

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 525 - L2 Version 3
Chandra X-Ray Center

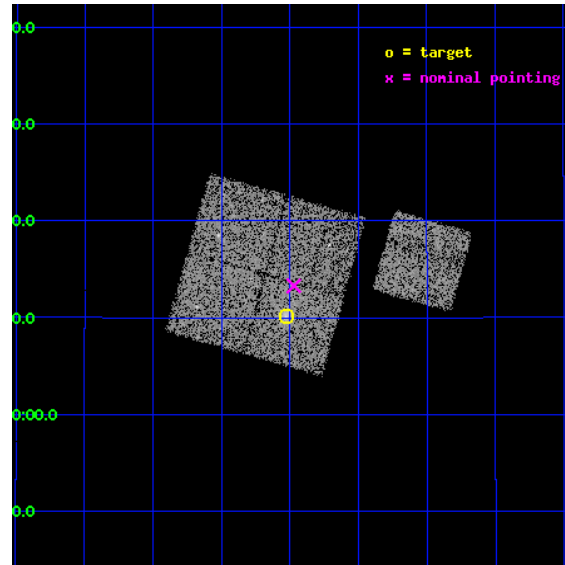
L2 Processing Date : Sep 5 2012

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1 Front

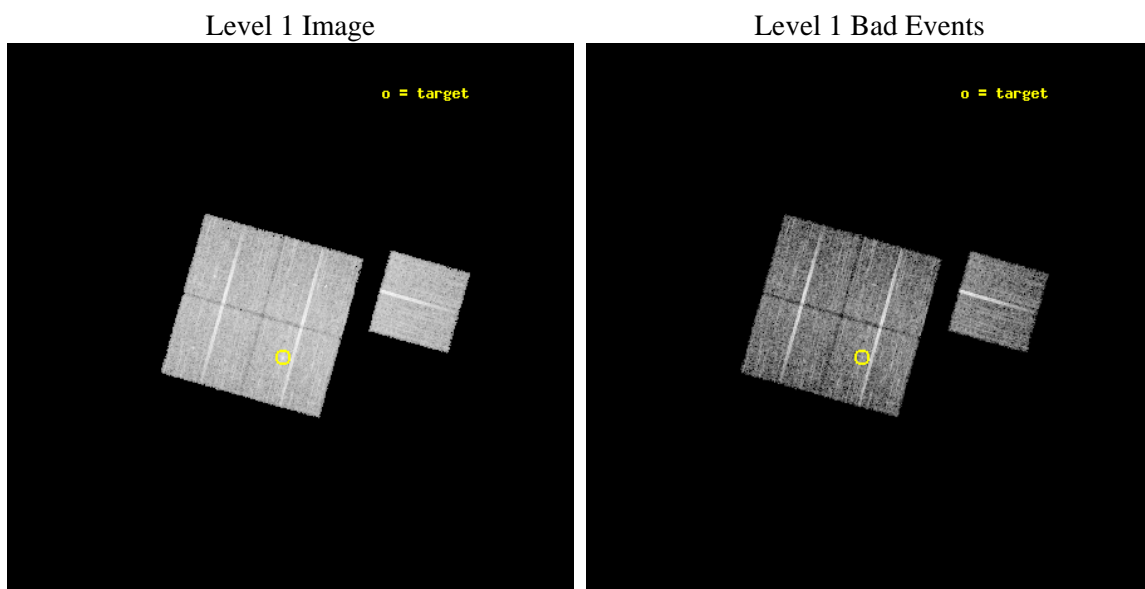
seq_num	800033	Sequence number
obs_id	525	Observation id
title	DETERMINATION OF H0/Q0	Proposal title
observer	DR. LEON VANSPEYBROECK	Principal investigator
object	MS 0302.7+1658	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	46.38125	Observer's specified target RA [deg]
dec_targ	17.168542	Observer's specified target Dec [deg]
ra_nom	46.367849231384	Nominal RA [deg]
dec_nom	17.221497339558	Nominal Dec [deg]
roll_nom	105.8021715235	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10166.400009453	Sum of GTIs [s]
livetime	10037.666931062	Livetime [s]
ontime0	10159.918009102	Sum of GTIs [s]
ontime1	10166.400009453	Sum of GTIs [s]
ontime2	10166.400009453	Sum of GTIs [s]
ontime3	10166.400009453	Sum of GTIs [s]
ontime6	10166.400009453	Sum of GTIs [s]
l2events	30401	Number of level 2 events



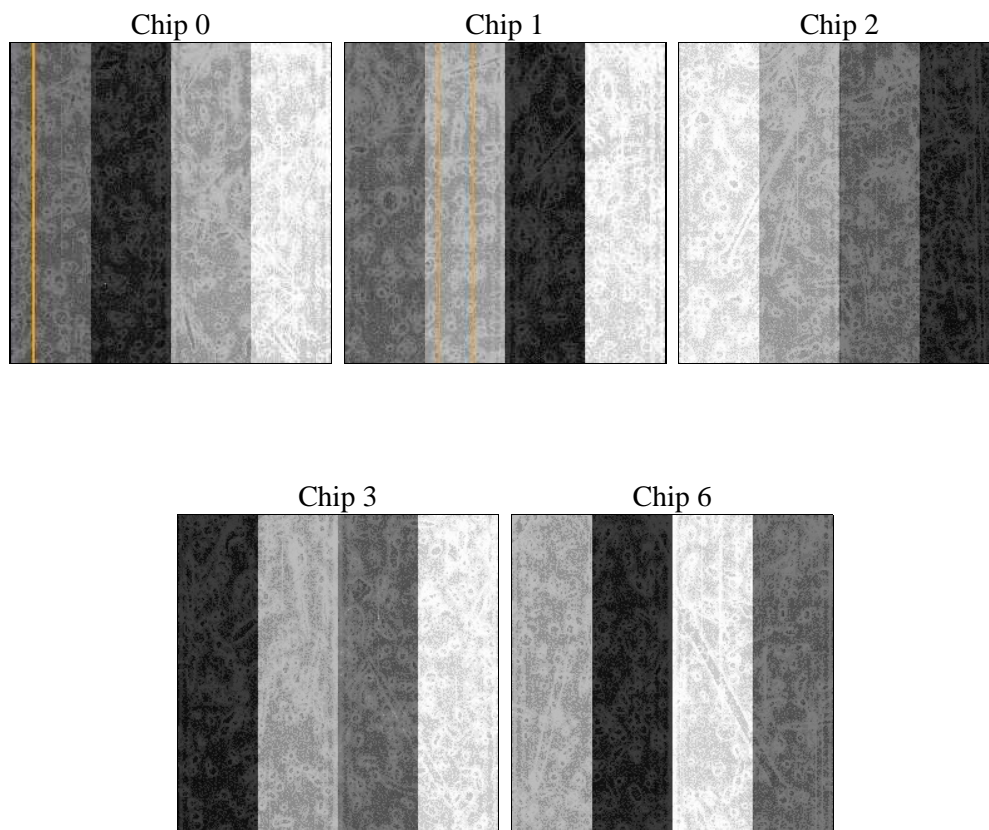
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	10166.400009453	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime0	10159.918009102	Sum of GTIs [s]
date	2012-09-05T15:06:35	Date and time of file creation	ontime1	10166.400009453	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	10166.400009453	Sum of GTIs [s]
			ontime3	10166.400009453	Sum of GTIs [s]
			ontime6	10166.400009453	Sum of GTIs [s]
			l1events	299090	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	56059	57129	62270	62505	61127
rejected events	48966	49612	55565	55026	54343
rejected %	87%	86%	89%	88%	88%

