

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19851 - L2 Version 1
Chandra X-Ray Center

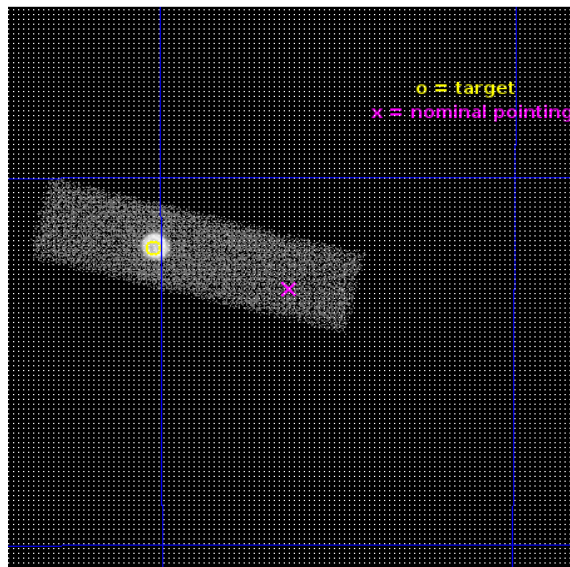
L2 Processing Date : Mar 23 2017

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1 Front

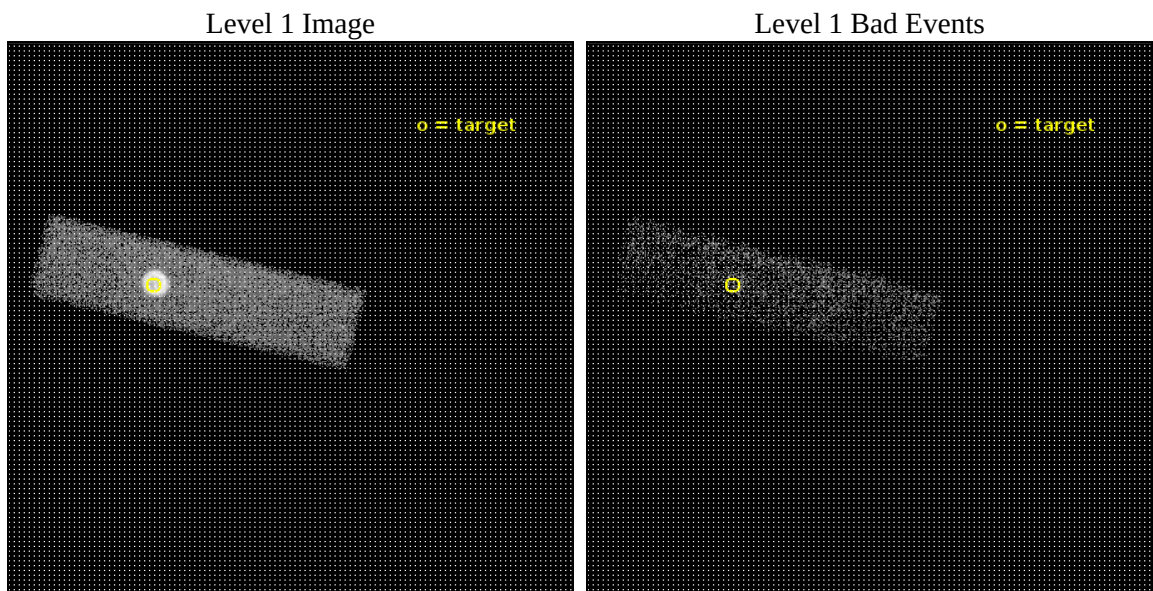
seq_num	590554	Sequence number
obs_id	19851	Observation id
title	AO-18 Calibration Observations of E0102-72	Proposal title
observer	CXC Calibration	Principal investigator
object	E0102-72	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.817891239747	Nominal RA [deg]
dec_nom	-72.050766492139	Nominal Dec [deg]
roll_nom	194.03130907244	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20063.998804092	Sum of GTIs [s]
livetime	19084.941314651	Livetime [s]
ontime7	20063.998804092	Sum of GTIs [s]
l2events	58677	Number of level 2 events



2 OBI

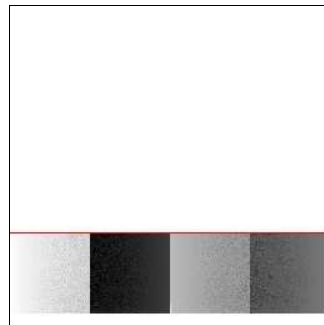
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	20063.998804092	Sum of GTIs [s]
caldsver	4.7.3	 	ontime7	20063.998804092	Sum of GTIs [s]
date	2017-03-23T20:21:37	Date and time of file creation	l1events	76885	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

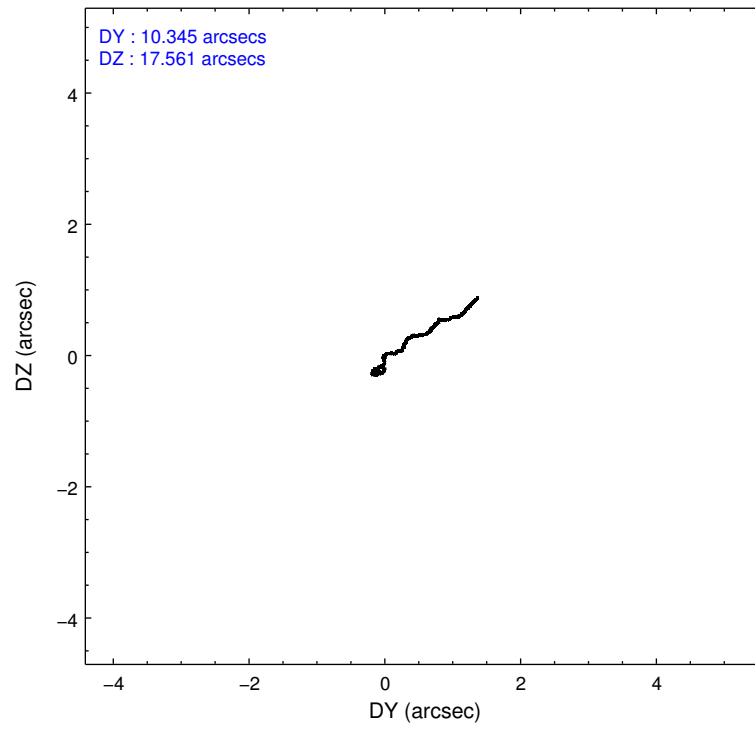
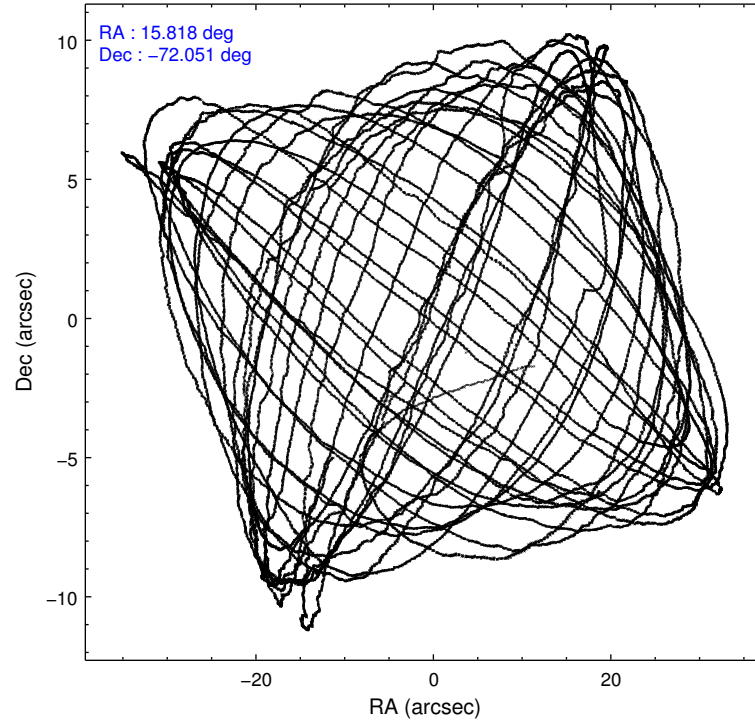
	ccd 7
level 1 events	76885
rejected events	17716
rejected %	23%

