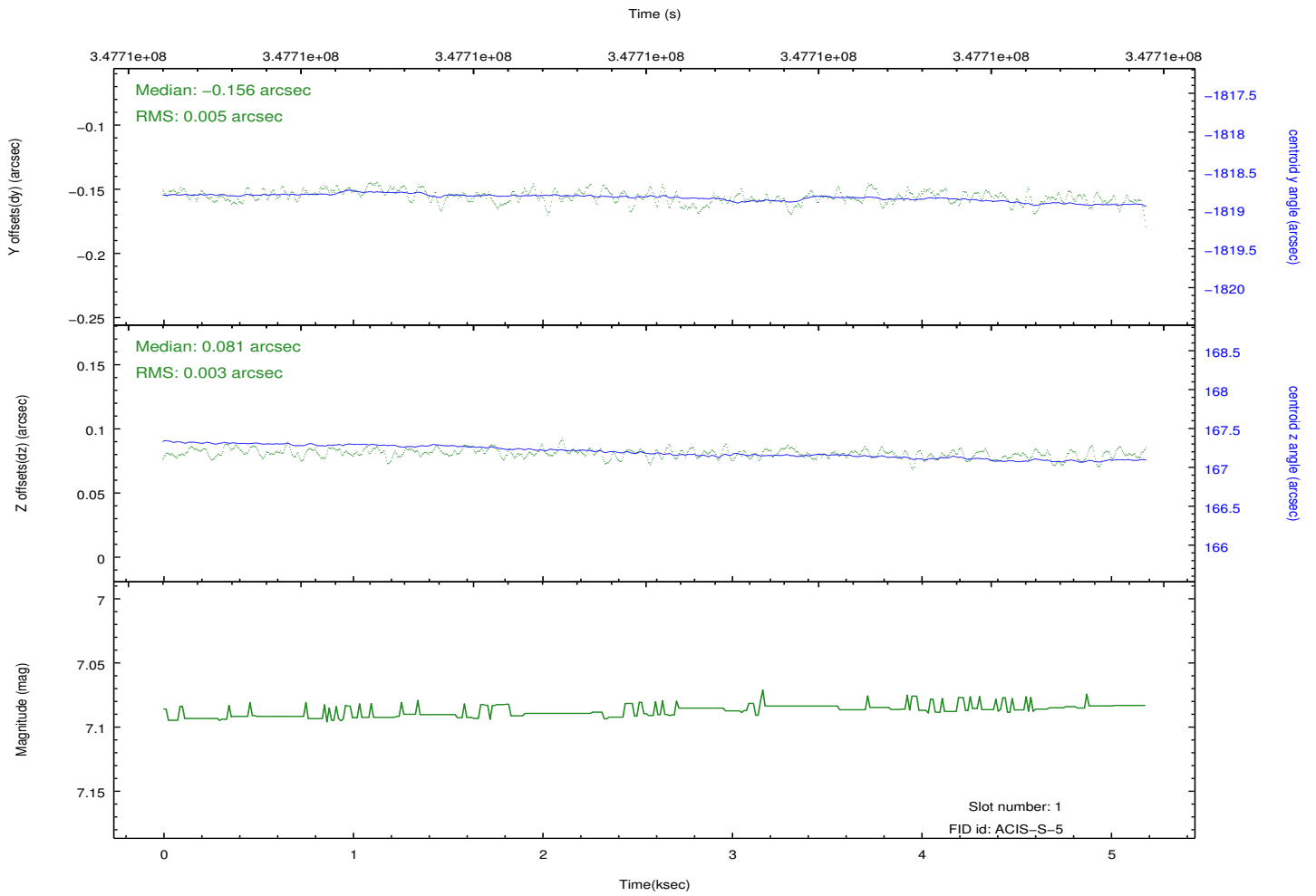
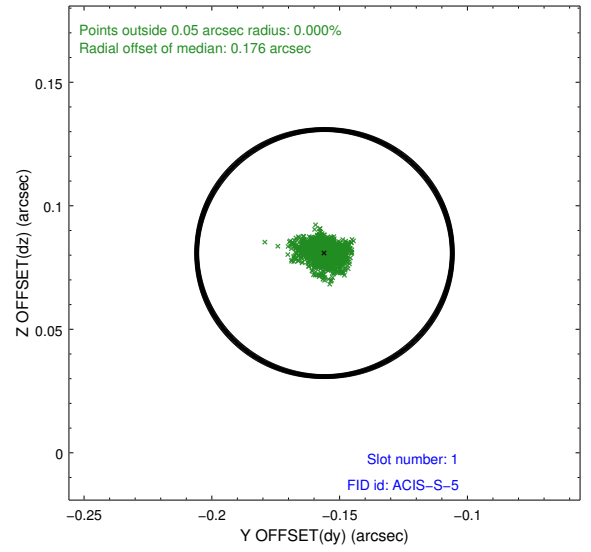
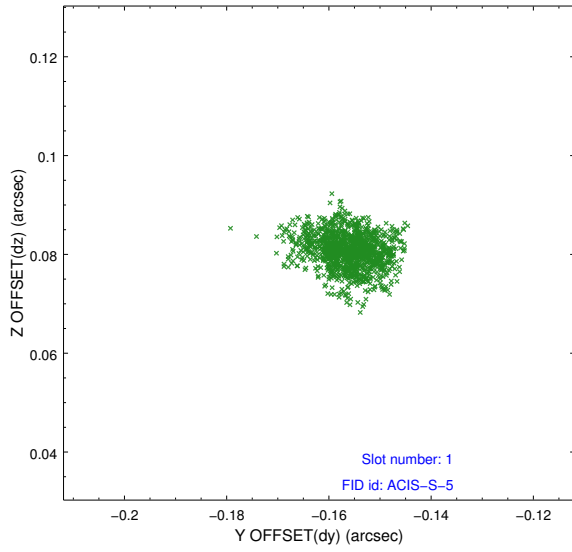


