

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19910 - L2 Version 1
Chandra X-Ray Center

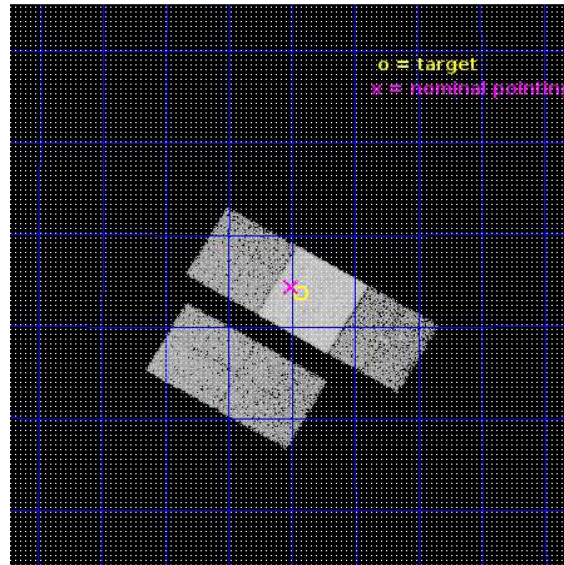
L2 Processing Date : Nov 2 2016

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

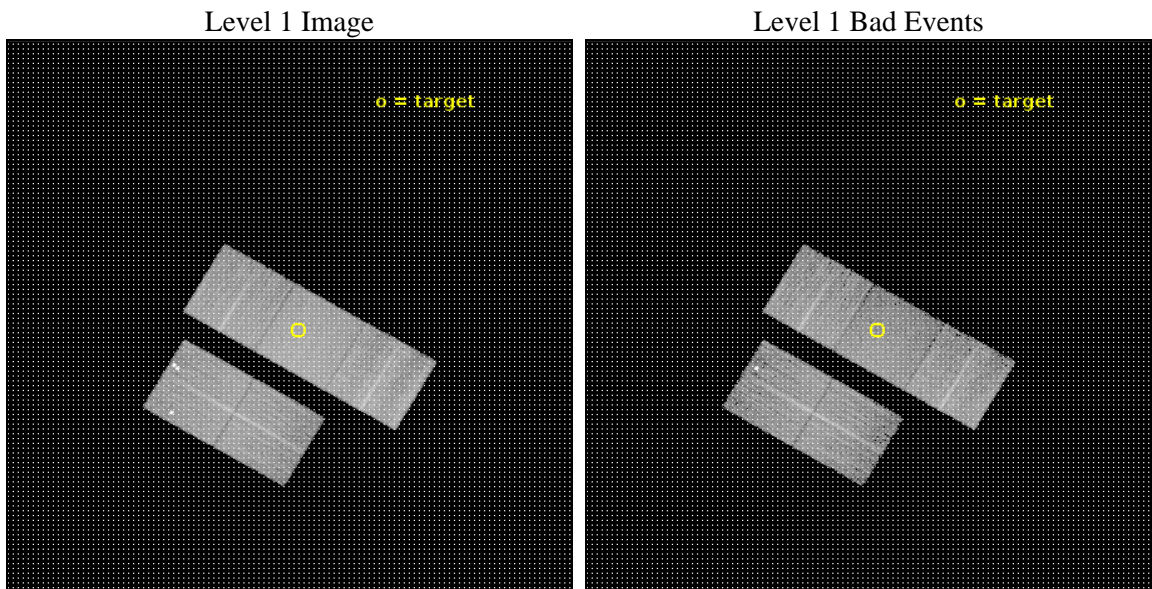
seq_num	801563	Sequence number
obs_id	19910	Observation id
title	Tales of tails: the Coma episodes	Proposal title
observer	Ming Sun	Principal investigator
object	KUG 1255+283	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.482917	Observer's specified target RA [deg]
dec_targ	28.061583	Observer's specified target Dec [deg]
ra_nom	194.50098169235	Nominal RA [deg]
dec_nom	28.072874005603	Nominal Dec [deg]
roll_nom	30.148083261311	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10044.000077367	Sum of GTIs [s]
livetime	9912.7678220707	Livetime [s]
ontime2	10044.000077367	Sum of GTIs [s]
ontime3	10044.000077367	Sum of GTIs [s]
ontime6	10044.000077367	Sum of GTIs [s]
ontime7	10044.000077367	Sum of GTIs [s]
ontime8	10044.000077367	Sum of GTIs [s]
l2events	88244	Number of level 2 events



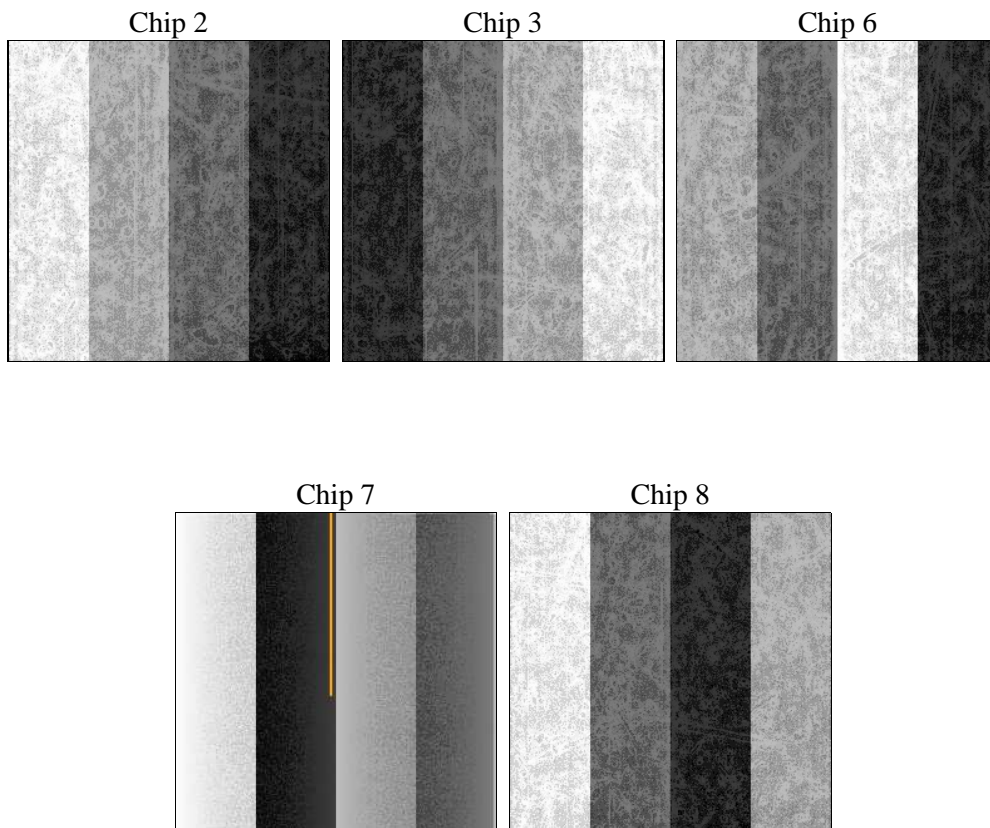
2 OBI

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	10.5.2	Processing system revision	ontime	10044.000077367	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	10044.000077367	Sum of GTIs [s]
date	2016-11-02T15:34:50	Date and time of file creation	ontime3	10044.000077367	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	10044.000077367	Sum of GTIs [s]
			ontime7	10044.000077367	Sum of GTIs [s]
			ontime8	10044.000077367	Sum of GTIs [s]
			l1events	416507	Number of level 1 events

