

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22132 - L2 Version 1
Chandra X-Ray Center

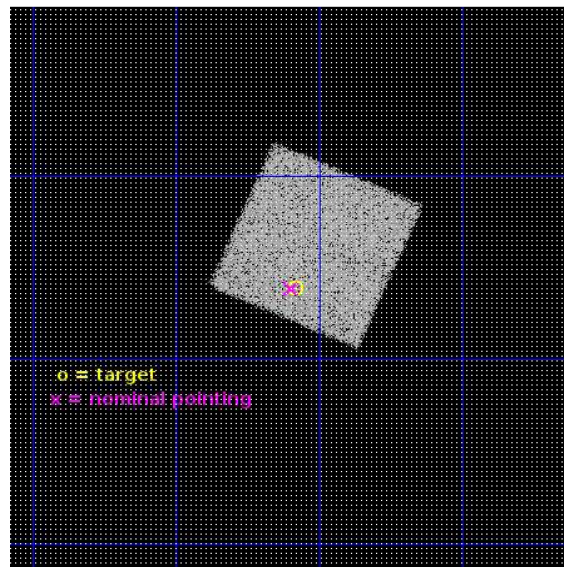
L2 Processing Date : Mar 1 2019

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1 Front

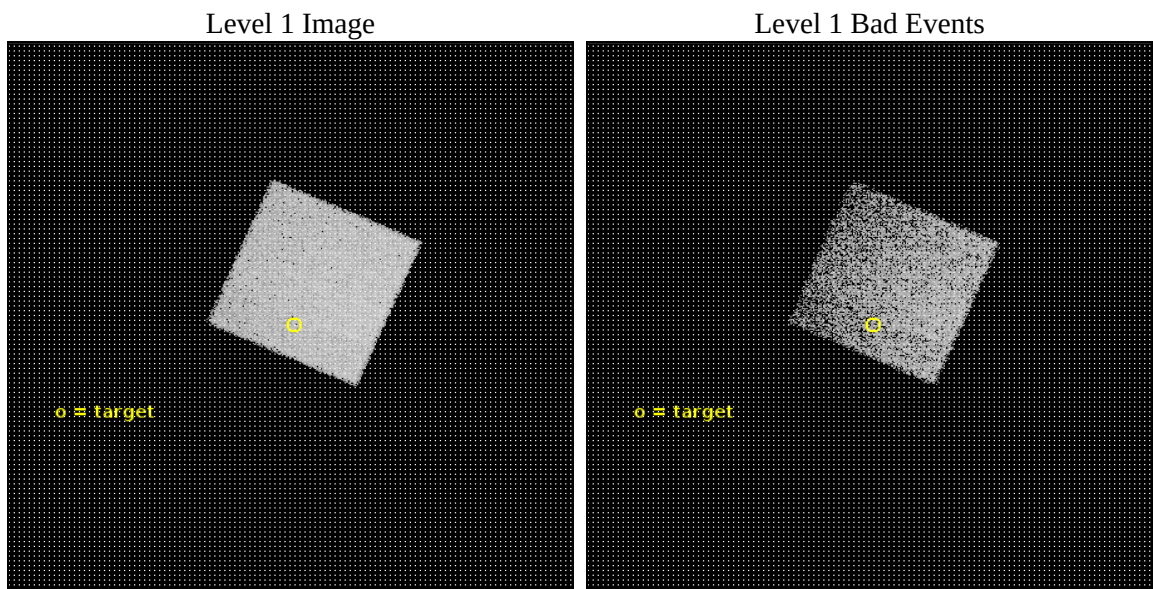
seq_num	703871	Sequence number
obs_id	22132	Observation id
title	Chandra-NuSTAR synergy in the NuSTAR serendipitous survey	Proposal
observer	Dr David Alexander	Principal investigator
object	IC0588_s3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.394836	Observer's specified target RA [deg]
dec_targ	3.064939	Observer's specified target Dec [deg]
ra_nom	150.39916712862	Nominal RA [deg]
dec_nom	3.0643588699226	Nominal Dec [deg]
roll_nom	293.47423560511	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10092.0	Sum of GTIs [s]
livetime	9955.8045931655	Livetime [s]
ontime7	10092.0	Sum of GTIs [s]
l2events	40903	Number of level 2 events