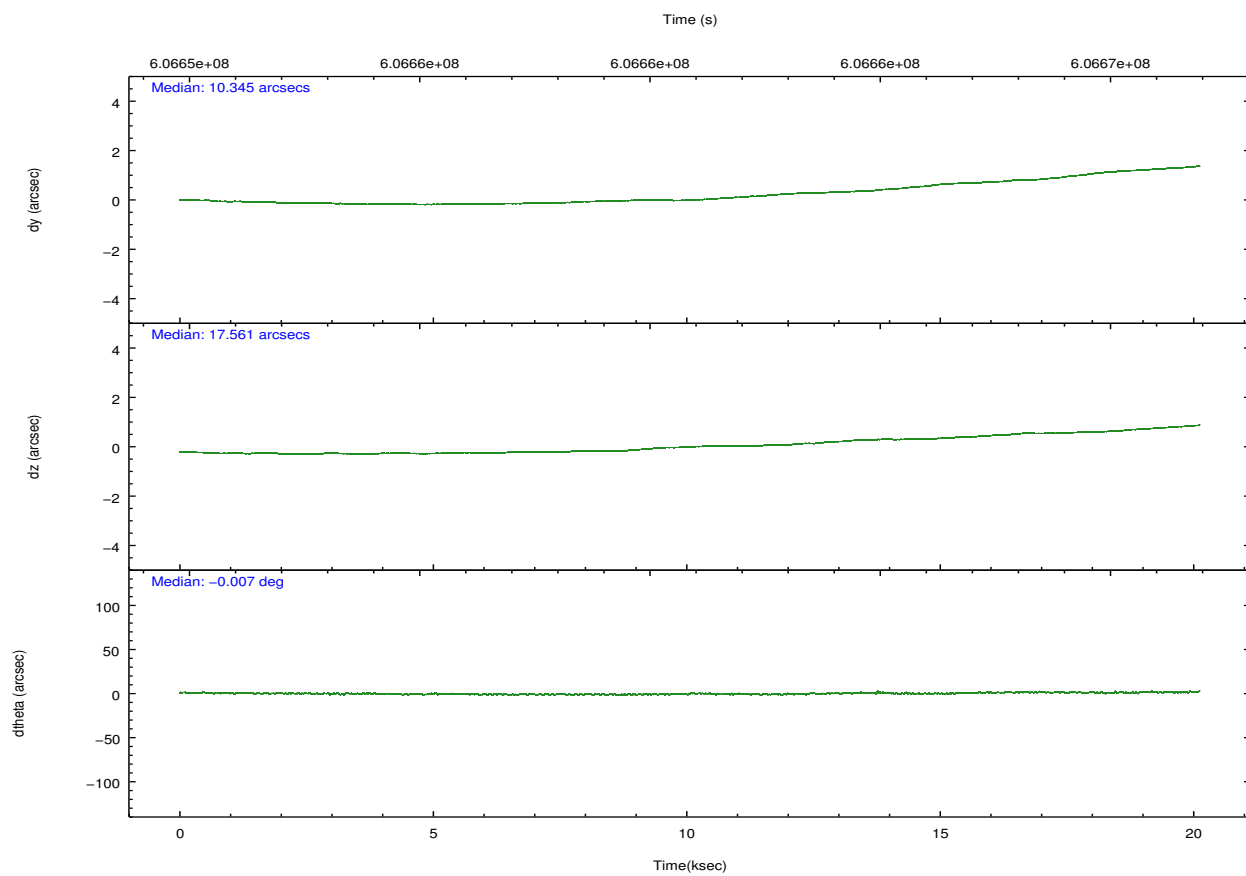
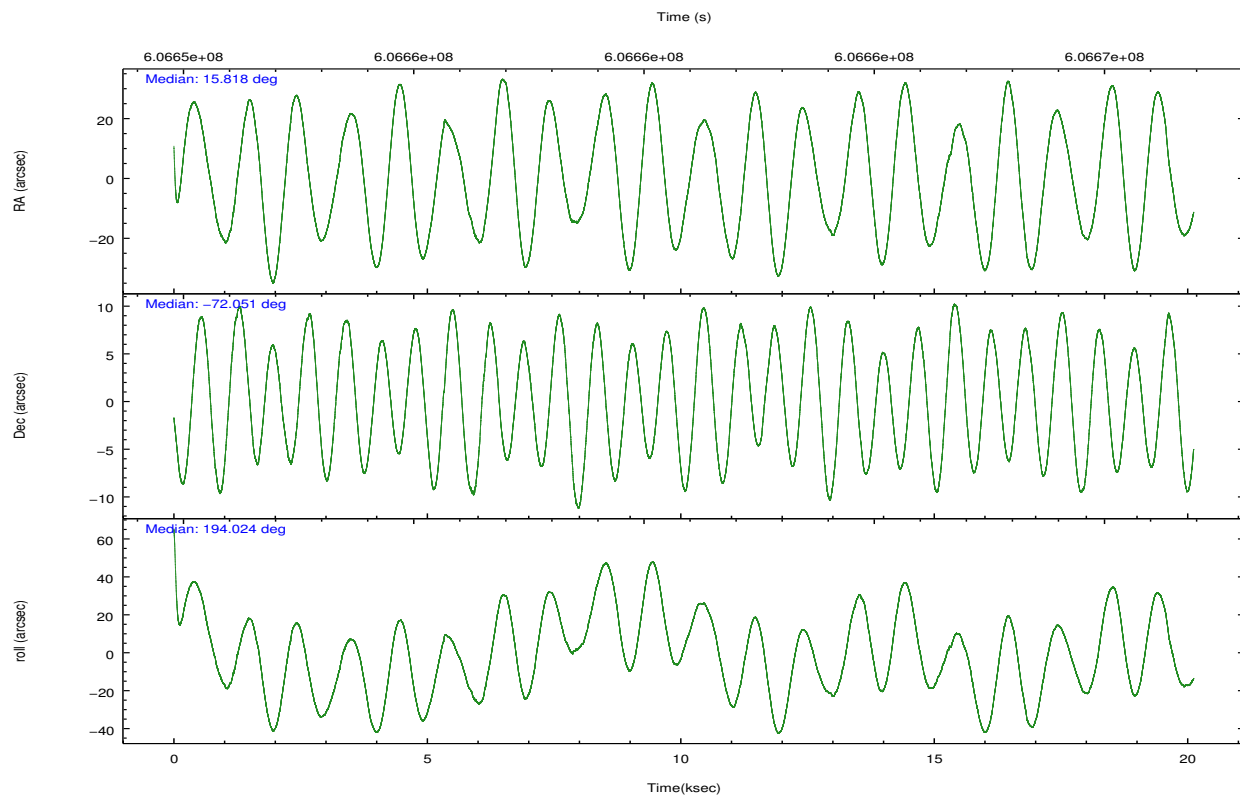
	ccd 7
grade 0 events	14594
	18%
grade 1 events	96
	0%
grade 2 events	15159
	19%
grade 3 events	7032
	9%
grade 4 events	6874
	8%
grade 5 events	3904
	5%
grade 6 events	15510
	20%
grade 7 events	13716
	17%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	15.881007	15.81789123974712	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-72.031386	-72.05076649213908	Subarray start row	42	42
[deg] Pointing Roll	193.934700	194.0313090724357	Subarray row count	256	256
[s] Window start time (MET)	602294469.184000	602294469.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	607305669.184000	607305669.184000	[s] Primary exposure time	0.000000	0.8
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-181.447523	-181.4505923676805			
[mm] SIM translation stage offset	-8.685	-8.681930215327299			
[s] Observation start time (MET)	606650927.184000	606649681.40846			
Observation start date	2017-03-23T10:07:38	2017-03-23T09:48:01			
[s] Observation end time (MET)	606670927.184000	606671642.54723			
Observation end date	2017-03-23T15:40:58	2017-03-23T15:54:02			
Read mode	TIMED	TIMED			

