

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3977 - L2 Version 3
Chandra X-Ray Center

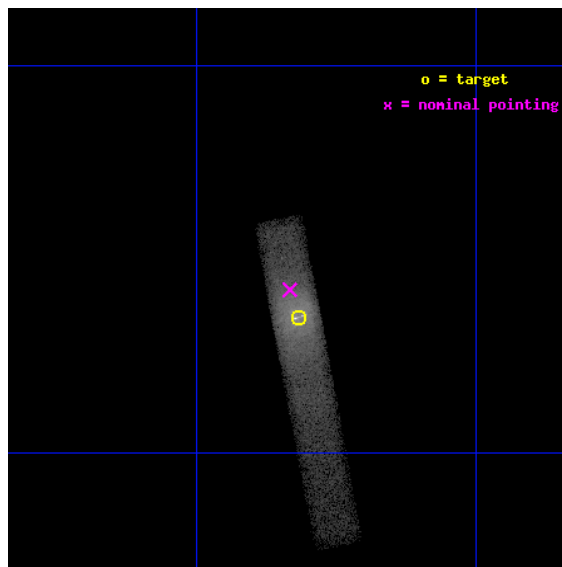
L2 Processing Date : Oct 22 2012

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1 Front

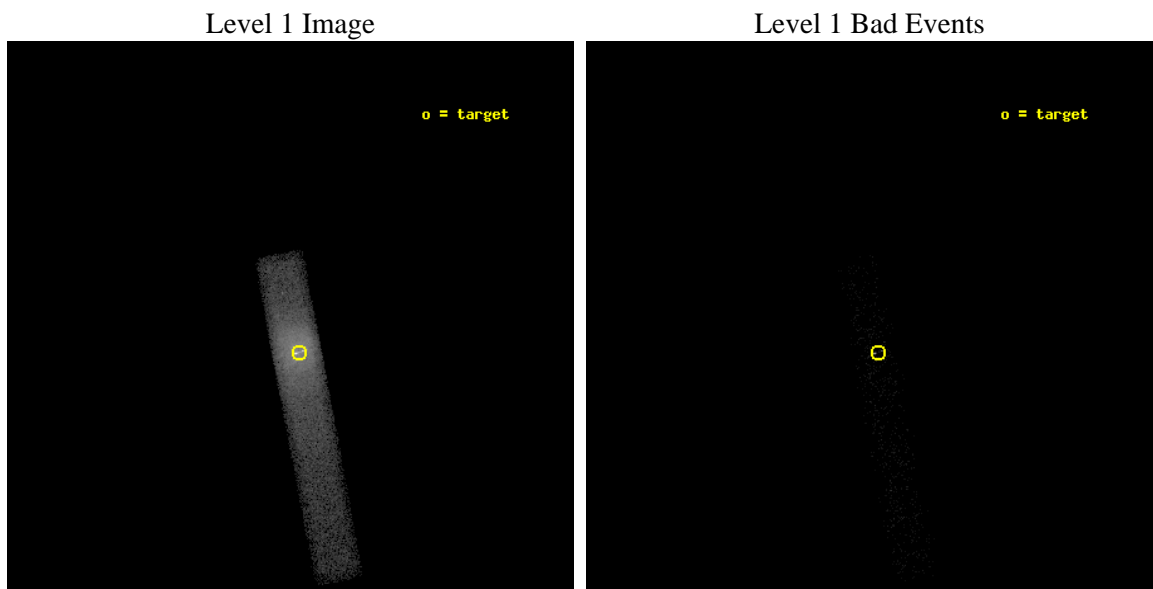
seq_num	700656	Sequence number
obs_id	3977	Observation id
title	X-RAY VARIABILITY IN THE JET AND CORE OF M87	Proposal title
observer	Dr. Daniel Harris	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.70820917836	Nominal RA [deg]
dec_nom	12.403417690477	Nominal Dec [deg]
roll_nom	79.269563791361	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5817.2000866532	Sum of GTIs [s]
livetime	5275.8934215974	Livetime [s]
ontime7	5817.2000866532	Sum of GTIs [s]
l2events	63862	Number of level 2 events



2 OBI

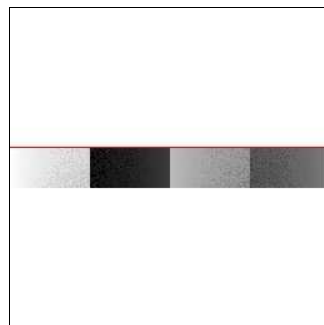
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5065.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5817.2000866532	Sum of GTIs [s]
caldsver	4.5.2	 	ontime7	5817.2000866532	Sum of GTIs [s]
date	2012-10-22T03:58:31	Date and time of file creation	l1events	70316	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

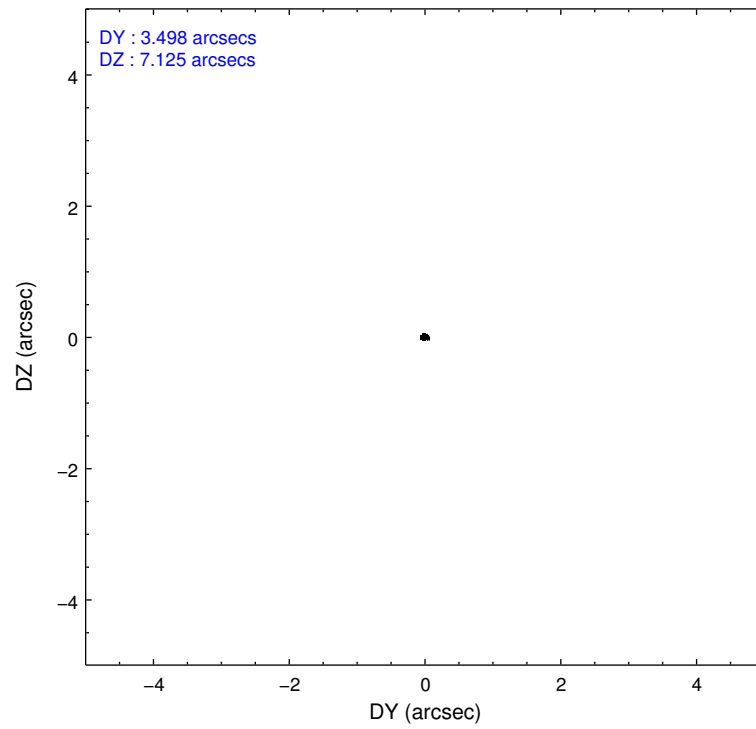
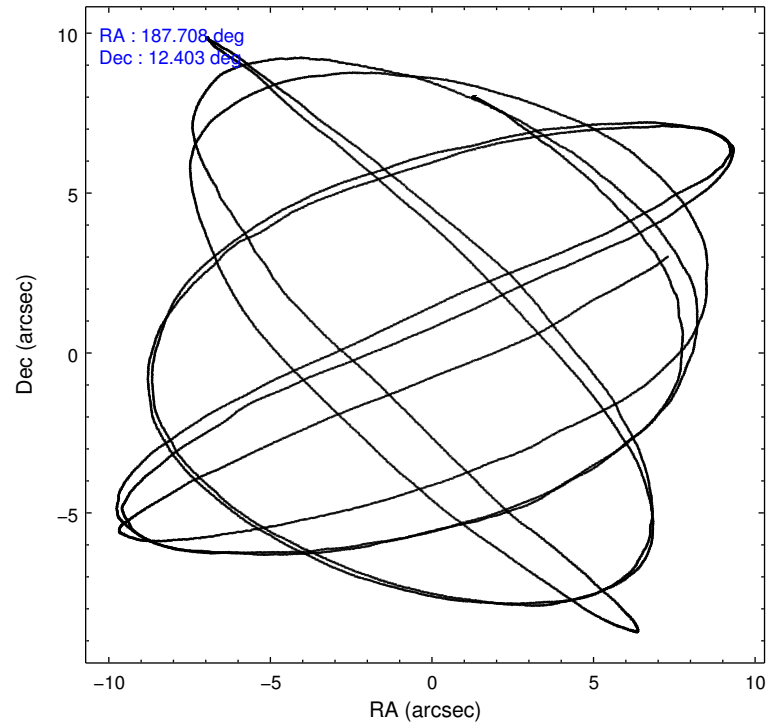
	ccd 7
level 1 events	70316
rejected events	5652
rejected %	8%

