

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19165 - L2 Version 1
Chandra X-Ray Center

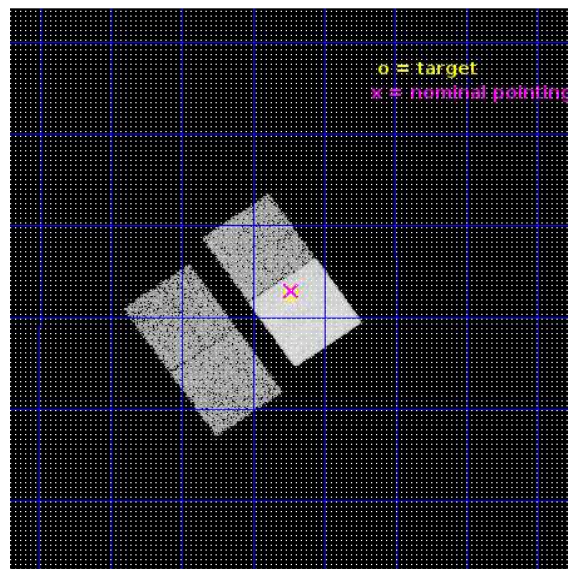
L2 Processing Date : Dec 10 2017

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1 Front

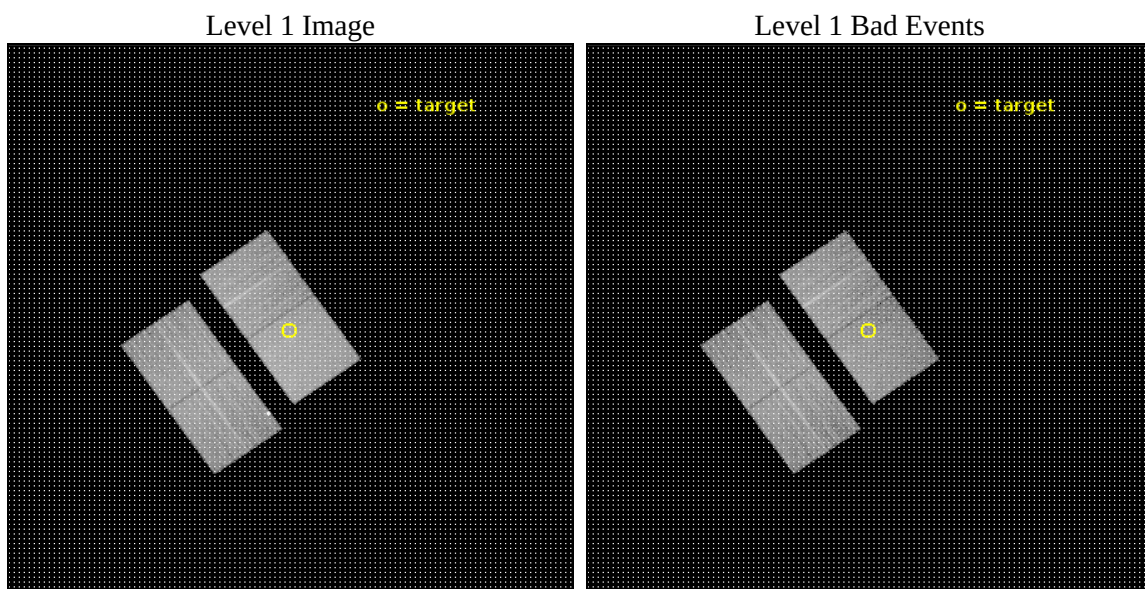
seq_num	502815	Sequence number
obs_id	19165	Observation id
title	Measuring the proper motion of the radio-quiet gamma-ray pulsar J0633+0632	Proposal title
observer	Andrey Danilenko	Principal investigator
object	PSR J0633+0632	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	98.434167	Observer's specified target RA [deg]
dec_targ	6.543028	Observer's specified target Dec [deg]
ra_nom	98.432708781165	Nominal RA [deg]
dec_nom	6.5483548884226	Nominal Dec [deg]
roll_nom	55.156801492914	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15069.100116014	Sum of GTIs [s]
livetime	14872.211229289	Livetime [s]
ontime2	15069.100116014	Sum of GTIs [s]
ontime3	15069.100116014	Sum of GTIs [s]
ontime6	15069.100116014	Sum of GTIs [s]
ontime7	15069.100116014	Sum of GTIs [s]
l2events	91548	Number of level 2 events



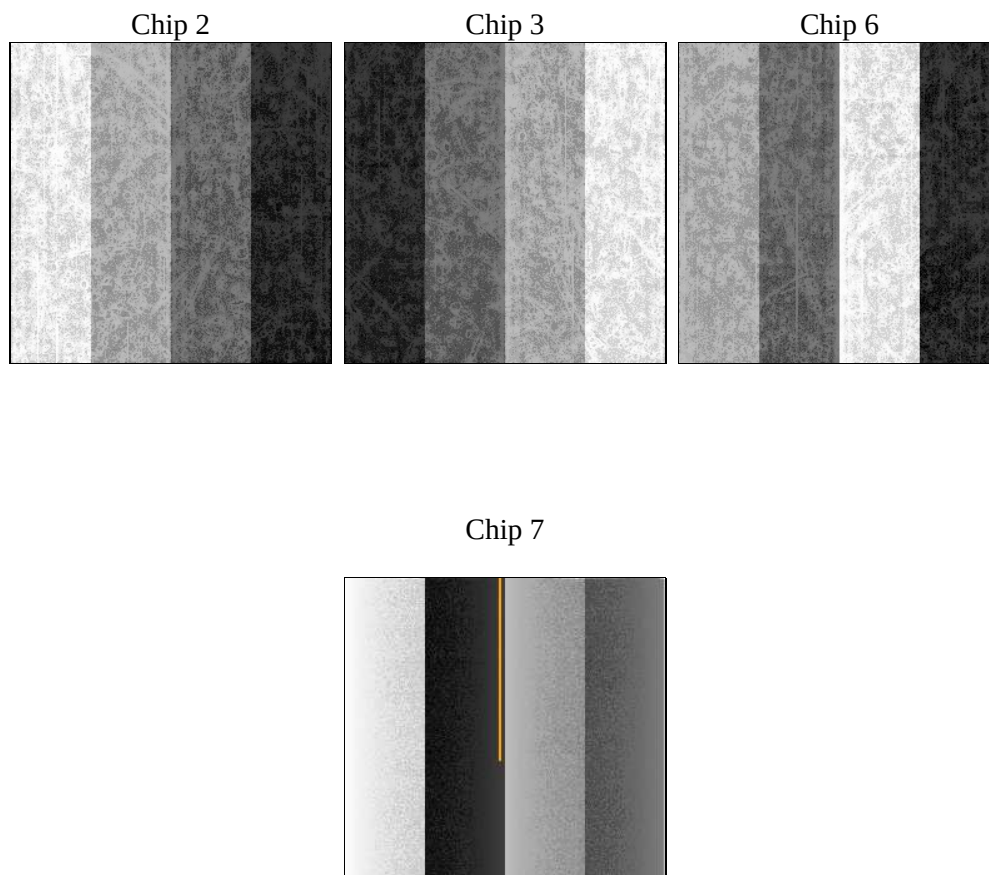
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	15069.100116014	Sum of GTIs [s]
caldsver	4.7.6	 	ontime2	15069.100116014	Sum of GTIs [s]
date	2017-12-11T01:41:52	Date and time of file creation	ontime3	15069.100116014	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	15069.100116014	Sum of GTIs [s]
			ontime7	15069.100116014	Sum of GTIs [s]
			l1events	465549	Number of level 1 events