2.3 Aspect



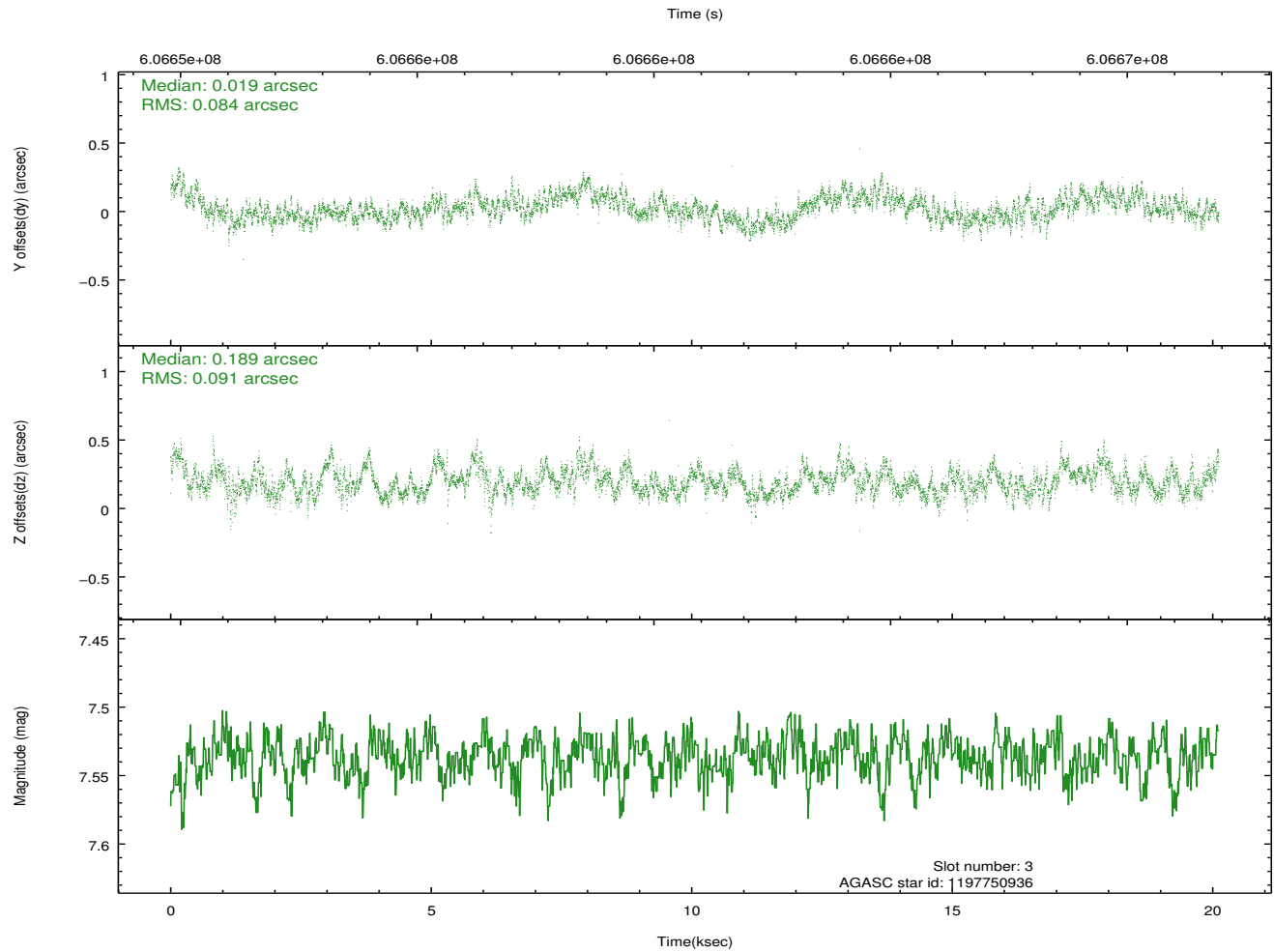
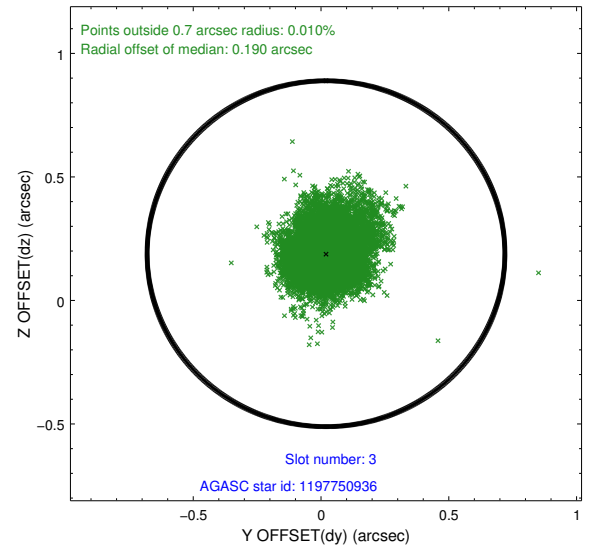
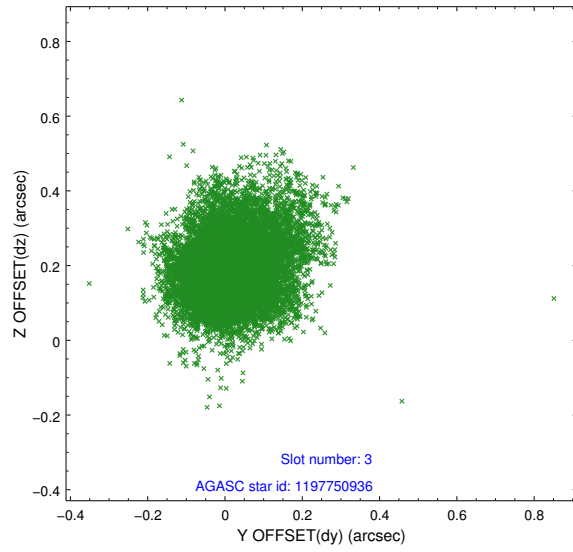


