

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19286 - L2 Version 1
Chandra X-Ray Center

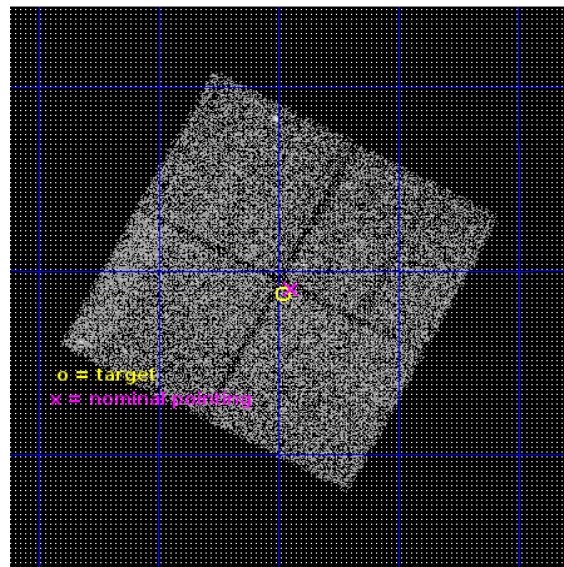
L2 Processing Date : Nov 26 2016

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1 Front

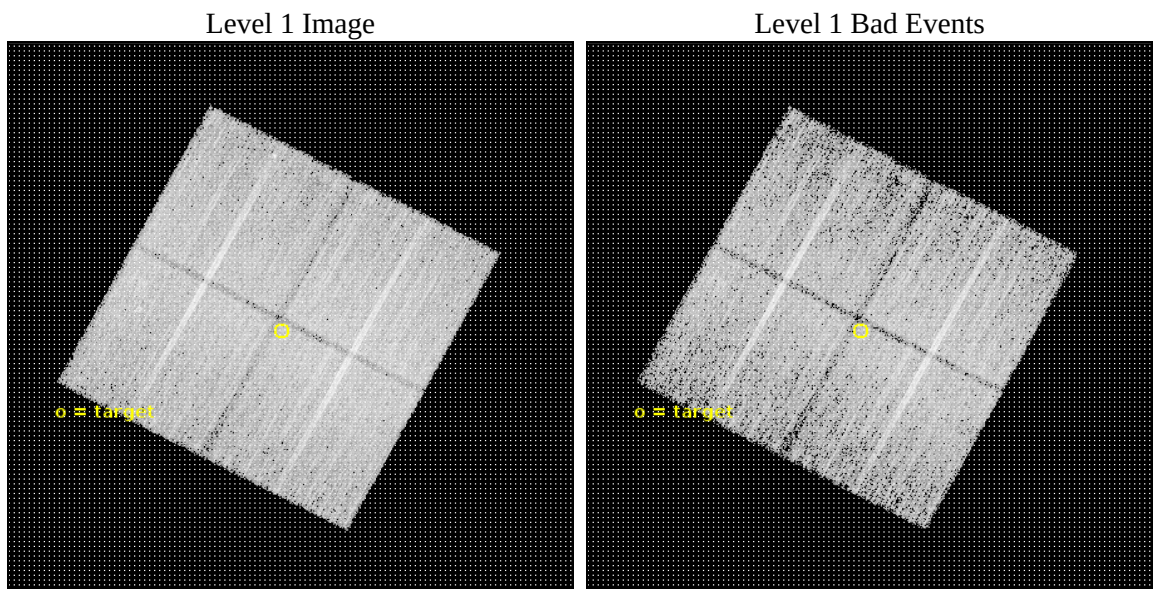
seq_num	502936	Sequence number
obs_id	19286	Observation id
title	Coordinated X-ray and Radio Observations of the Repeating Fast Radio Burst FRB 121102	Proposal title
observer	Slavko Bogdanov	Principal investigator
object	FRB 121102	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	82.994667	Observer's specified target RA [deg]
dec_targ	33.145869	Observer's specified target Dec [deg]
ra_nom	82.986867014974	Nominal RA [deg]
dec_nom	33.15047901104	Nominal Dec [deg]
roll_nom	117.98595526646	Nominal Roll [deg]
revision	1	Processing version of data
ontime	21085.337321281	Sum of GTIs [s]
livetime	20809.841866379	Livetime [s]
ontime0	21085.214201331	Sum of GTIs [s]
ontime1	21085.255241275	Sum of GTIs [s]
ontime2	21085.296281338	Sum of GTIs [s]
ontime3	21085.337321281	Sum of GTIs [s]
l2events	52877	Number of level 2 events



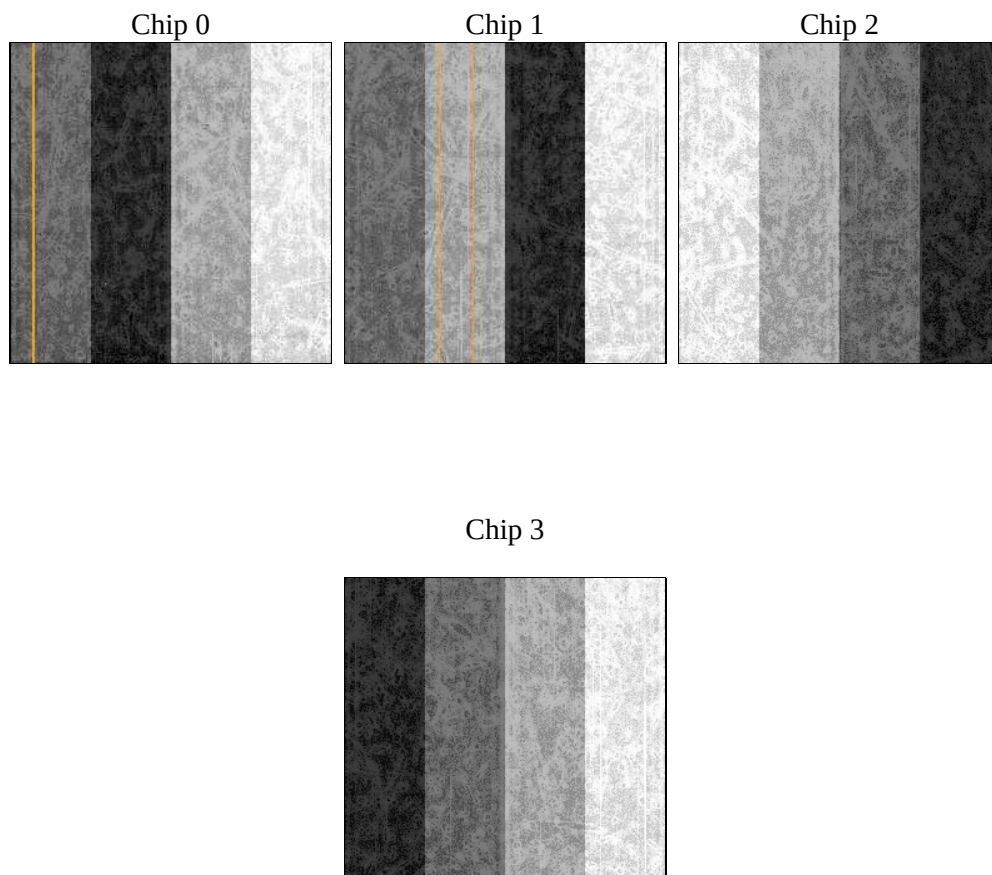
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	21000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	21085.337321281	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	21085.214201331	Sum of GTIs [s]
date	2016-11-26T19:09:49	Date and time of file creation	ontime1	21085.255241275	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	21085.296281338	Sum of GTIs [s]
			ontime3	21085.337321281	Sum of GTIs [s]
			l1events	529381	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	124946	129252	142230	132953
rejected events	109116	111438	126962	118345
rejected %	87%	86%	89%	89%