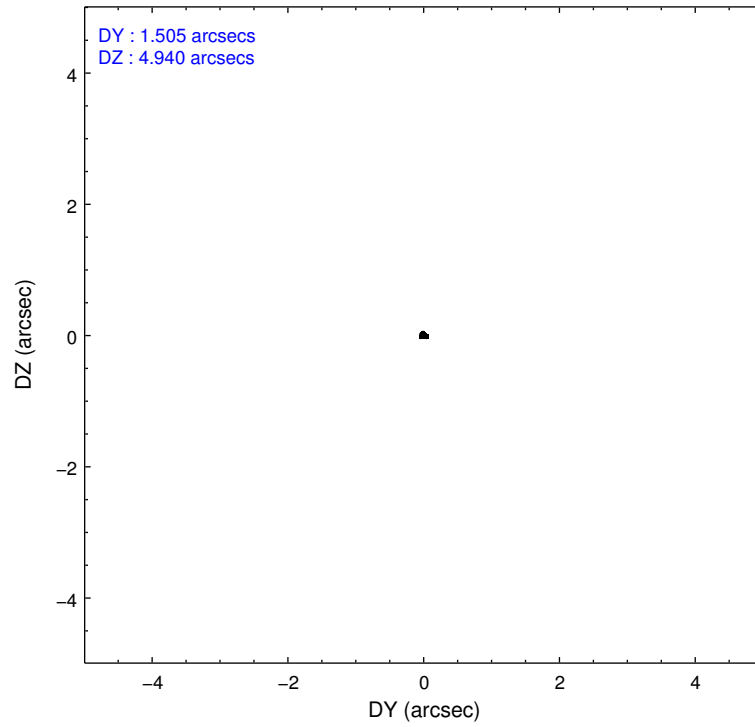
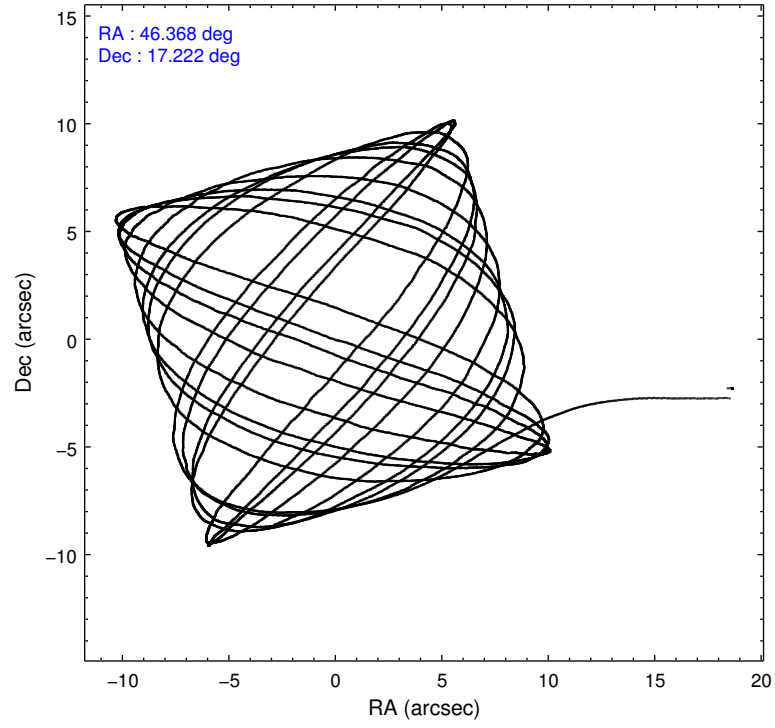
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3146	3184	2896	3617	2752
	5%	5%	4%	5%	4%
grade 1 events	32	28	22	17	32
	0%	0%	0%	0%	0%
grade 2 events	1480	1517	1394	1424	1351
	2%	2%	2%	2%	2%
grade 3 events	656	773	640	682	676
	1%	1%	1%	1%	1%
grade 4 events	647	724	618	625	680
	1%	1%	0%	0%	1%
grade 5 events	2066	2280	2058	2294	2352
	3%	3%	3%	3%	3%
grade 6 events	1201	1339	1184	1164	1337
	2%	2%	1%	1%	2%
grade 7 events	46831	47284	53458	52682	51947
	83%	82%	85%	84%	84%

