

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11516 - L2 Version 2
Chandra X-Ray Center

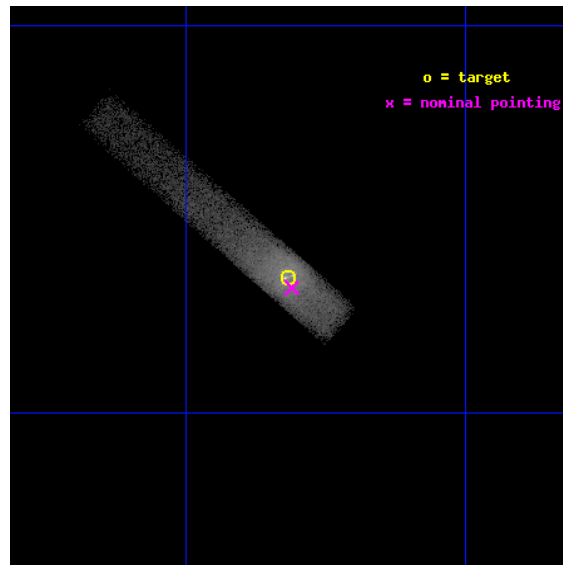
L2 Processing Date : Jun 24 2012

Contents

1	Front	2
2	OBI	3
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
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

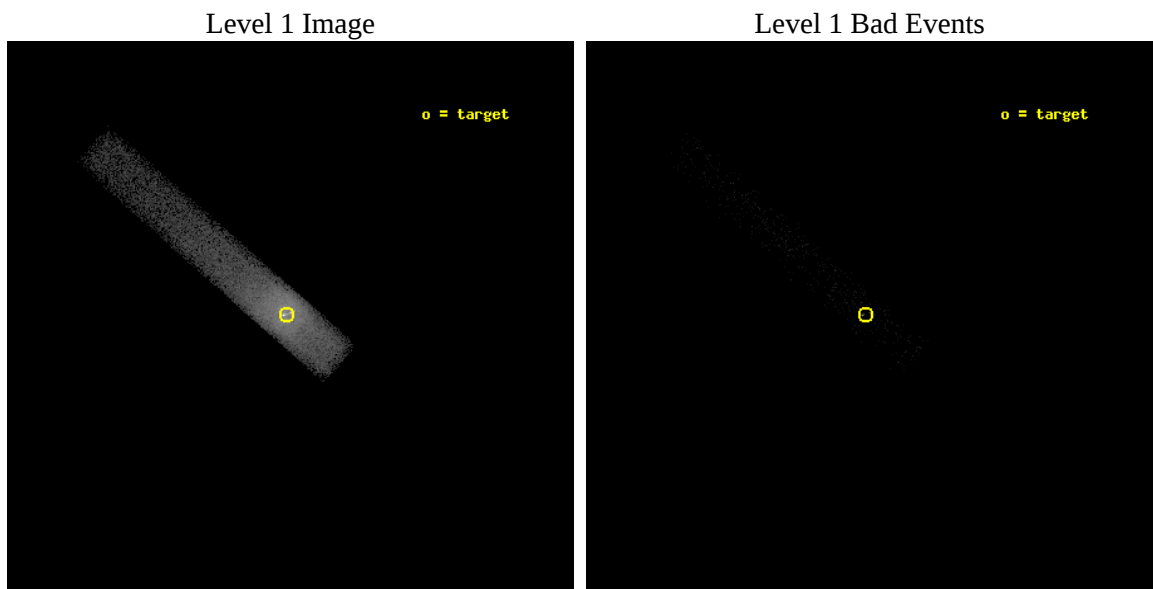
seq_num	702102	Sequence number
obs_id	11516	Observation id
title	The X-ray - TeV Connection in M87	Proposal title
observer	Dr. Daniel Harris	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.702797628	Nominal RA [deg]
dec_nom	12.386993848797	Nominal Dec [deg]
roll_nom	221.19475691256	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5189.9996906519	Sum of GTIs [s]
livetime	4707.0557687755	Livetime [s]
ontime7	5189.9996906519	Sum of GTIs [s]
l2events	48511	Number of level 2 events



2 OBI

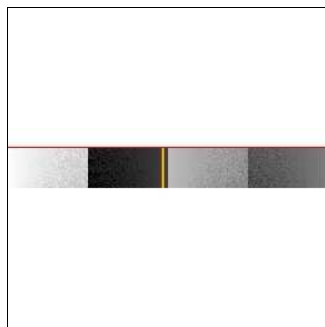
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.985000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5189.9996906519	Sum of GTIs [s]
caldbver	4.4.10	 	ontime7	5189.9996906519	Sum of GTIs [s]
date	2012-06-24T09:20:52	Date and time of file creation	l1events	54556	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

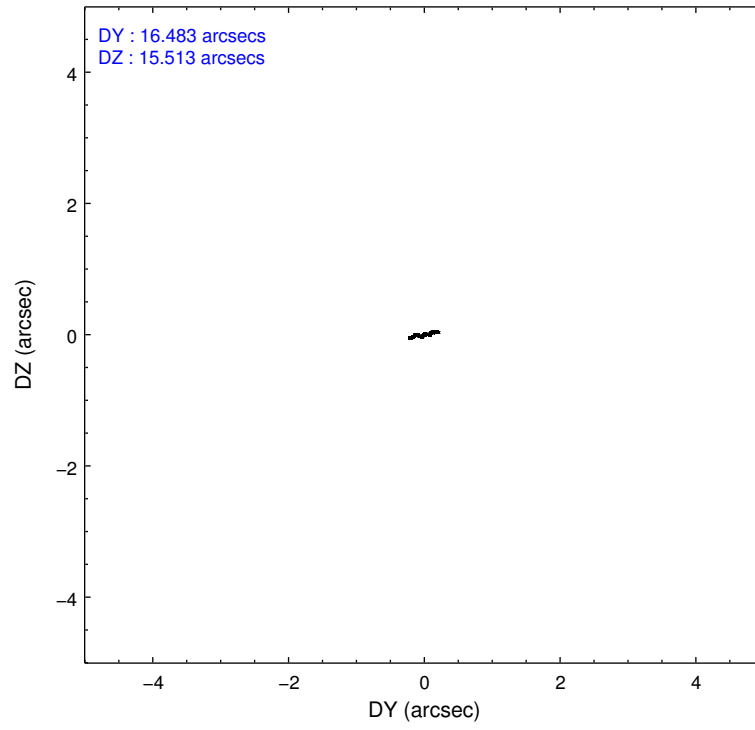
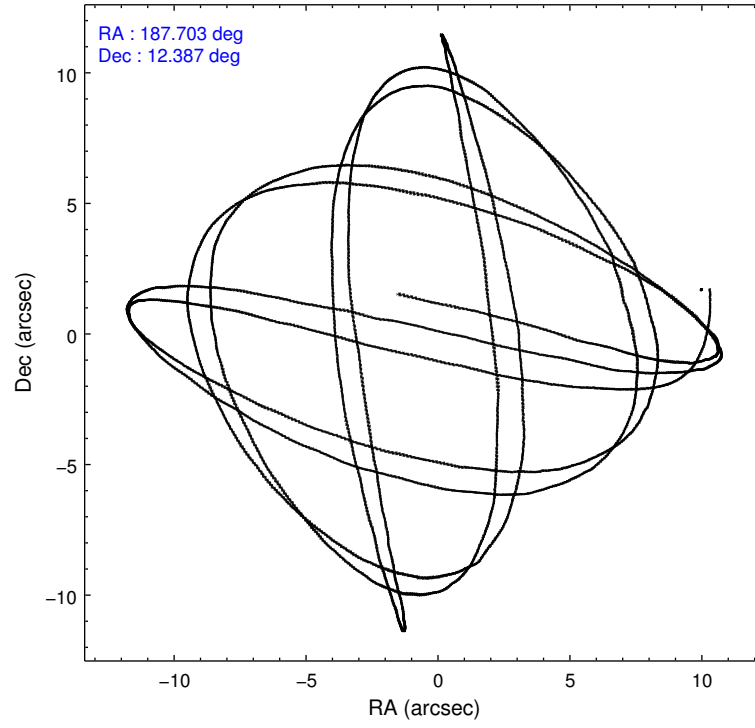
	ccd 7
level 1 events	54556
rejected events	5472
rejected %	10%