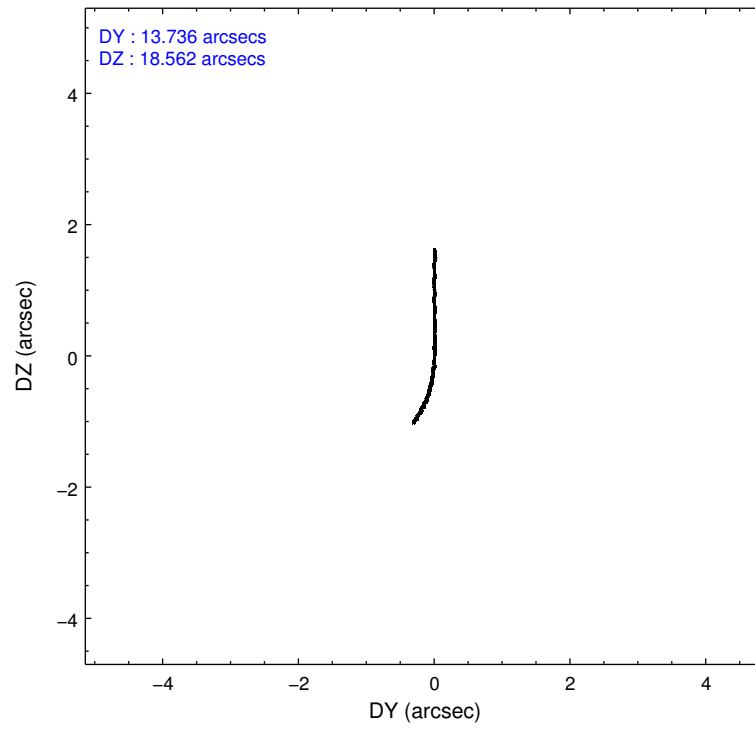
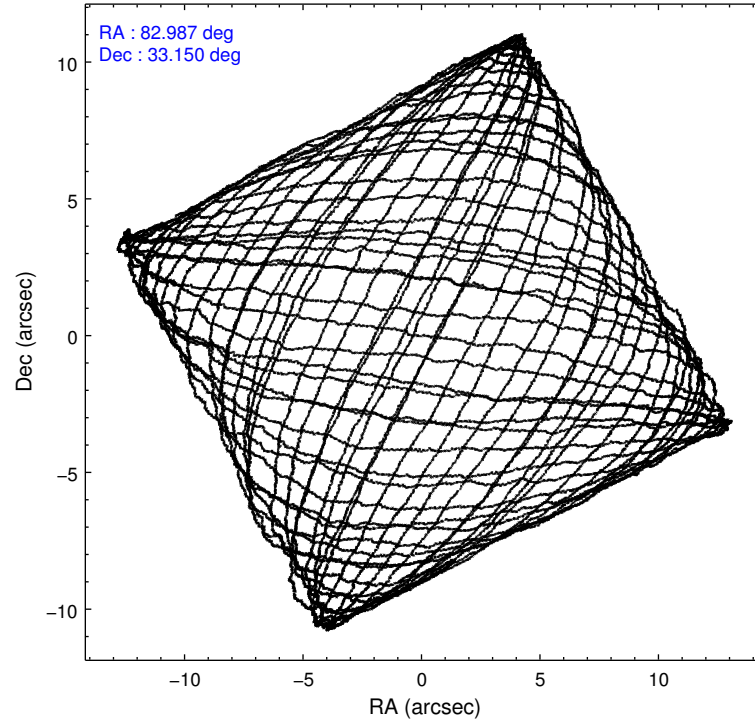
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	5398	6370	5358	5180
	4%	4%	3%	3%
grade 1 events	86	60	93	92
	0%	0%	0%	0%
grade 2 events	4019	4319	3850	3379
	3%	3%	2%	2%
grade 3 events	1661	1728	1529	1498
	1%	1%	1%	1%
grade 4 events	1516	1677	1544	1518
	1%	1%	1%	1%
grade 5 events	6040	6491	5722	6802
	4%	5%	4%	5%
grade 6 events	3240	3720	2988	3035
	2%	2%	2%	2%
grade 7 events	102986	104887	121146	111449
	82%	81%	85%	83%