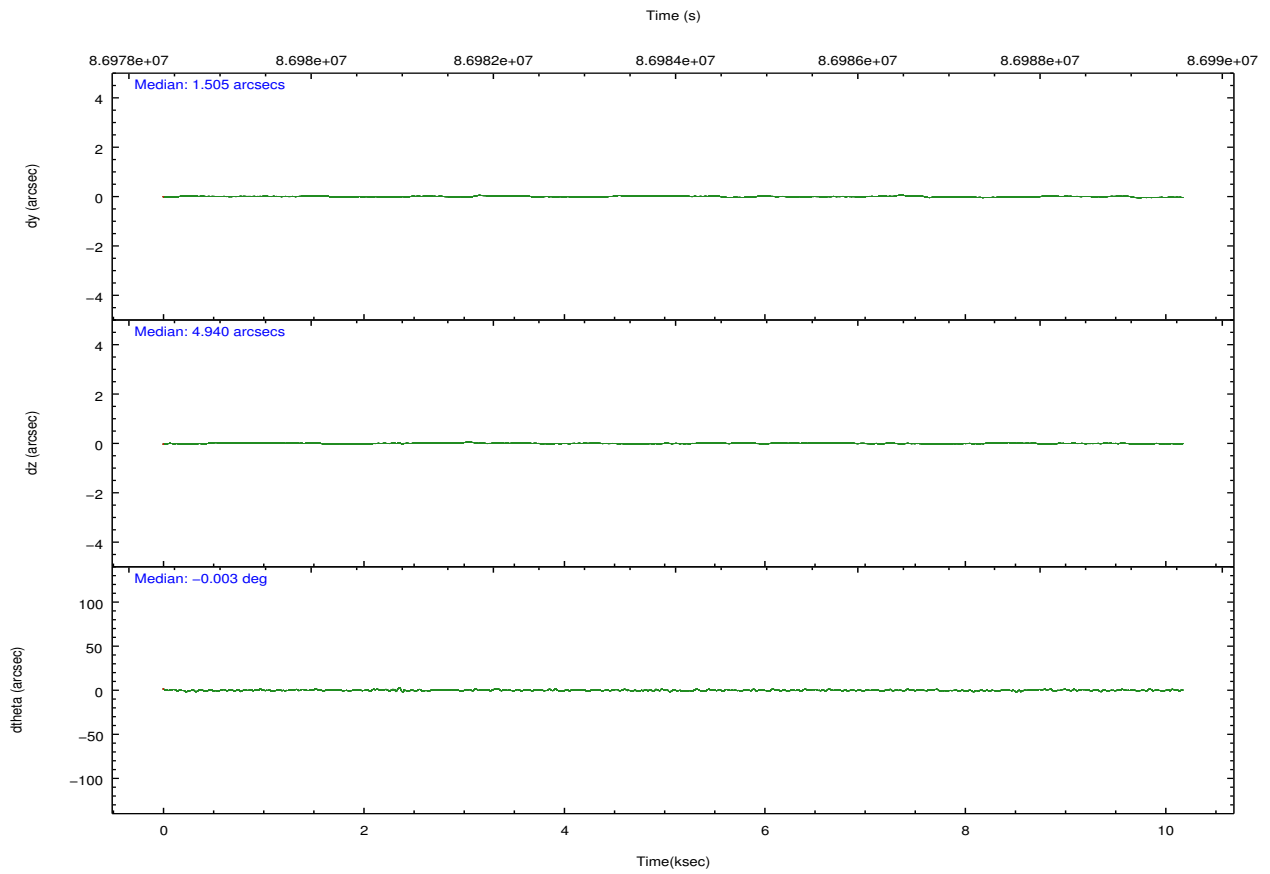
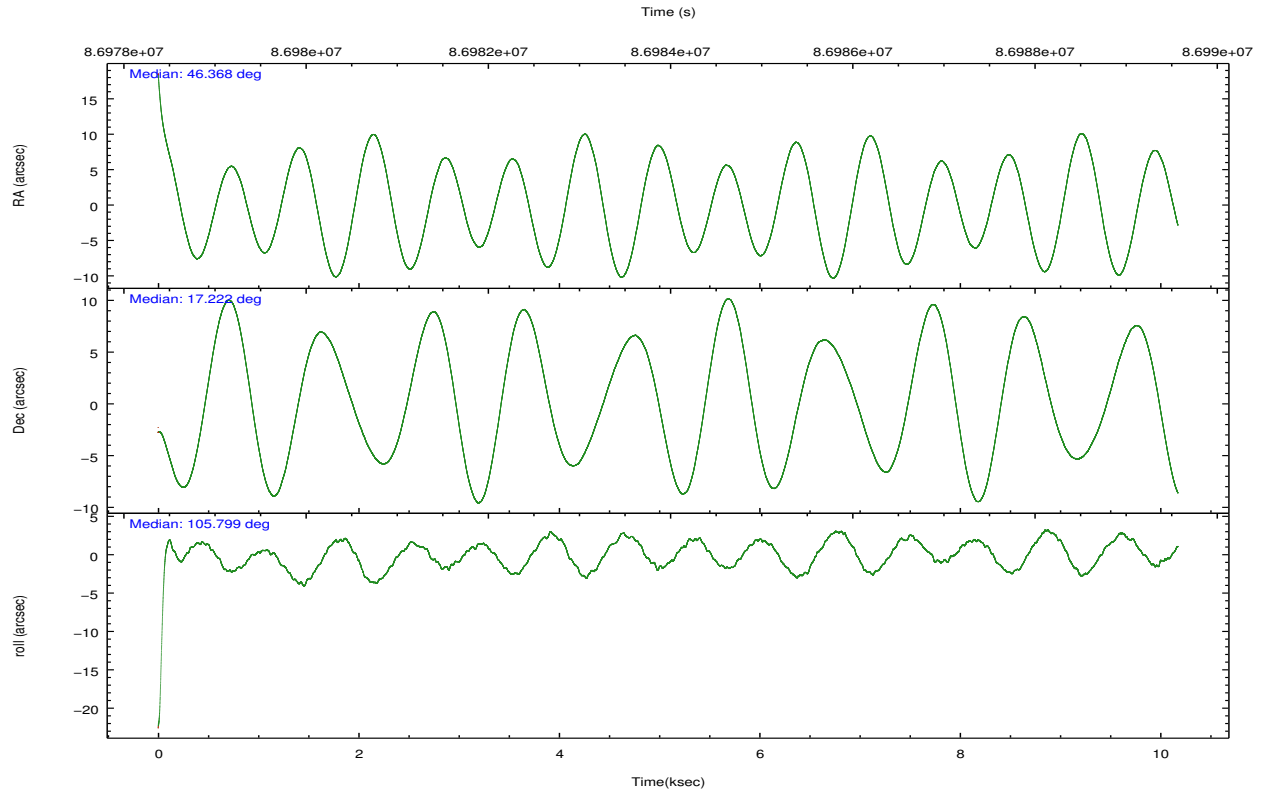
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	46.388418	46.36784923138442
[deg] Pointing Dec	17.202294	17.22149733955752
[deg] Pointing Roll	105.587423	105.8021715235024
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-225.840463	-225.848371962627
[mm] SIM translation stage offset	-7.752	-7.744081040302689
[s] Observation start time (MET)	86979059.184000	86978049.24534
Observation start date	2000-10-03T16:49:55	2000-10-03T16:34:09
[s] Observation end time (MET)	86989059.184000	86989967.43329
Observation end date	2000-10-03T19:36:35	2000-10-03T19:52:47
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	3.2