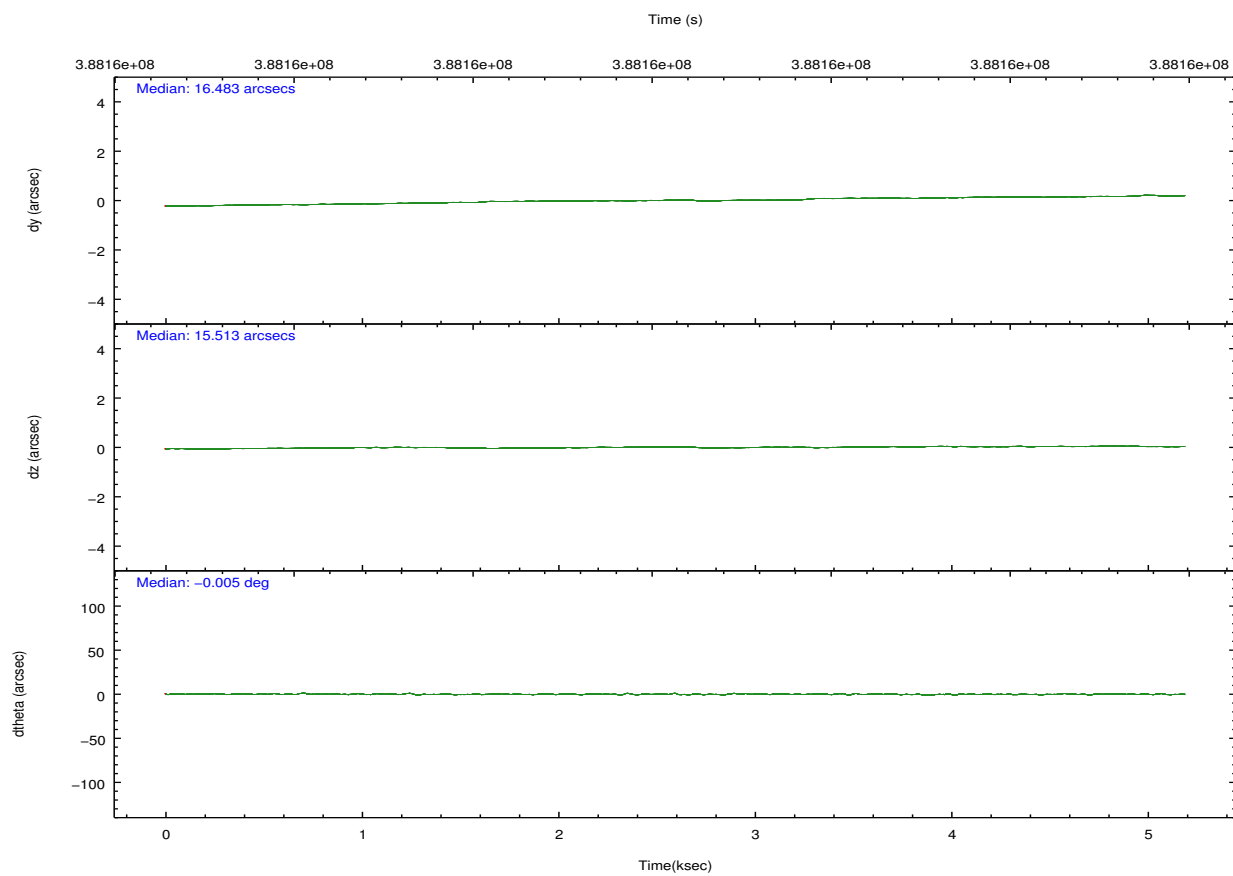
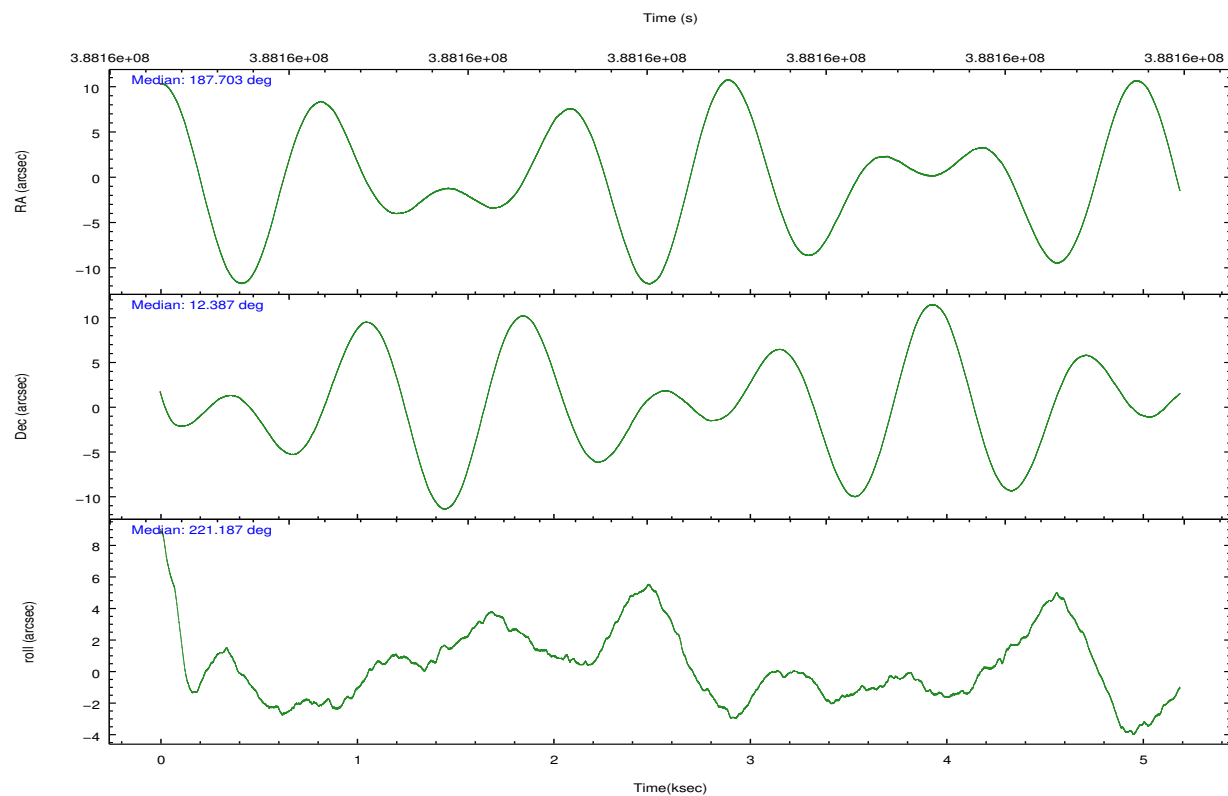
	ccd 7
grade 0 events	15463
	28%
grade 1 events	65
	0%
grade 2 events	13212
	24%
grade 3 events	6040
	11%
grade 4 events	5884
	10%
grade 5 events	1048
	1%
grade 6 events	9982
	18%
grade 7 events	2862
	5%