2.1.4 Events

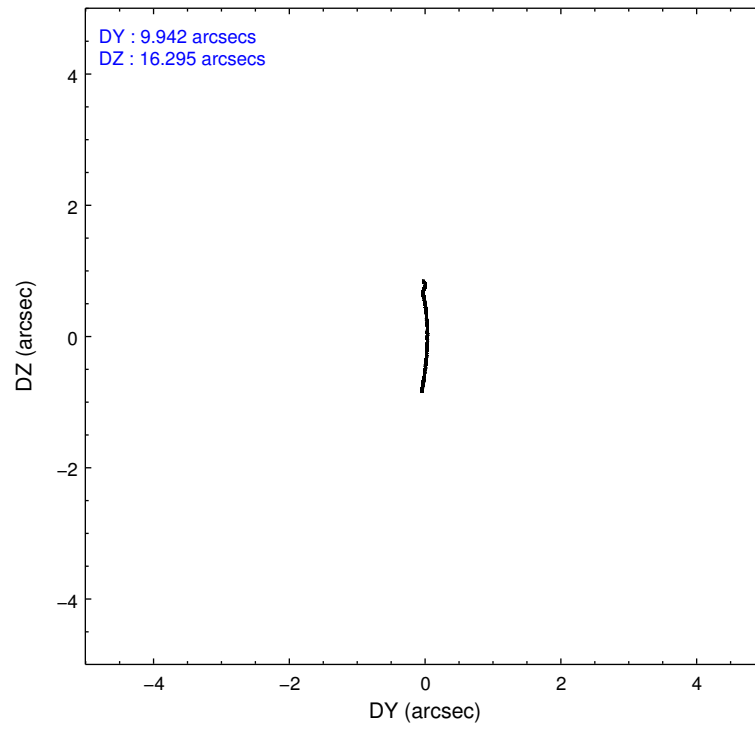
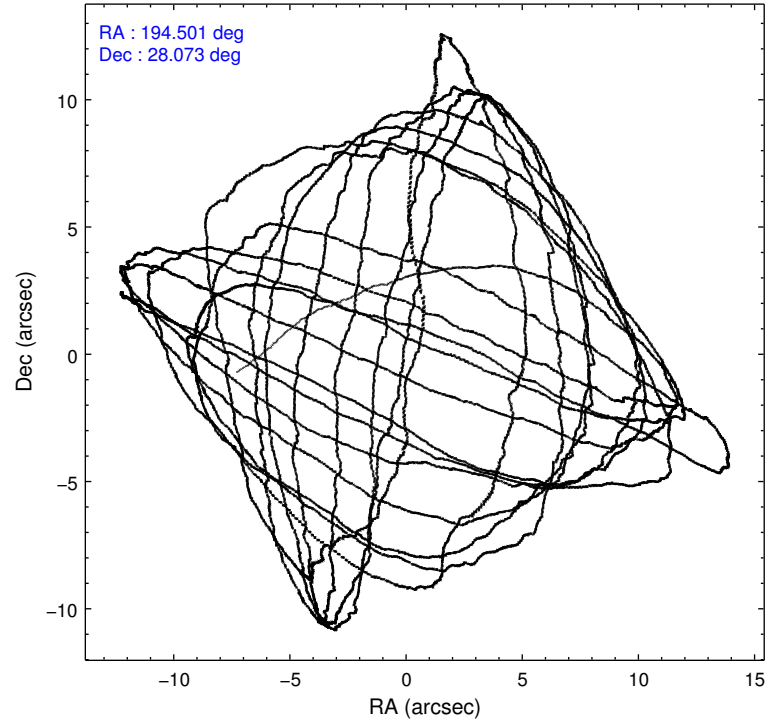
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	85842	70305	76552	93017	90791
rejected events	62579	58489	63479	50819	66572
rejected %	72%	83%	82%	54%	73%

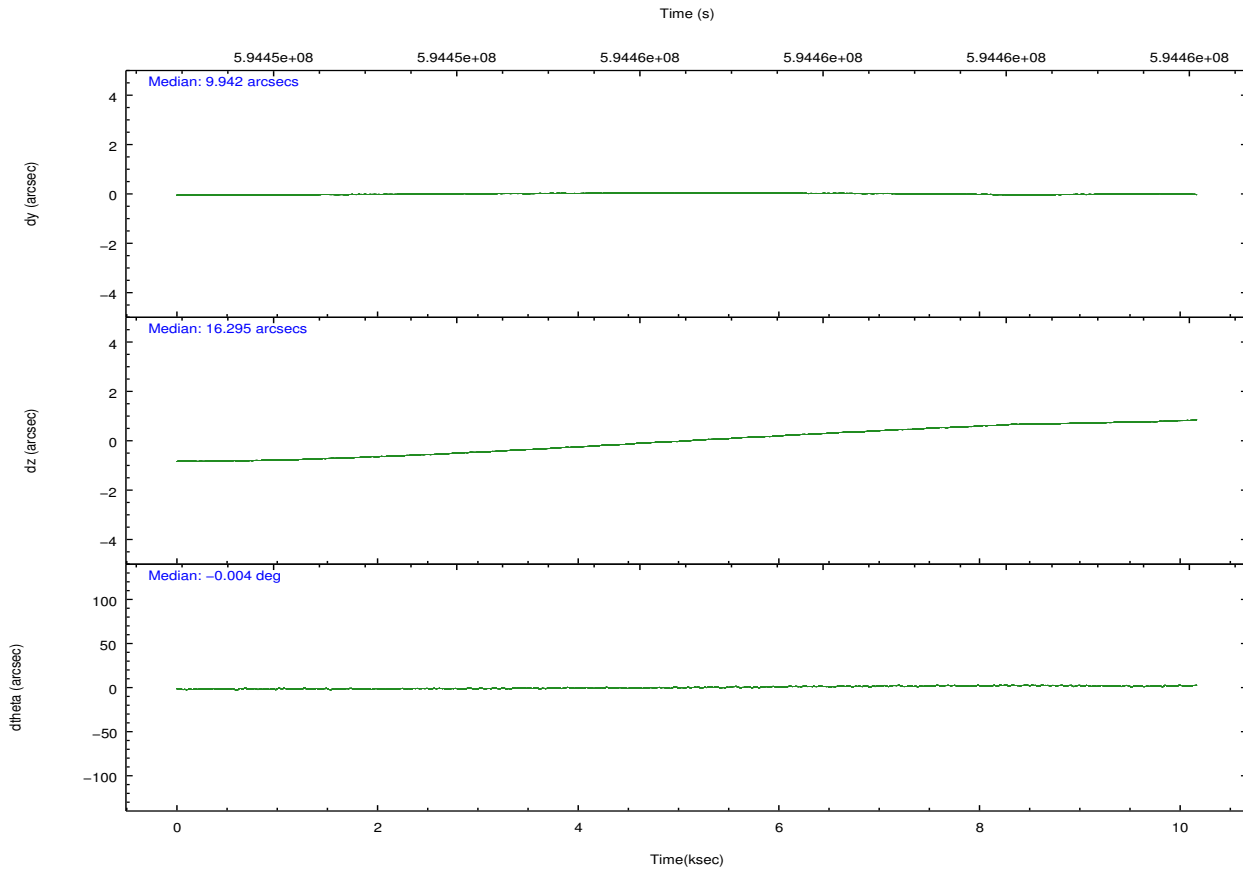
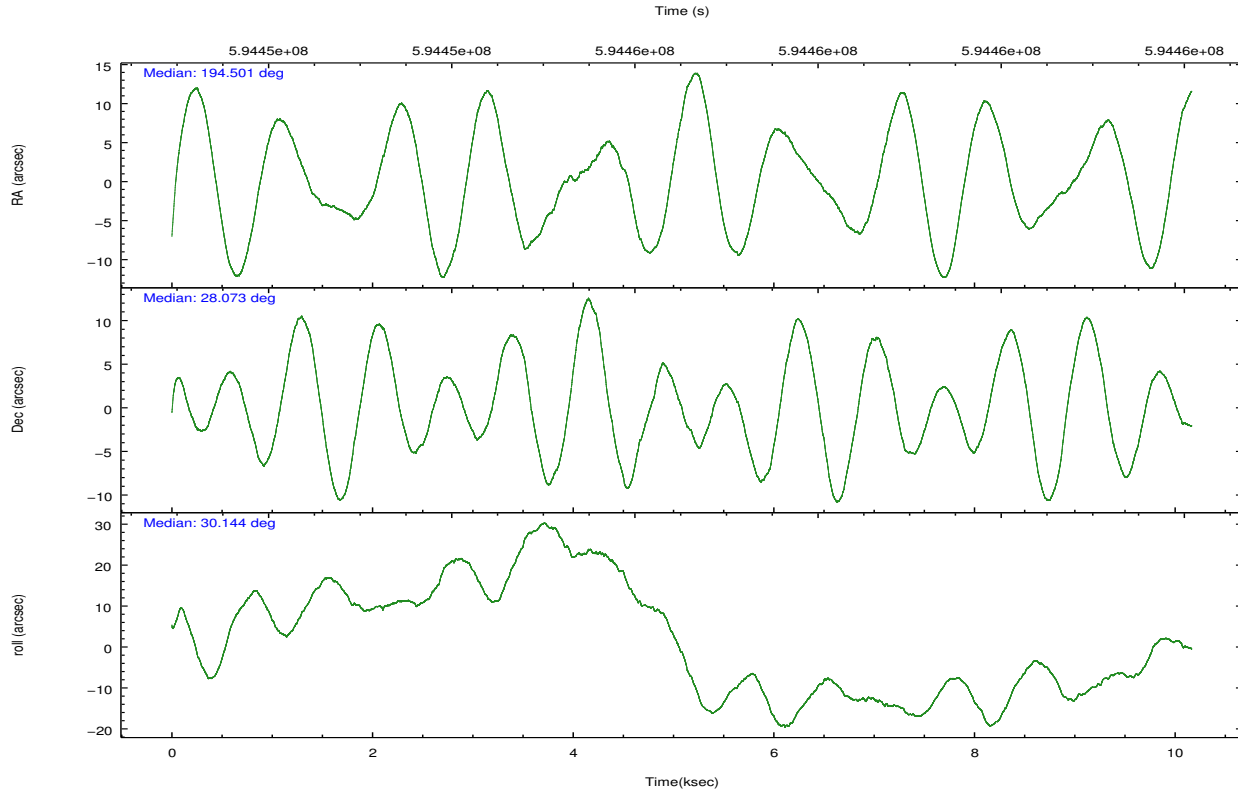
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	16696	6376	6627	4166	7421
	19%	9%	8%	4%	8%
grade 1 events	3173	60	44	115	71
	3%	0%	0%	0%	0%
grade 2 events	2721	2024	2511	9395	5869
	3%	2%	3%	10%	6%
grade 3 events	1043	912	925	3324	2391
	1%	1%	1%	3%	2%
grade 4 events	1089	884	942	3314	2280
	1%	1%	1%	3%	2%
grade 5 events	2604	3203	3252	8537	4695
	3%	4%	4%	9%	5%
grade 6 events	1733	1623	2075	22032	6292
	2%	2%	2%	23%	6%
grade 7 events	56783	55223	60176	42134	61772
	66%	78%	78%	45%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	194.485803	194.5009816923466	CCD I2 on	O1	Y
[deg] Pointing Dec	28.048922	28.07287400560324	CCD I3 on	Y	Y
[deg] Pointing Roll	29.998644	30.148083261311	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	594451588.184000	594450315.20248	CCD S5 on	N	N
Observation start date	2016-11-02T05:25:20	2016-11-02T05:05:15	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	594461588.184000	594462864.7907	On-chip summing requested	N	N
Observation end date	2016-11-02T08:12:00	2016-11-02T08:34:24	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