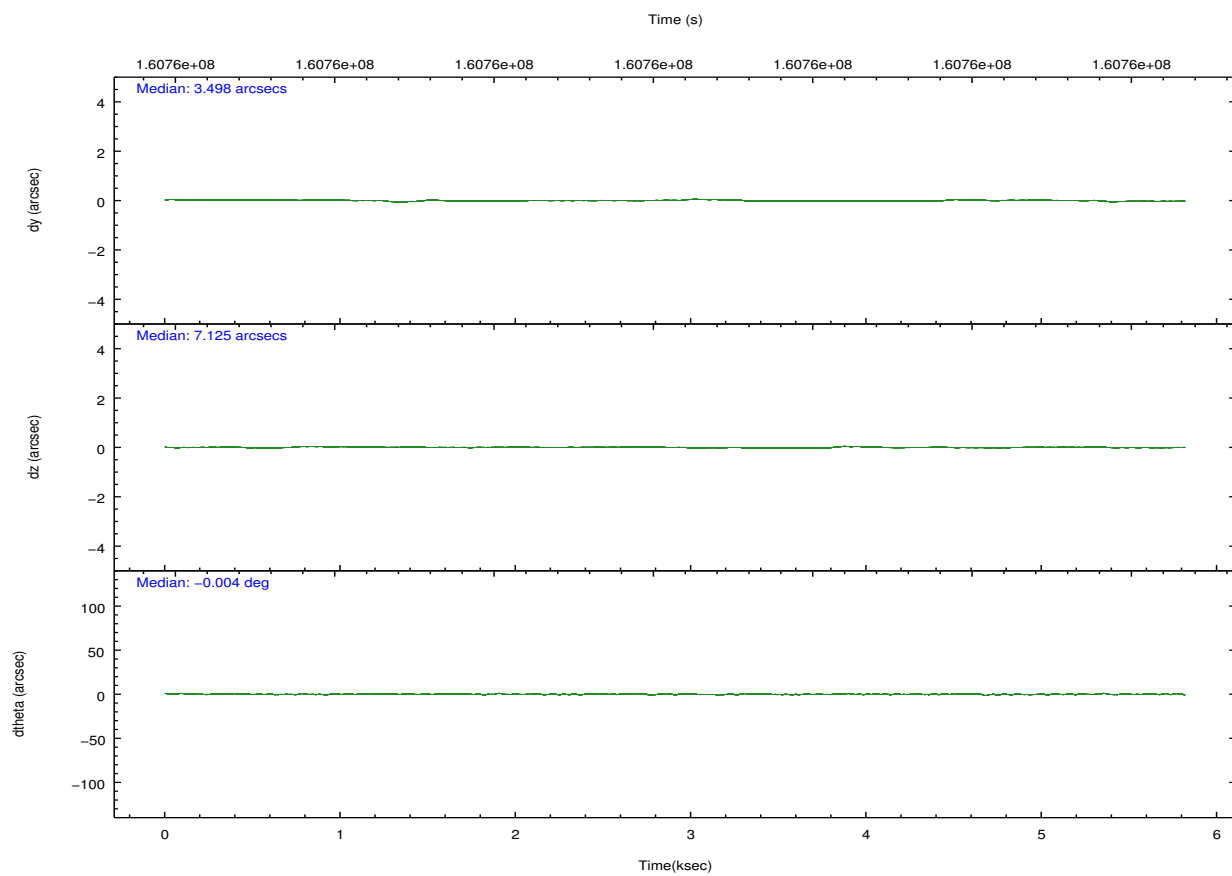
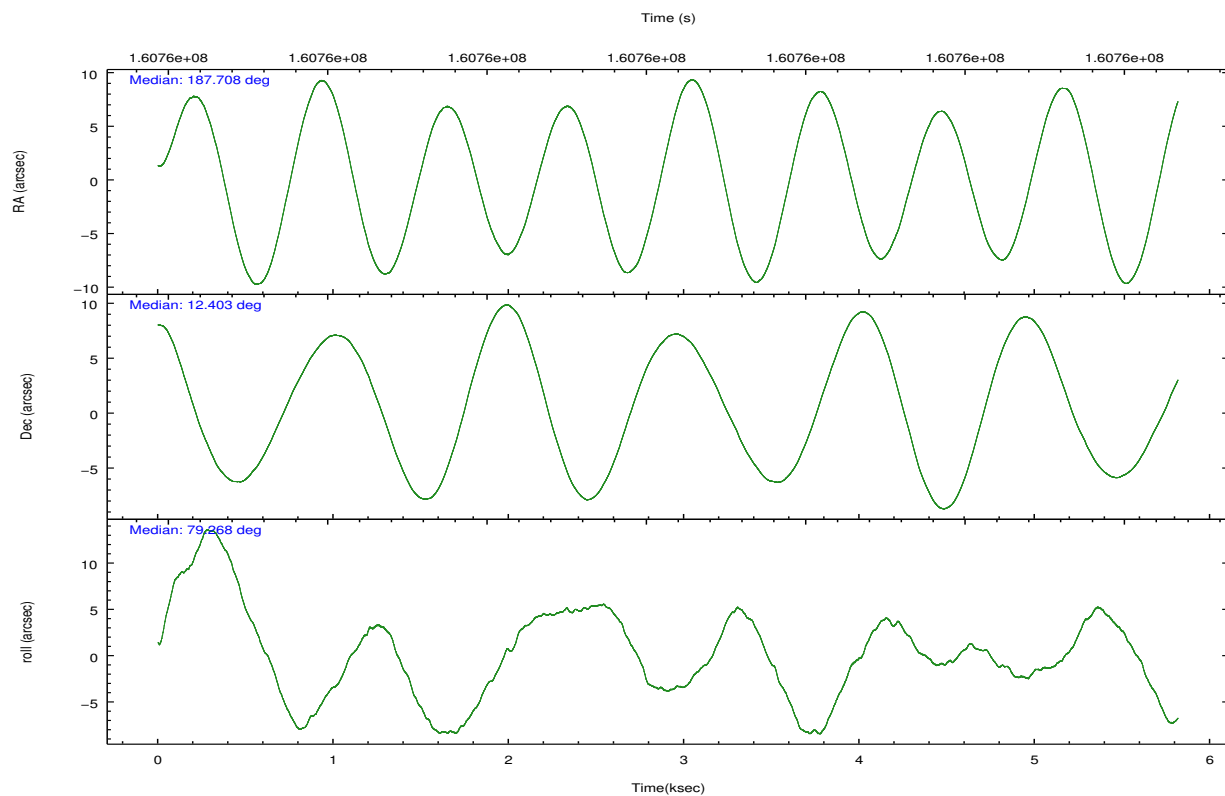
	ccd 7
grade 0 events	21617
	30%
grade 1 events	111
	0%
grade 2 events	16930
	24%
grade 3 events	7773
	11%
grade 4 events	7622
	10%
grade 5 events	1147
	1%
grade 6 events	11952
	16%
grade 7 events	3164
	4%