2 OBI

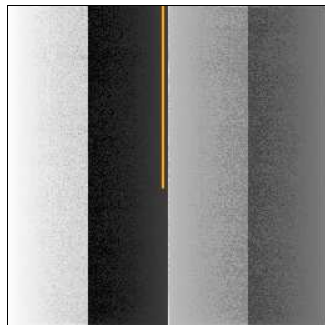
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	10092.0	Sum of GTIs [s]
caldbver	4.8.2	 	ontime7	10092.0	Sum of GTIs [s]
date	2019-03-01T22:27:09	Date and time of file creation	l1events	95680	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

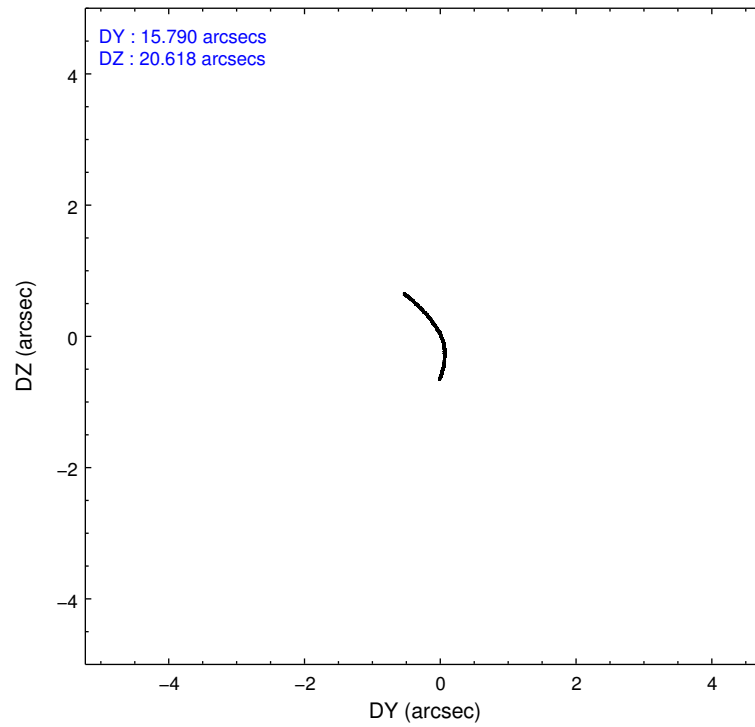
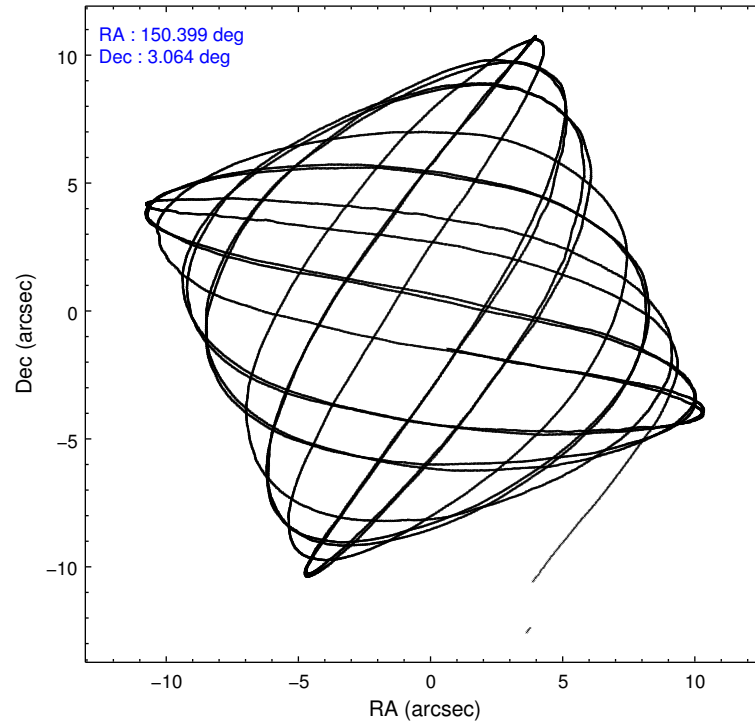
	ccd 7
level 1 events	95680
rejected events	53725
rejected %	56%