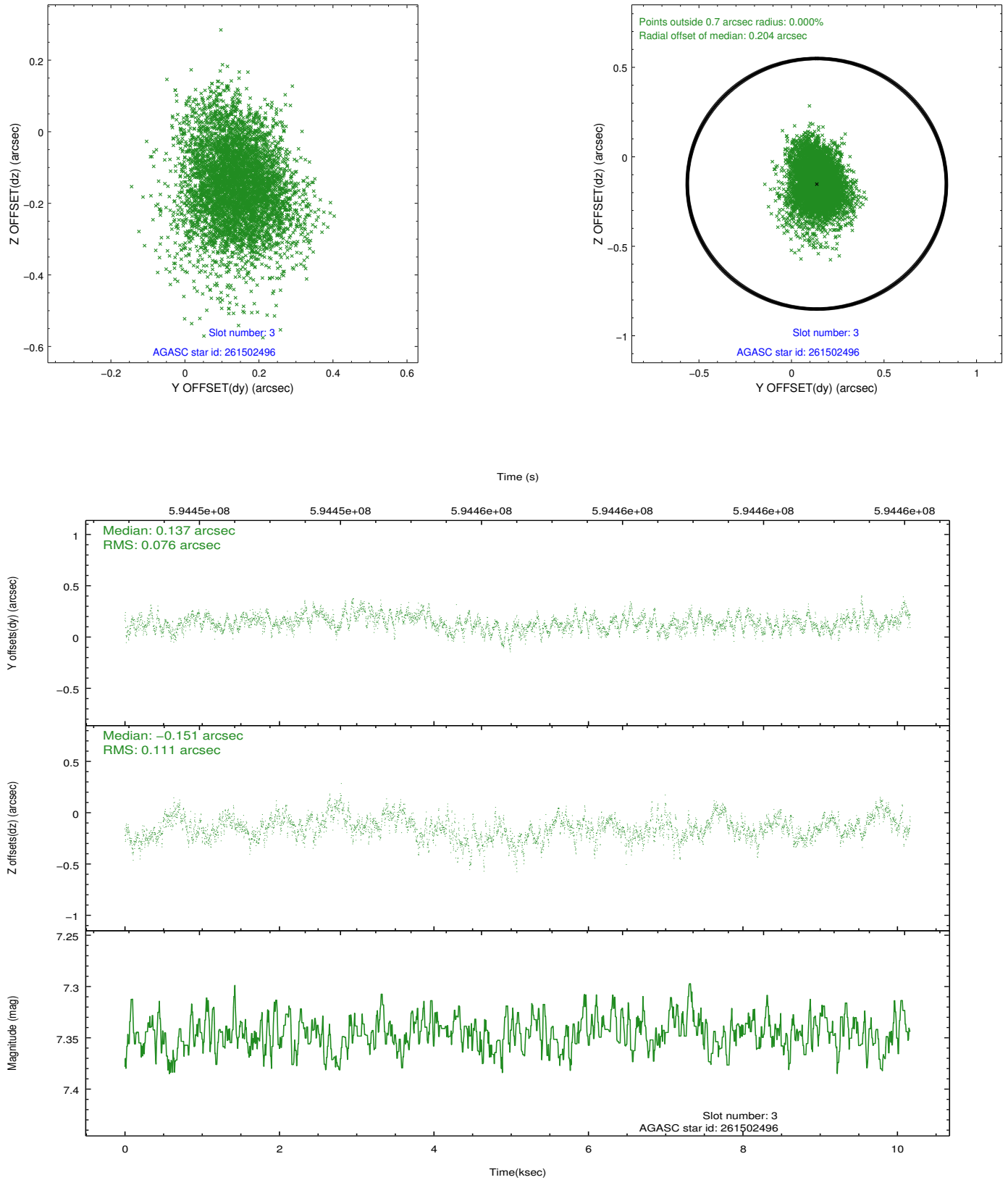


Slot Statistics

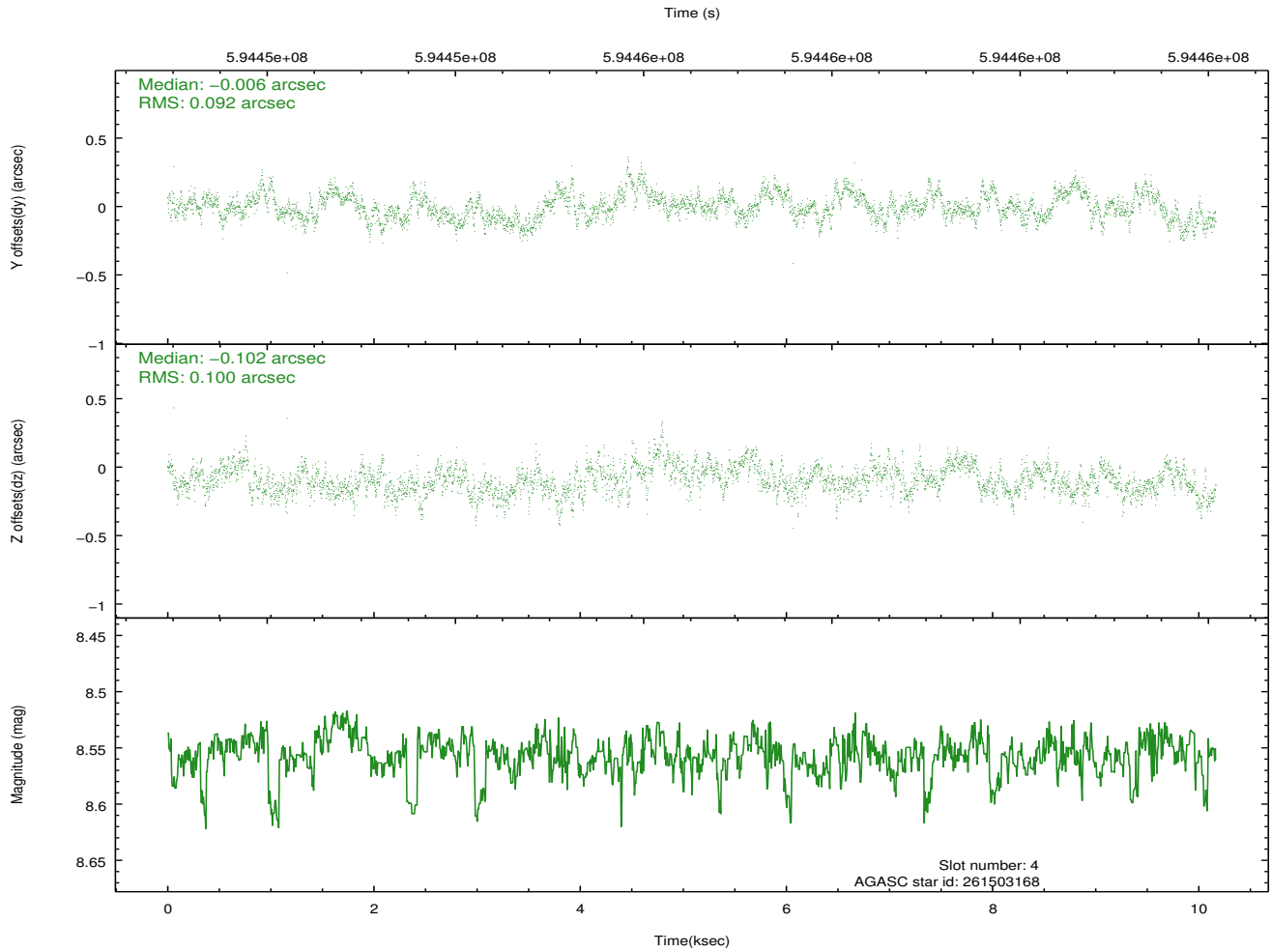
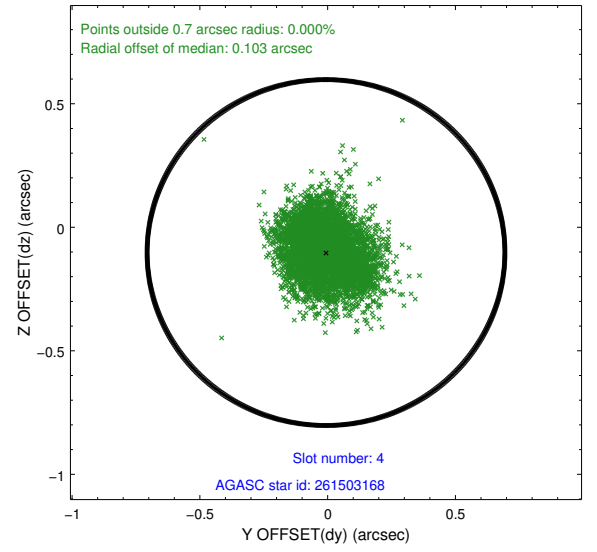
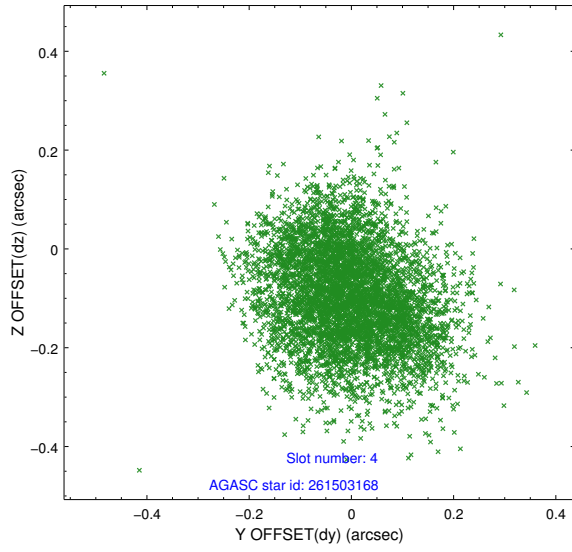
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	2479	-0.144	-0.068	0.018	0.028	0.000000	0.000000	-762.91	-1737.72
1	FID		ACIS-S-4	7.22	2480	0.387	0.088	0.010	0.017	0.000000	0.000000	2150.65	170.40
2	FID		ACIS-S-5	7.22	2480	-0.274	-0.012	0.016	0.025	0.000000	0.000000	-1815.22	164.54
3	GUIDE	used	261502496	7.35	4959	0.137	-0.151	0.140	0.241	194.887297	28.065668	1136.01	-583.34
4	GUIDE	used	261503168	8.56	4960	-0.006	-0.102	0.146	0.230	193.765545	28.234101	-1641.52	1725.28
5	GUIDE	used	261505232	9.74	4956	0.164	0.300	0.166	0.265	194.216553	27.802521	-1185.75	-339.48
6	GUIDE	used	261505760	9.76	4950	0.160	-0.003	0.217	0.362	193.736841	27.992885	-2159.37	1022.43
7	GUIDE	used	261492080	9.26	4954	-0.454	-0.045	0.157	0.279	194.976344	28.631585	2391.85	1045.09