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	187.717790	187.7082091783615	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.377902	12.40341769047728	Subarray start row	449	449
[deg] Pointing Roll	79.110871	79.26956379136101	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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	160756979.184000	160755732.30495			
Observation start date	2003-02-04T14:41:55	2003-02-04T14:22:12			
[s] Observation end time (MET)	160762044.184000	160762250.79273			
Observation end date	2003-02-04T16:06:20	2003-02-04T16:10:50			
Read mode	TIMED	TIMED			

2.3 Aspect



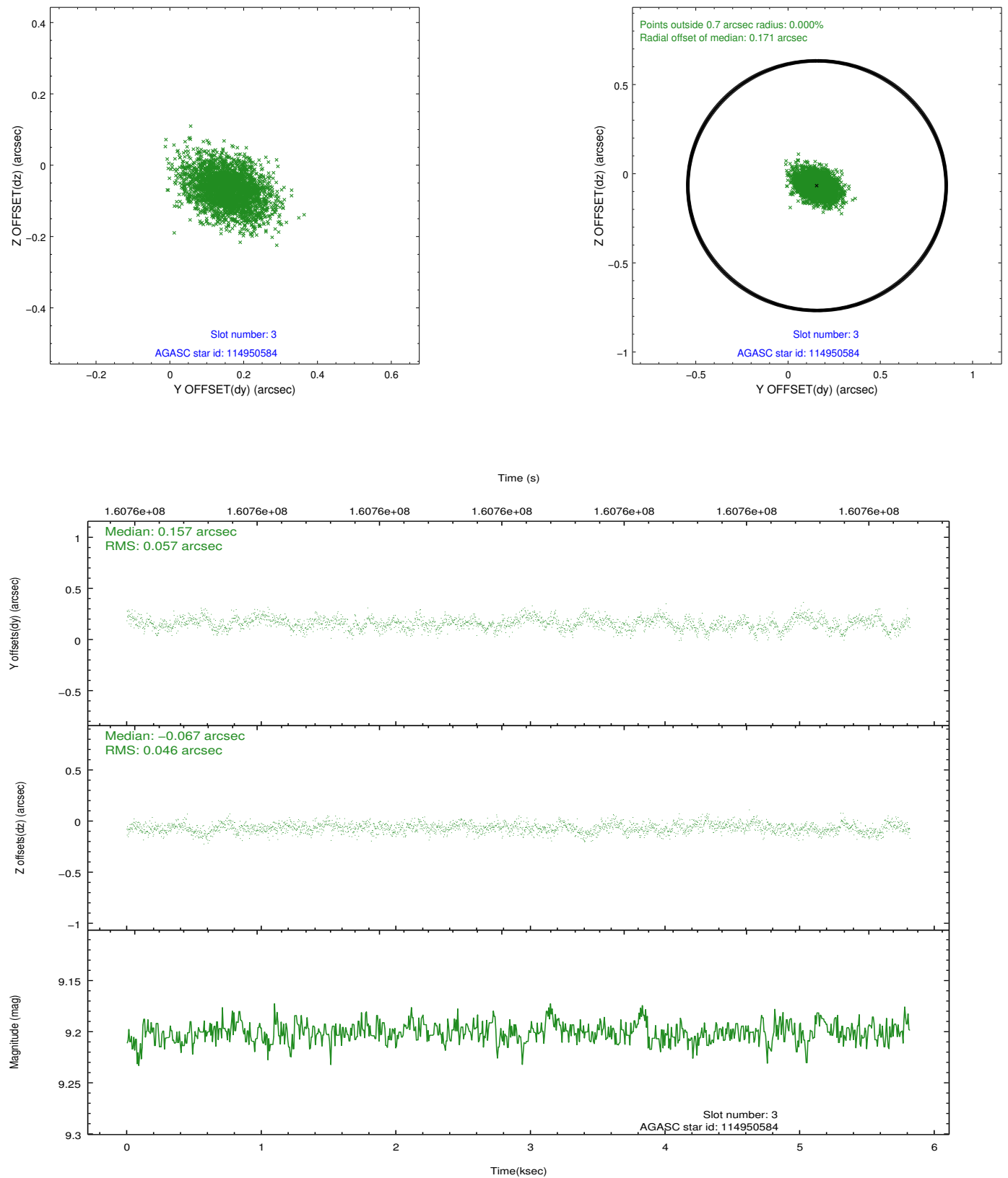


Slot Statistics

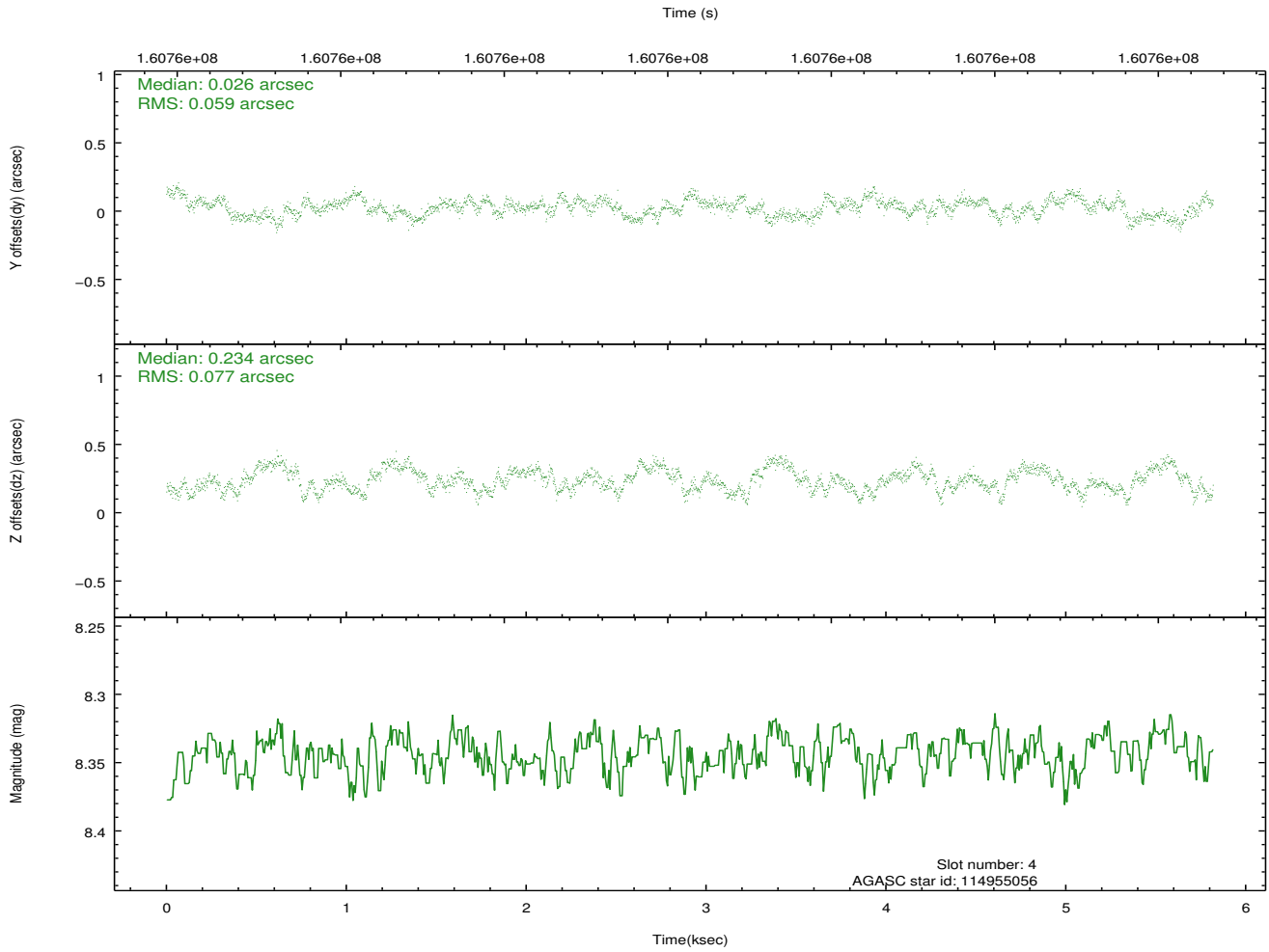
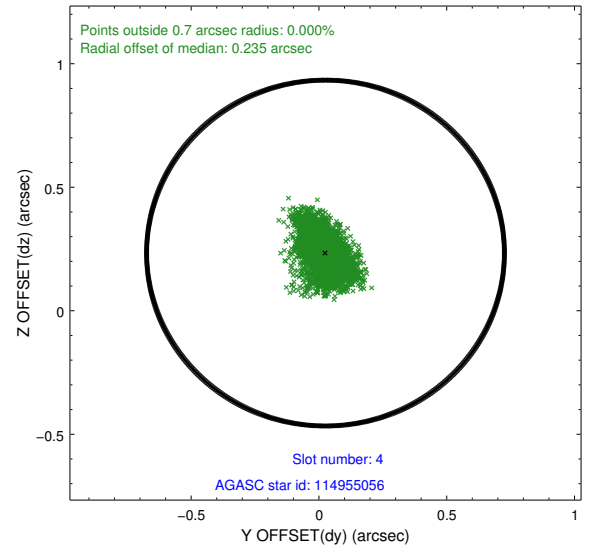
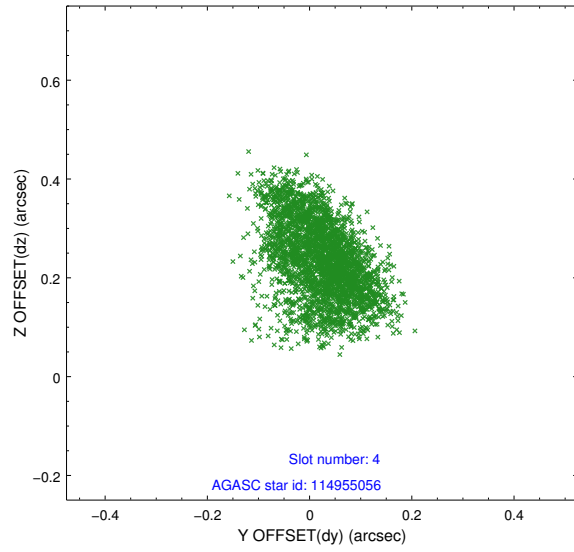
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	1419	-0.011	0.010	0.006	0.011	0.000000	0.000000	-756.16	-1728.28
1	FID	ACIS-S-4	7.20	1419	-0.000	0.003	0.005	0.010	0.000000	0.000000	2156.66	179.14
2	FID	ACIS-S-5	7.24	1420	-0.020	-0.004	0.007	0.011	0.000000	0.000000	-1807.70	173.96
3	GUIDE	114950584	9.20	2832	0.157	-0.067	0.076	0.132	187.487323	11.827248	-2099.37	423.14
4	GUIDE	114955056	8.34	2838	0.026	0.234	0.105	0.165	187.914001	12.127854	-753.70	-847.66
5	GUIDE	114956144	9.79	2838	0.008	-0.046	0.123	0.195	187.100545	12.039156	-1605.94	1904.64
6	GUIDE	115348424	9.53	2839	-0.067	-0.054	0.097	0.156	187.199498	13.087929	2168.10	2268.77
7	GUIDE	114952824	8.55	2838	-0.126	-0.066	0.072	0.113	187.703904	12.486727	376.35	122.89