2.1.4 Events

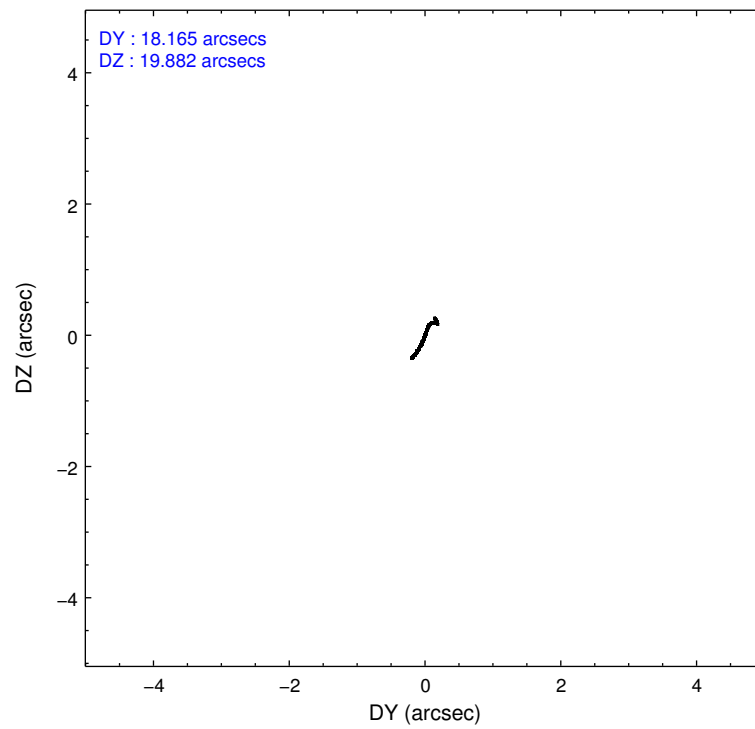
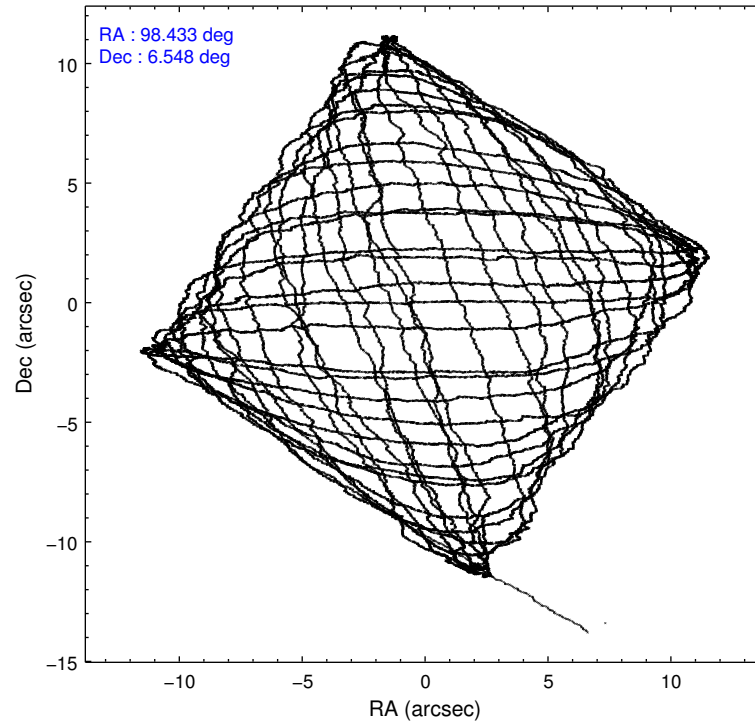
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	107560	107054	108971	141964
rejected events	96099	91502	96445	79383
rejected %	89%	85%	88%	55%

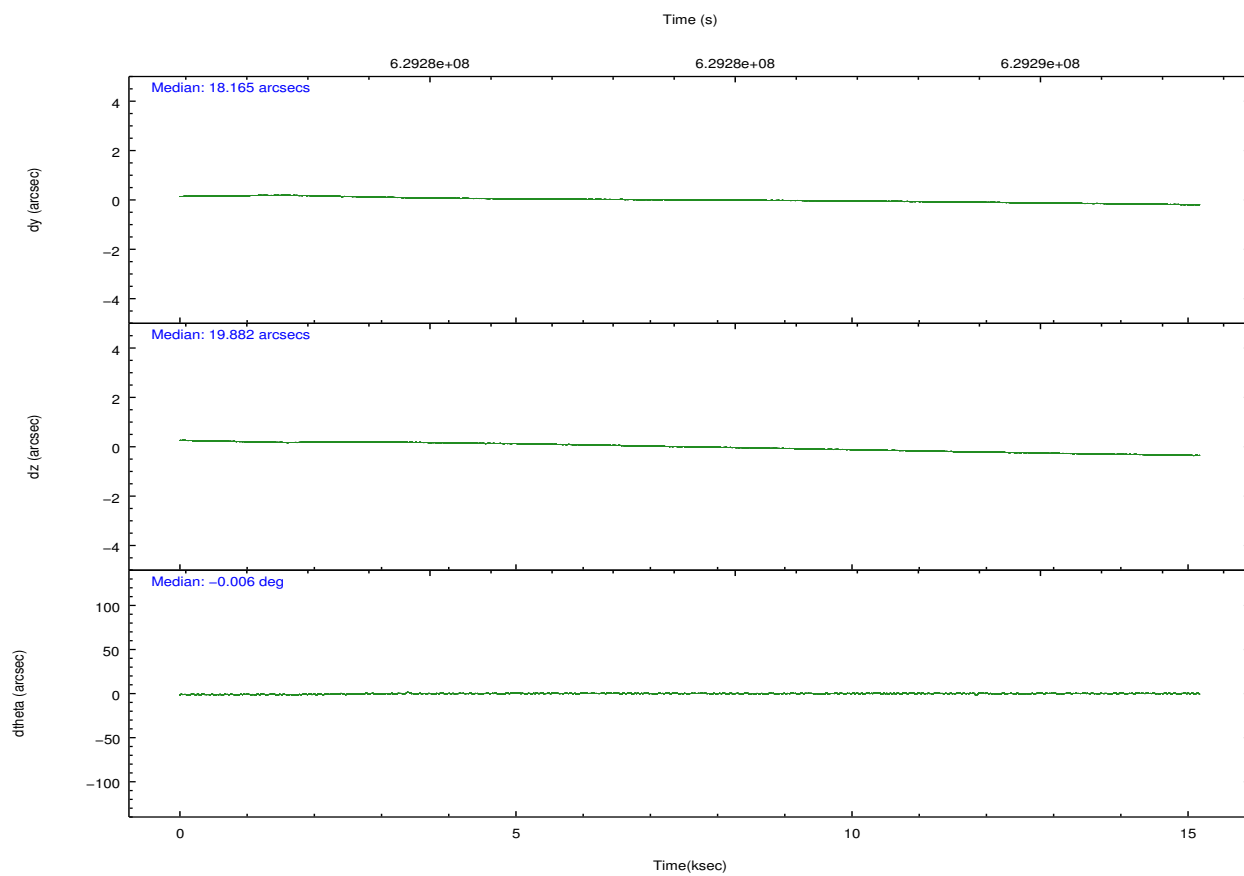
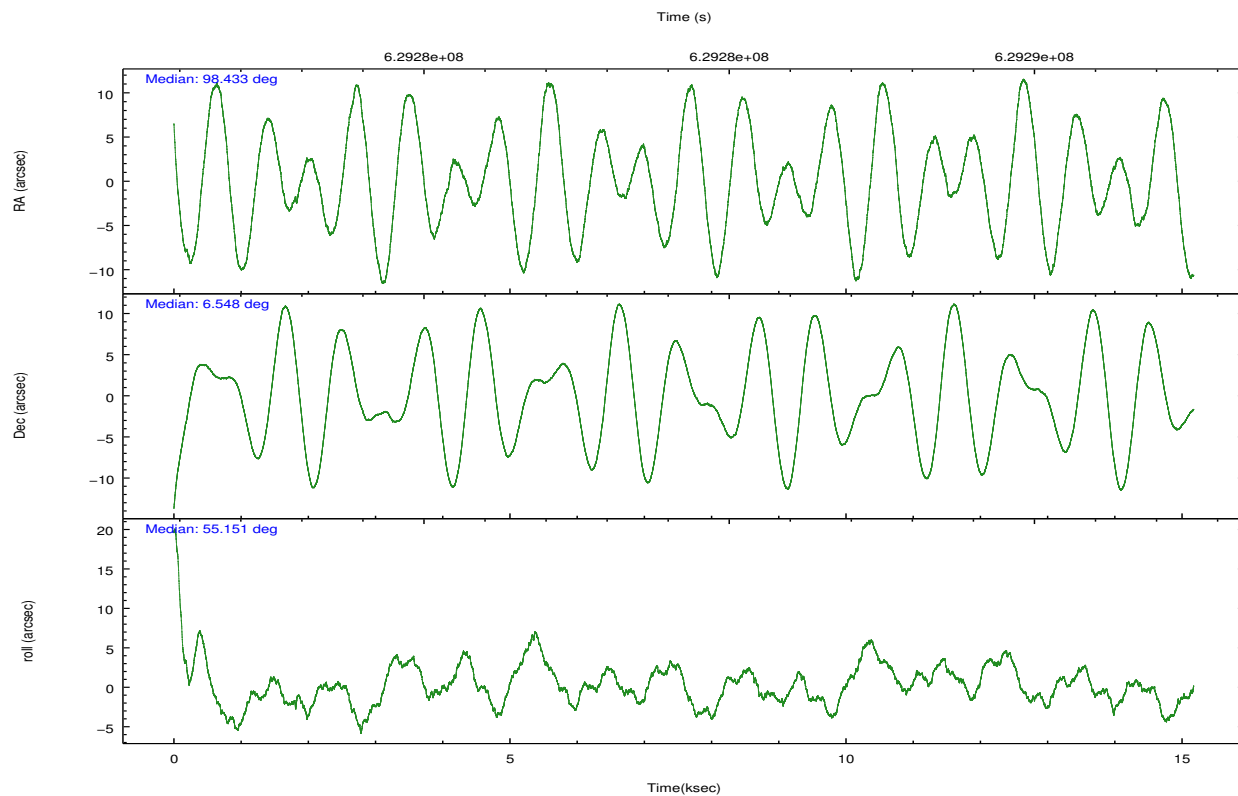
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	4103	3884	4284	5600
	3%	3%	3%	3%
grade 1 events	61	59	51	188
	0%	0%	0%	0%
grade 2 events	2750	7004	2882	13365
	2%	6%	2%	9%
grade 3 events	1078	1135	1214	5055
	1%	1%	1%	3%
grade 4 events	1223	1146	1125	5059
	1%	1%	1%	3%
grade 5 events	4086	5013	4998	13771
	3%	4%	4%	9%
grade 6 events	2310	2385	3024	33521
	2%	2%	2%	23%
grade 7 events	91949	86428	91393	65405
	85%	80%	83%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	98.430769	98.43270878116535	Subarray requested	NONE	NONE
[deg] Pointing Dec	6.520995	6.548354888422605	Alternating exposures requested	N	N
[deg] Pointing Roll	55.000384	55.1568014929138	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	629276836.184000	629275845.86677			
Observation start date	2017-12-10T07:06:07	2017-12-10T06:50:45			
[s] Observation end time (MET)	629291836.184000	629292690.71776			
Observation end date	2017-12-10T11:16:07	2017-12-10T11:31:30			
Read mode	TIMED	TIMED			