2.3 Aspect



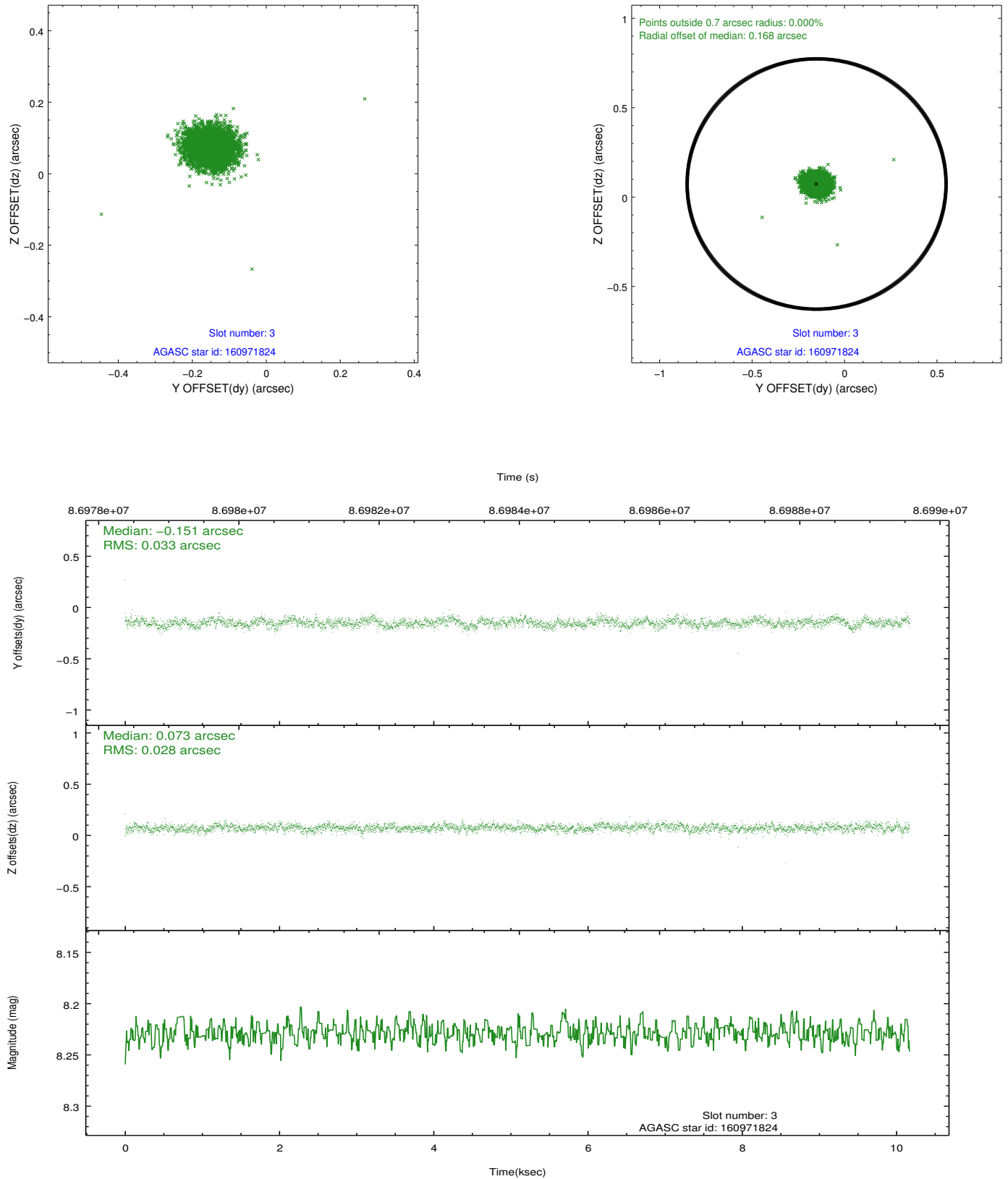


Slot Statistics

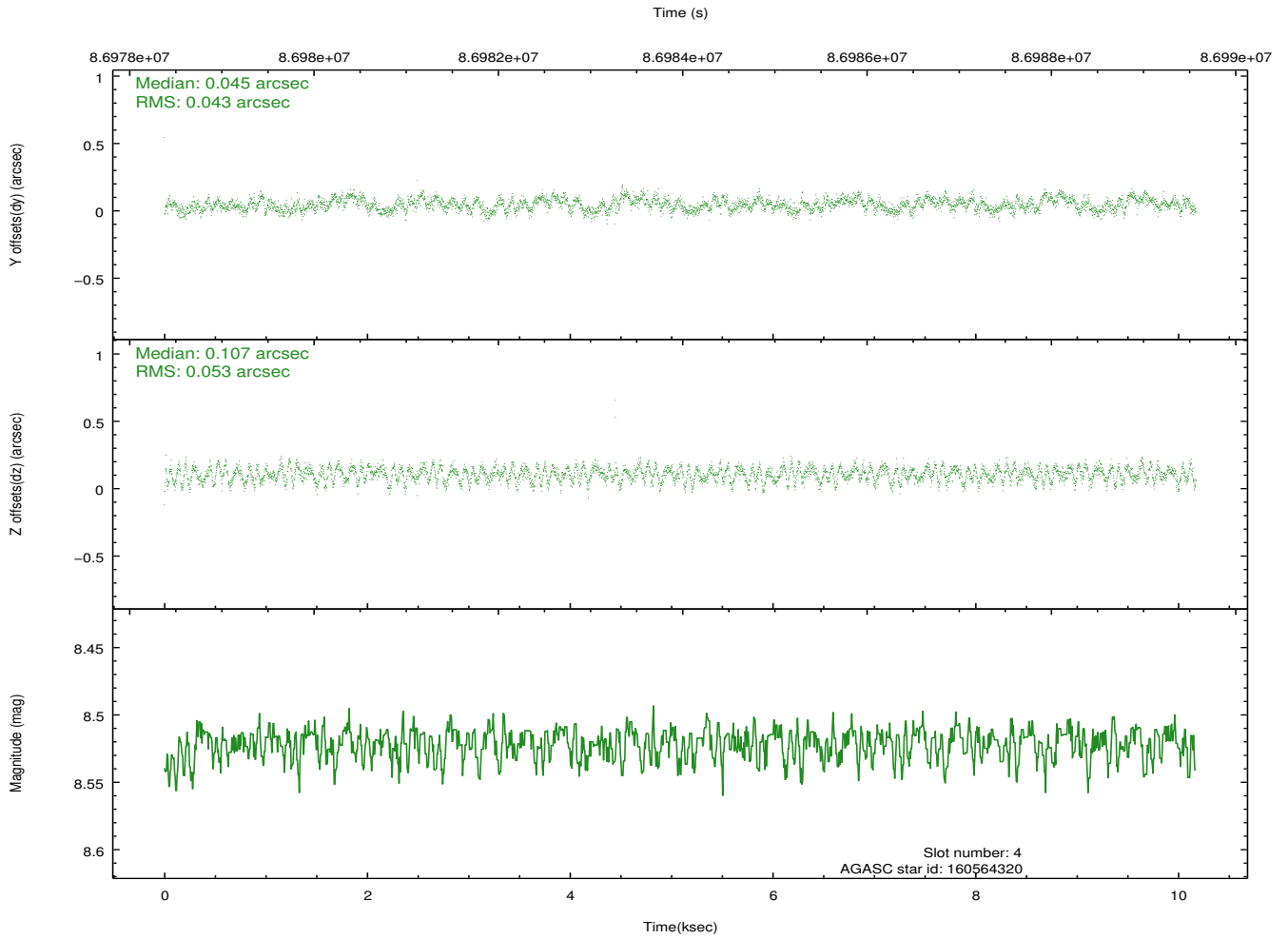
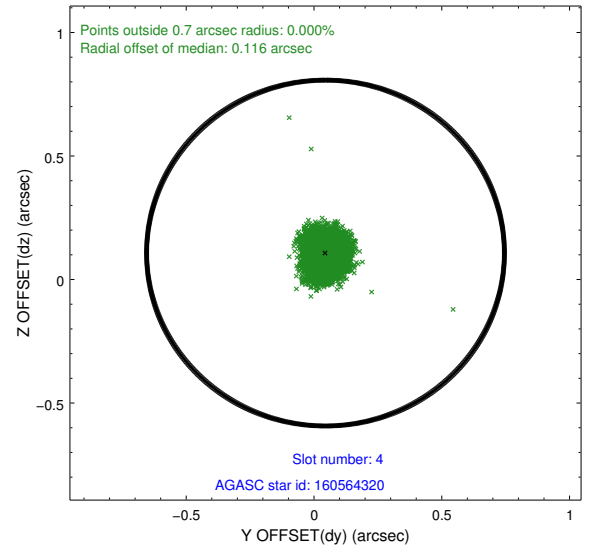
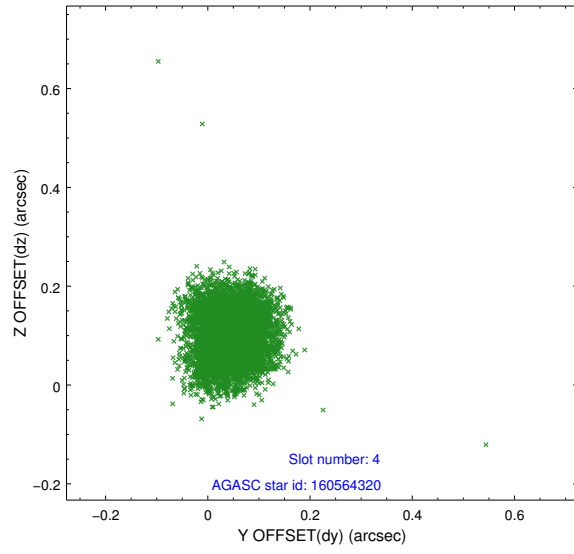
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.17	2482	-0.052	-0.051	0.009	0.017	0.000000	0.000000	-756.42	-992.65
1	FID	ACIS-I-4	7.15	2482	-0.028	0.051	0.007	0.011	0.000000	0.000000	2157.35	913.30
2	FID	ACIS-I-5	7.22	2482	-0.021	0.070	0.009	0.015	0.000000	0.000000	-1809.18	910.70
3	GUIDE	160971824	8.23	4963	-0.151	0.073	0.045	0.073	46.311119	17.635421	1572.99	-163.07
4	GUIDE	160564320	8.52	4964	0.045	0.107	0.073	0.113	47.024010	16.925465	-1544.38	-1841.38
5	GUIDE	160968984	9.12	4962	-0.104	-0.129	0.075	0.125	45.723184	17.565560	1876.44	1846.73
6	GUIDE	160569472	9.66	4962	0.132	-0.094	0.082	0.132	46.348961	16.986934	-709.86	339.76
7	GUIDE	160572288	9.59	4960	0.077	0.045	0.081	0.135	46.576803	17.115983	-473.28	-540.48