2.4 Star Slots

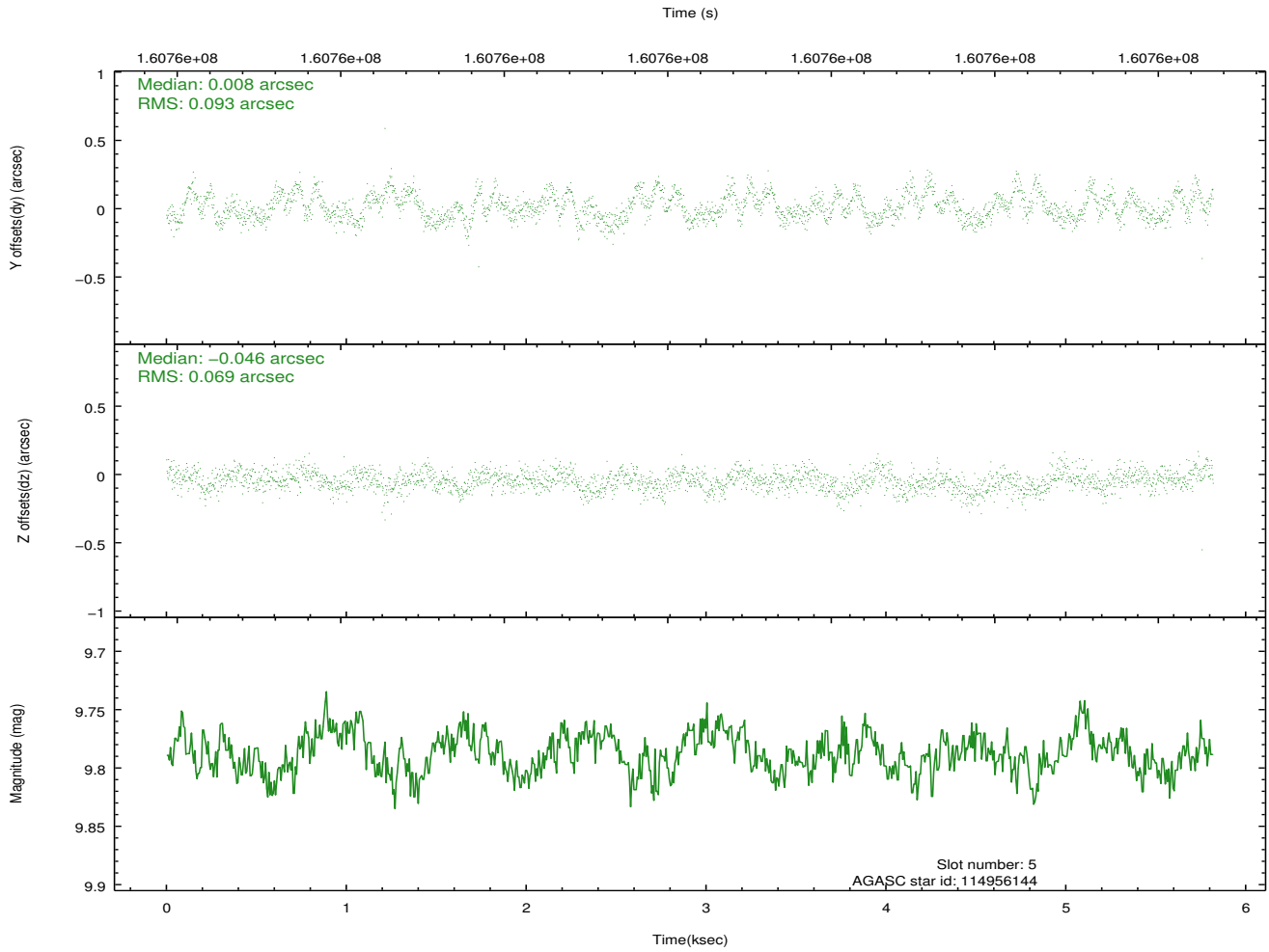
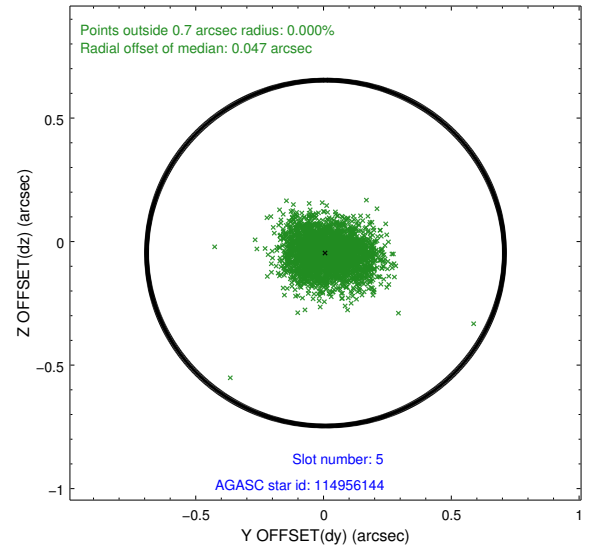
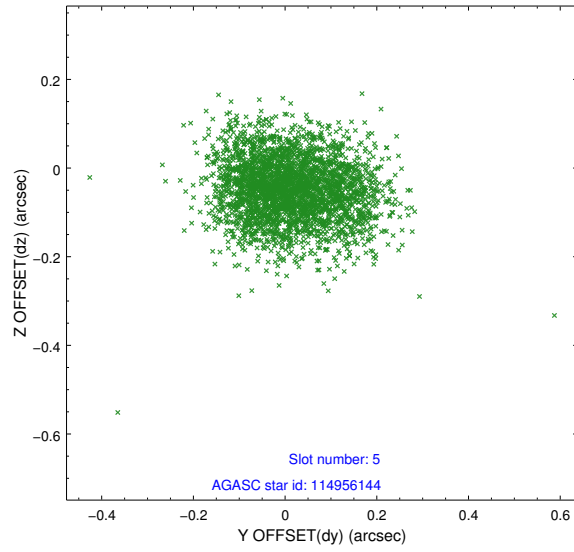
2.4.1 Slot 3