2.3 Aspect



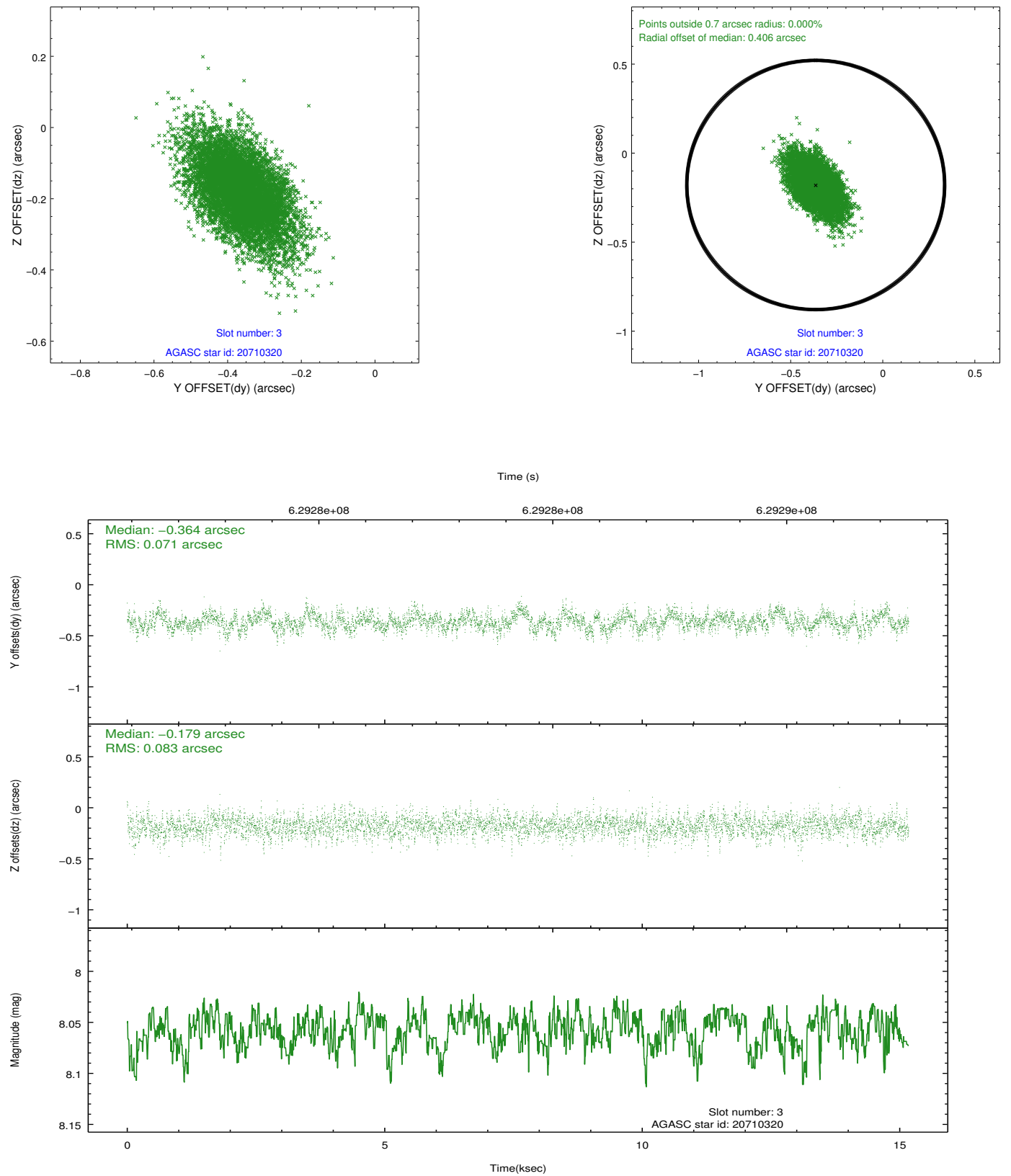


Slot Statistics

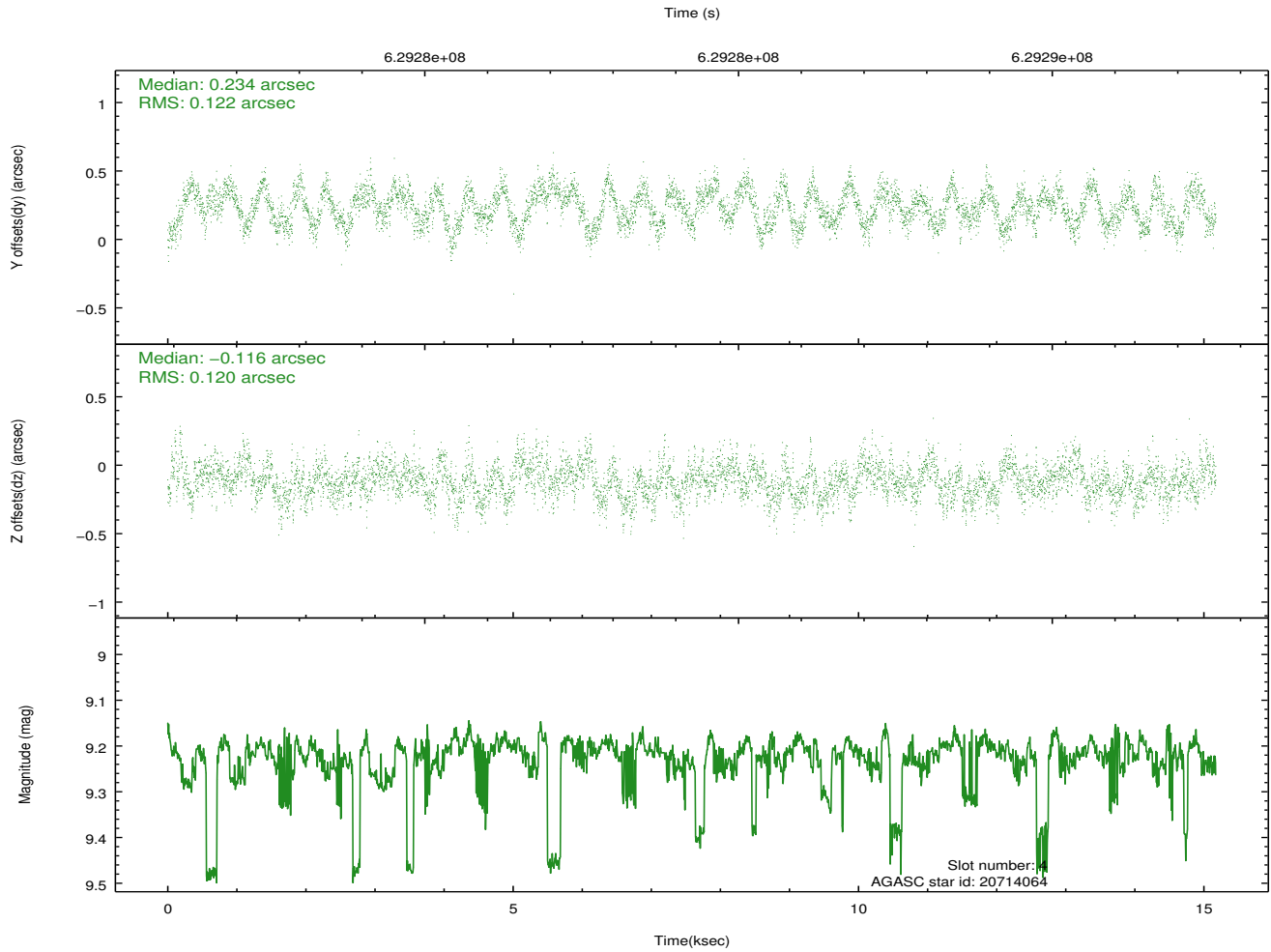
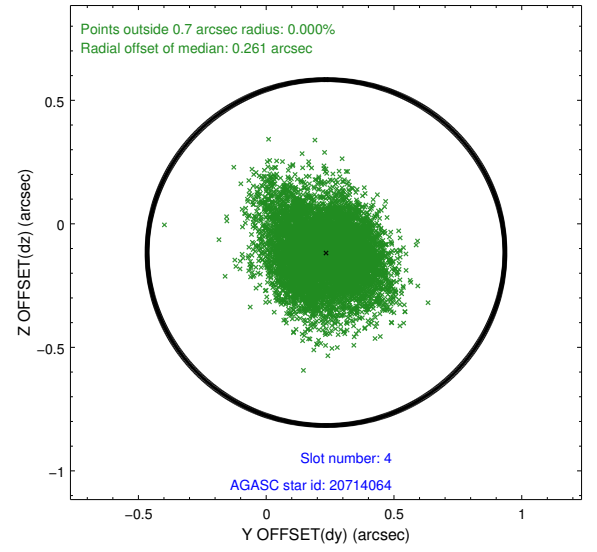
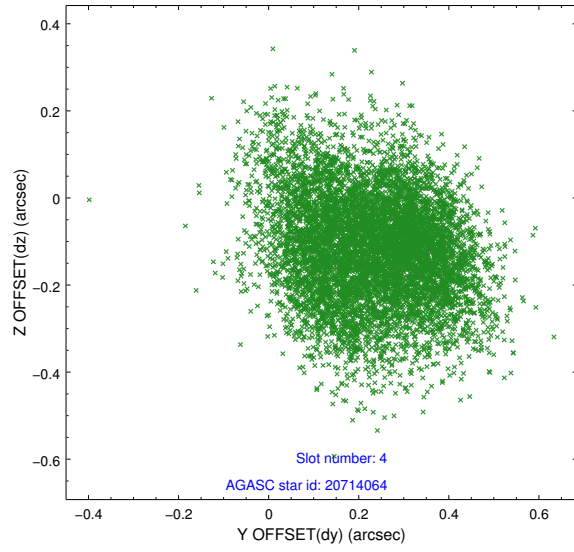
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.02	3701	-0.215	-0.104	0.009	0.014	0.000000	0.000000	-771.39	-1741.50
1	FID		ACIS-S-4	7.13	3701	0.525	0.132	0.006	0.011	0.000000	0.000000	2142.44	166.99
2	FID		ACIS-S-5	7.12	3701	-0.341	-0.019	0.009	0.015	0.000000	0.000000	-1824.03	160.74
3	GUIDE	used	20710320	8.06	7400	-0.364	-0.179	0.112	0.199	97.902133	6.481556	-1200.37	1467.71
4	GUIDE	used	20714064	9.22	7399	0.234	-0.116	0.183	0.294	97.827370	6.379135	-1655.37	1476.04
5	GUIDE	used	20726616	8.34	7402	-0.261	-0.224	0.131	0.227	98.575907	7.220341	2359.42	1019.28
6	GUIDE	used	20728304	8.98	7397	0.581	0.545	0.140	0.231	98.410971	5.953943	-1711.78	-1112.44
7	GUIDE	used	20728424	7.91	7401	-0.193	-0.023	0.127	0.215	98.594325	6.695112	848.80	-119.63