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	187.711371	187.702797628004	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.413031	12.38699384879713	Subarray start row	449	449
[deg] Pointing Roll	221.036279	221.1947569125607	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)	388157722.184000	388156852.25417			
Observation start date	2010-04-20T13:34:16	2010-04-20T13:20:52			
[s] Observation end time (MET)	388162723.184000	388162948.44198			
Observation end date	2010-04-20T14:57:37	2010-04-20T15:02:28			
Read mode	TIMED	TIMED			

2.3 Aspect



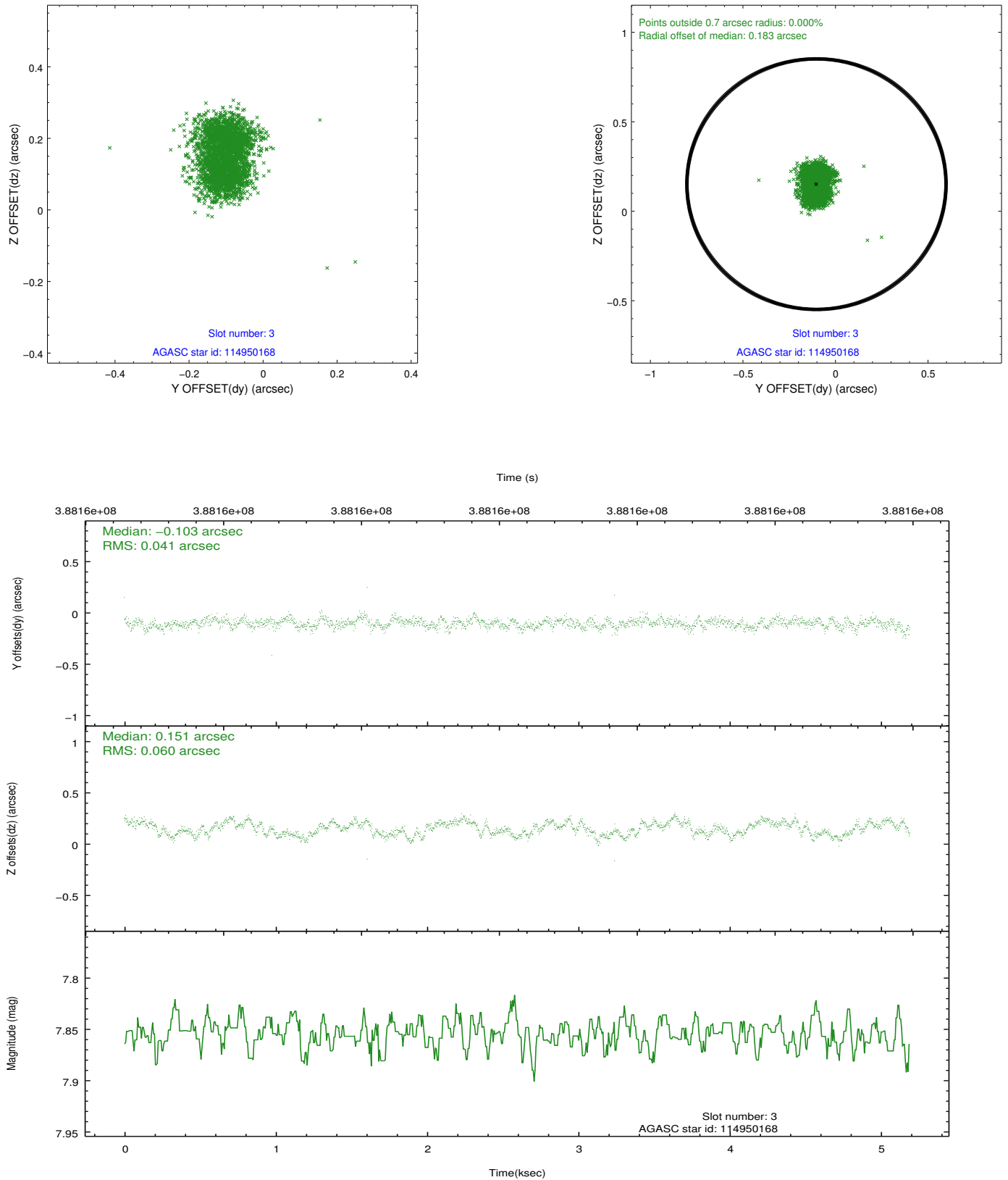


Slot Statistics

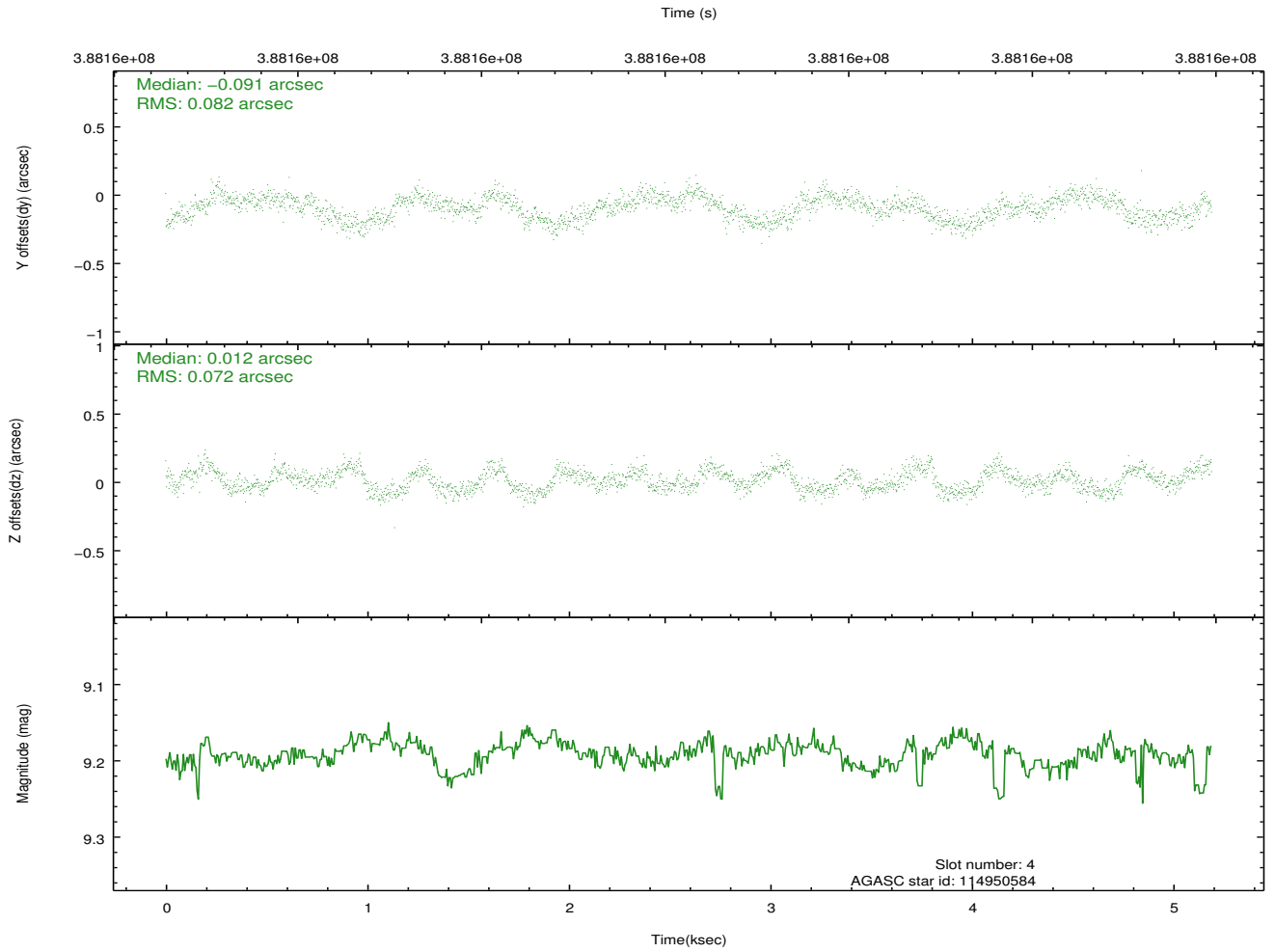
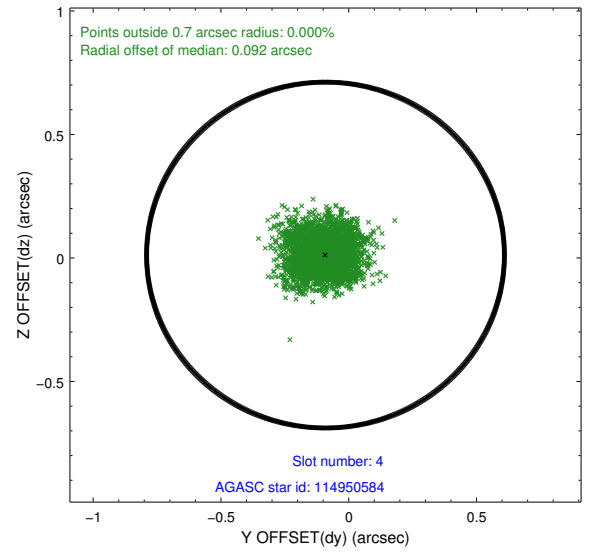
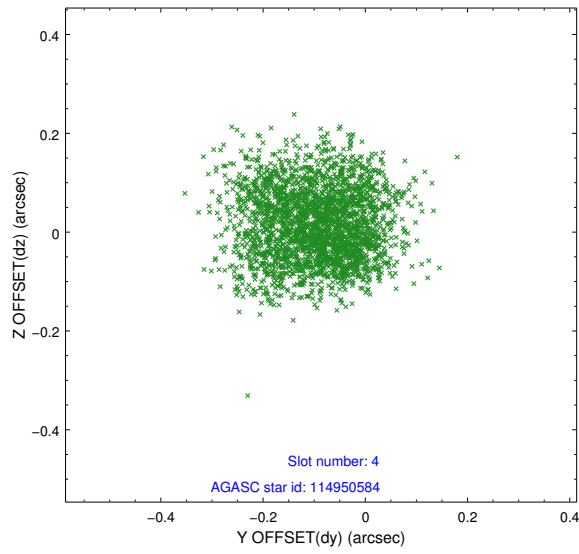
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	1267	-0.098	-0.025	0.007	0.011	0.000000	0.000000	-769.57	-1736.89
1	FID	ACIS-S-4	7.00	1267	0.193	0.054	0.005	0.009	0.000000	0.000000	2143.44	170.49
2	FID	ACIS-S-5	7.03	1267	-0.127	-0.020	0.006	0.011	0.000000	0.000000	-1820.97	165.38
3	GUIDE	114950168	7.85	2533	-0.103	0.151	0.078	0.118	187.143398	12.117441	2205.79	-511.11
4	GUIDE	114950584	9.19	2530	-0.091	0.012	0.119	0.182	187.487323	11.827248	1981.27	1071.79
5	GUIDE	114952792	9.48	2531	-0.062	-0.036	0.123	0.196	187.070263	12.344747	1862.71	-1296.80
6	GUIDE	114952824	8.59	2527	0.075	0.163	0.074	0.120	187.703904	12.486727	-152.67	-218.21
7	GUIDE	114955056	8.31	2532	0.189	-0.292	0.100	0.157	187.914001	12.127854	136.46	1241.69