## 2.5 FID Slots

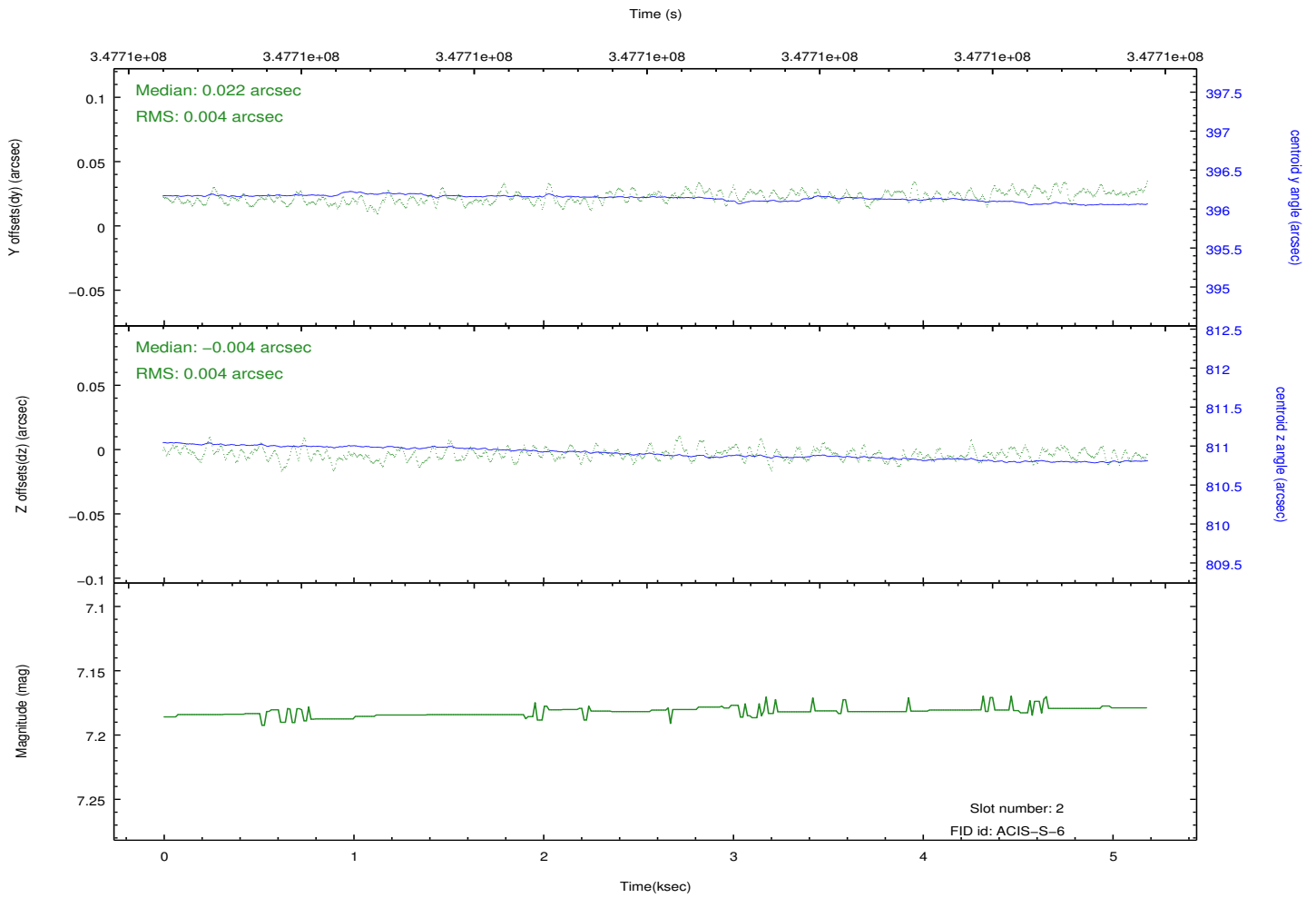
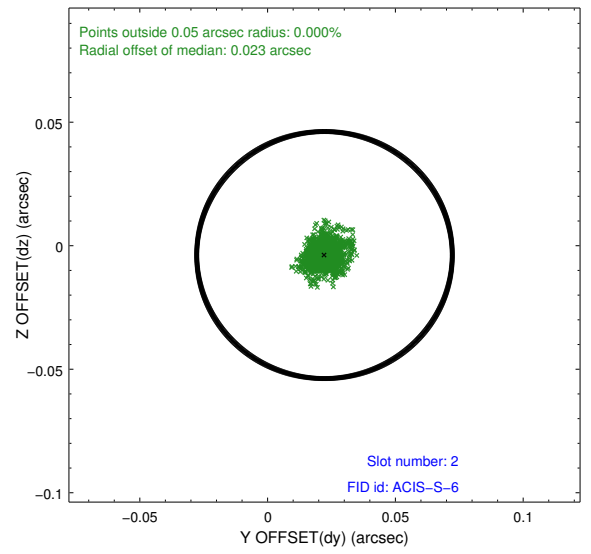
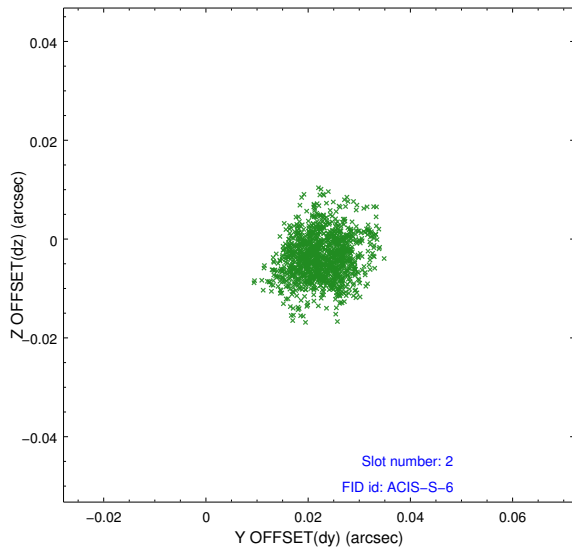
### 2.5.1 Slot 0



## 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)	2012.06.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.18759969

## A.2 Comments

Monitor constraint met. Readout streak and jet coincide.