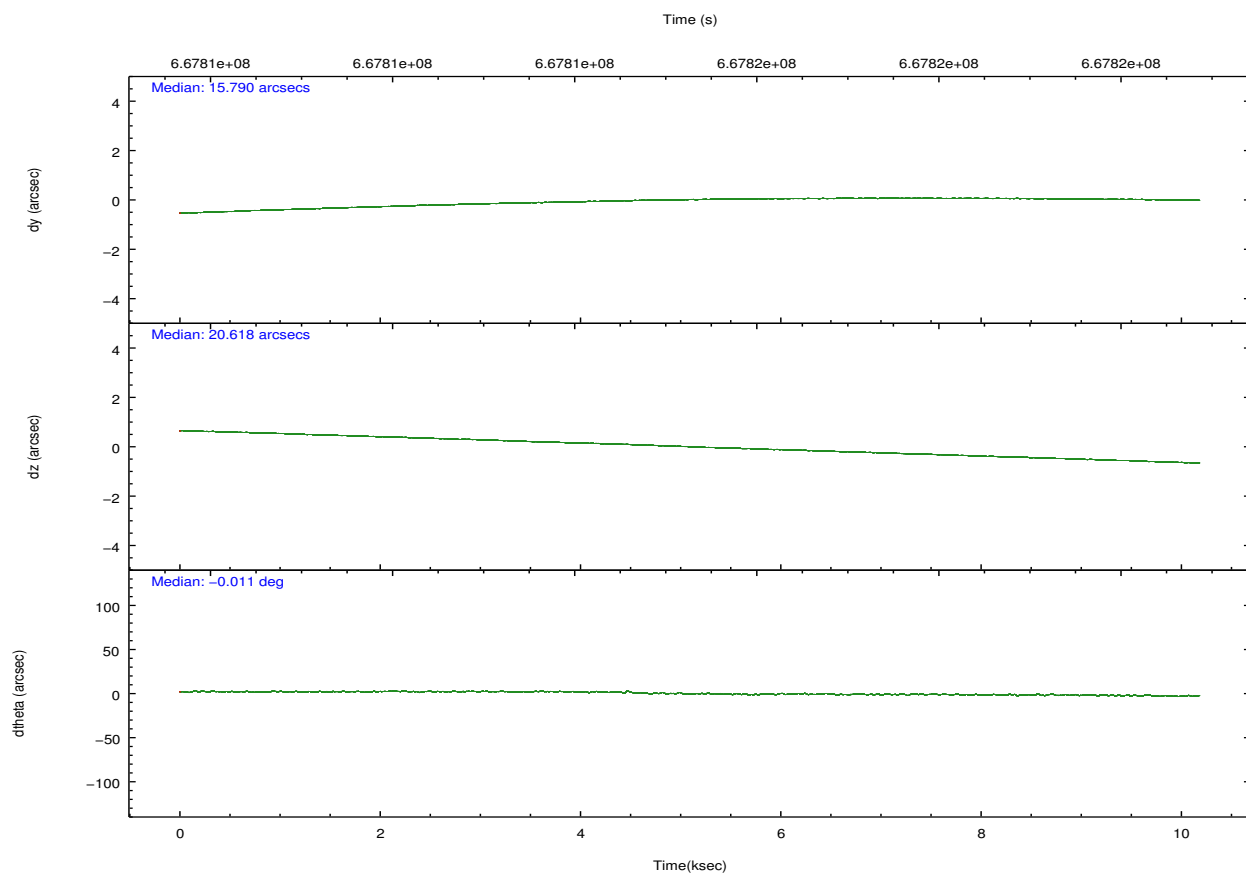
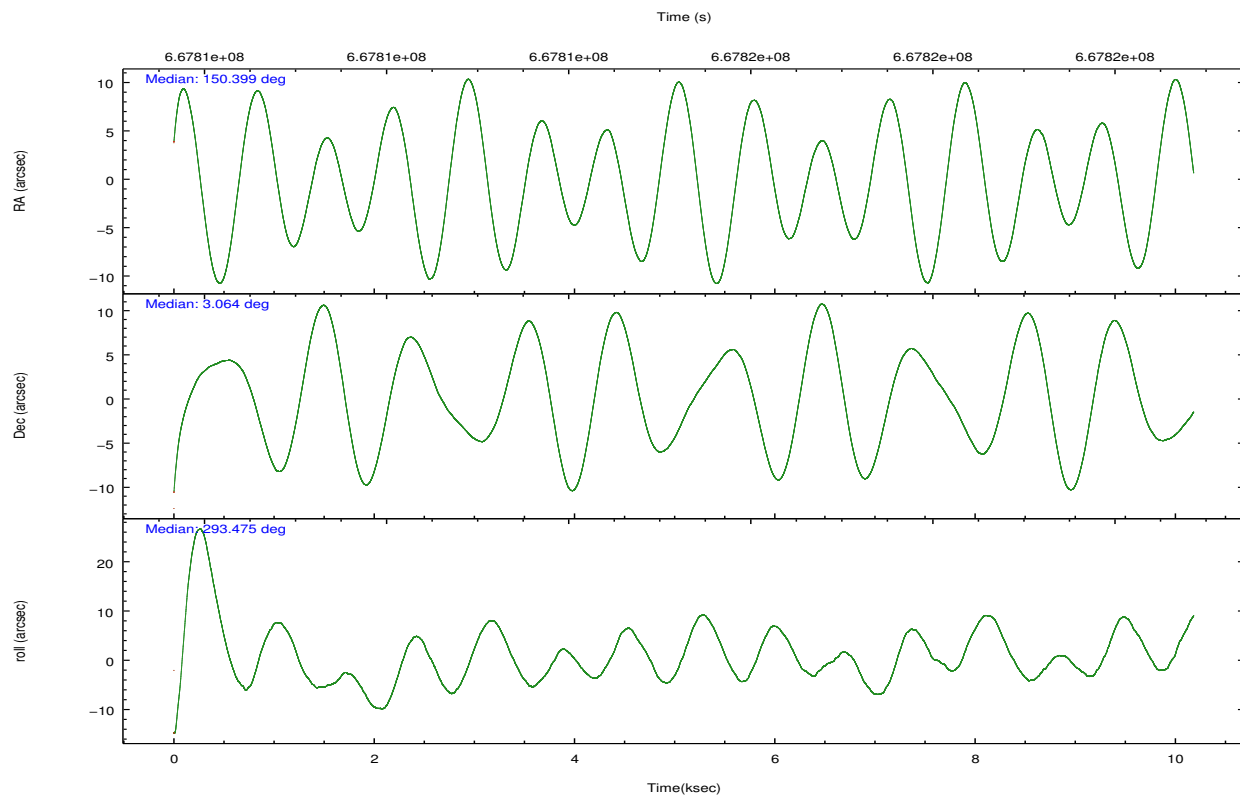
	ccd 7
grade 0 events	3532
	3%
grade 1 events	140
	0%
grade 2 events	9191
	9%
grade 3 events	3209
	3%
grade 4 events	3122
	3%
grade 5 events	9457
	9%
grade 6 events	22912
	23%
grade 7 events	44117
	46%