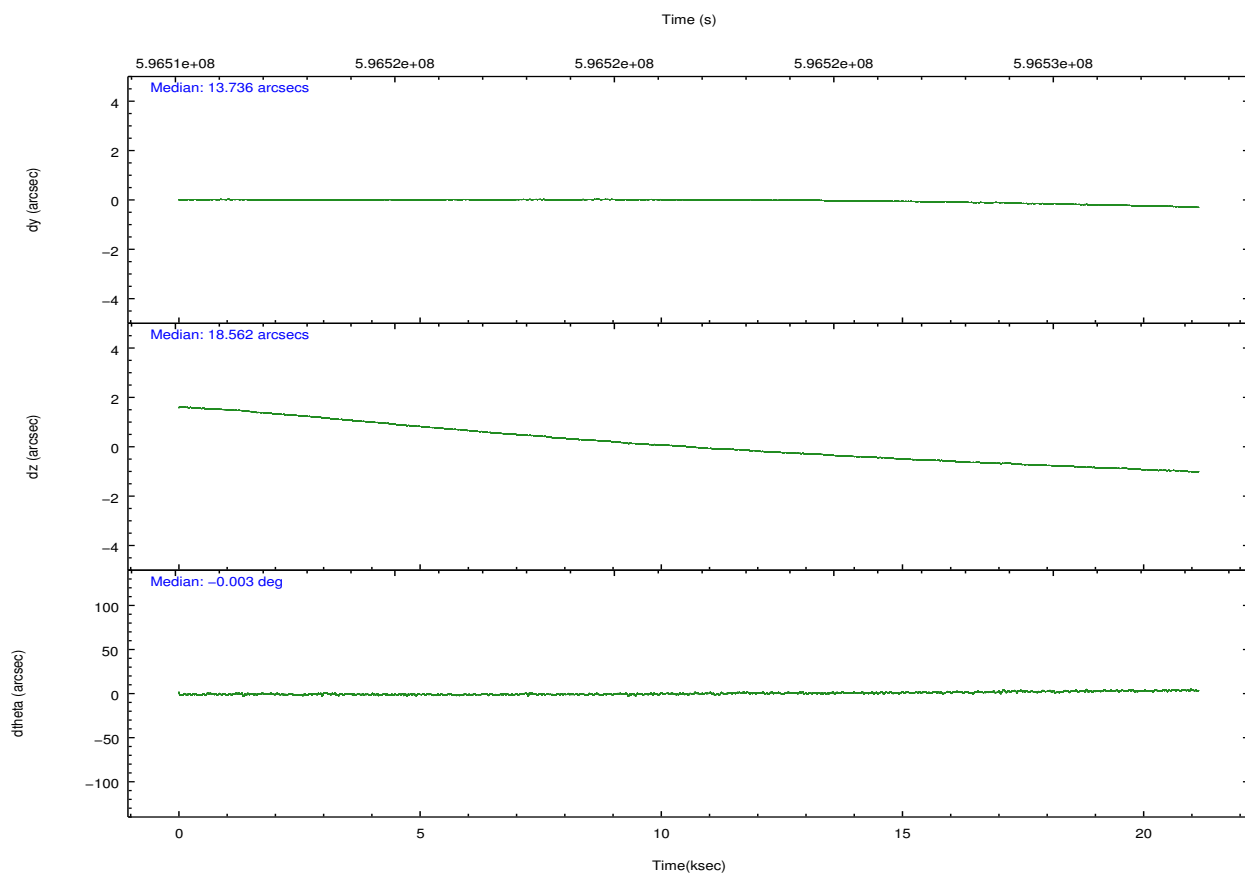
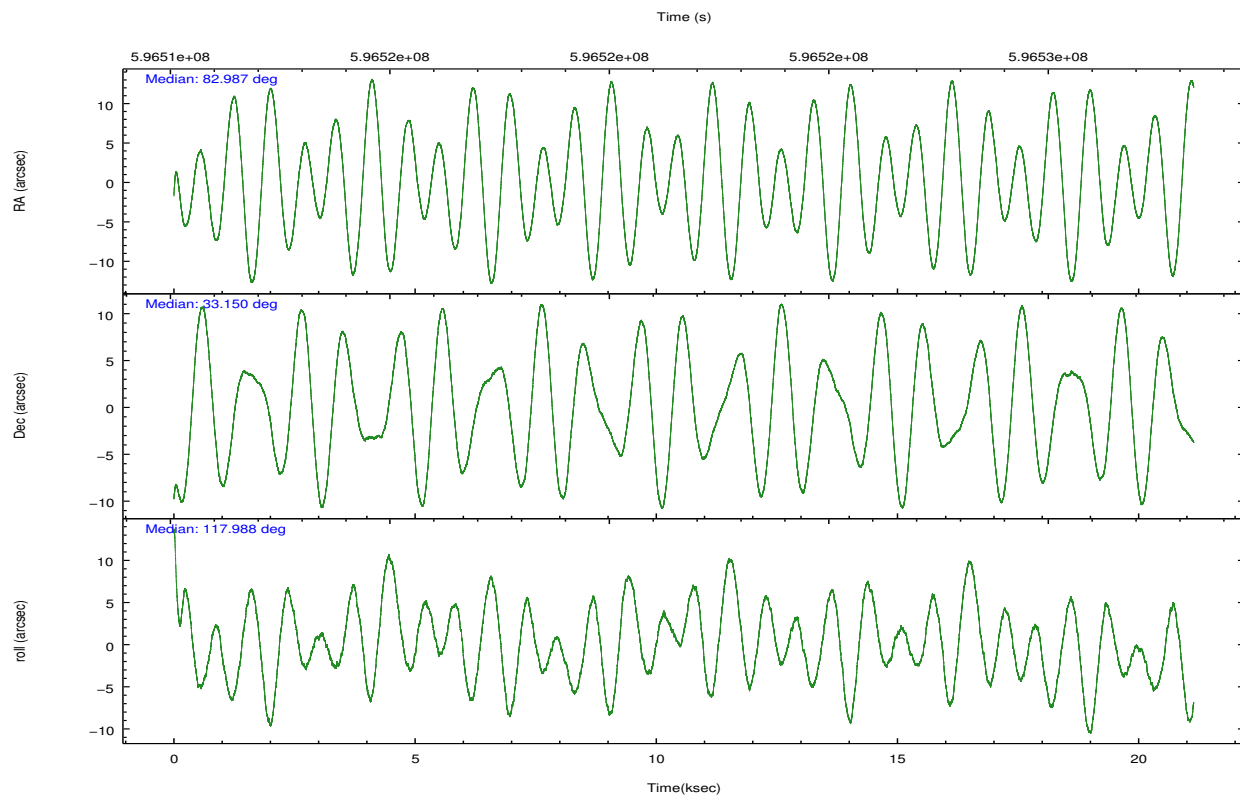
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	83.014884	82.98686701497357
[deg] Pointing Dec	33.135950	33.15047901103981
[deg] Pointing Roll	117.761940	117.9859552664583
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	596511247.184000	596509944.17133
Observation start date	2016-11-26T01:32:59	2016-11-26T01:12:24
[s] Observation end time (MET)	596532247.184000	596533008.7226599
Observation end date	2016-11-26T07:22:59	2016-11-26T07:36:48
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	3.1