2.4 Star Slots

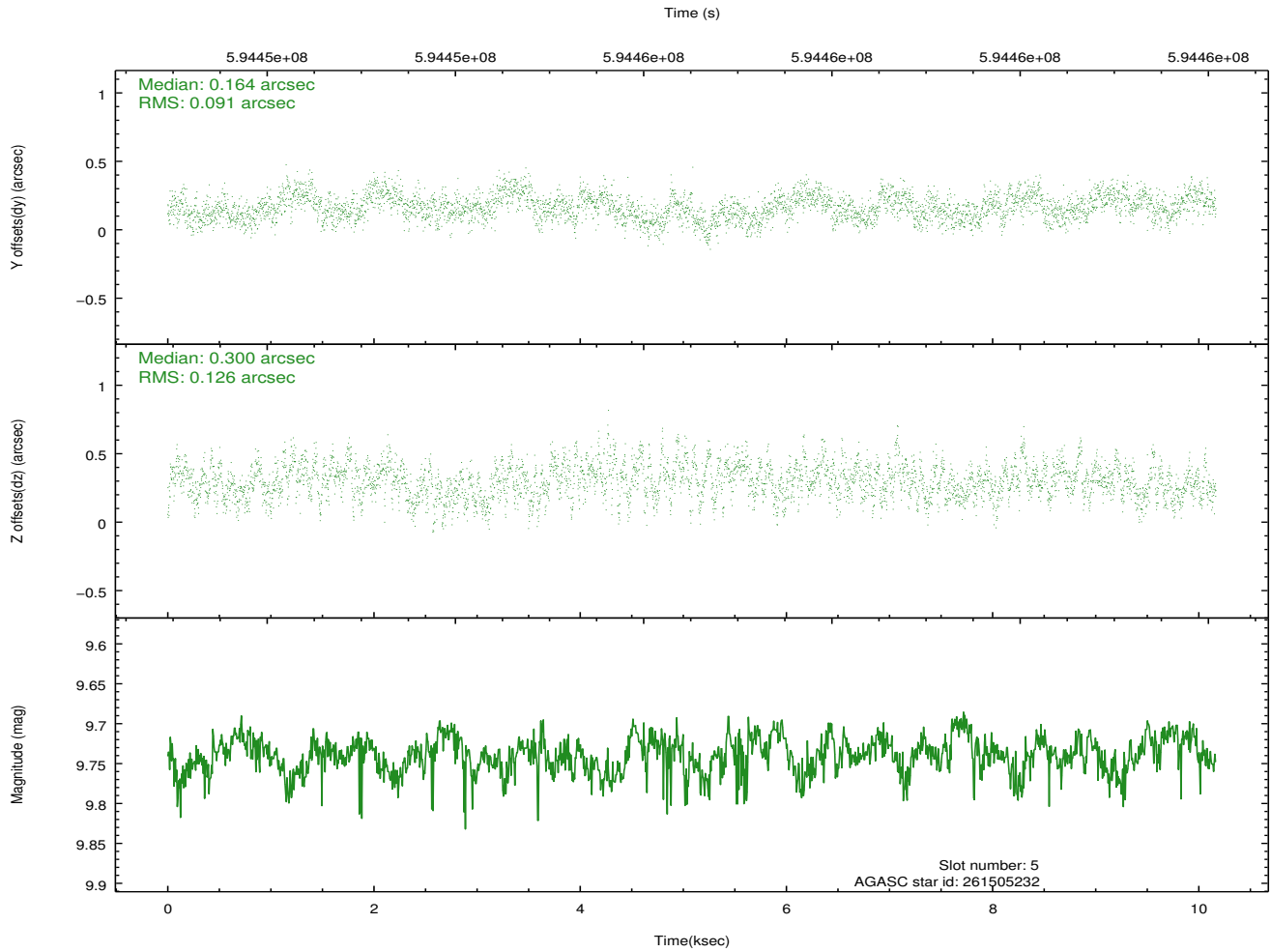
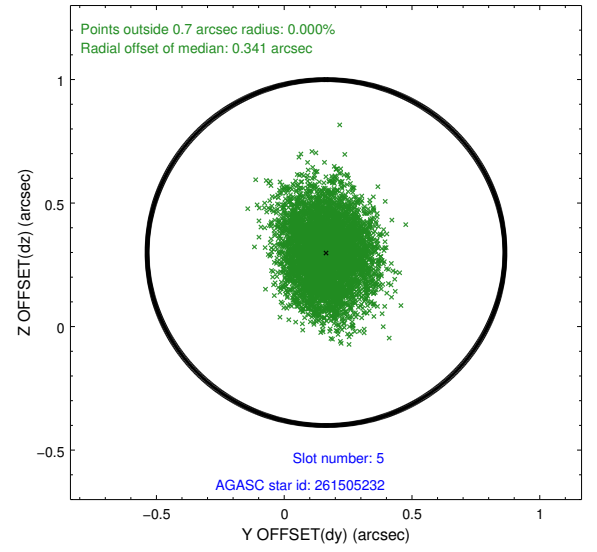
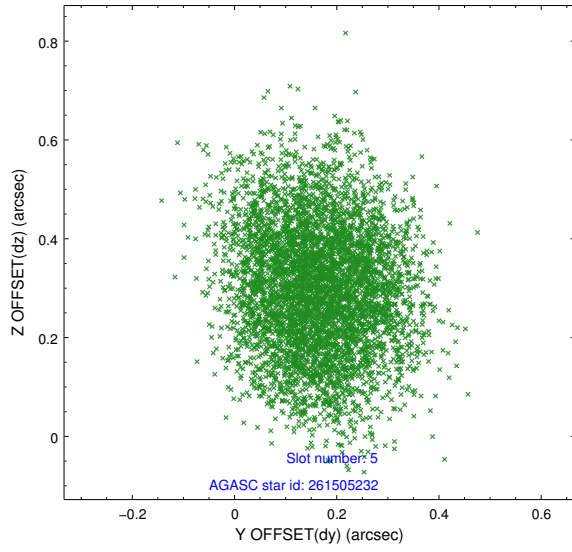
2.4.1 Slot 3