2.4 Star Slots

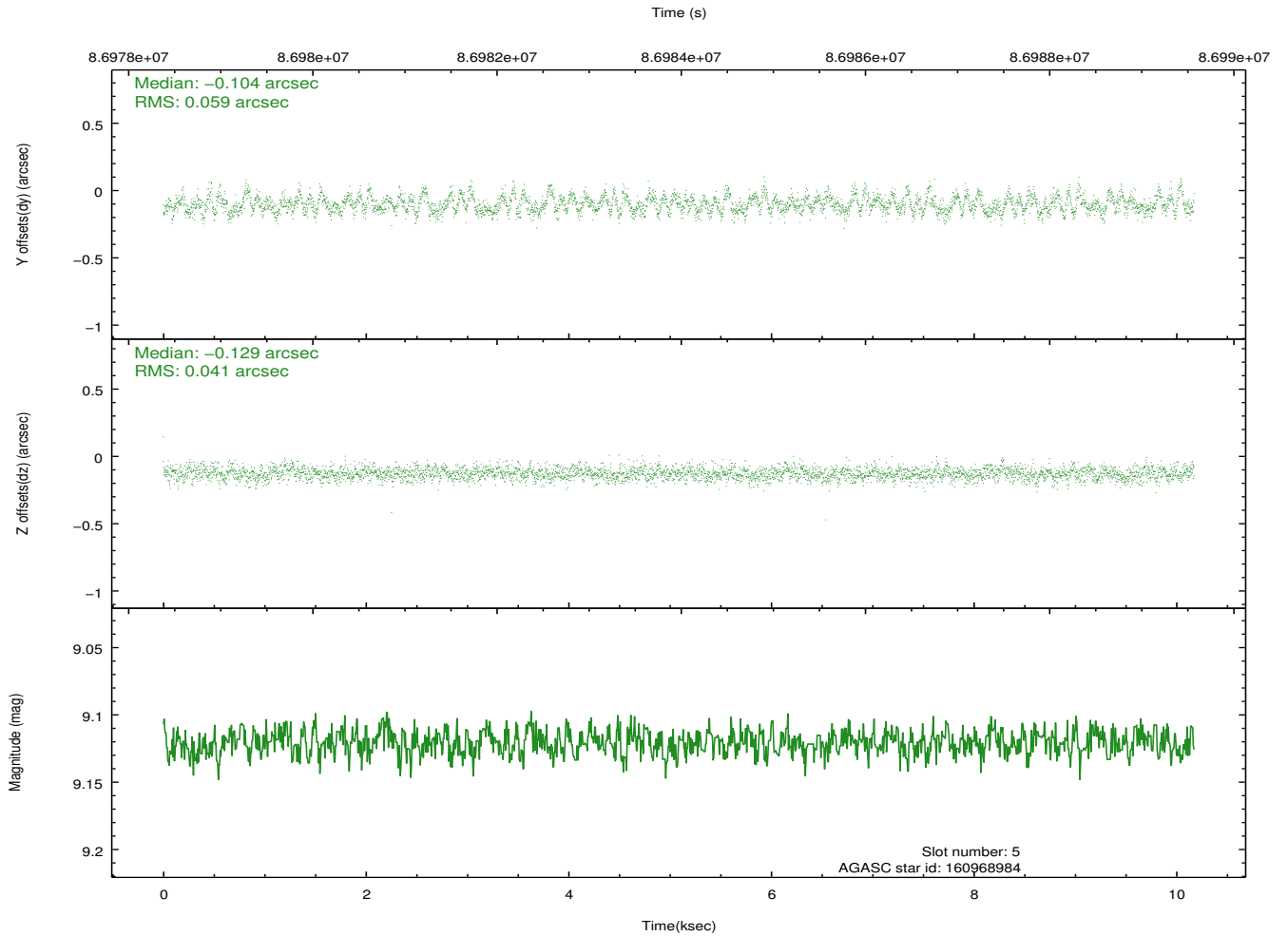
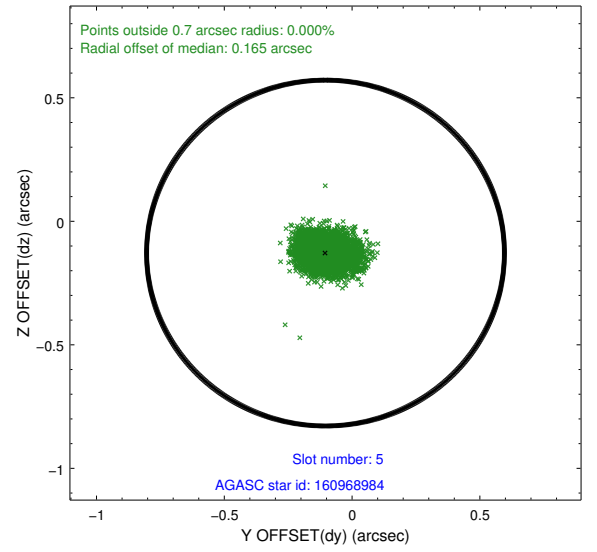
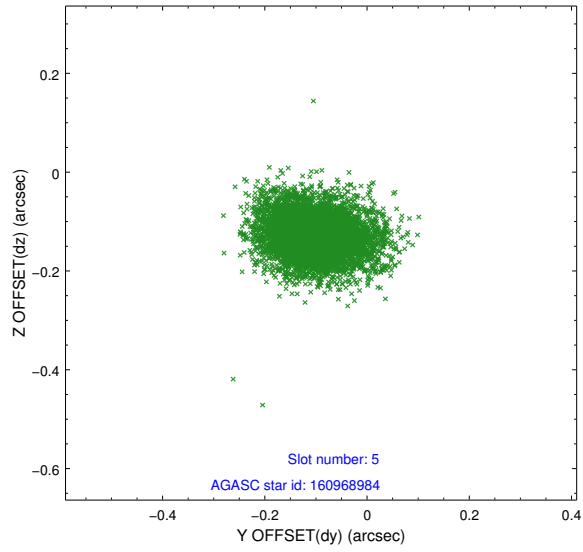
2.4.1 Slot 3