2.3 Aspect



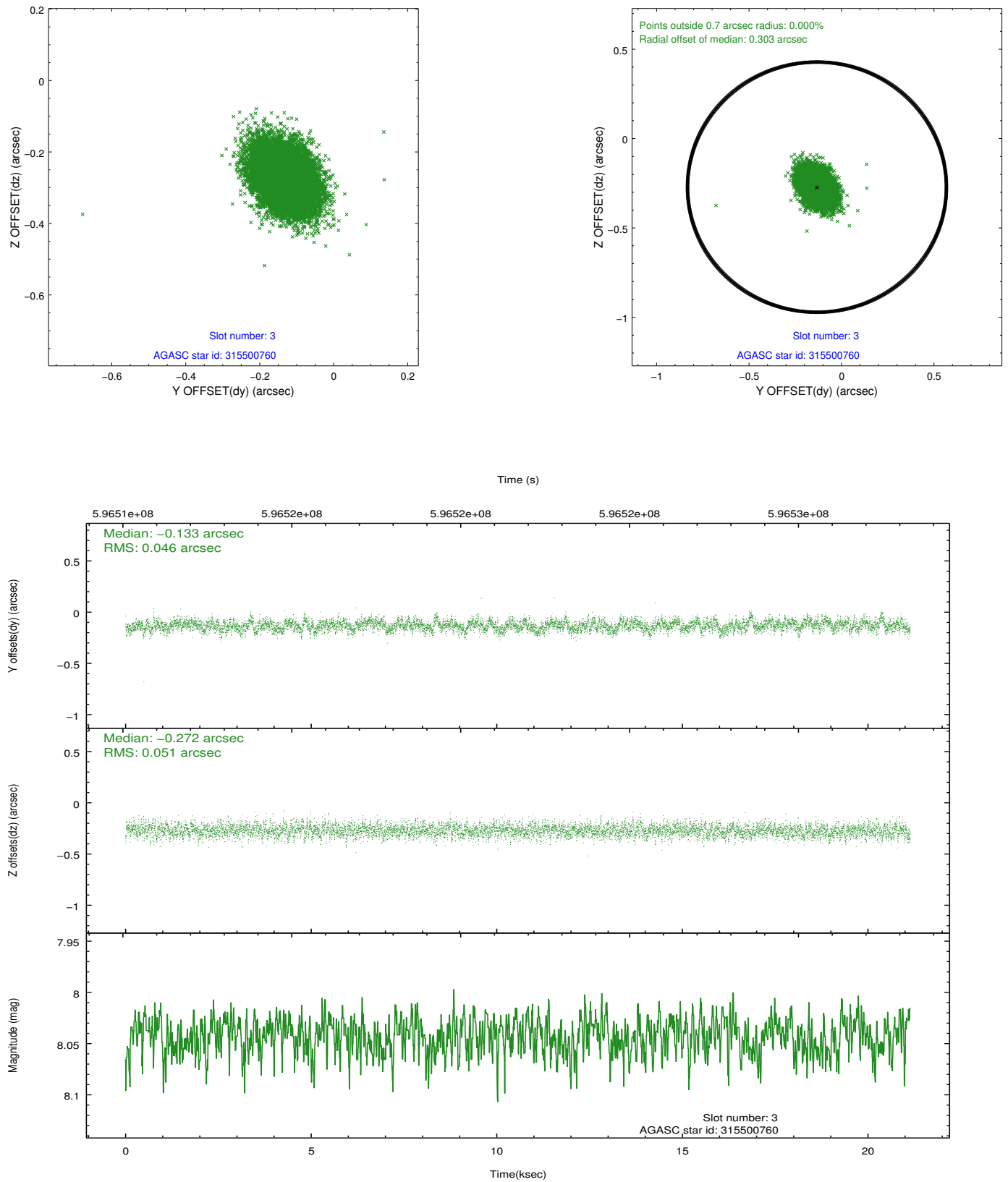


Slot Statistics

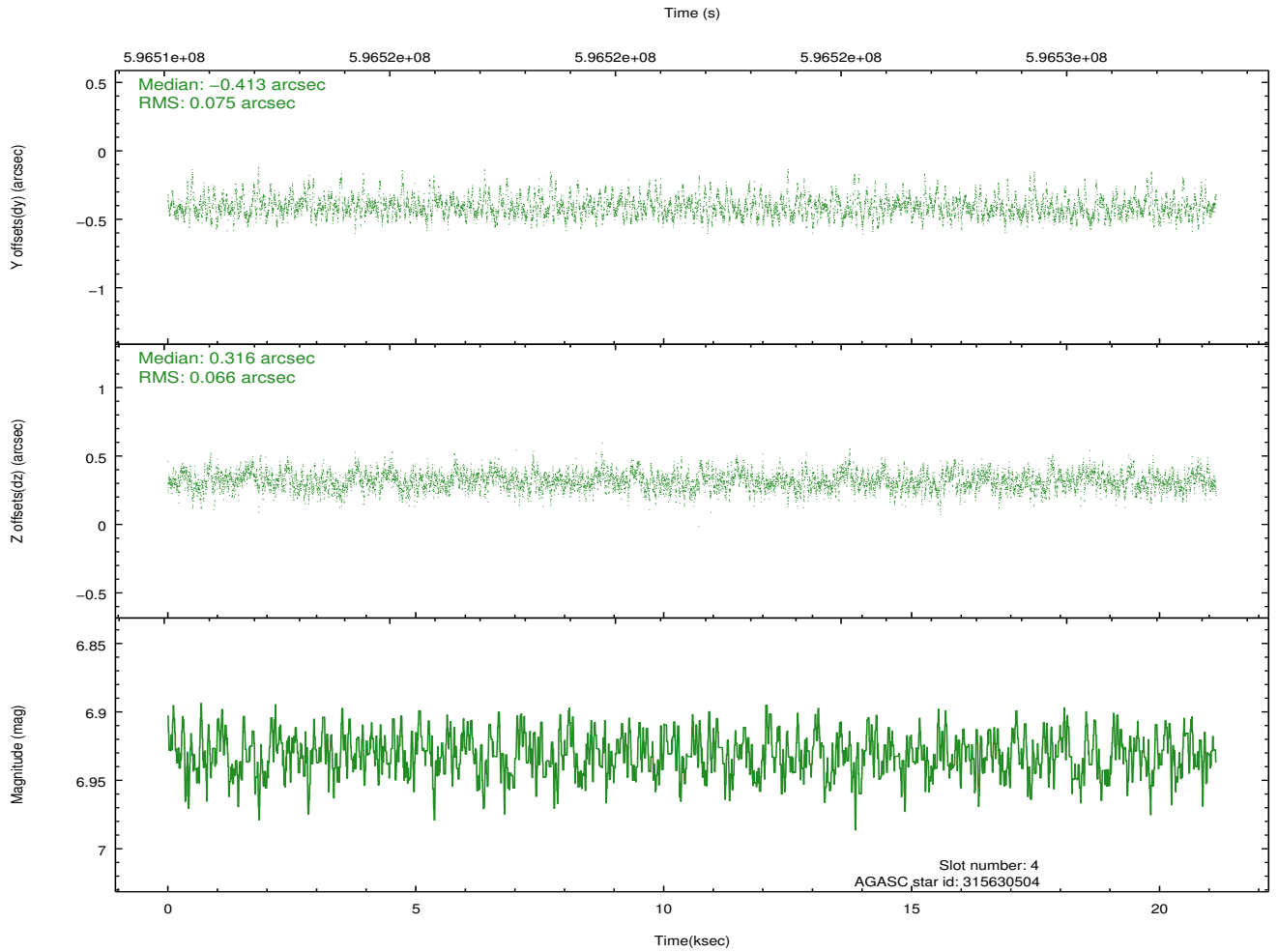
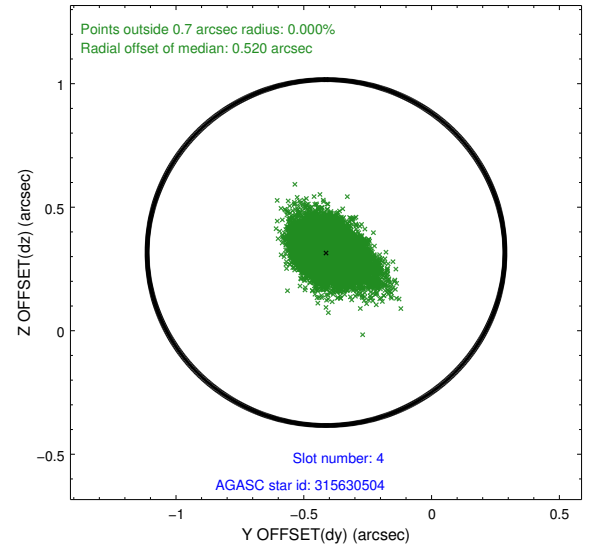
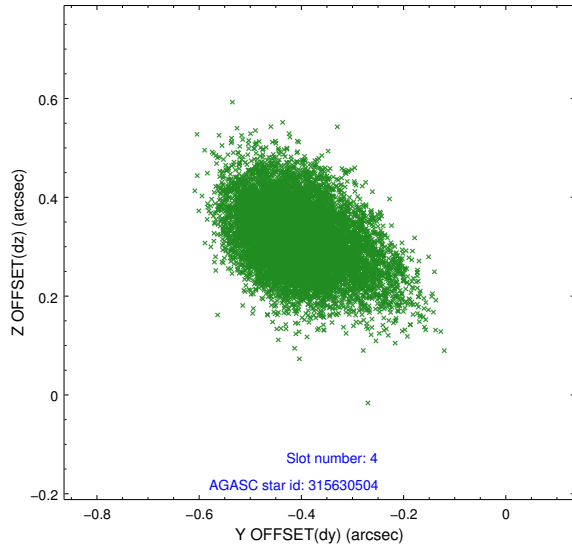
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.01	5157	-0.203	-0.057	0.026	0.037	0.000000	0.000000	-768.56	-848.81
1	FID		ACIS-I-4	7.07	5157	0.430	0.125	0.021	0.033	0.000000	0.000000	2146.03	1057.48
2	FID		ACIS-I-5	7.11	5157	-0.327	0.002	0.018	0.028	0.000000	0.000000	-1822.32	1055.37
3	GUIDE	used	315500760	8.04	10310	-0.133	-0.272	0.072	0.119	82.555674	33.396722	1476.36	782.54
4	GUIDE	used	315630504	6.93	10313	-0.413	0.316	0.103	0.177	83.364178	32.801184	-1557.31	-374.09
5	GUIDE	used	316027440	9.05	10307	0.582	0.249	0.145	0.243	83.112095	33.895491	2284.68	-1530.52
6	GUIDE	used	315506288	8.78	10307	-0.030	-0.114	0.131	0.202	82.411457	33.467951	1905.96	1044.35
7	GUIDE	used	315506864	8.83	10304	-0.004	-0.179	0.125	0.193	82.414572	33.451761	1850.12	1063.75