Slot Statistics

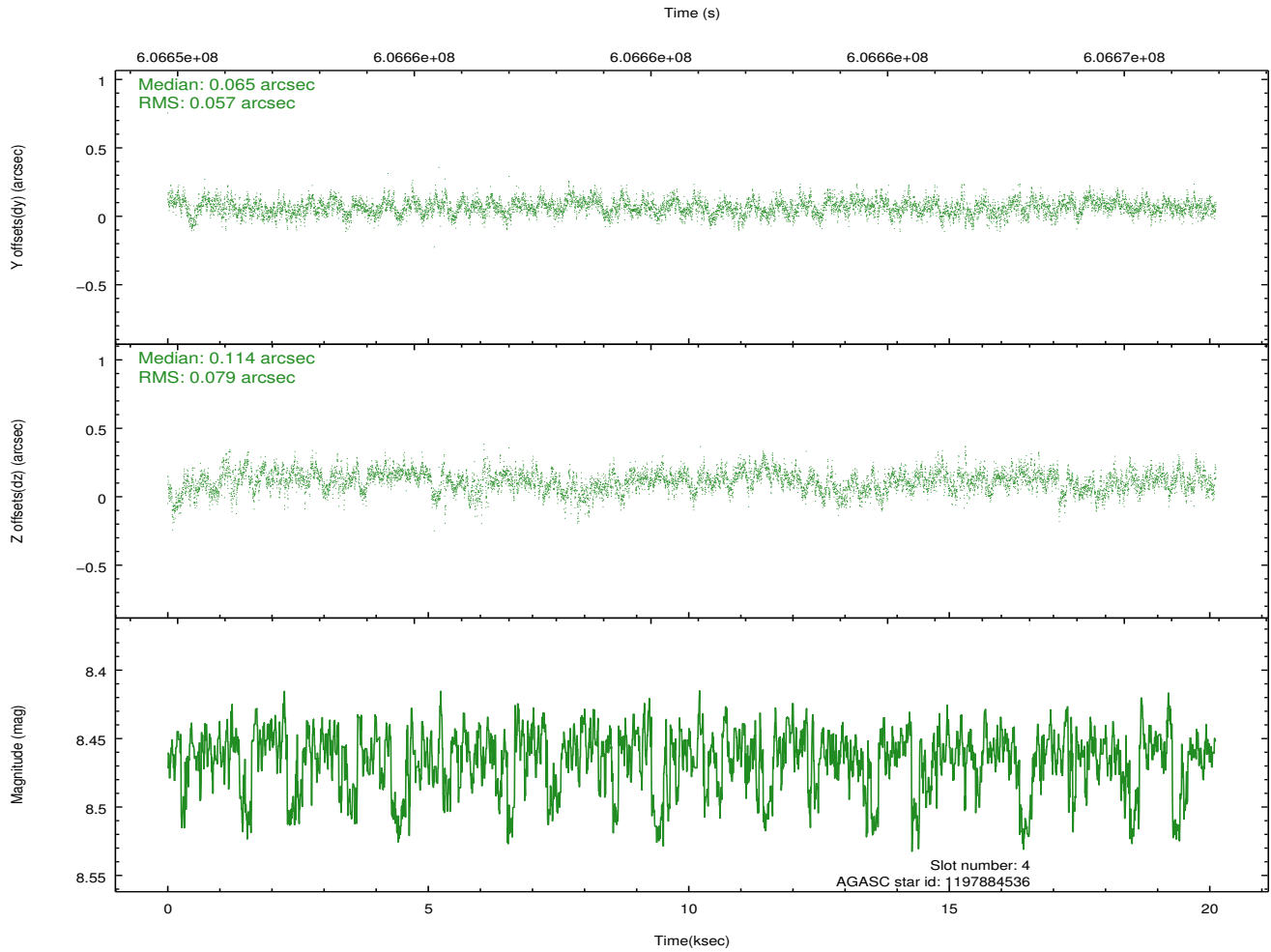
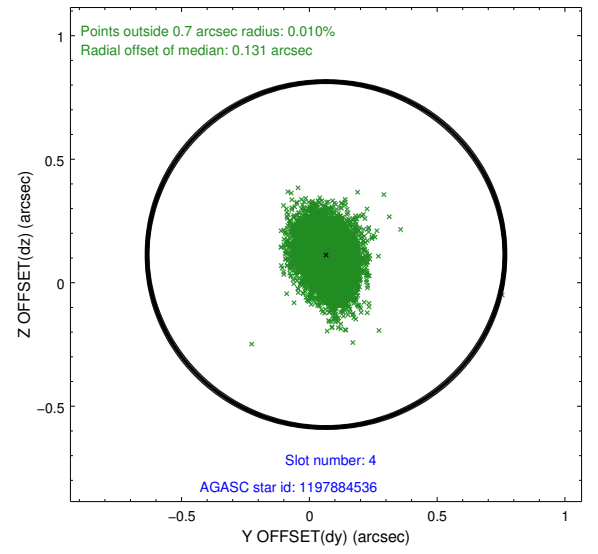
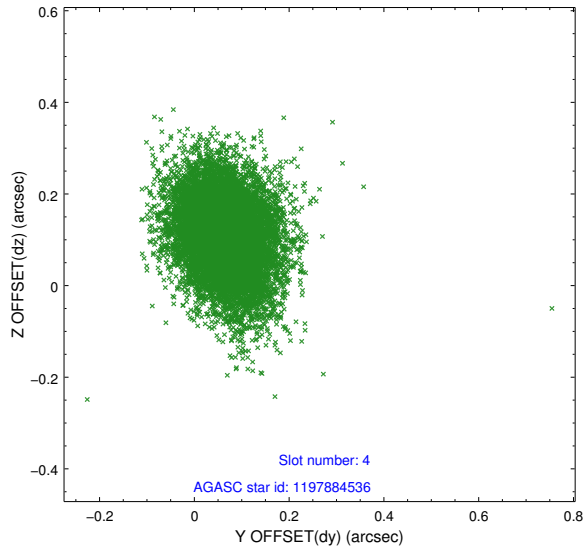
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.00	4906	0.149	0.183	0.012	0.029	0.000000	0.000000	933.40	-1913.34
1	FID		ACIS-S-2	6.89	4907	-0.282	-0.180	0.009	0.023	0.000000	0.000000	-762.83	-1918.52
2	FID		ACIS-S-6	7.22	4907	0.113	0.001	0.010	0.026	0.000000	0.000000	398.88	627.56
3	GUIDE	used	1197750936	7.54	9814	0.019	0.189	0.130	0.213	15.387940	-71.549550	128.82	-1815.47
4	GUIDE	used	1197884536	8.46	9813	0.065	0.114	0.100	0.170	17.160729	-71.835289	-1559.56	-324.63
5	GUIDE	used	1197885104	9.30	9807	0.142	-0.006	0.142	0.238	17.845067	-72.189368	-1951.98	1107.77
6	GUIDE	used	1197885328	7.22	9815	0.174	0.236	0.105	0.174	16.283090	-71.733943	-699.17	-928.48
7	GUIDE	used	1198189696	7.33	9814	-0.407	-0.527	0.124	0.220	15.223750	-72.697522	1260.98	2161.81