2.4 Star Slots

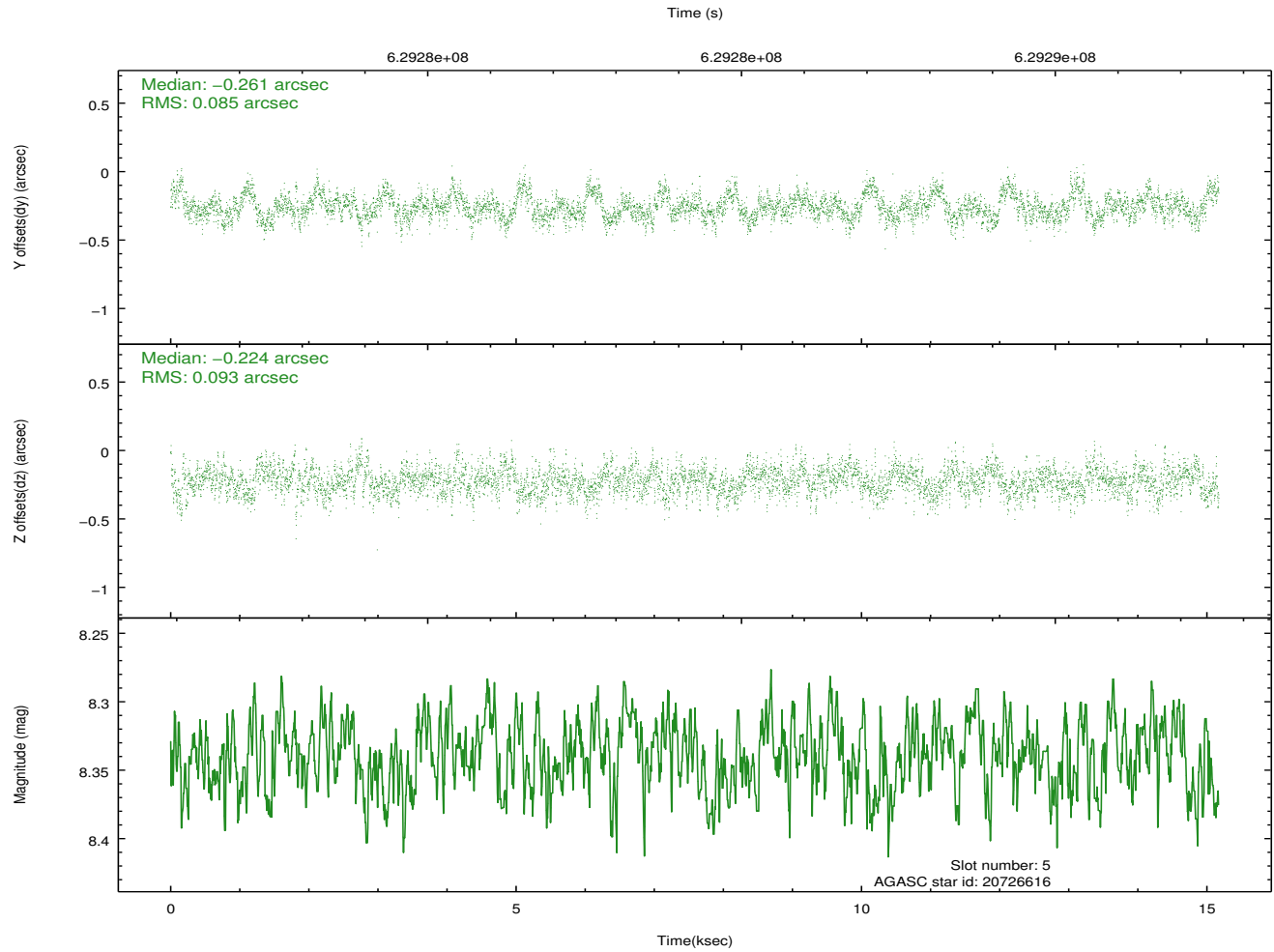
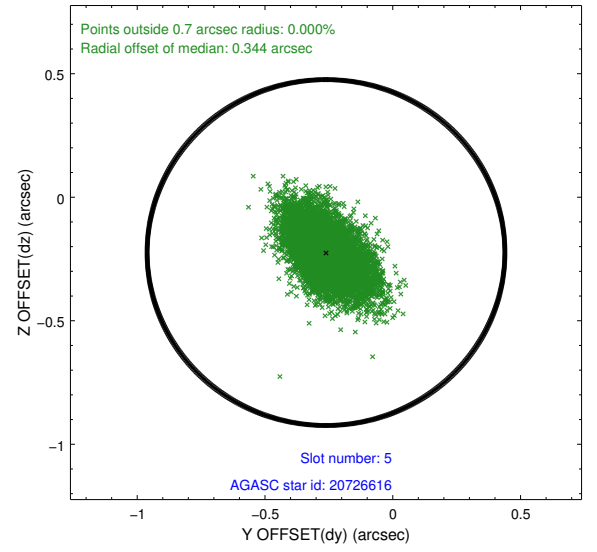
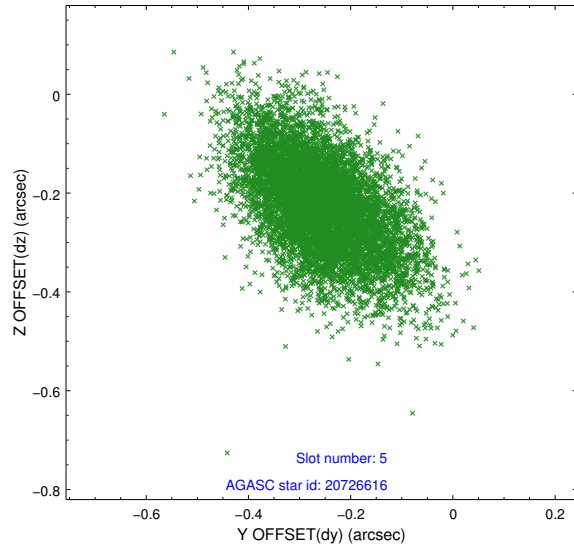