2.4 Star Slots

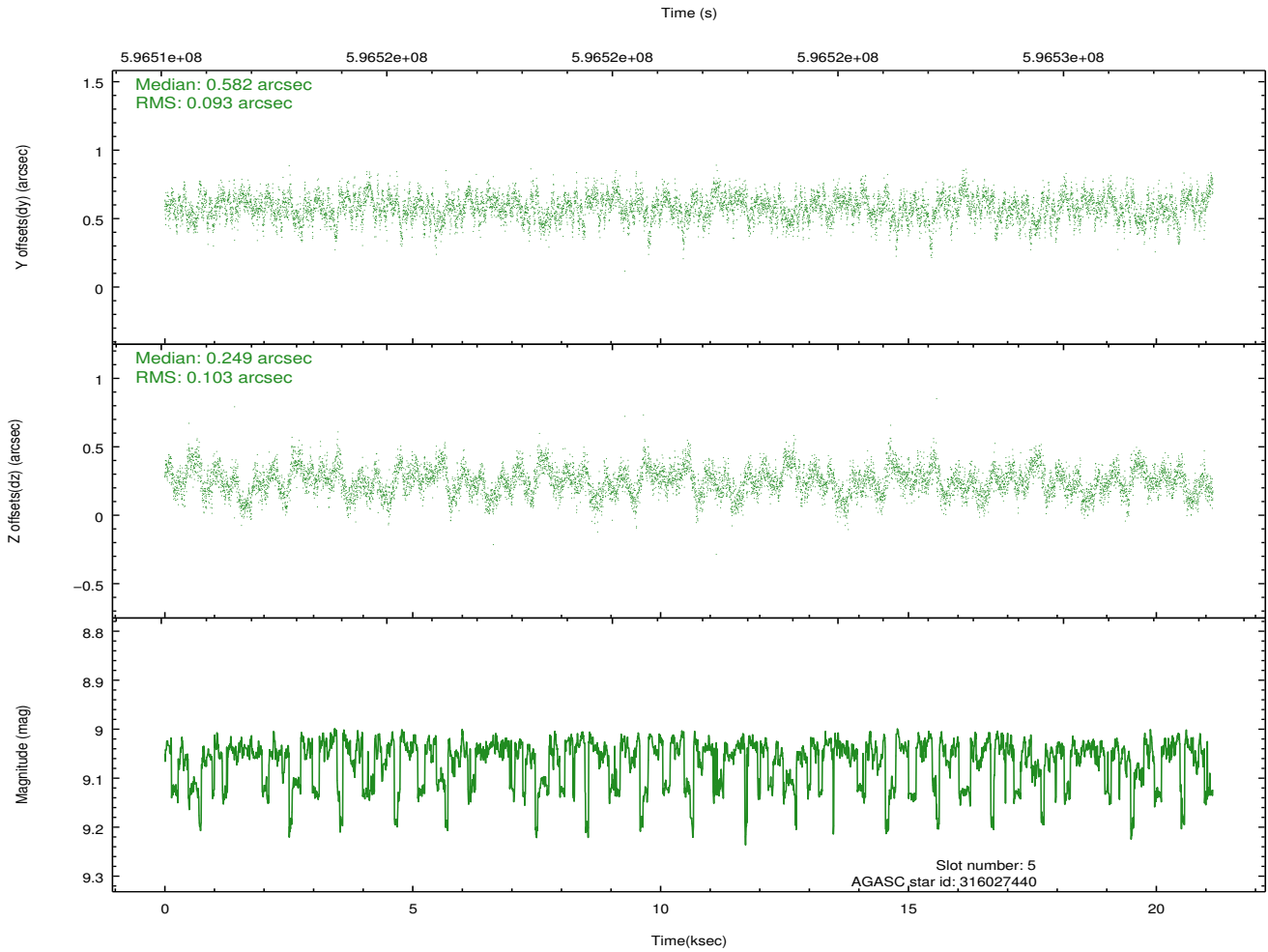
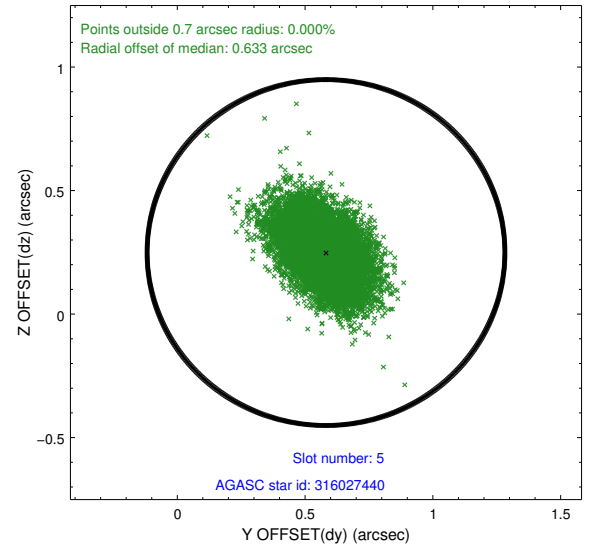
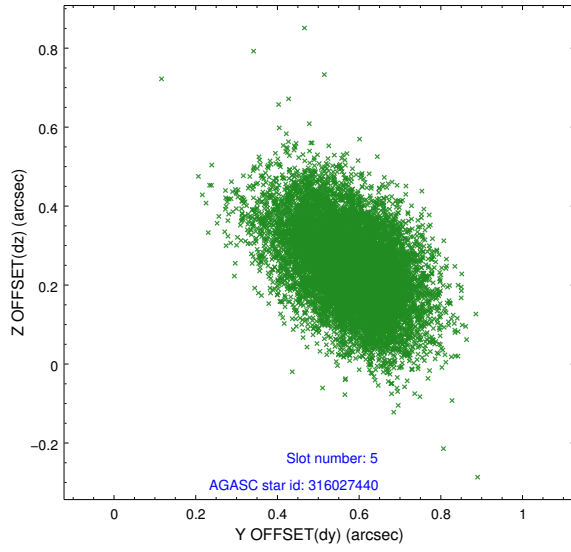
2.4.1 Slot 3