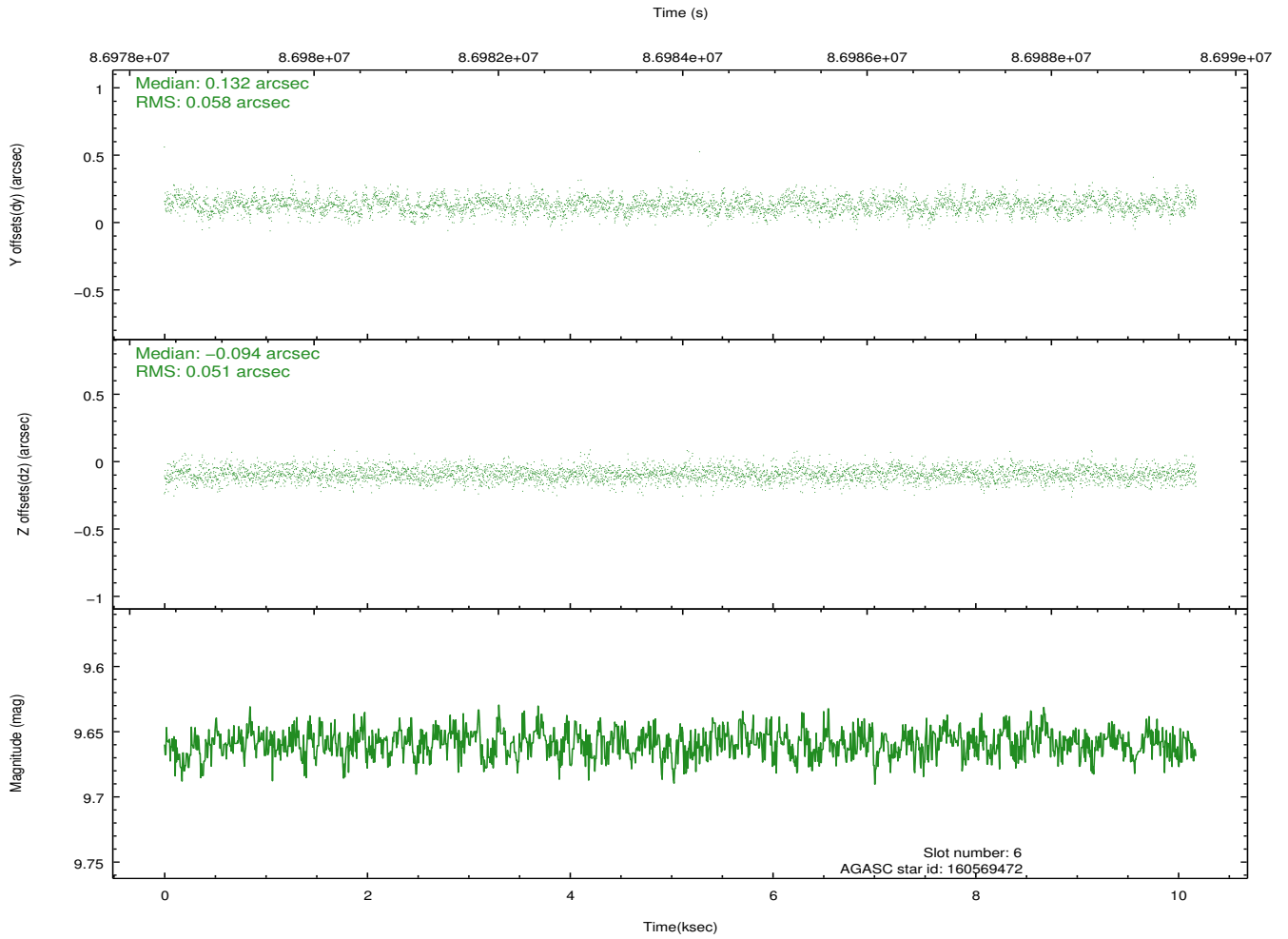
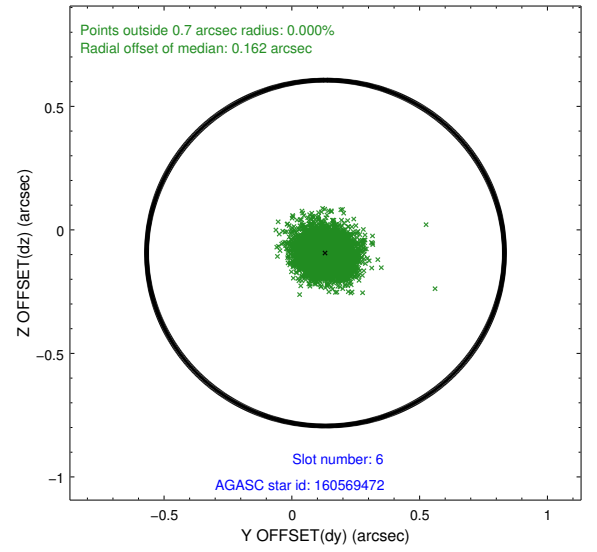
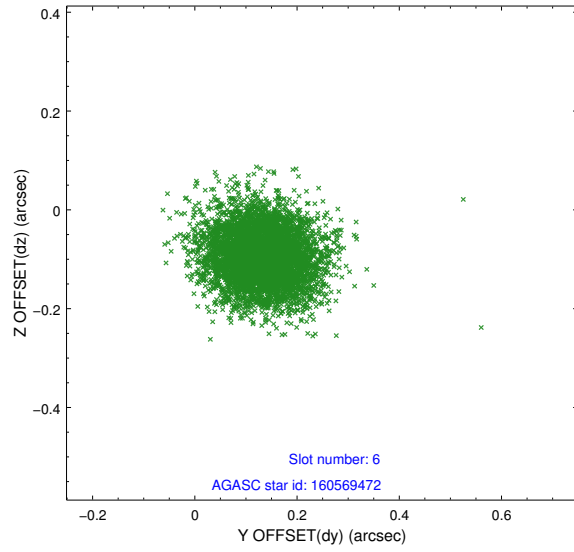
2.4.2 Slot 4