2.4 Star Slots

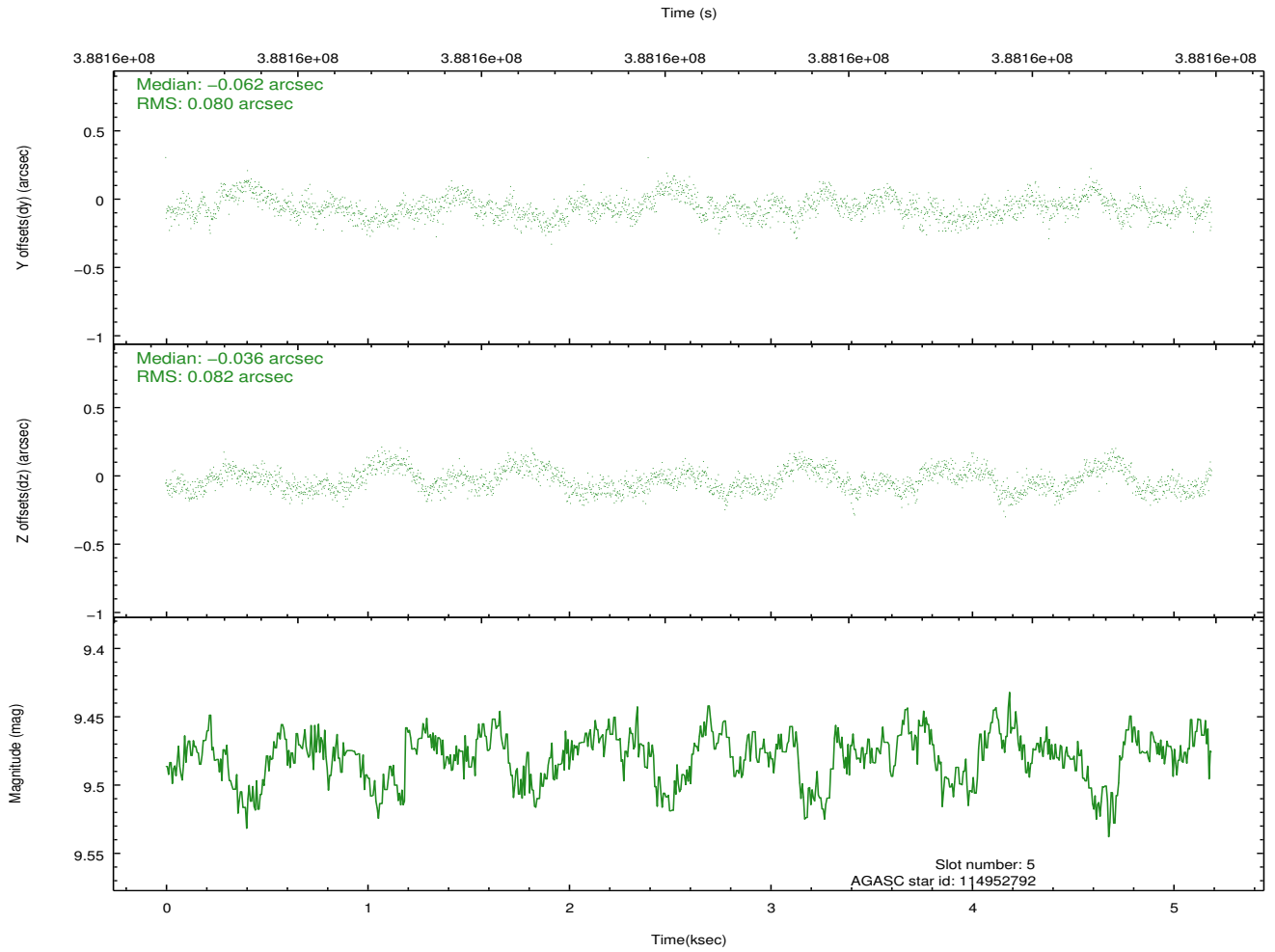
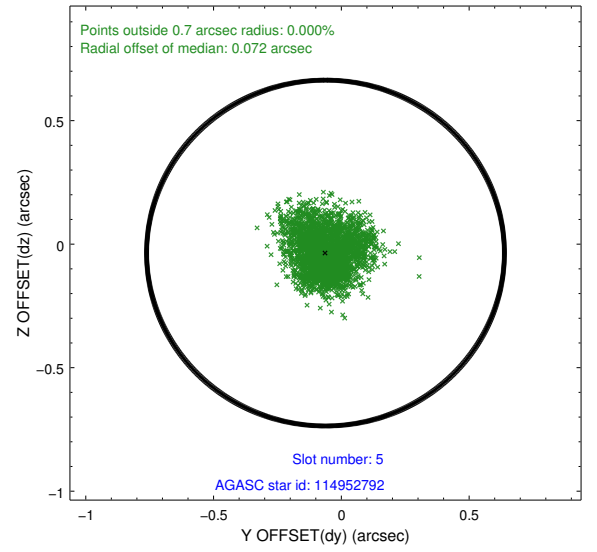
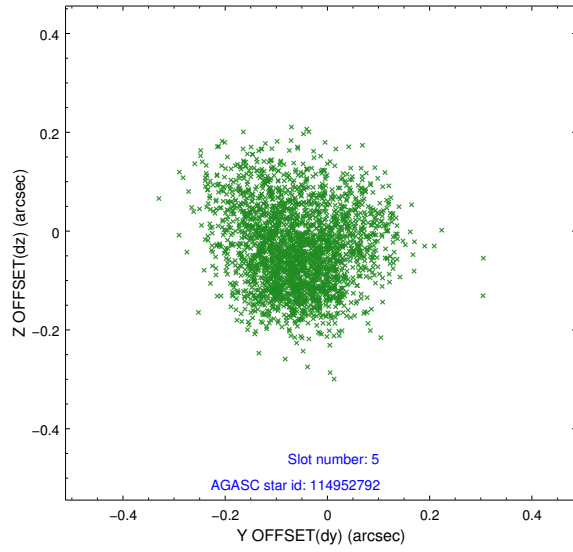
2.4.1 Slot 3