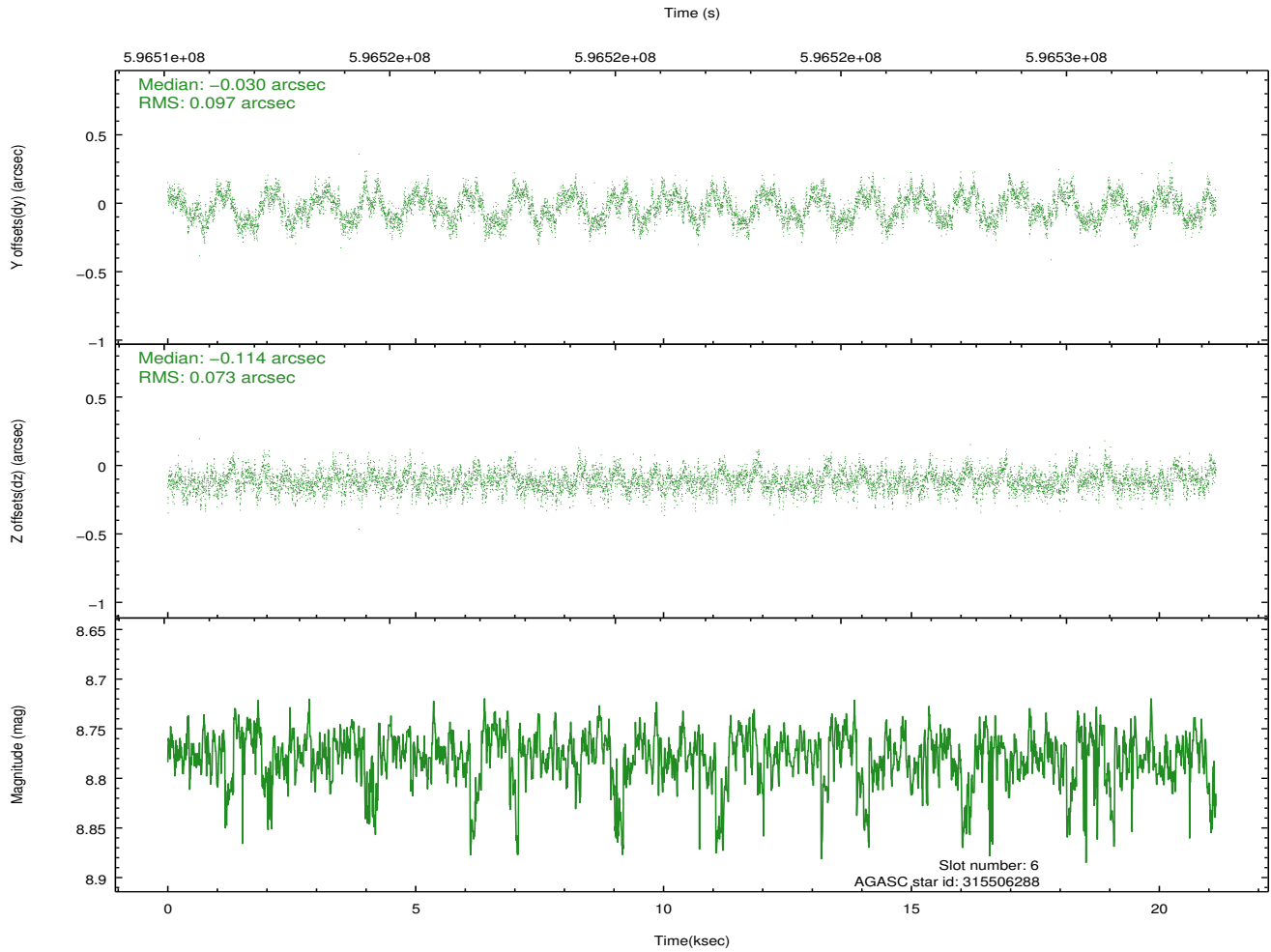
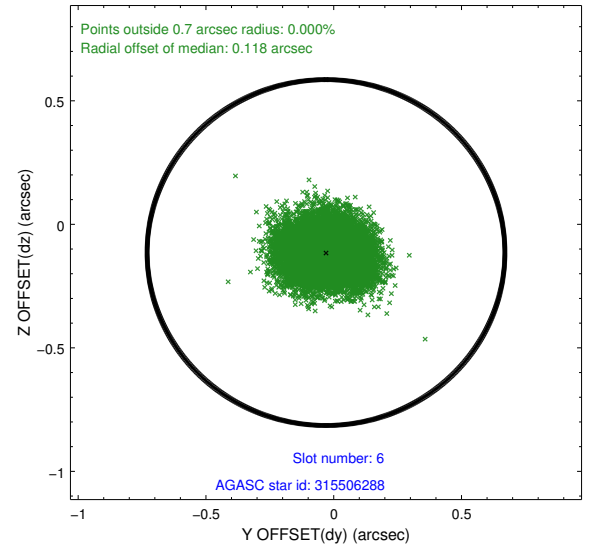
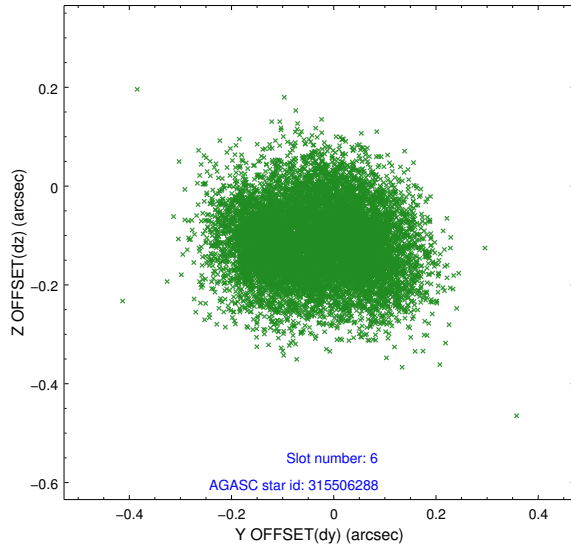
2.4.2 Slot 4



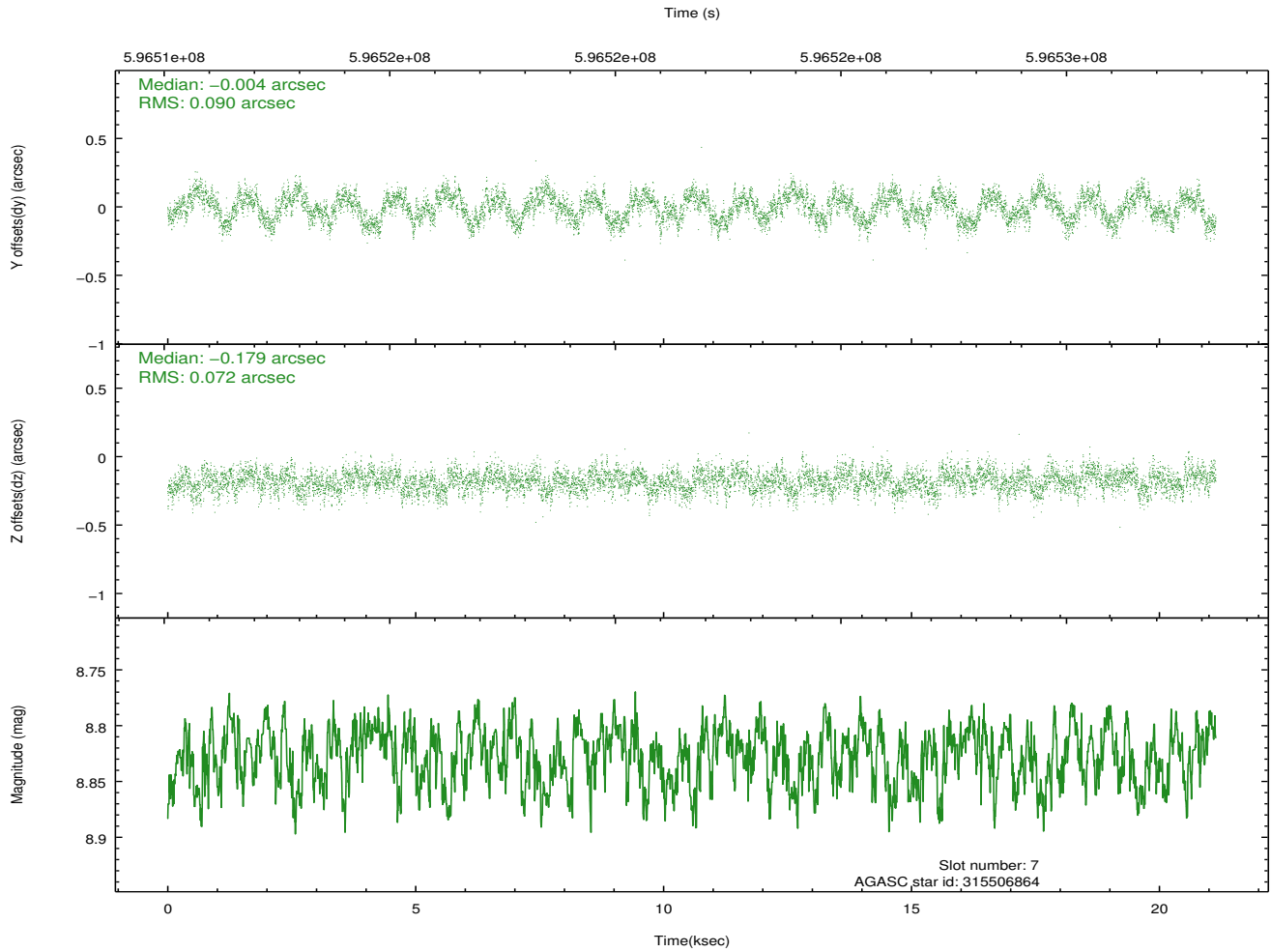
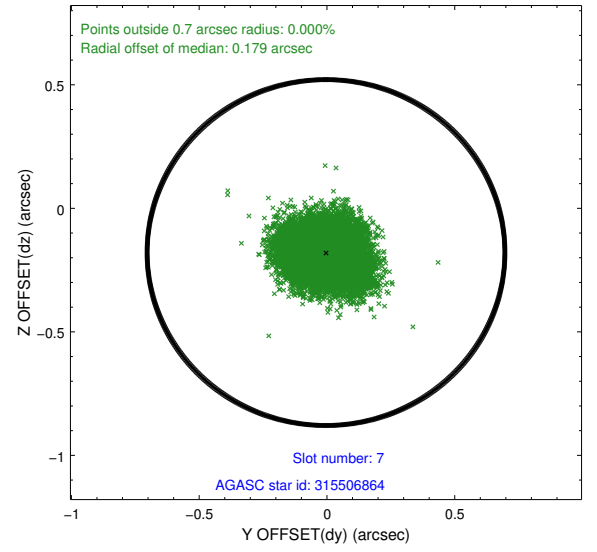
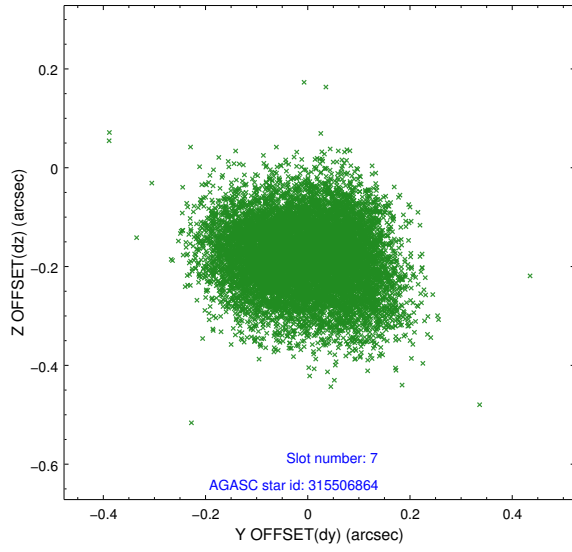
2.4.3 Slot 5