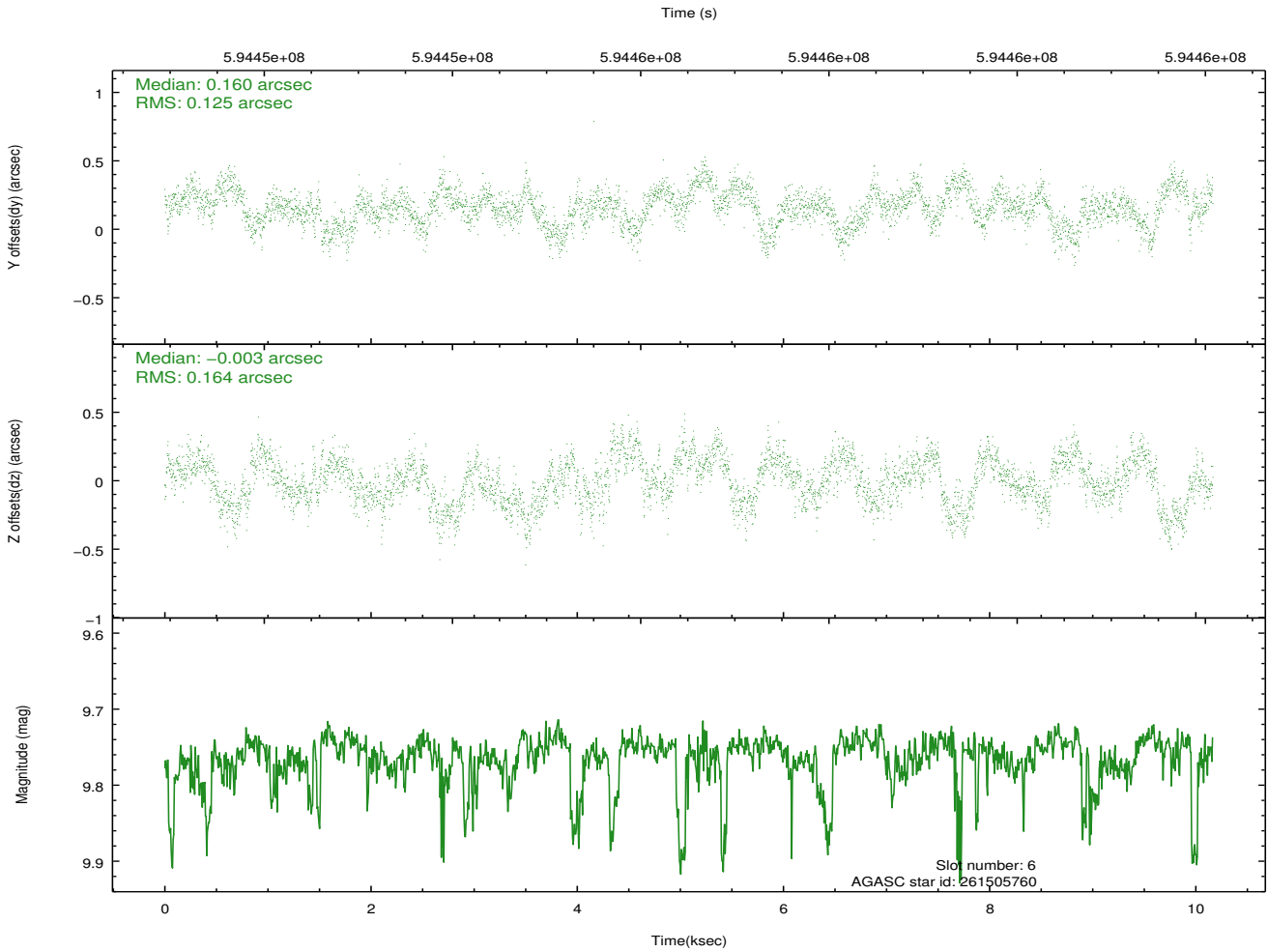
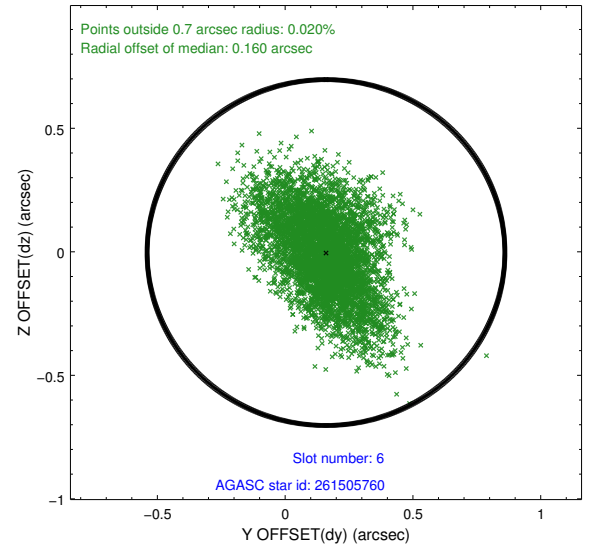
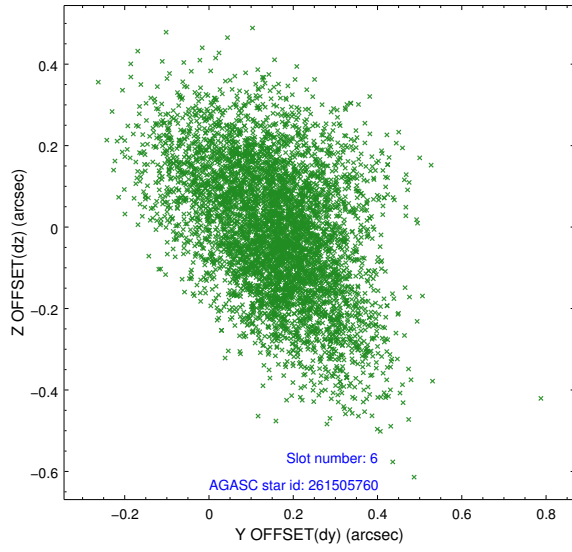
2.4.2 Slot 4