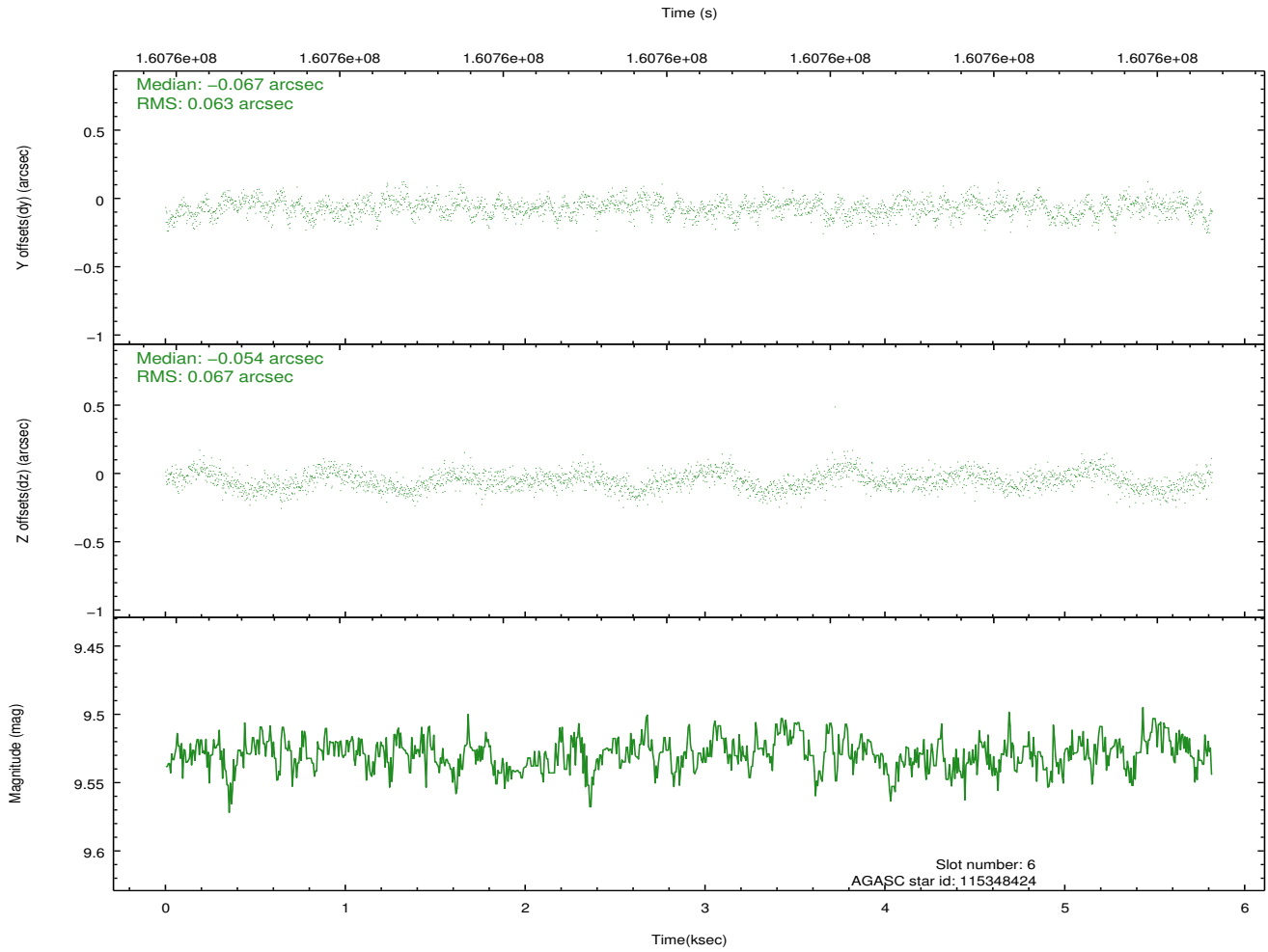
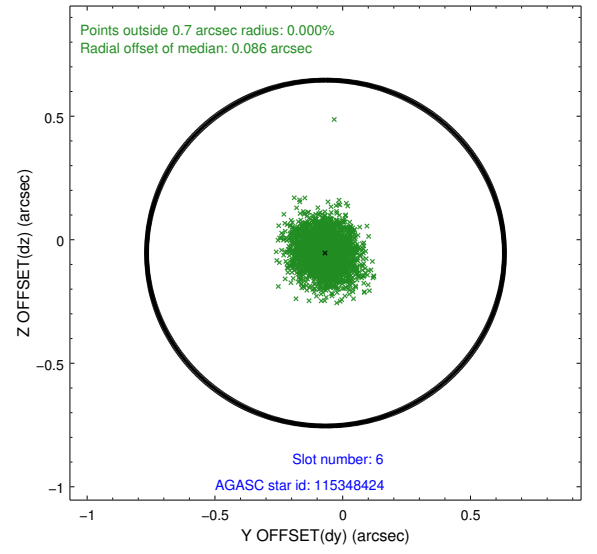
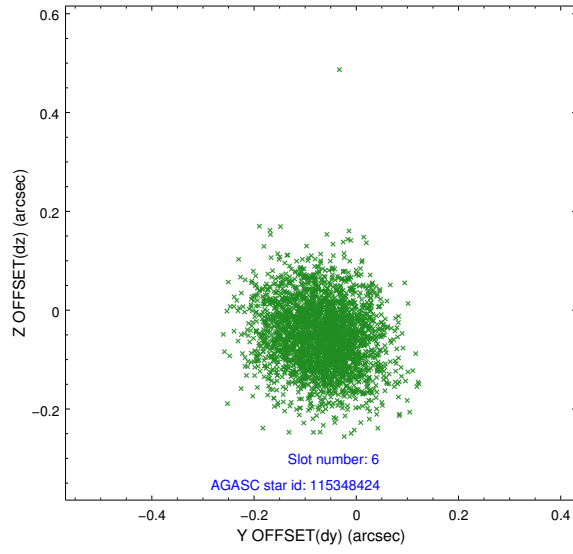
2.4.2 Slot 4