2.4 Star Slots

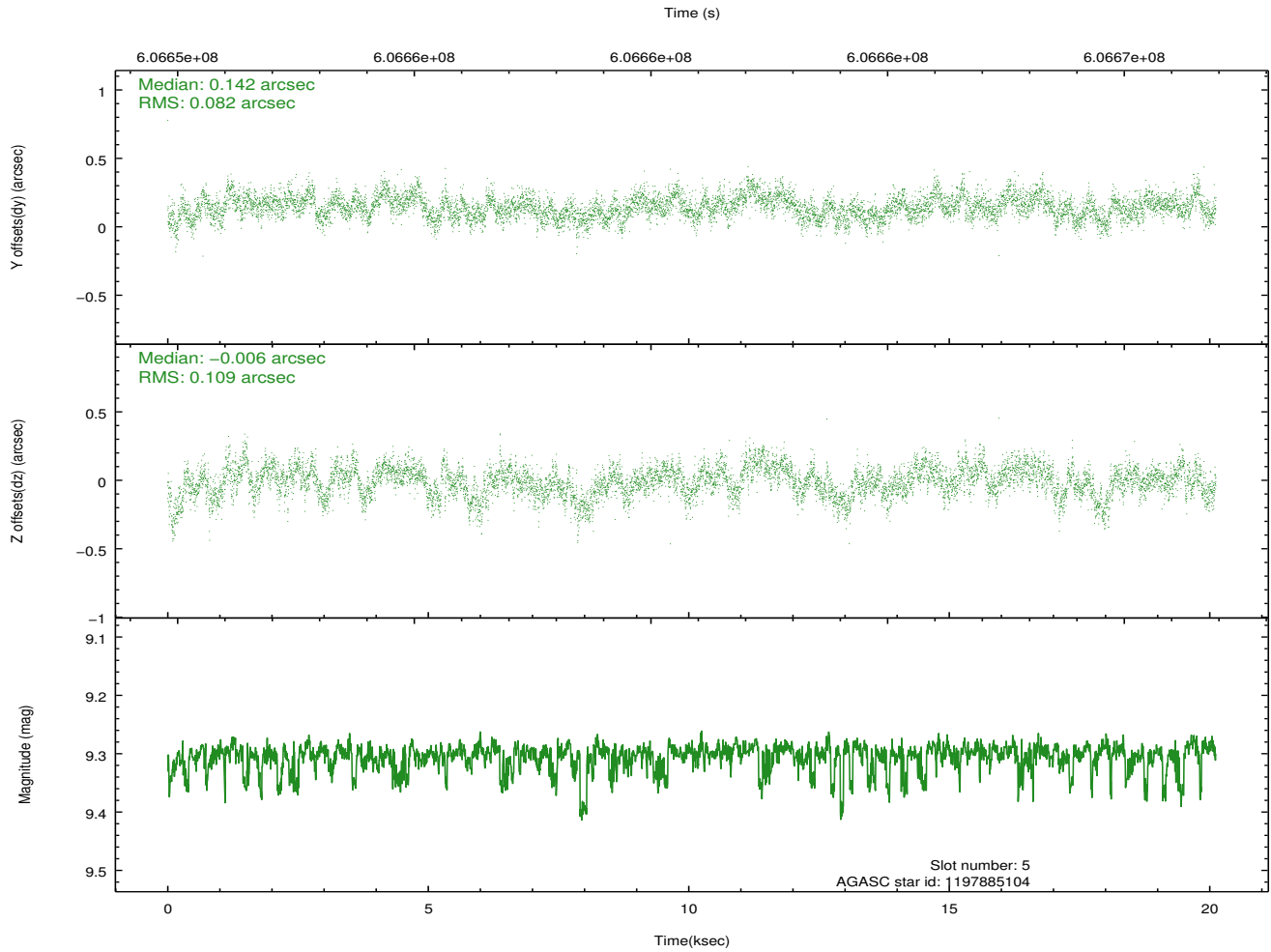
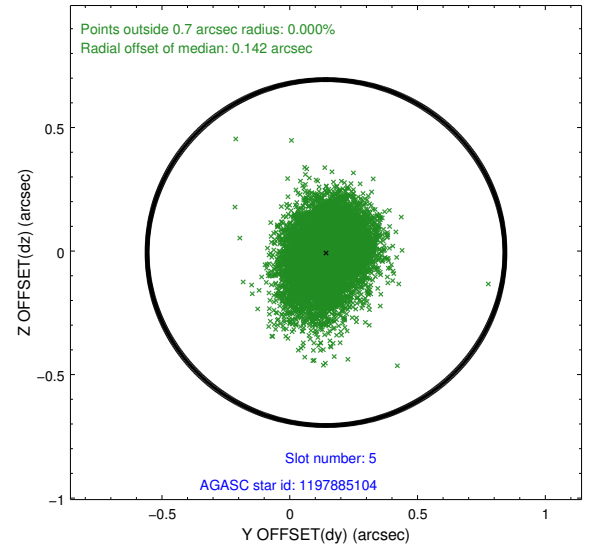
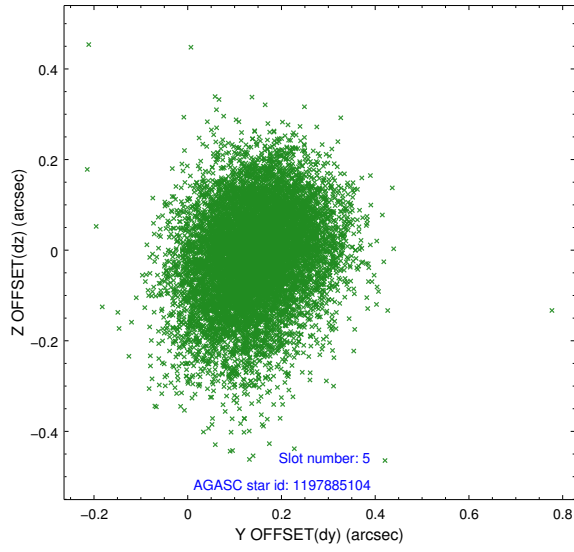
2.4.1 Slot 3