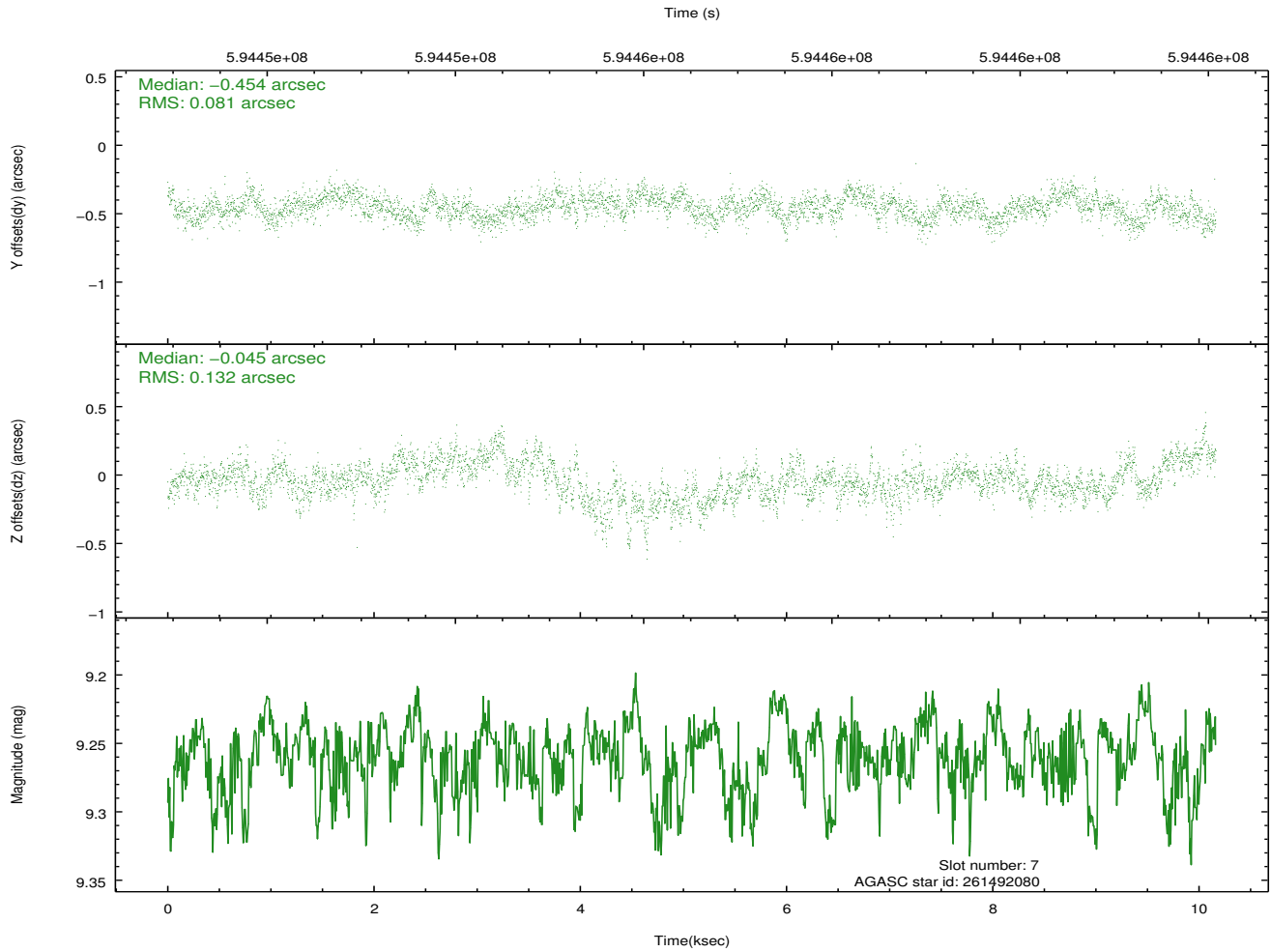
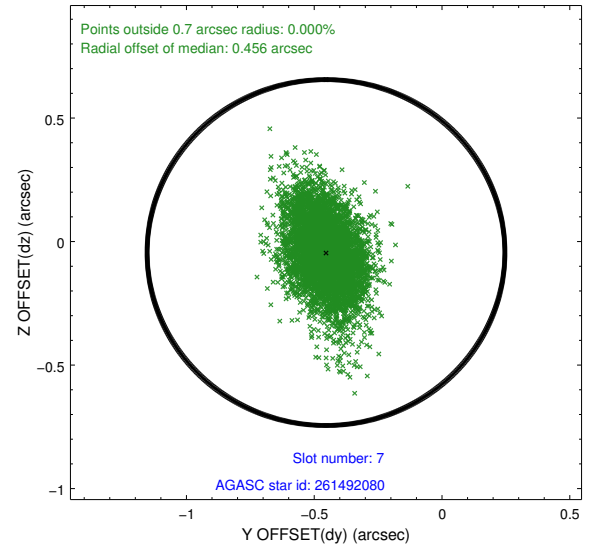
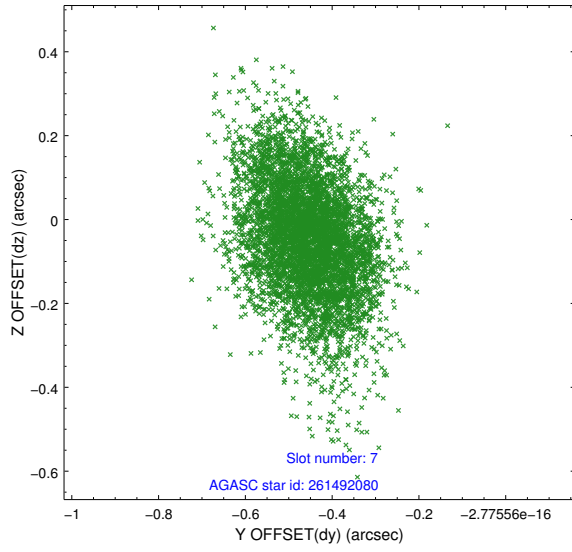
2.4.3 Slot 5