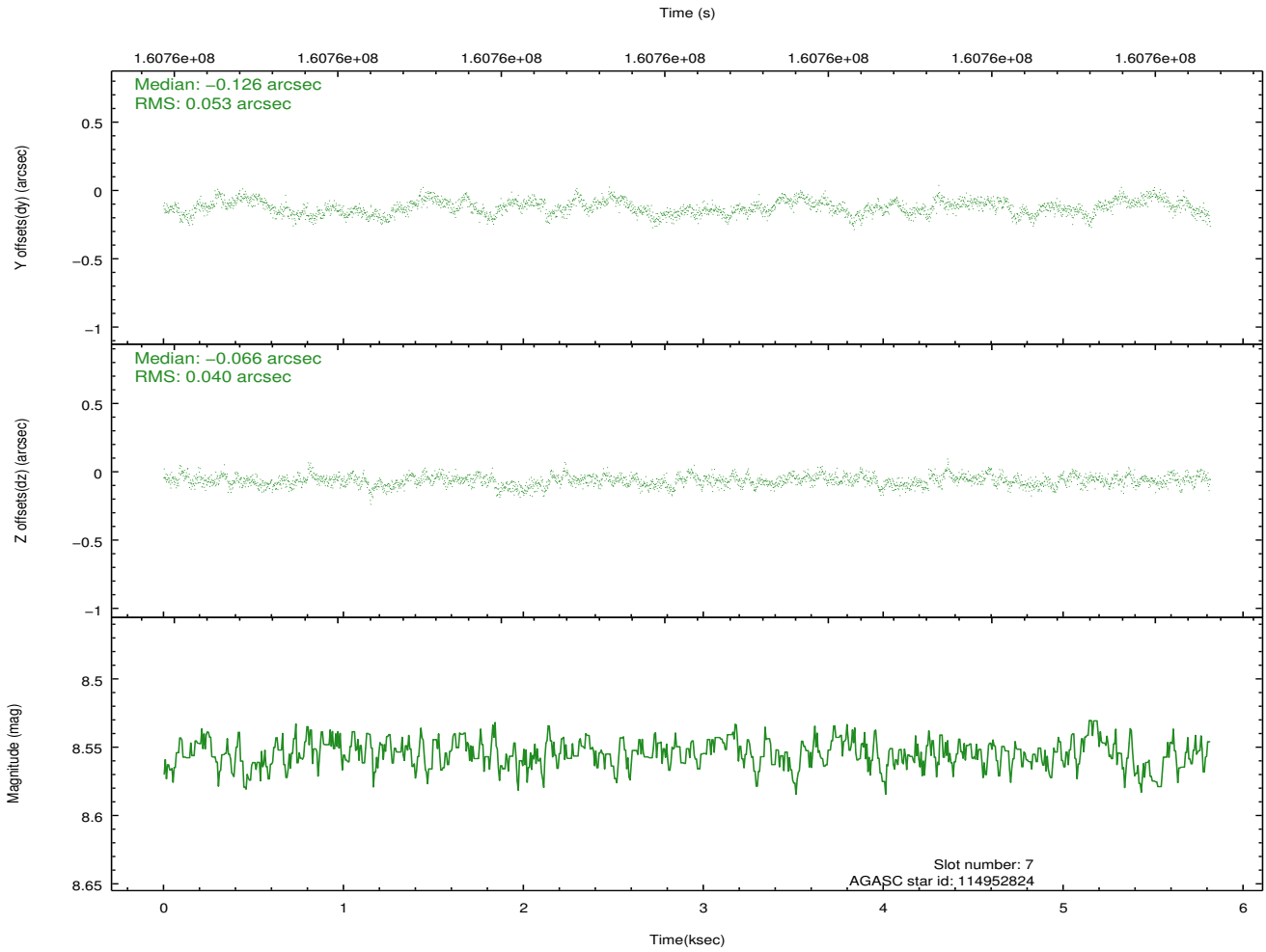
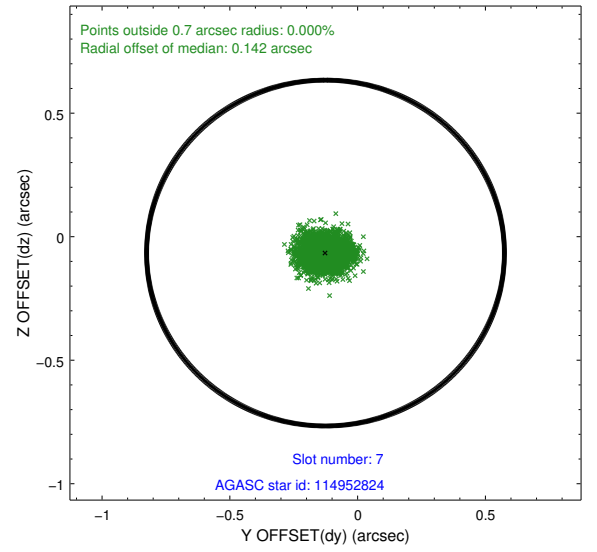
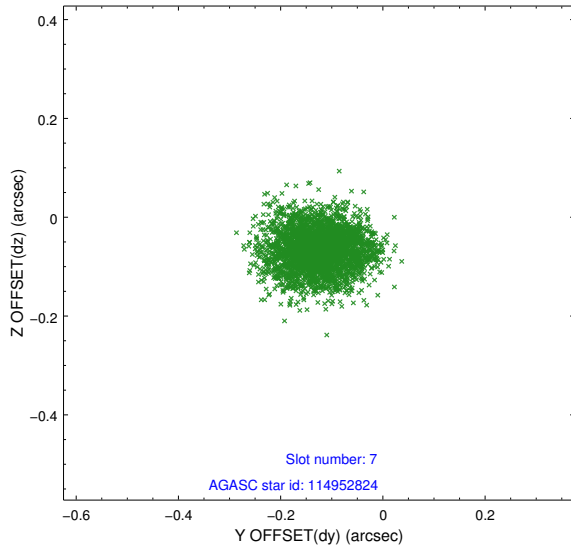
2.4.3 Slot 5