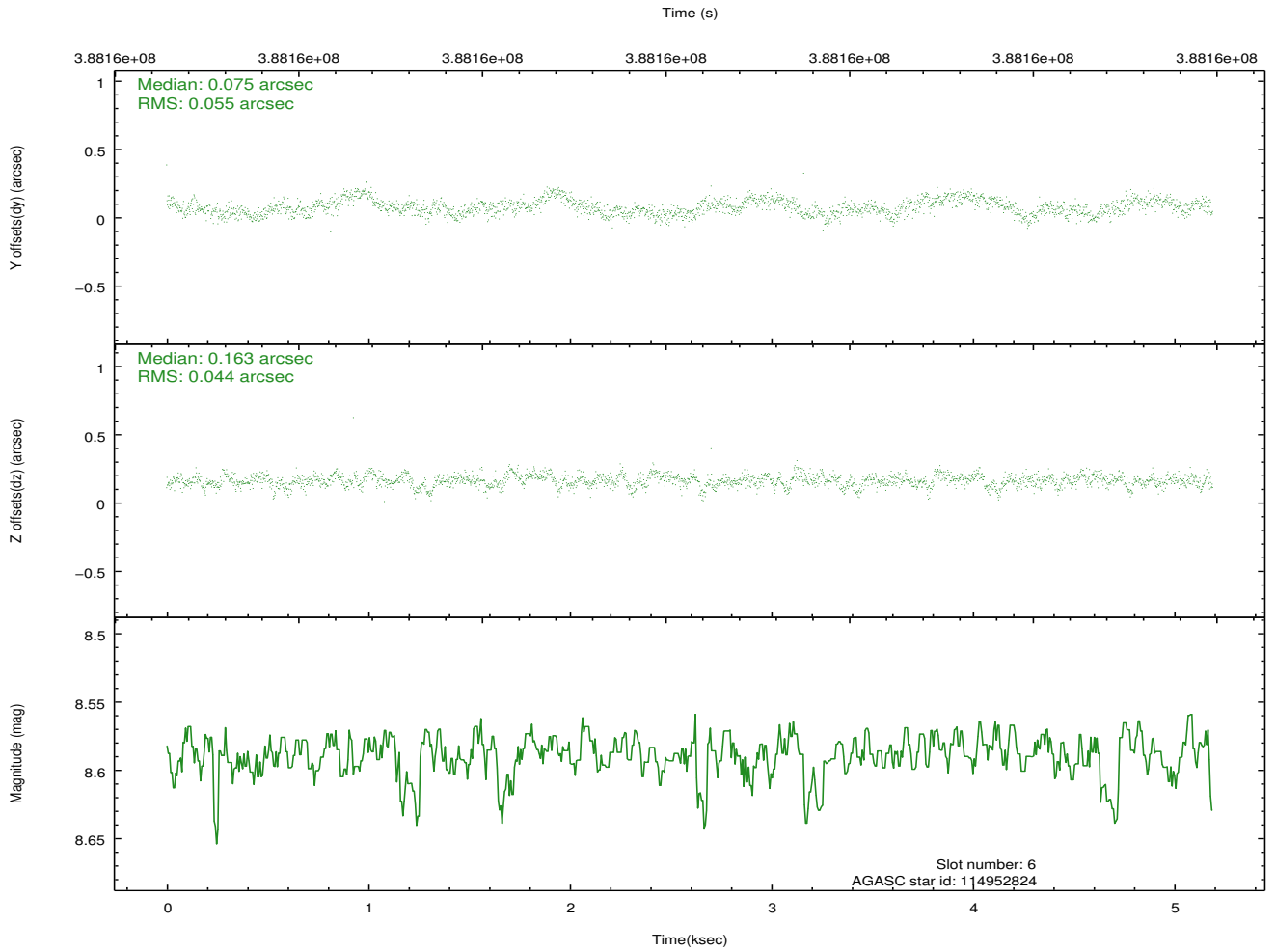
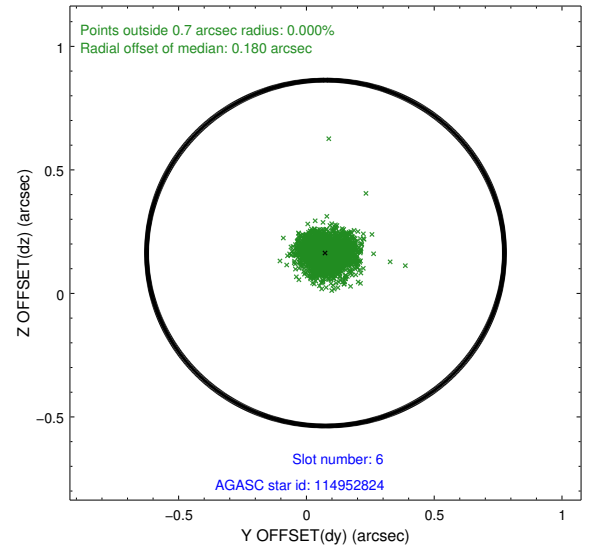
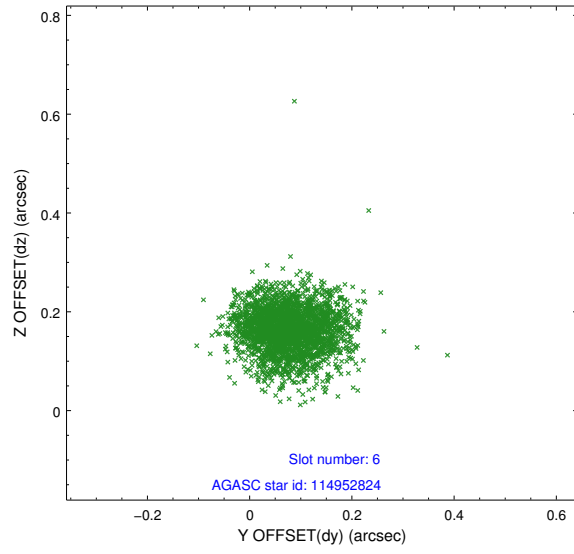
2.4.2 Slot 4