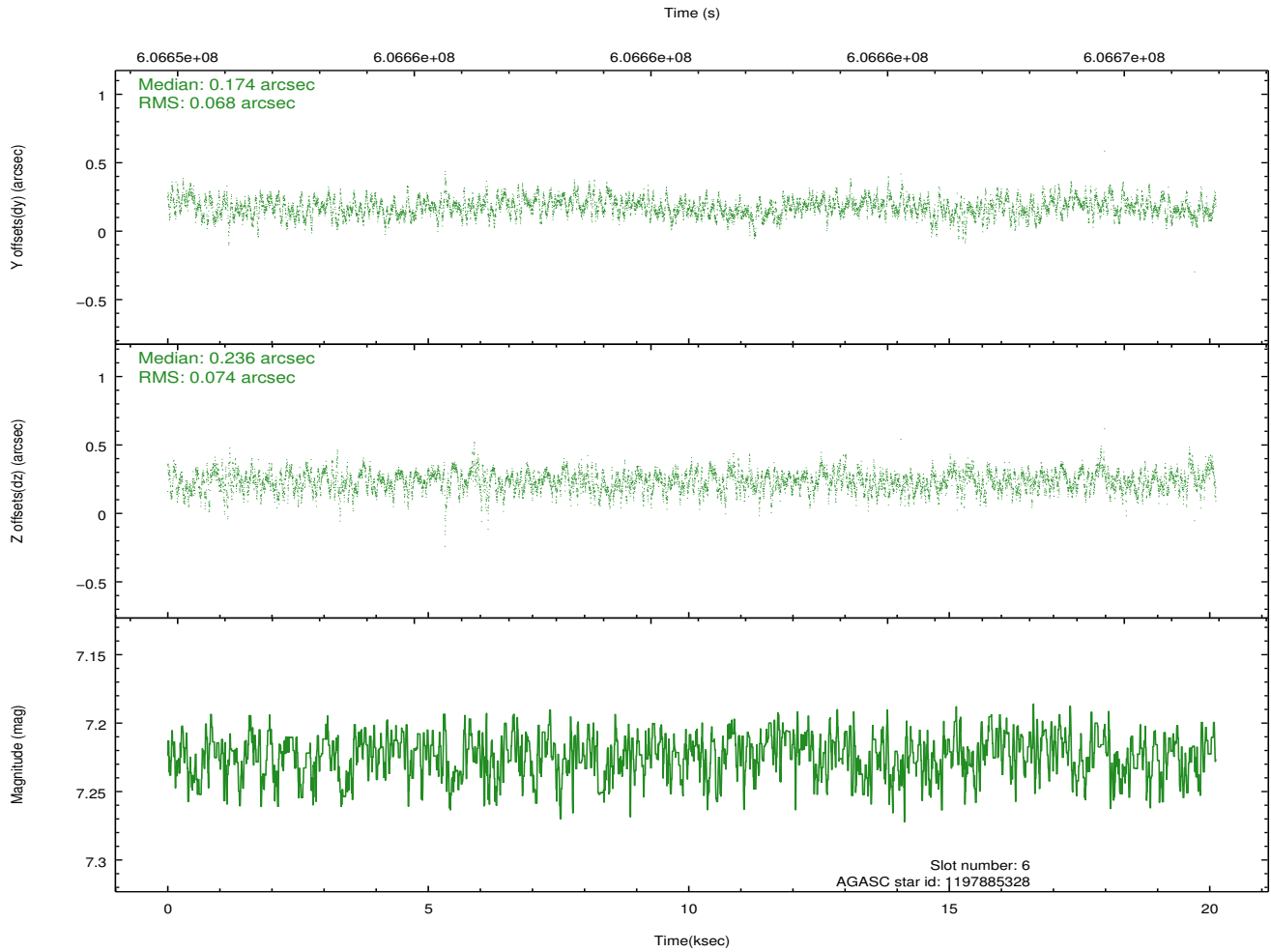
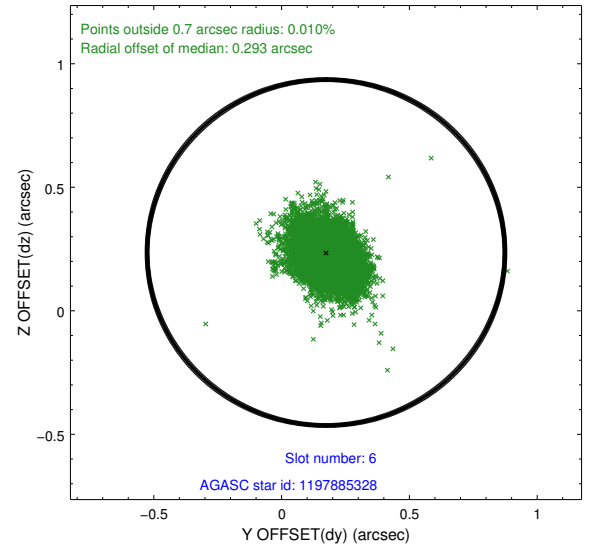
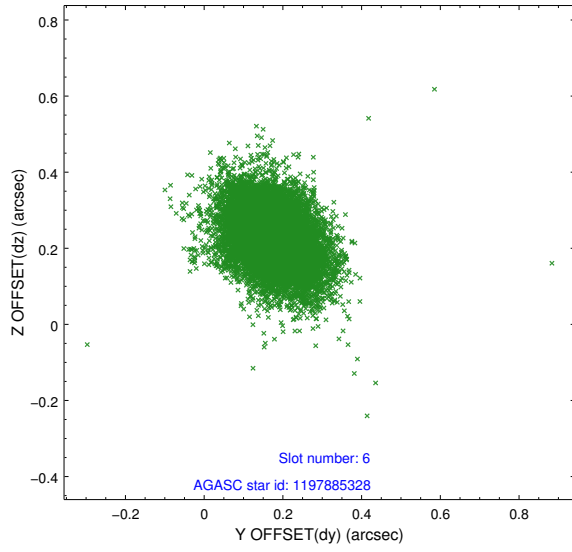
2.4.2 Slot 4