2.4.4 Slot 6

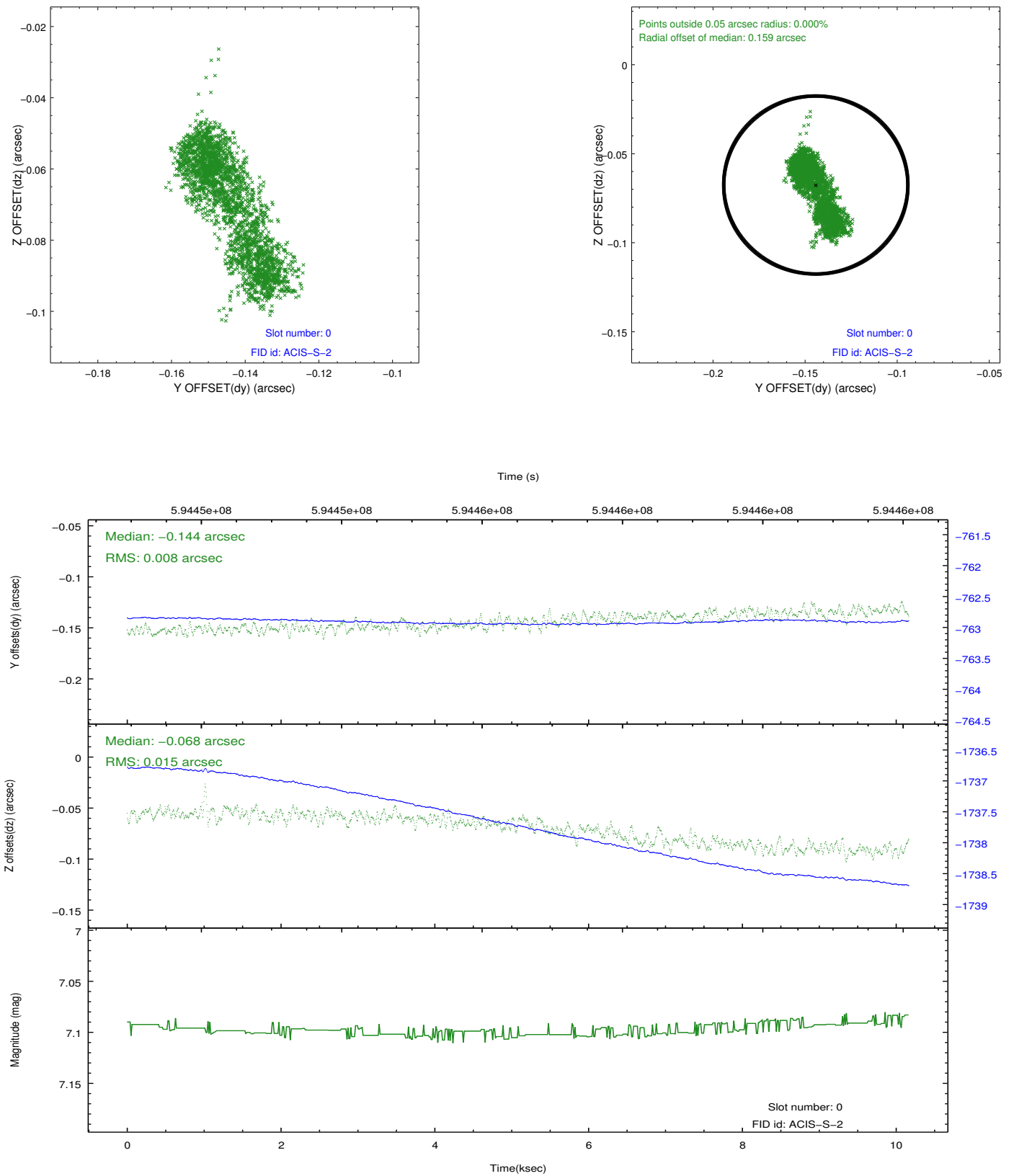


2.4.5 Slot 7

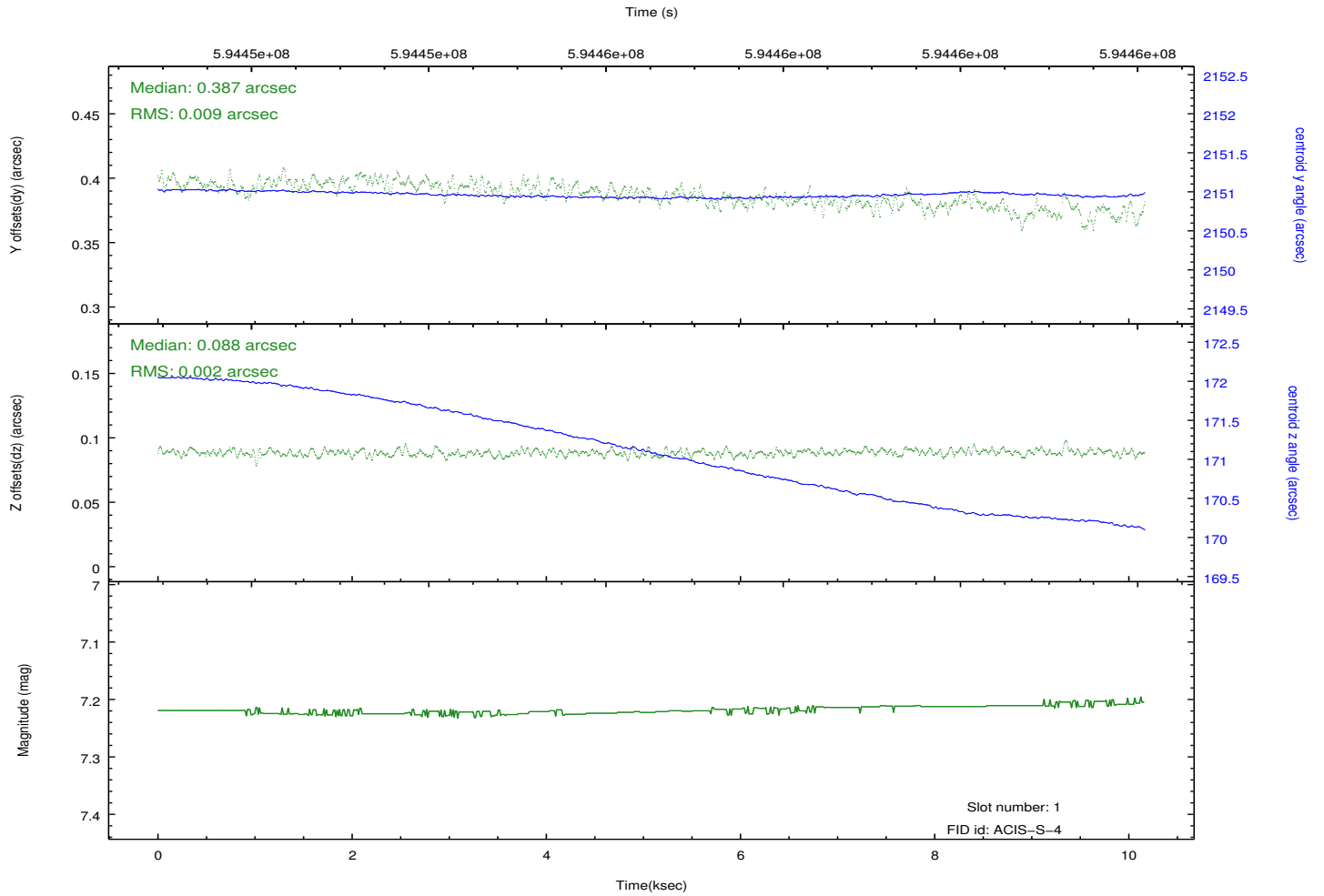
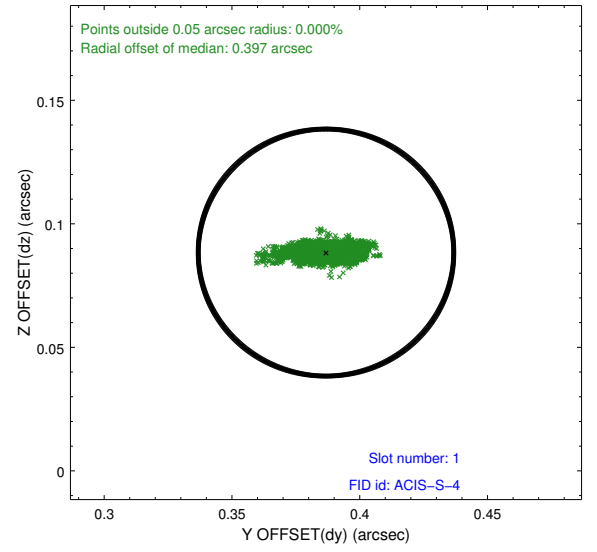
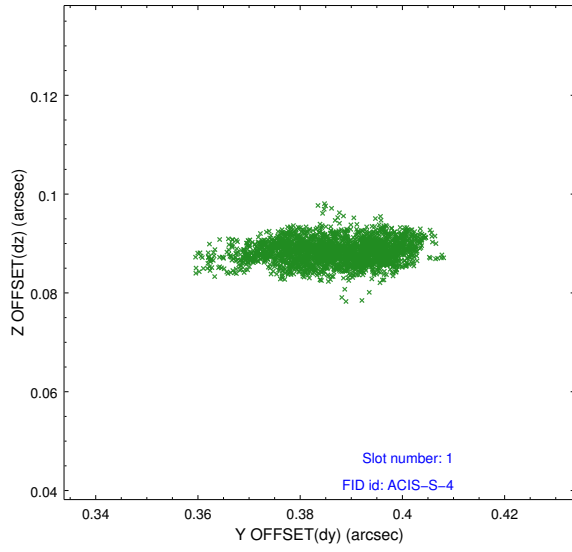


2.5 FID Slots