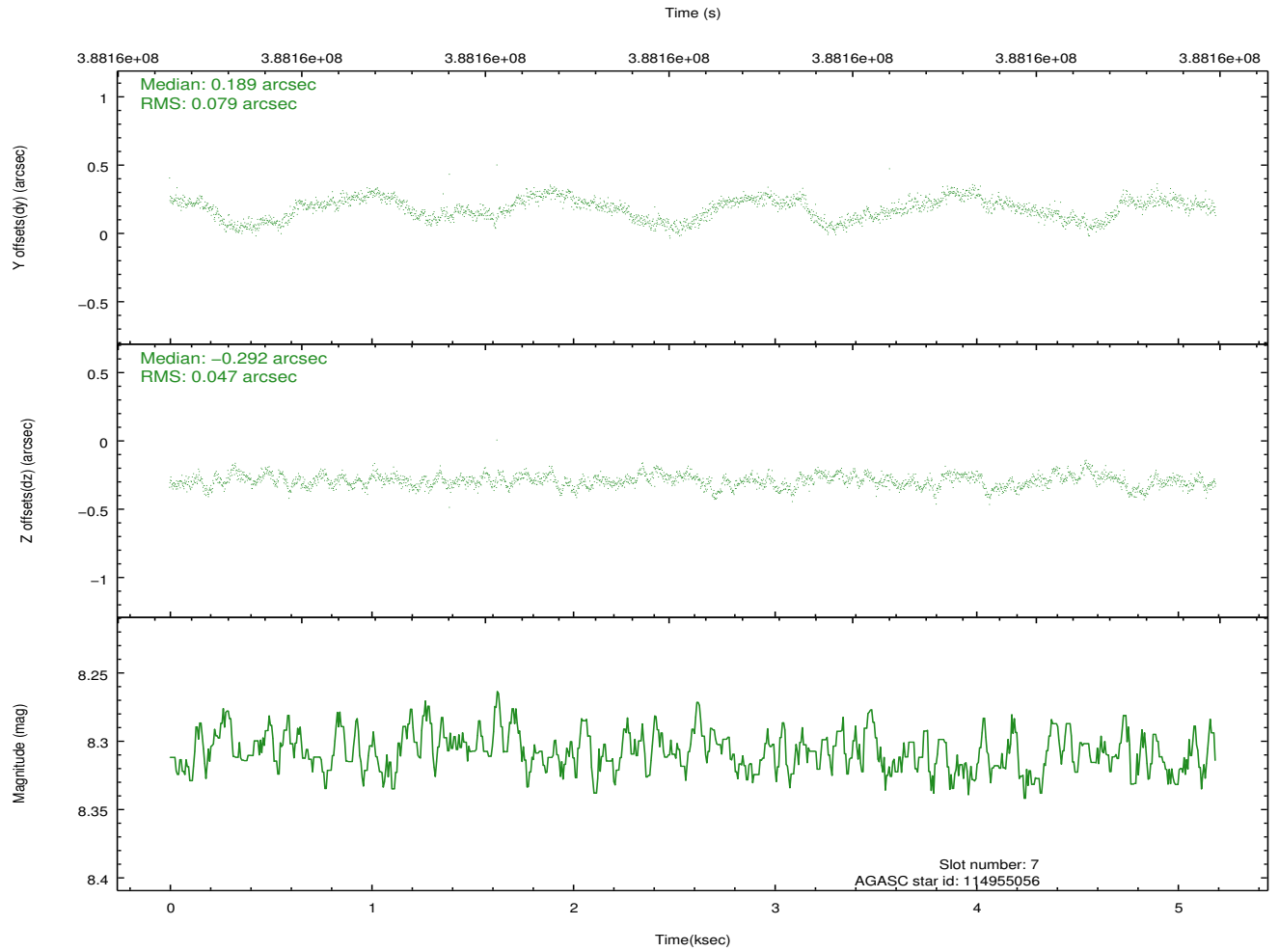
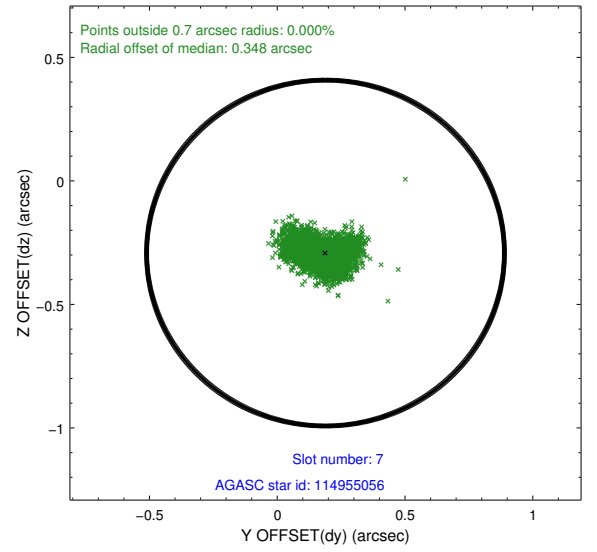
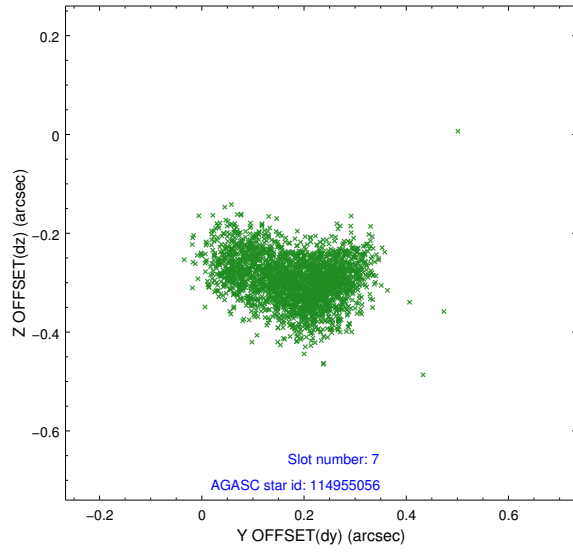
2.4.3 Slot 5