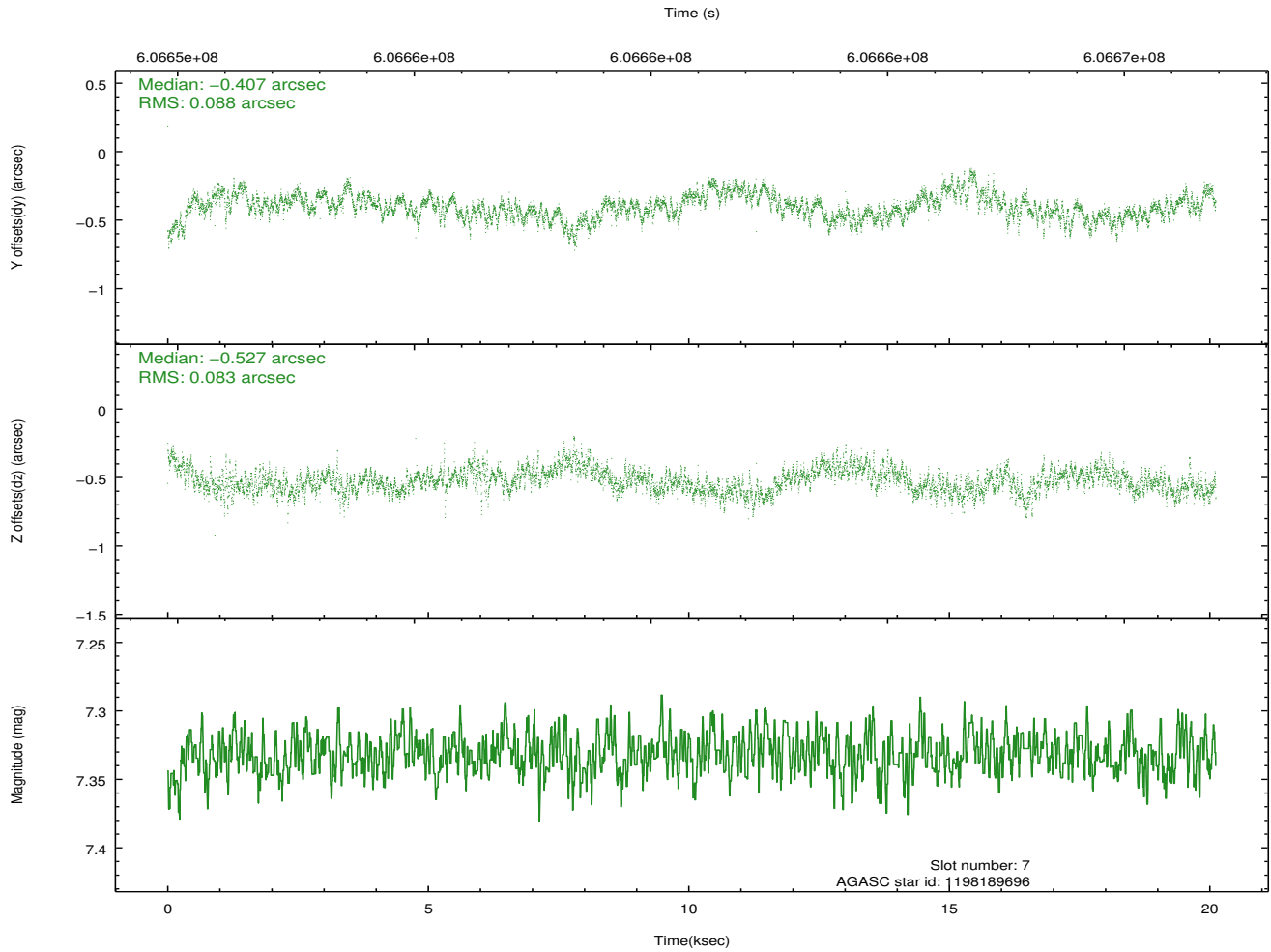
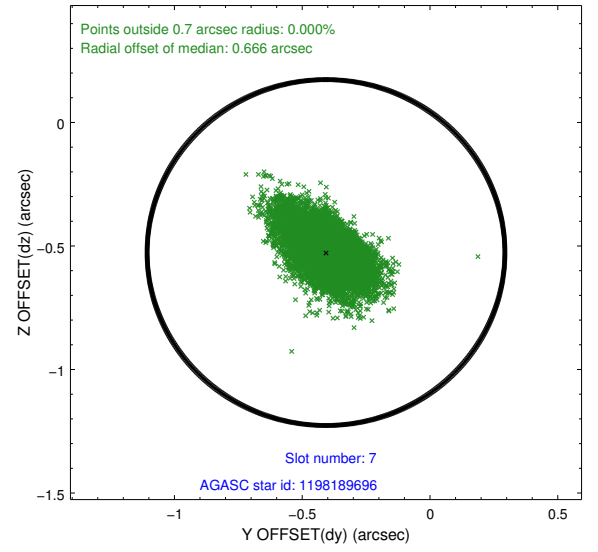
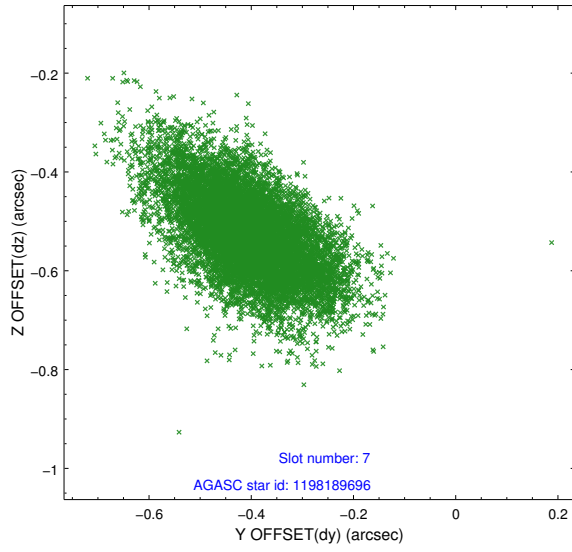
2.4.3 Slot 5