2.4.4 Slot 6

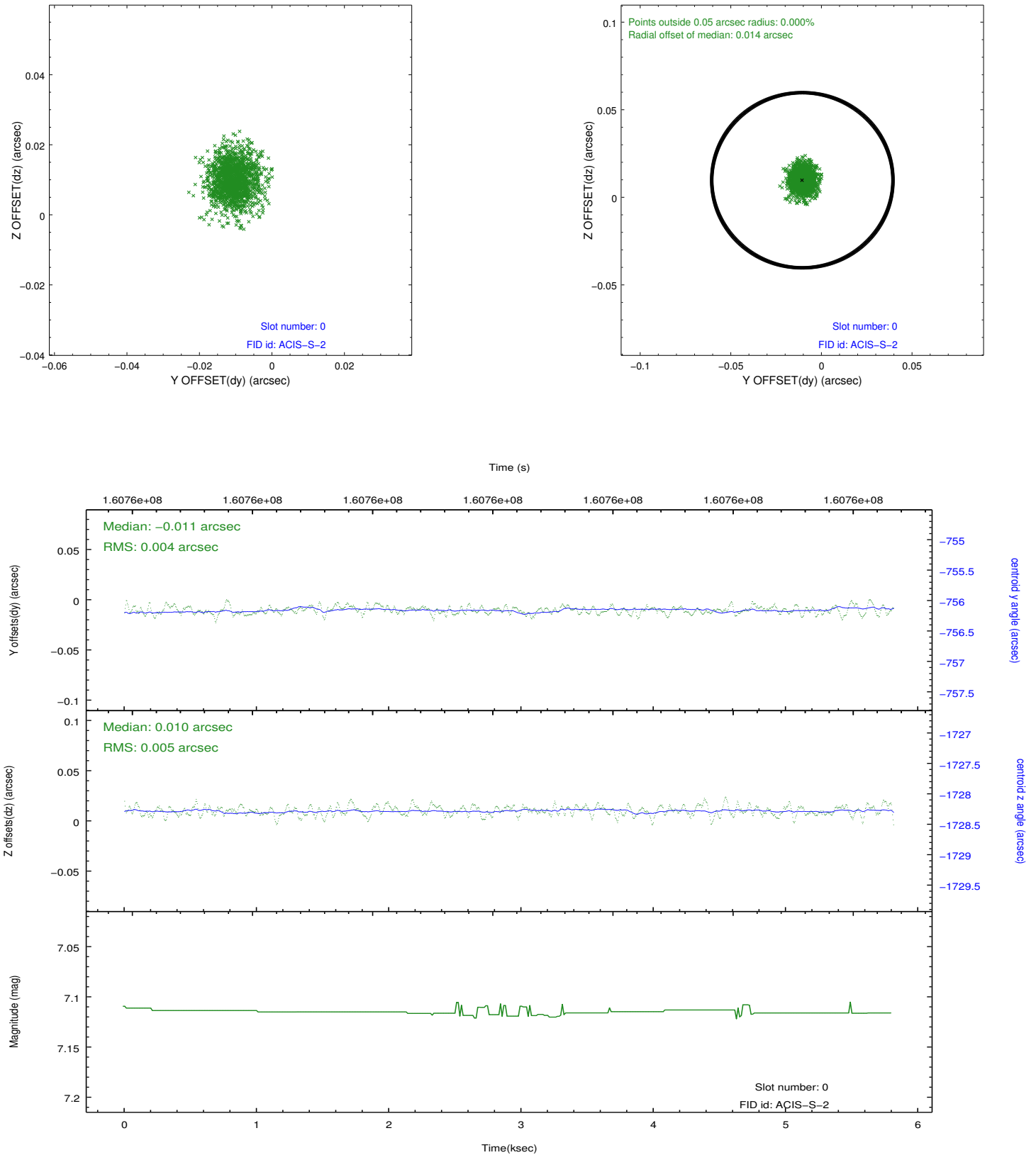


2.4.5 Slot 7

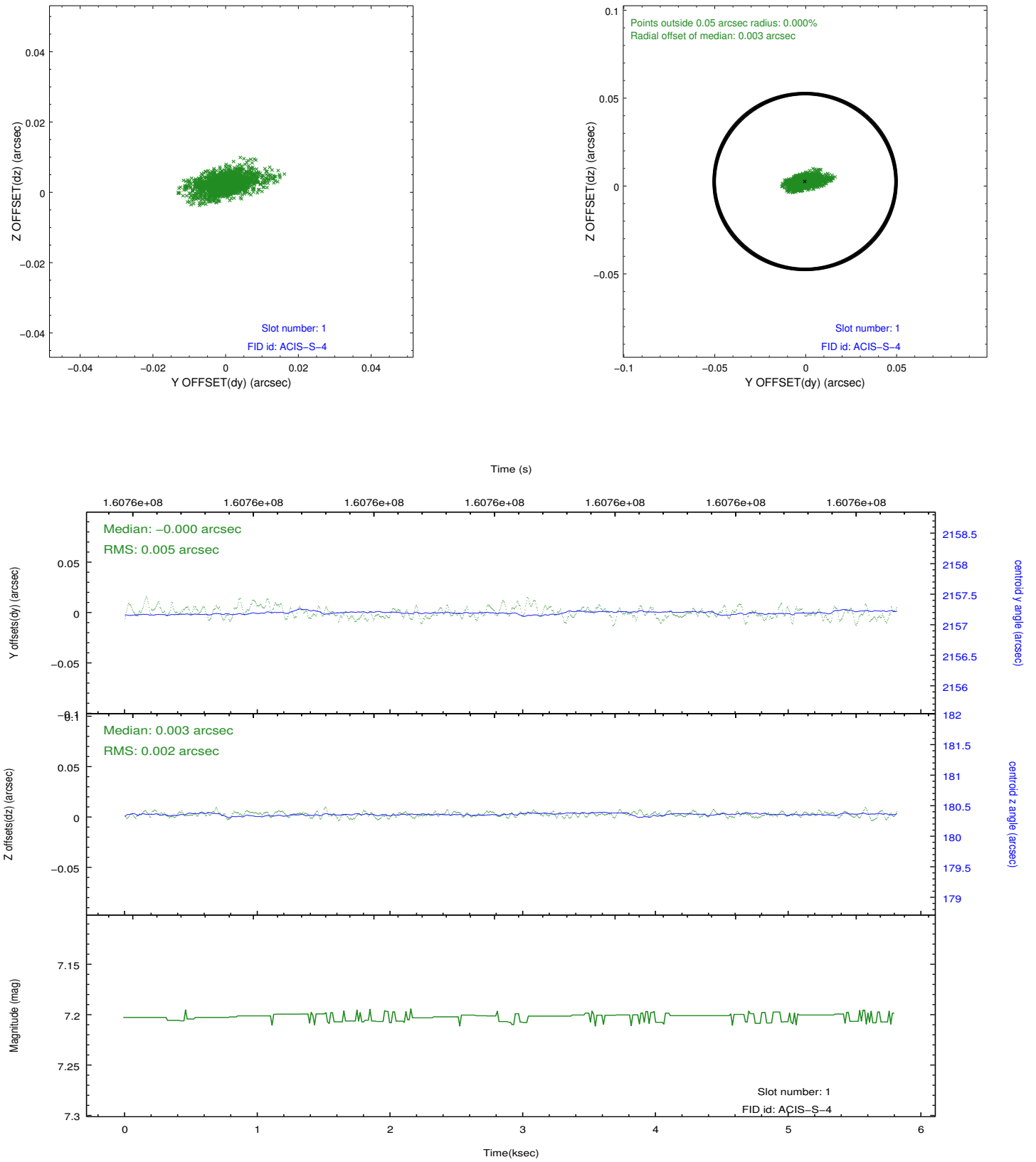


2.5 FID Slots

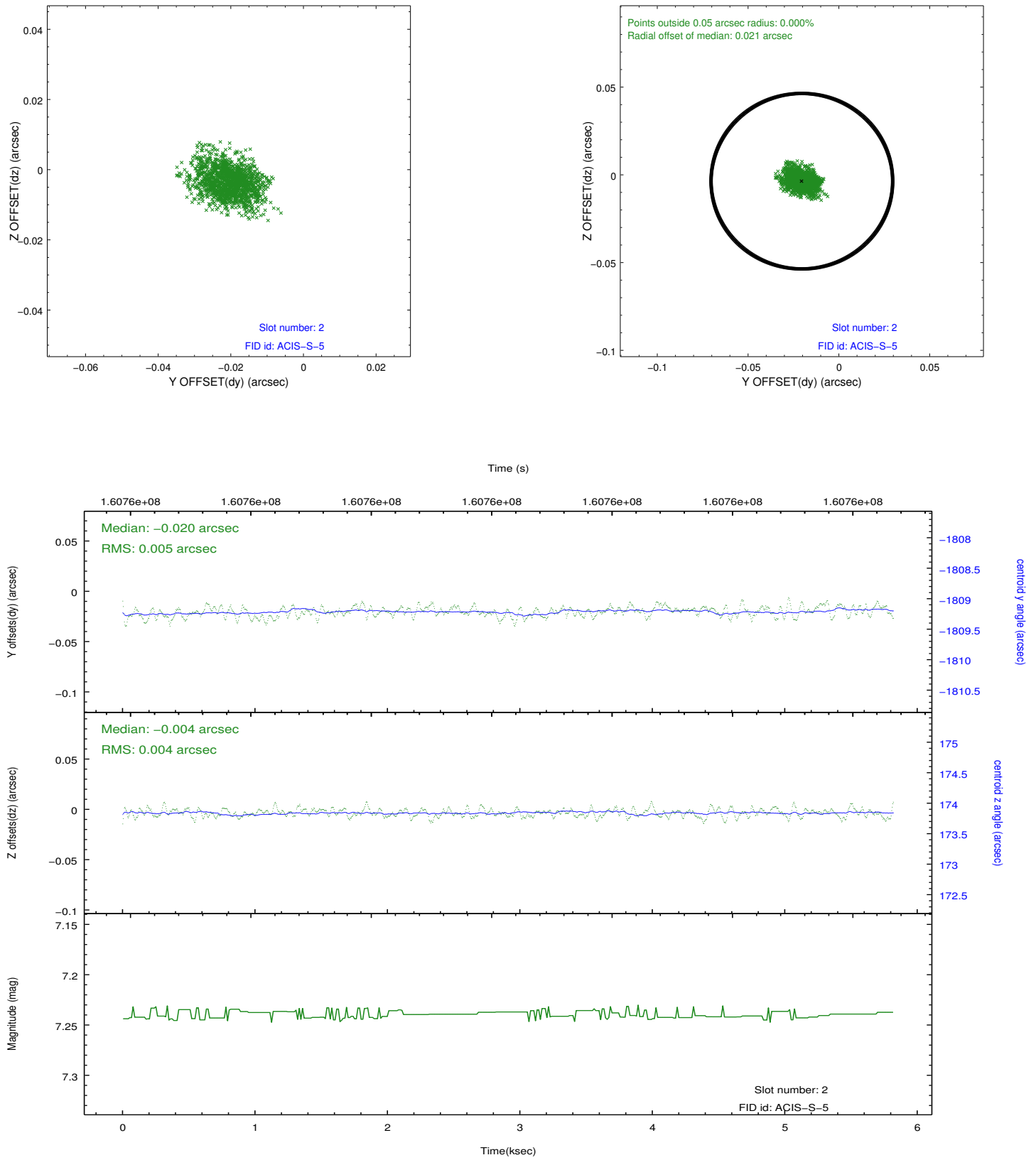
2.5.1 Slot 0



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)	2012.11.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.817

A.2 Comments

Monitor constraint met.