2.4.4 Slot 6

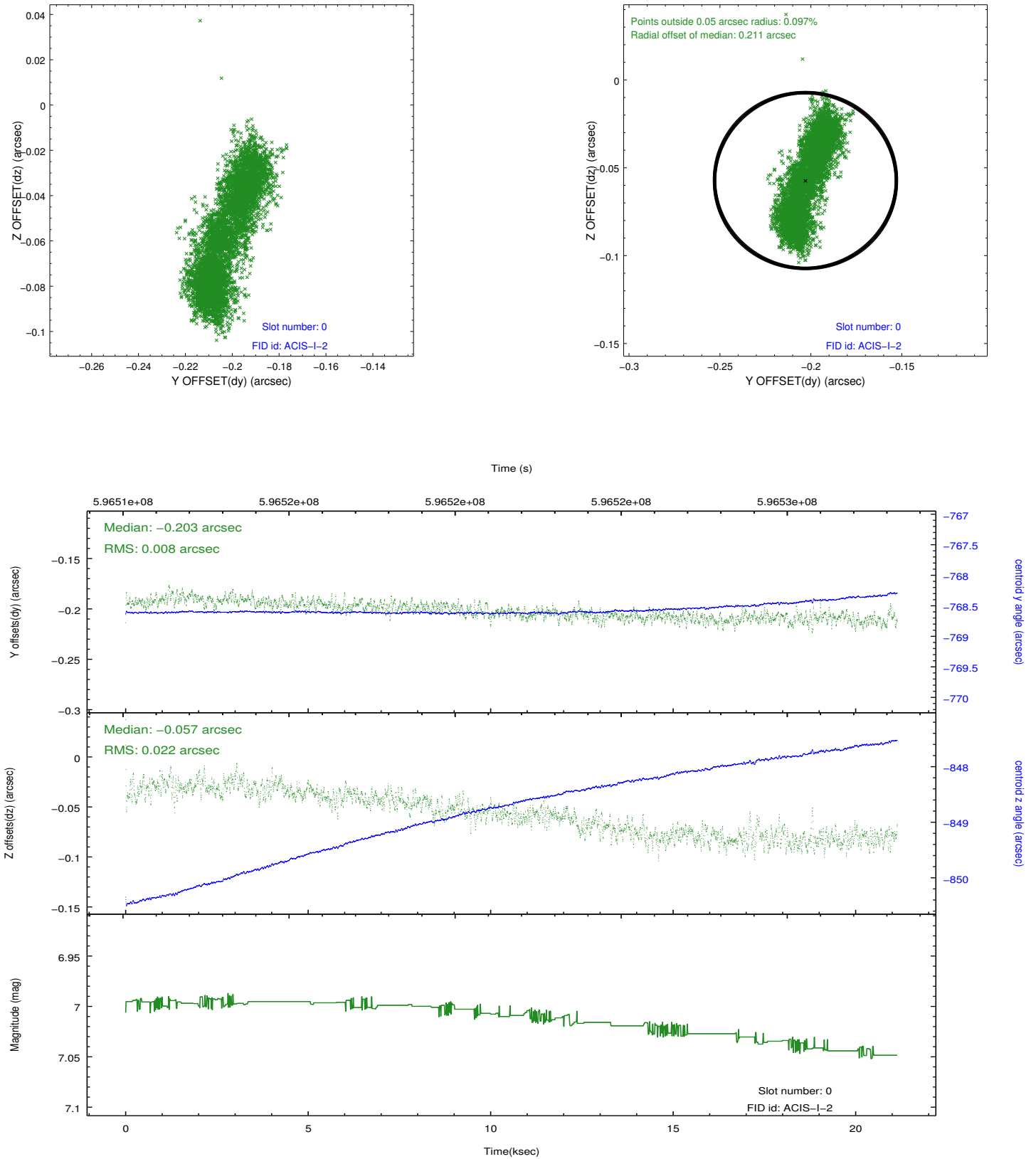


2.4.5 Slot 7

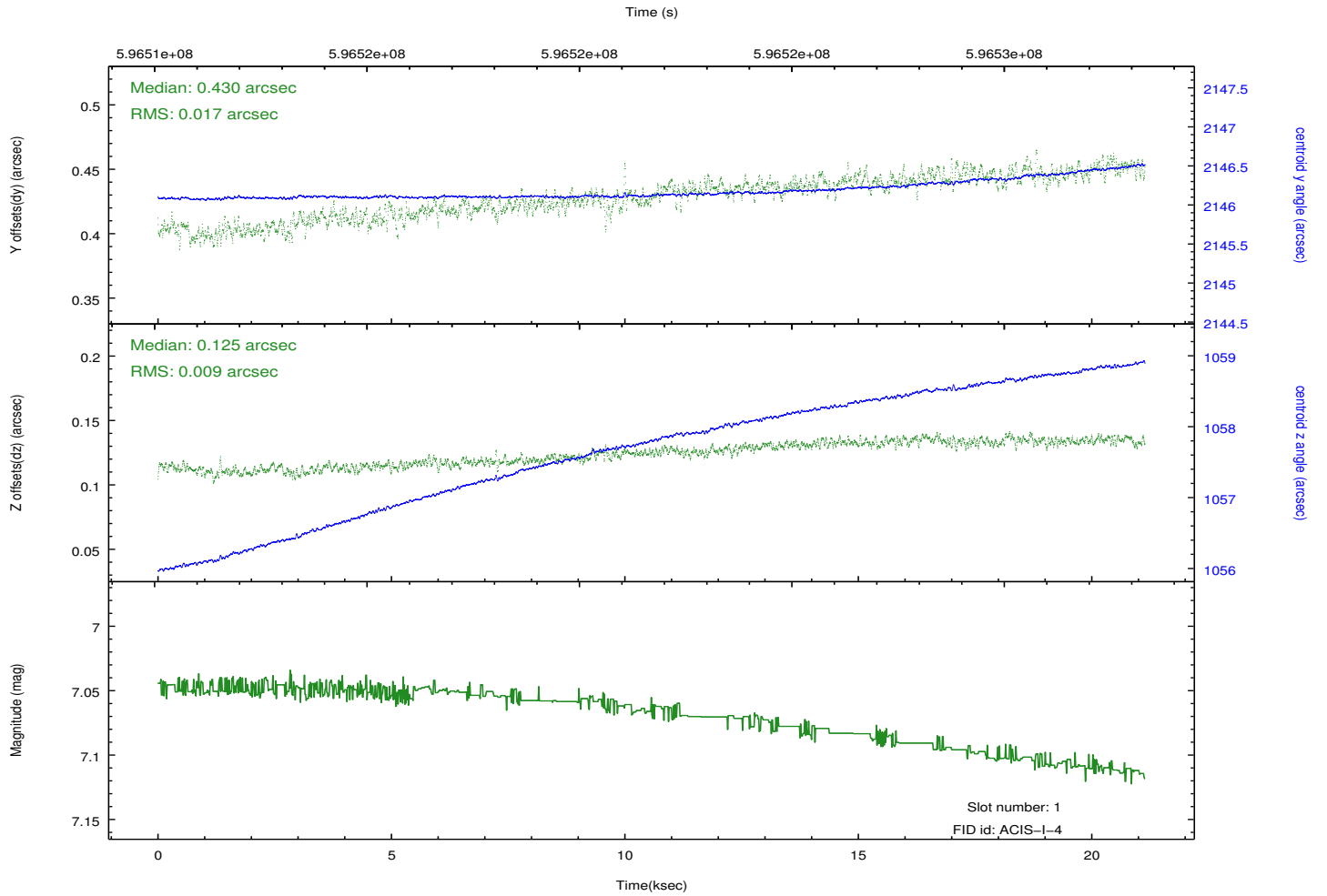
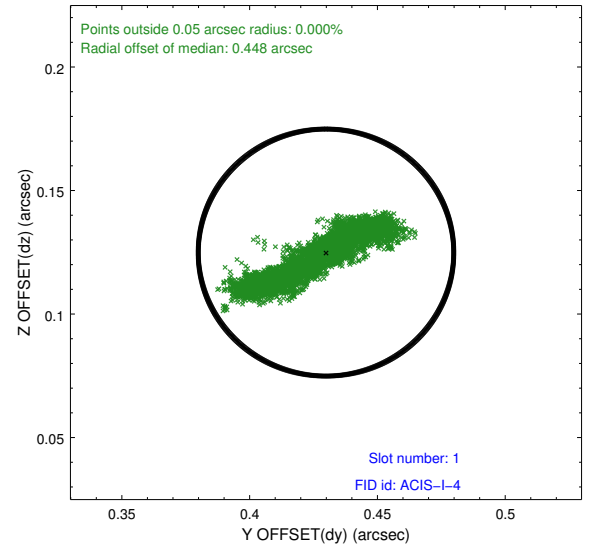
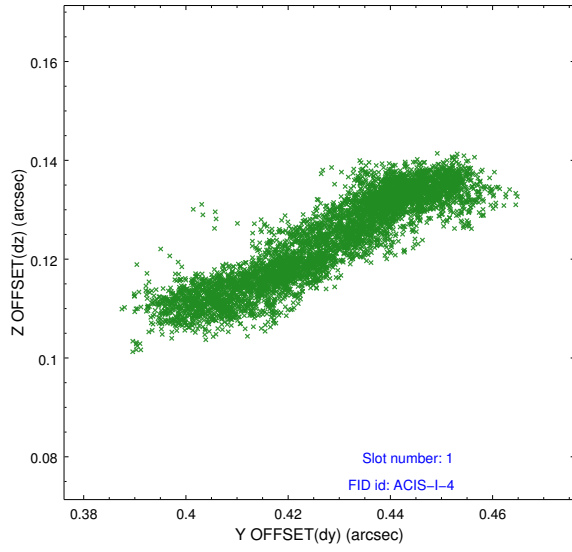


2.5 FID Slots