2.4.1 Slot 3



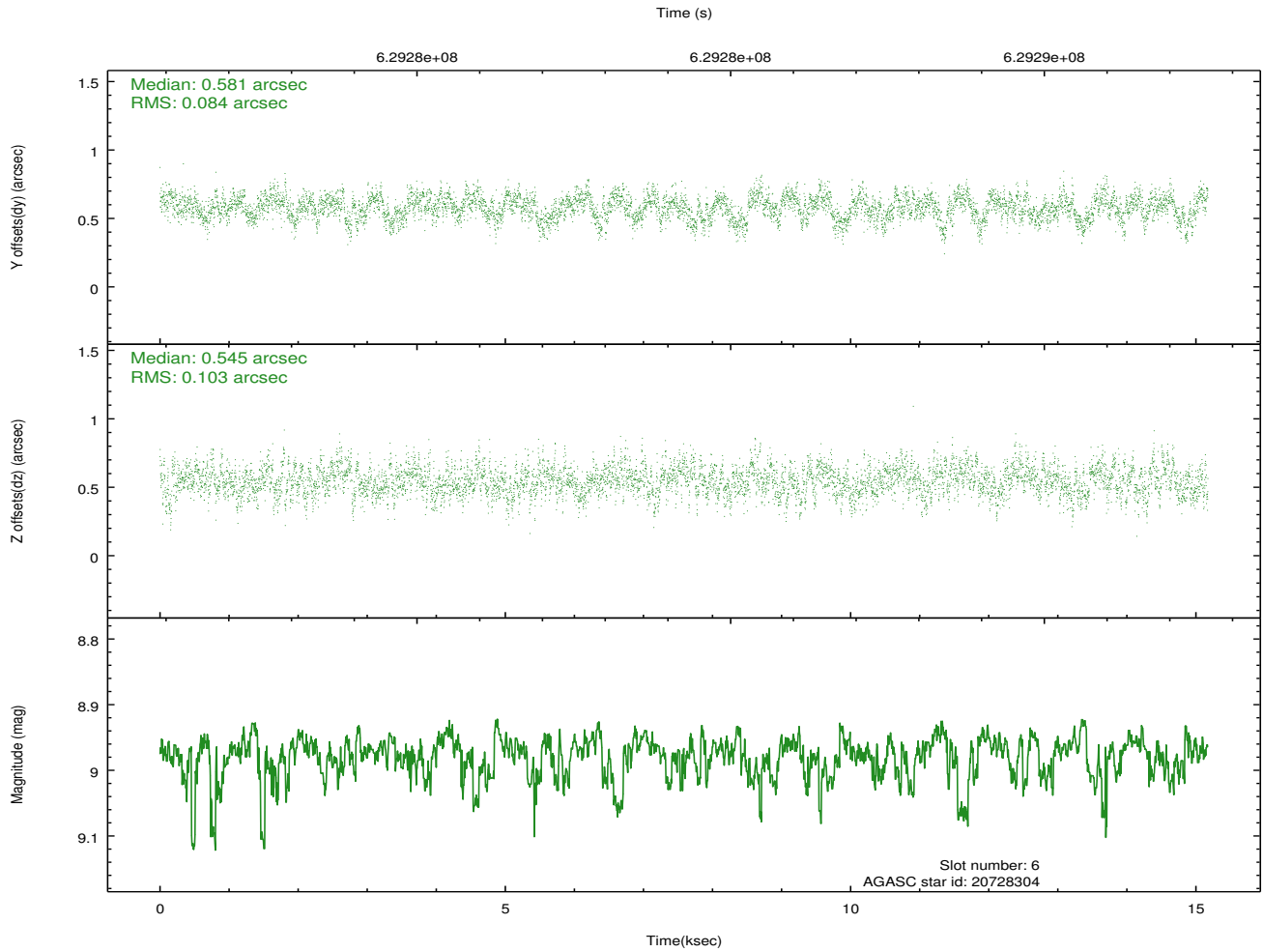
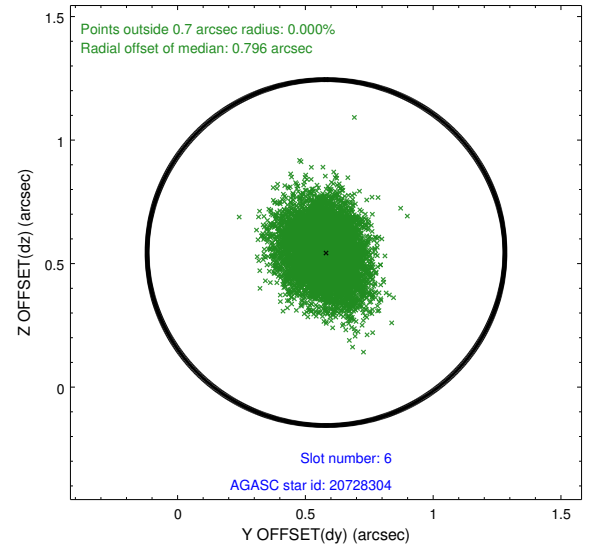
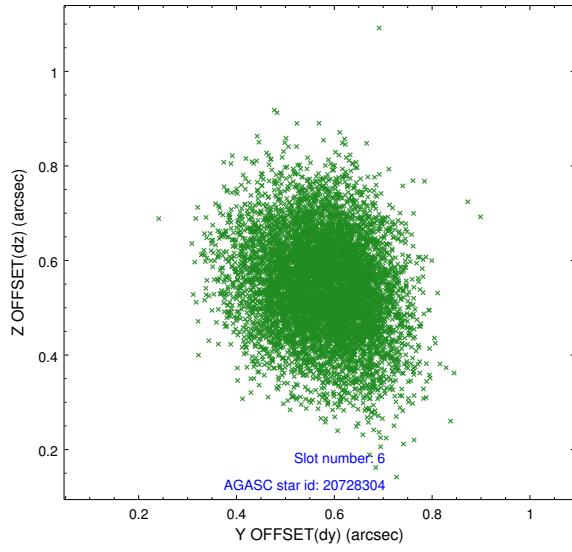
2.4.2 Slot 4