2.4.4 Slot 6

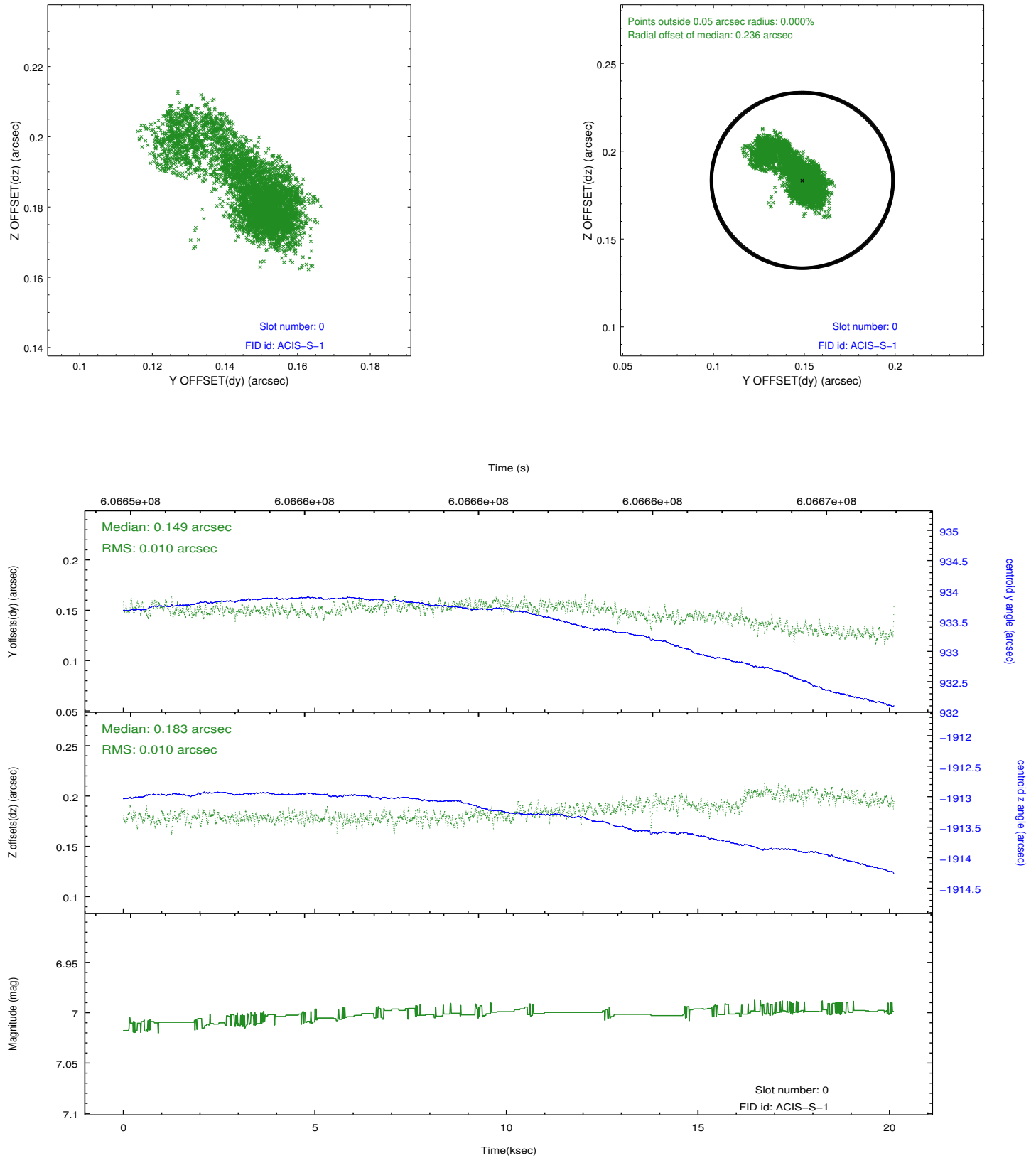


2.4.5 Slot 7

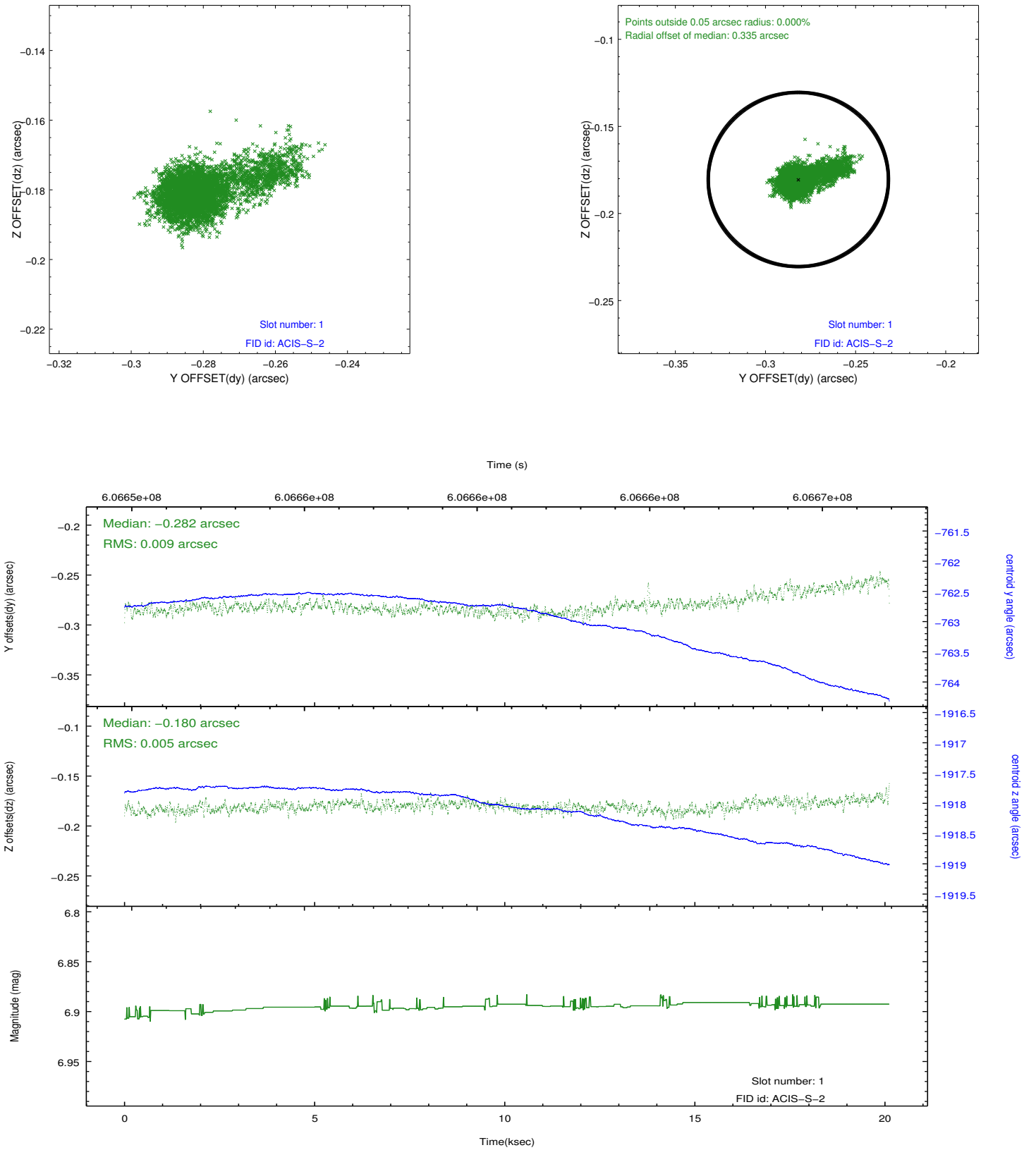


2.5 FID Slots

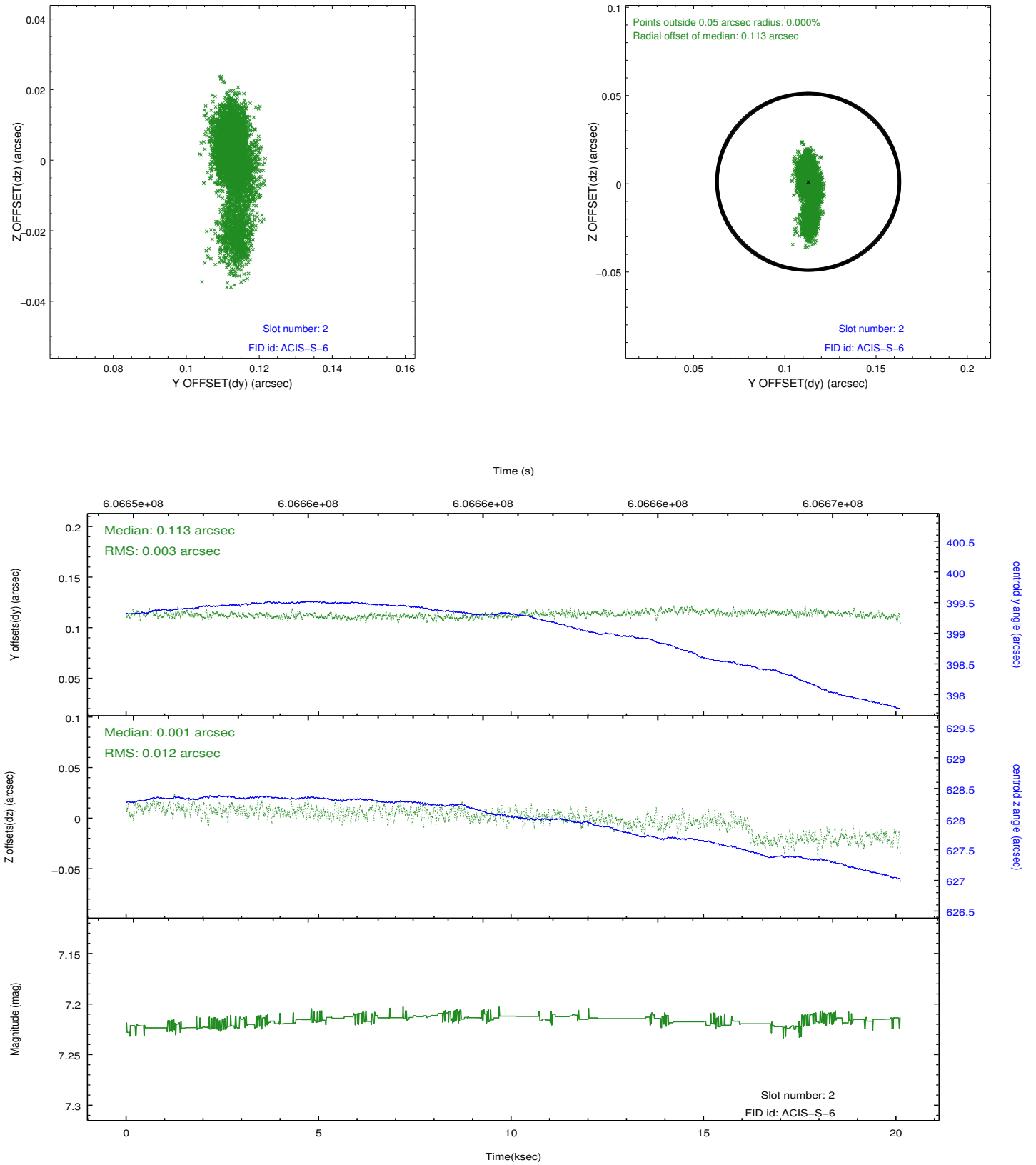
2.5.1 Slot 0



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)	2017.03.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.063998804092

A.2 Comments

Window constraint met.