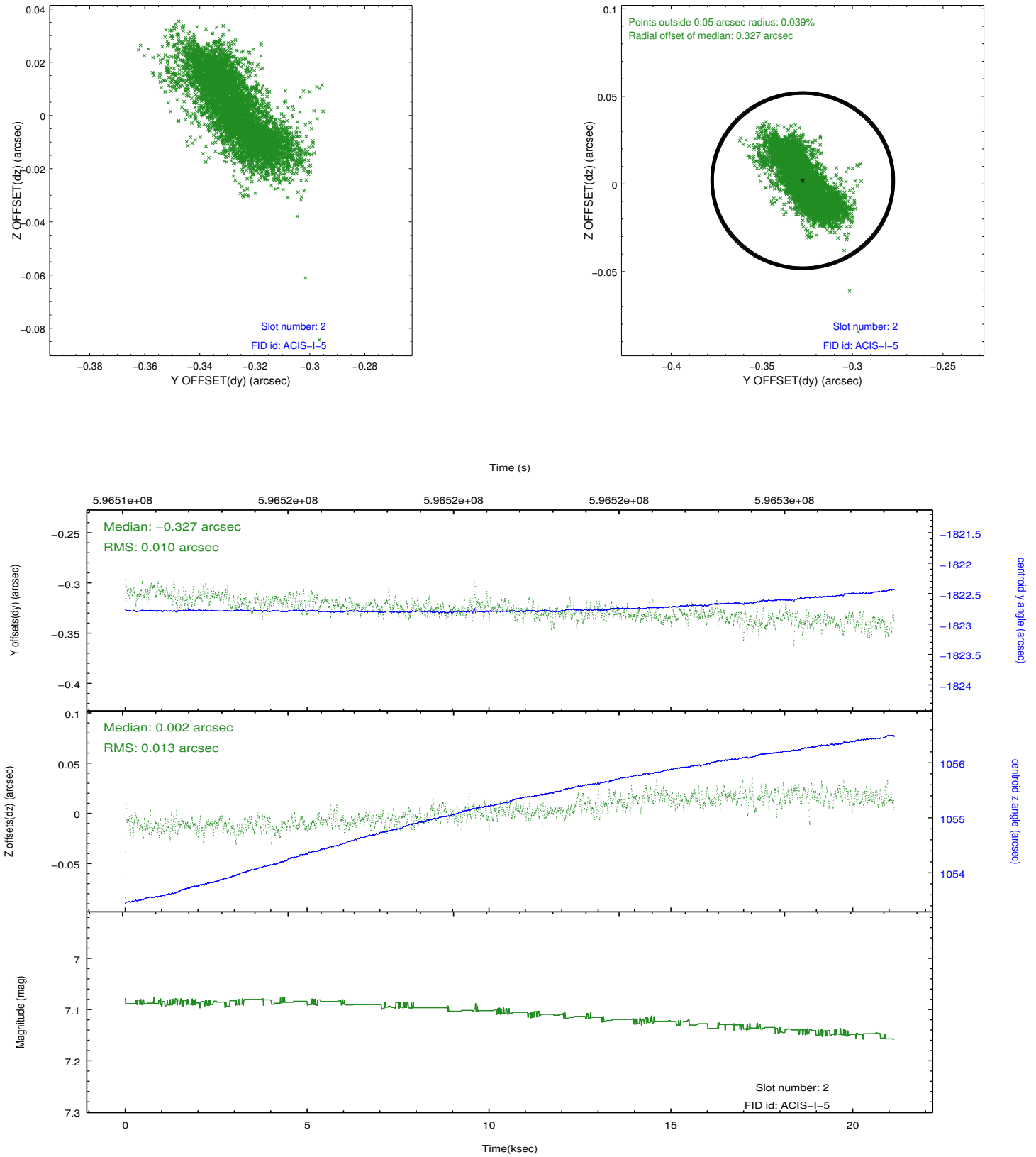
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.11.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.085337321281

A.2 Comments

Joint proposal with NRAO.

Observation coordinated with GBT.