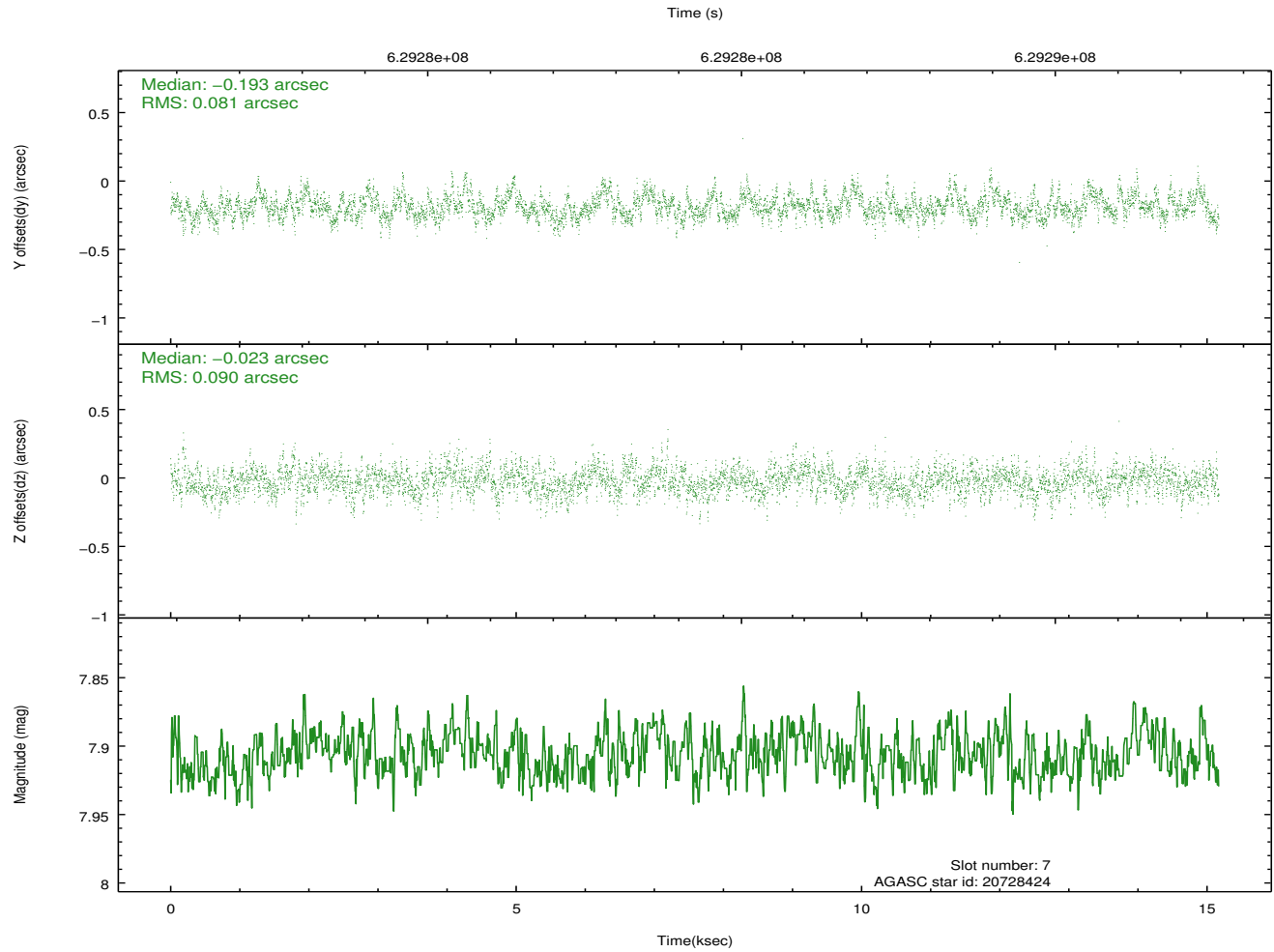
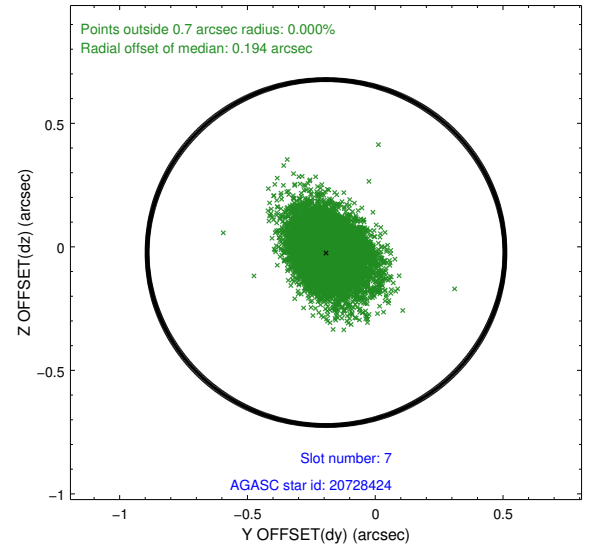
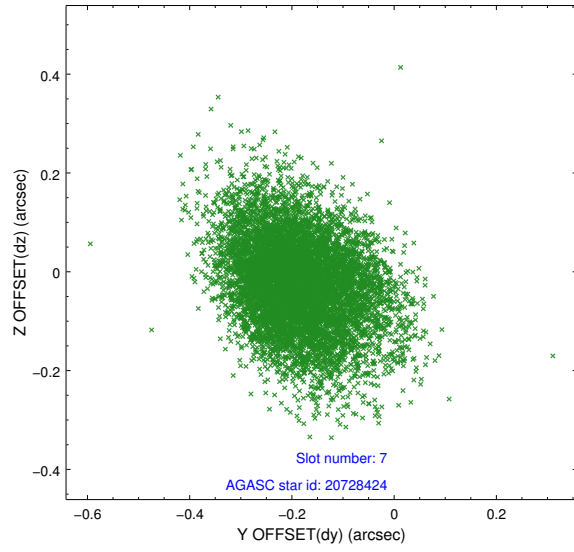
2.4.3 Slot 5