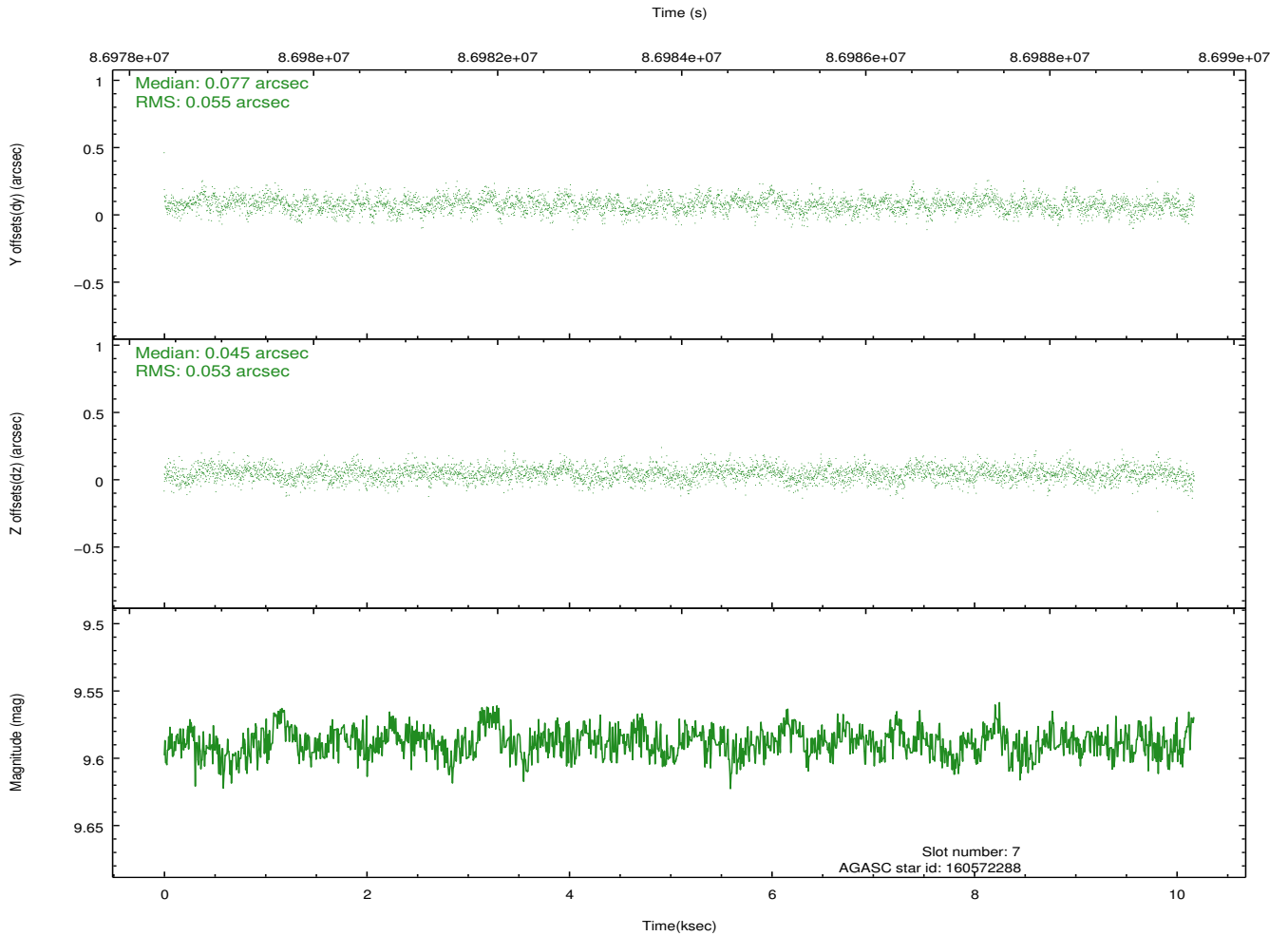
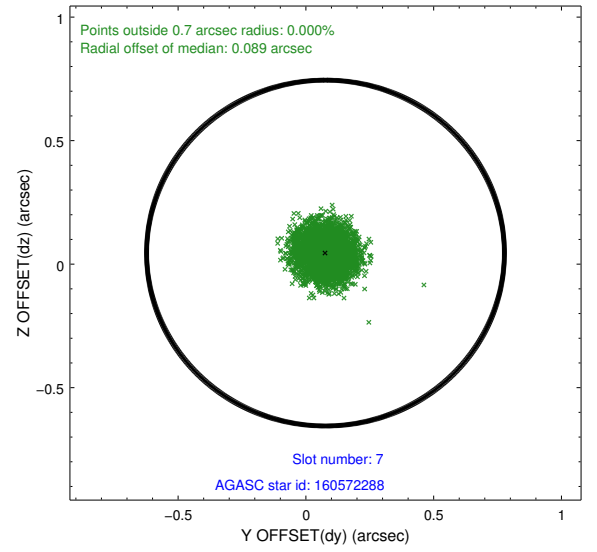
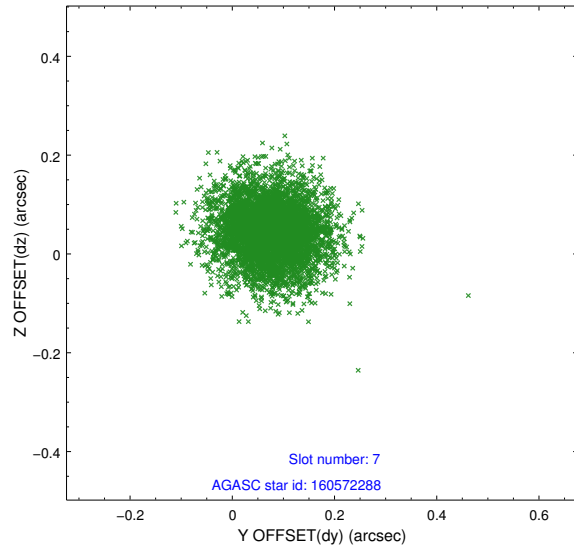
2.4.3 Slot 5