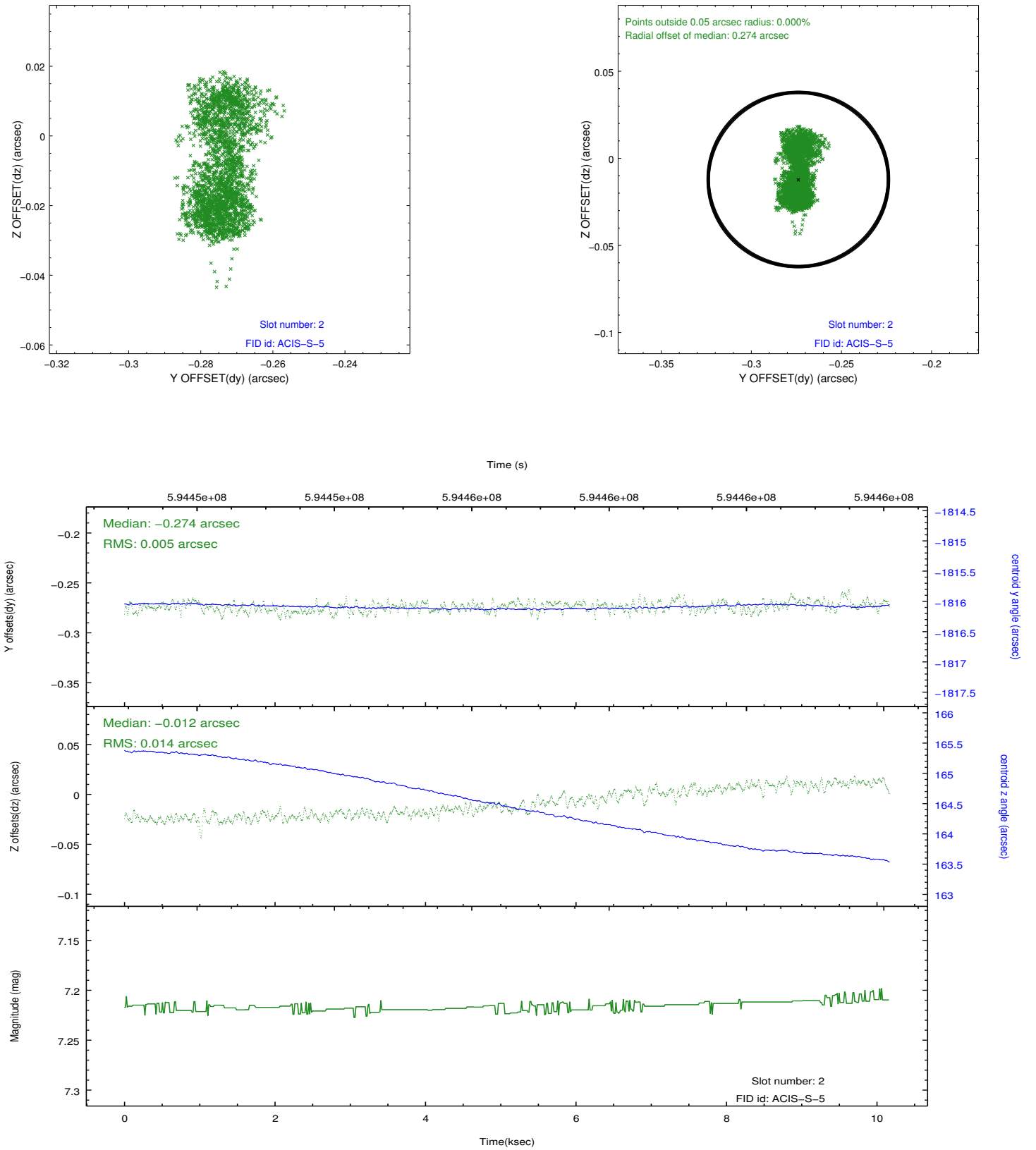
2.5.1 Slot 0



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)	2016.11.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.044000077367

A.2 Comments

Joint Proposal: HST+NRAO.