2.4.4 Slot 6

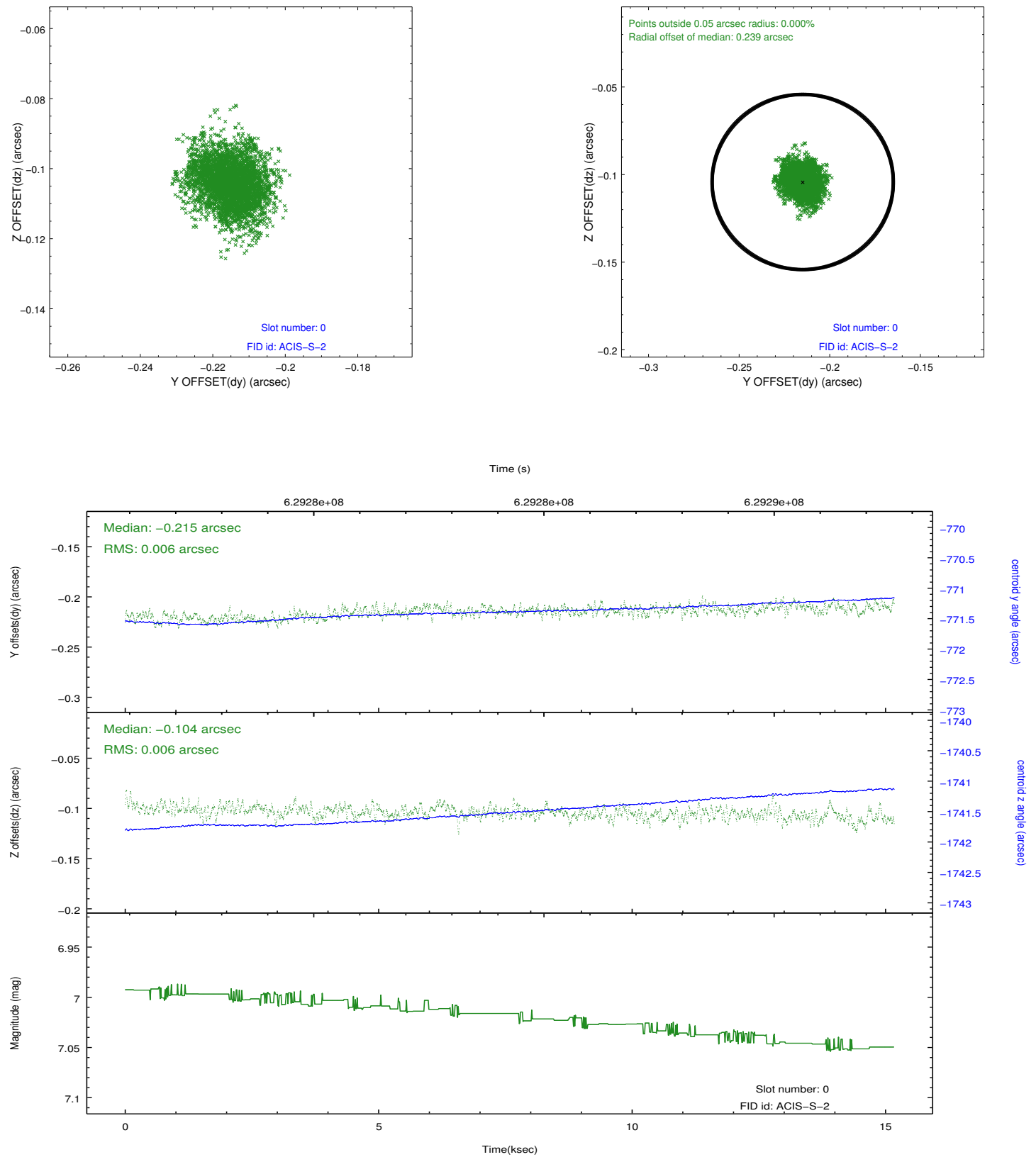


2.4.5 Slot 7

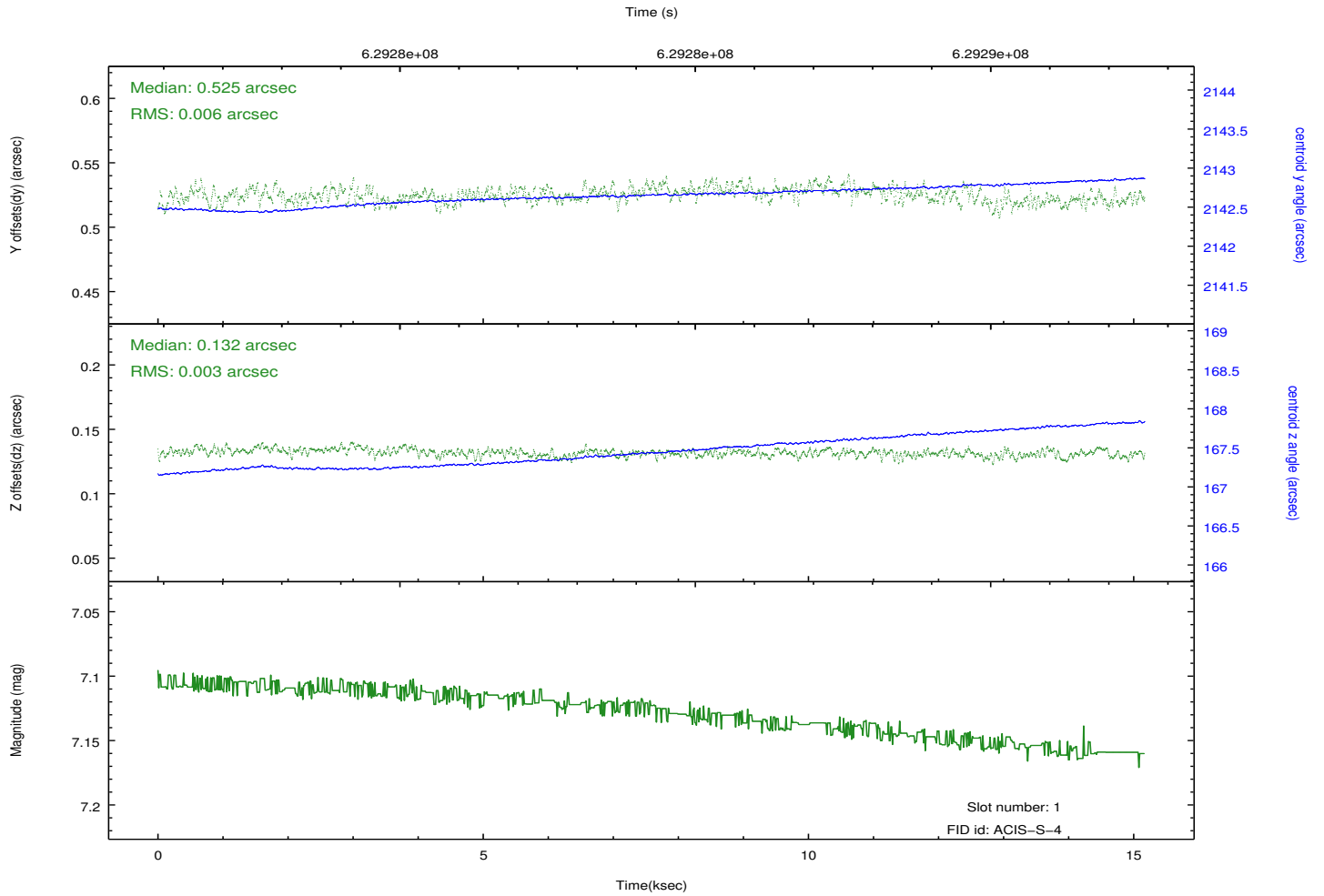
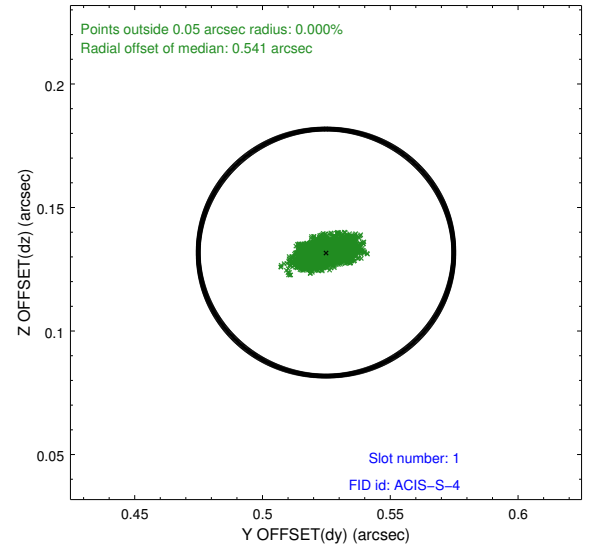
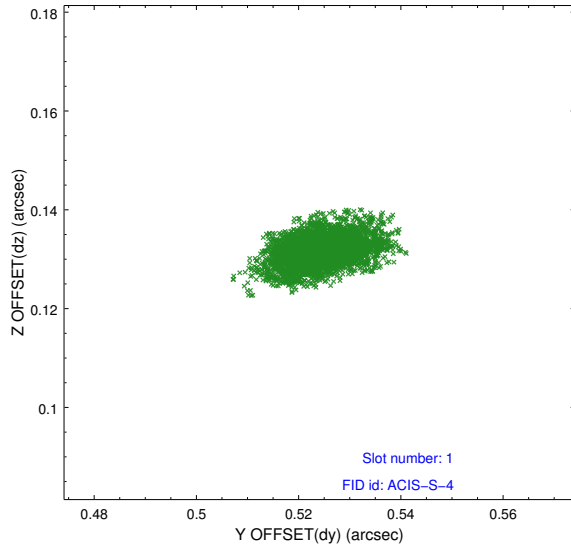