2.4.4 Slot 6

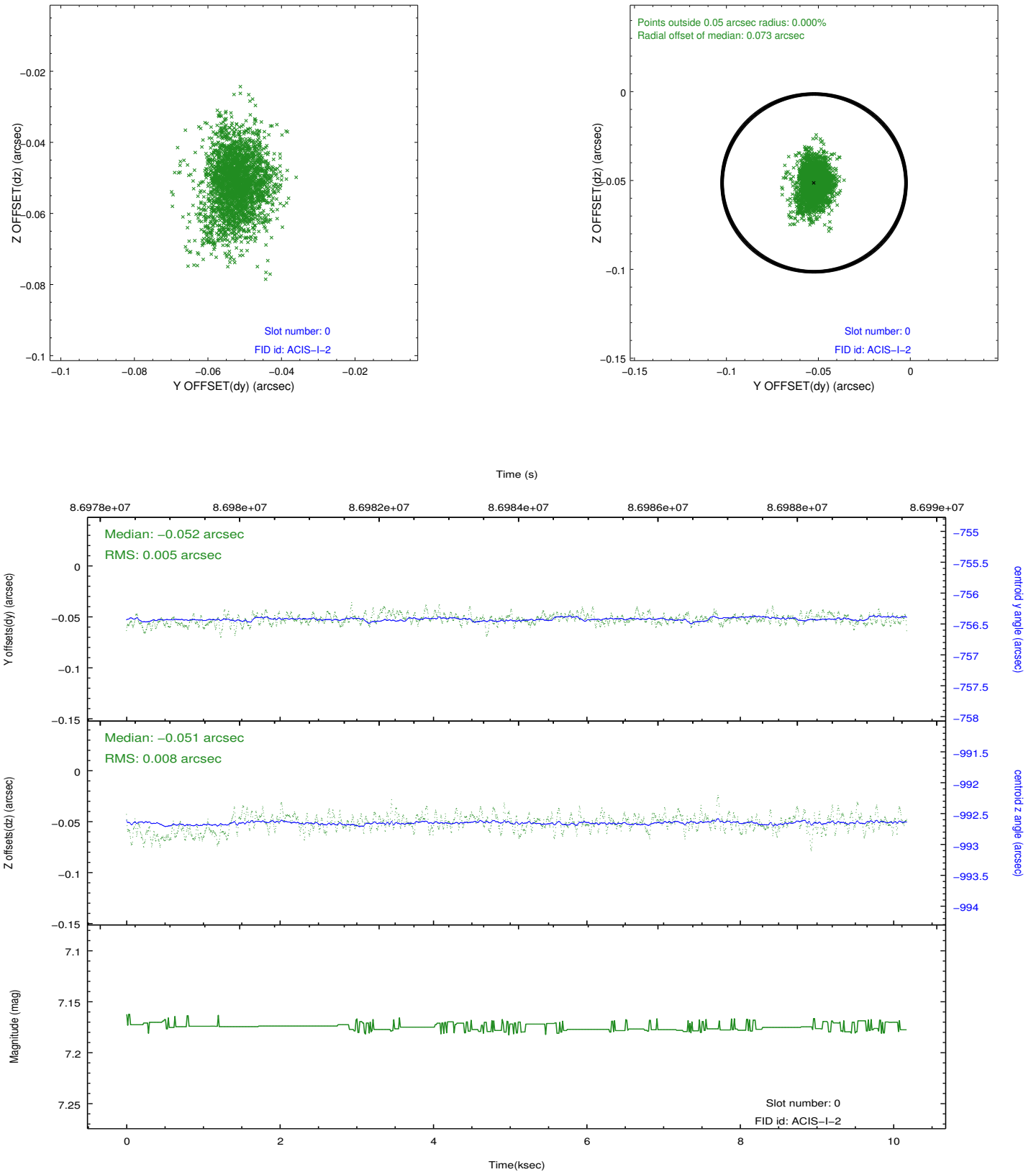


2.4.5 Slot 7

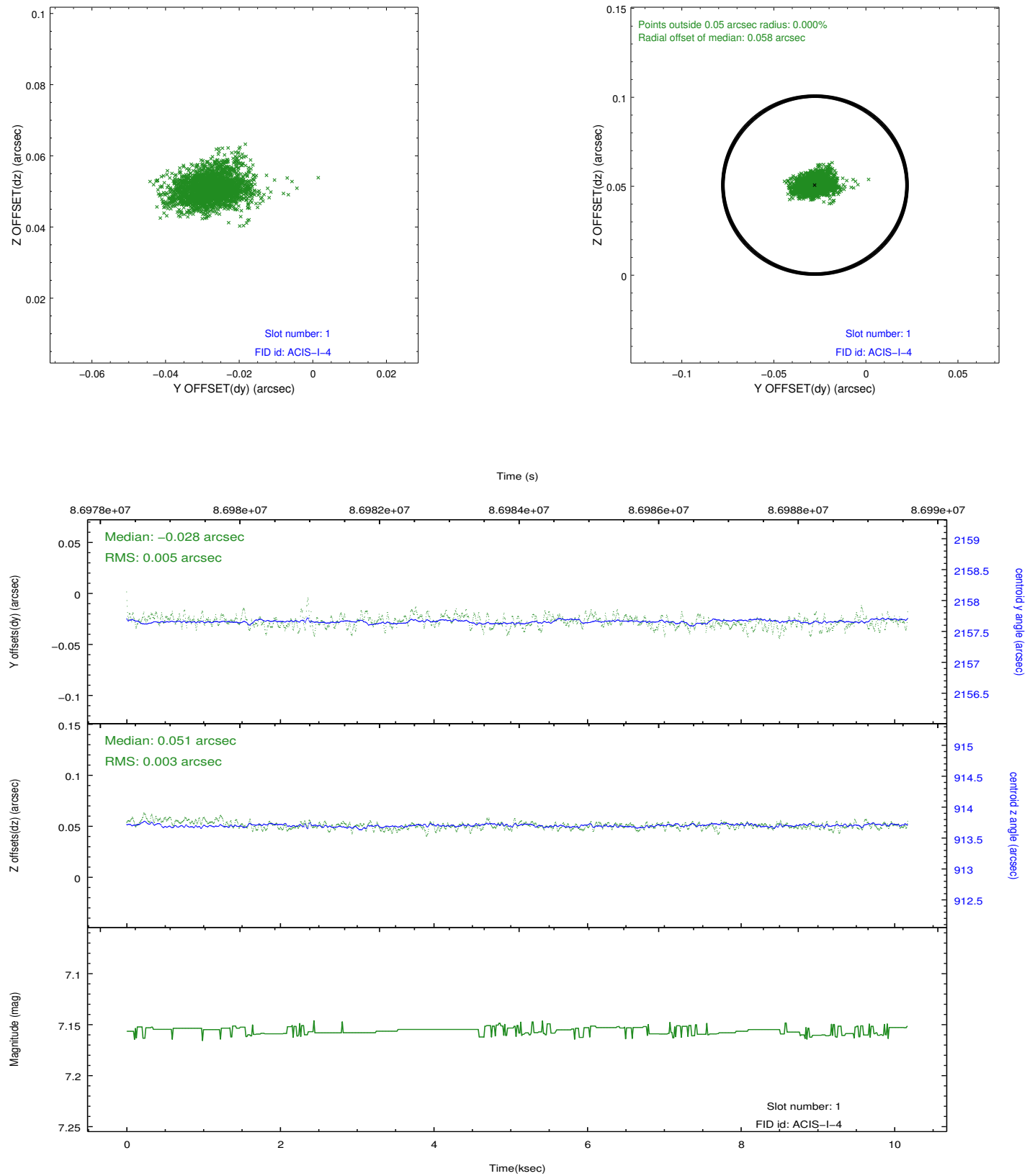


2.5 FID Slots

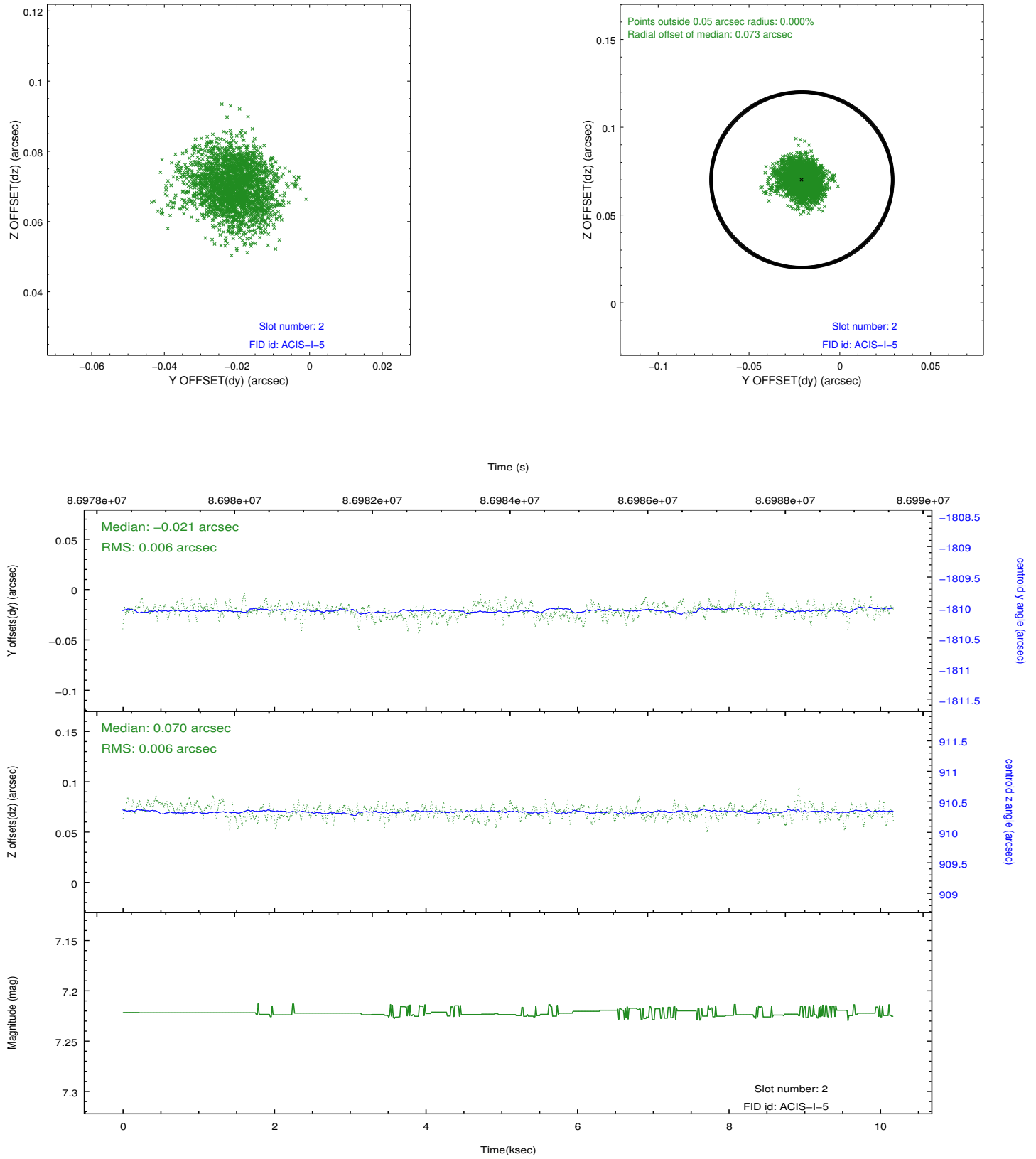
2.5.1 Slot 0



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)	2012.09.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.166

A.2 Comments