2.4.4 Slot 6

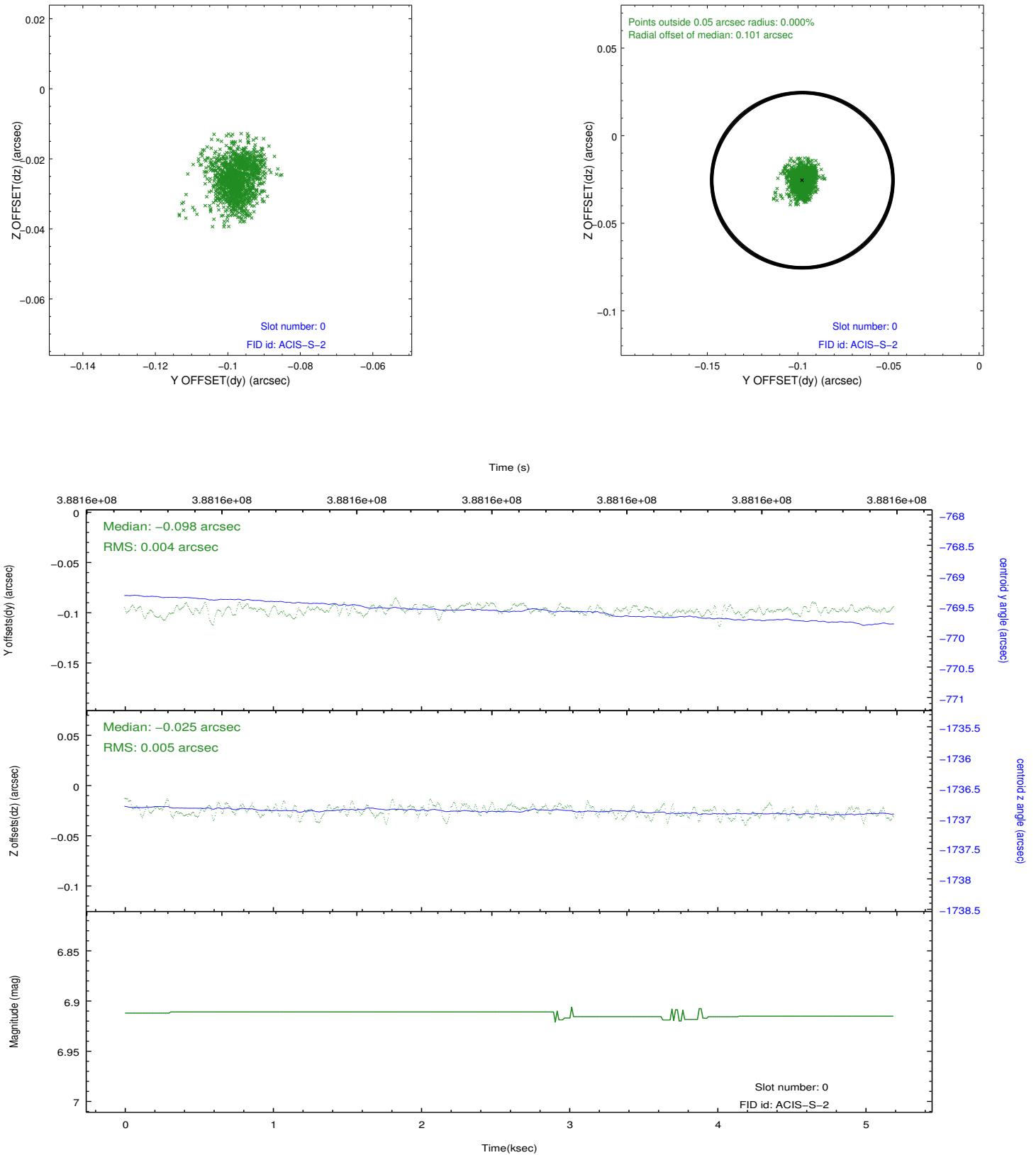


2.4.5 Slot 7

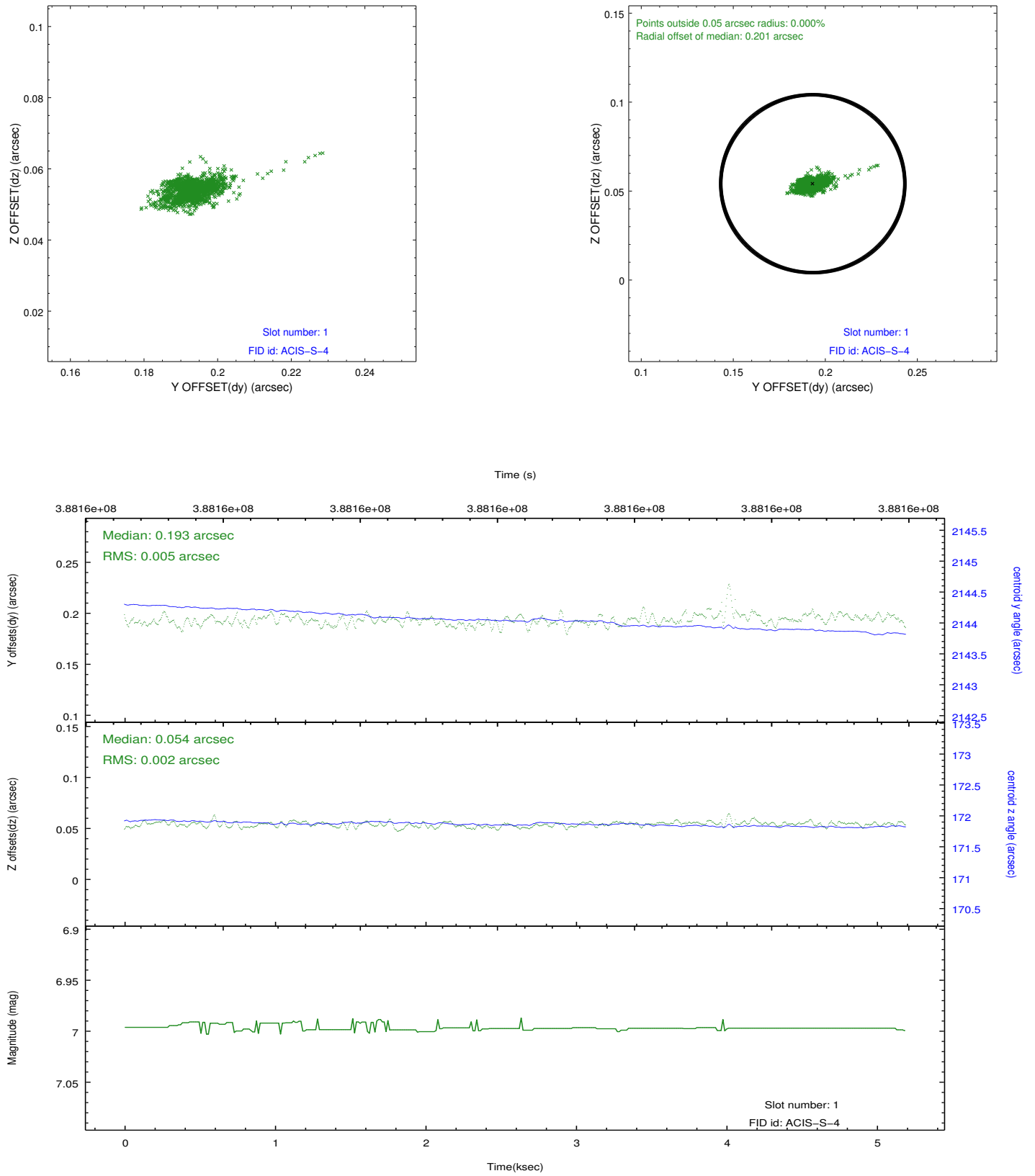


2.5 FID Slots

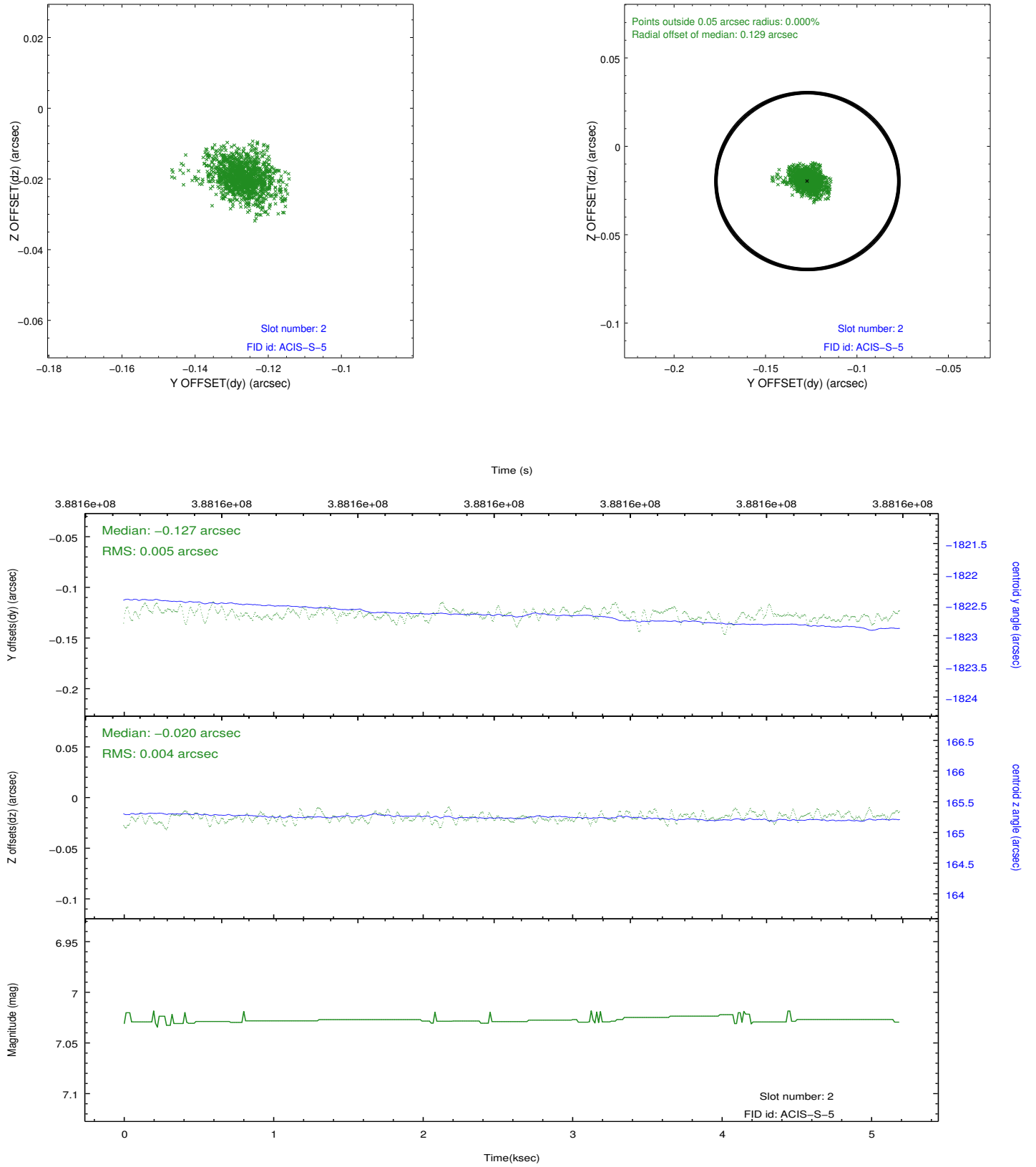
2.5.1 Slot 0



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)	2012.06.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1899996906519

A.2 Comments