2.5 FID Slots

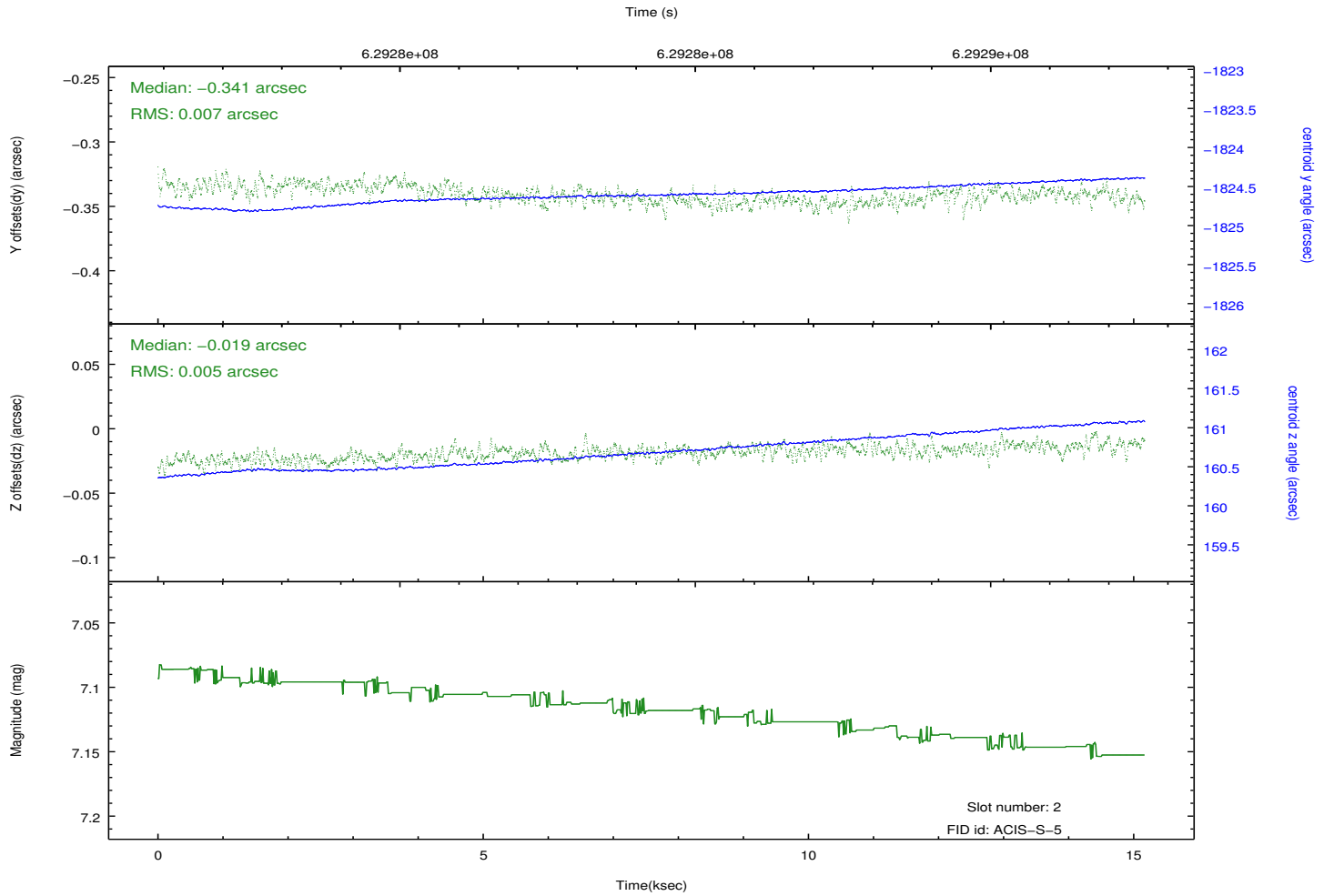
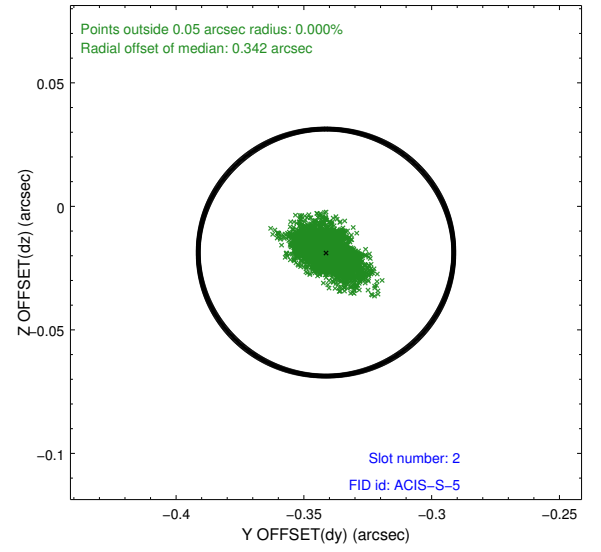
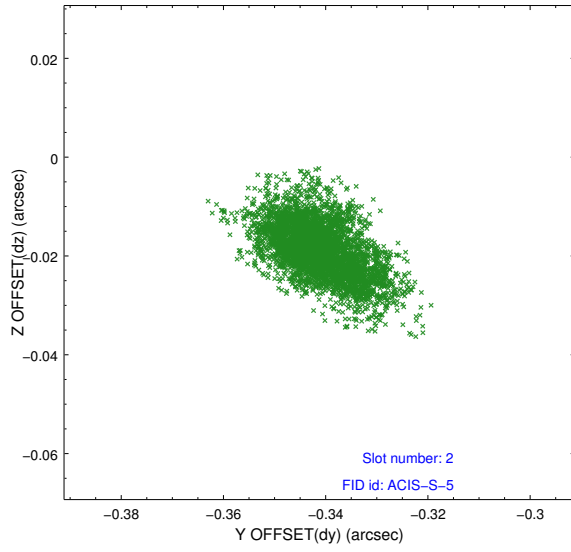
2.5.1 Slot 0



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)	2017.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.069100116014

A.2 Comments