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	150.376805	150.3991671286165	Subarray requested	NONE	NONE
[deg] Pointing Dec	3.080410	3.064358869922628	Alternating exposures requested	N	N
[deg] Pointing Roll	293.318860	293.4742356051061	[s] Primary exposure time	0.000000	3
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	667810331.184000	667809407.64308			
Observation start date	2019-03-01T06:51:02	2019-03-01T06:36:47			
[s] Observation end time (MET)	667820331.184000	667820464.8312401			
Observation end date	2019-03-01T09:37:42	2019-03-01T09:41:04			
Read mode	TIMED	TIMED			

2.3 Aspect



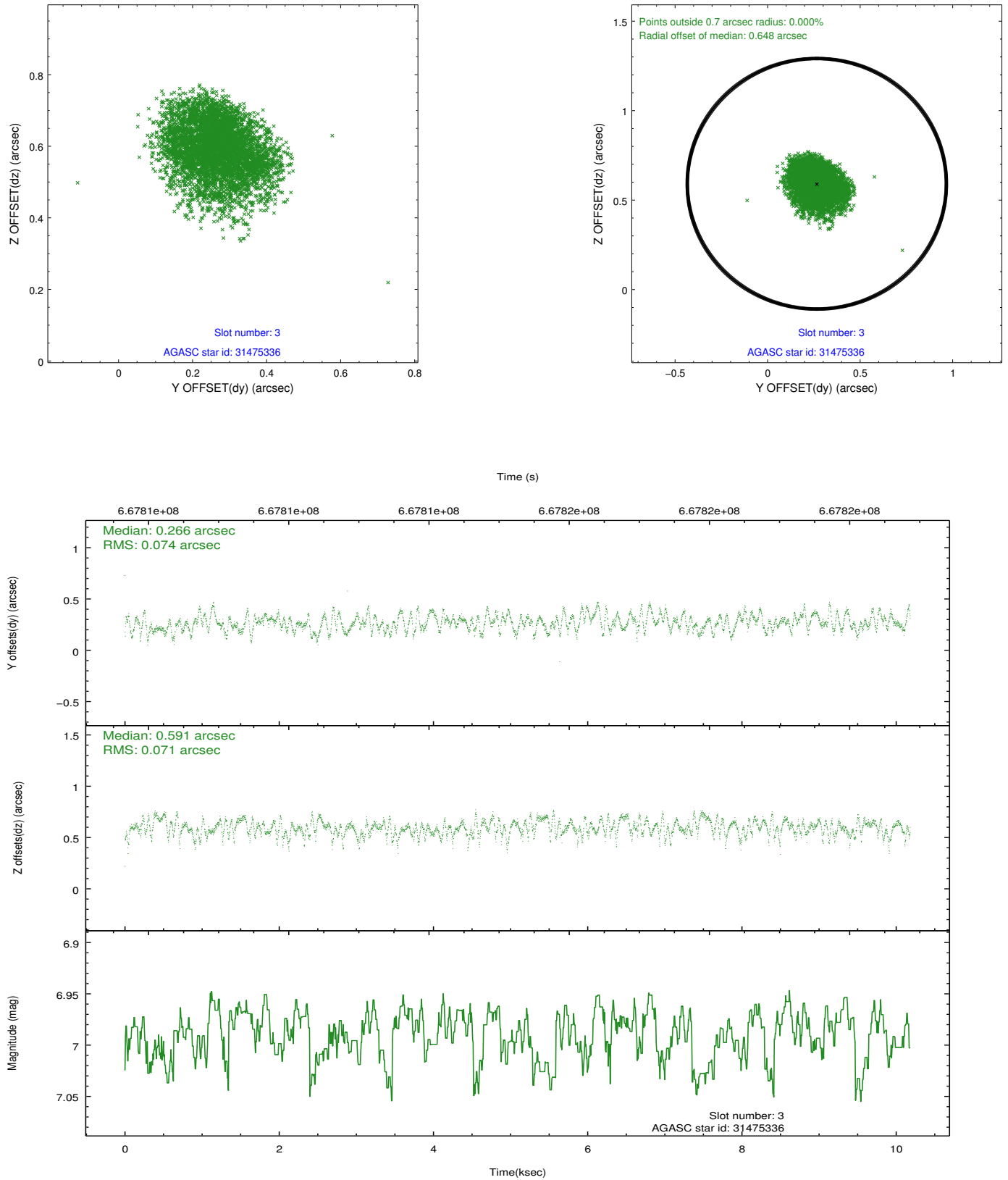


Slot Statistics

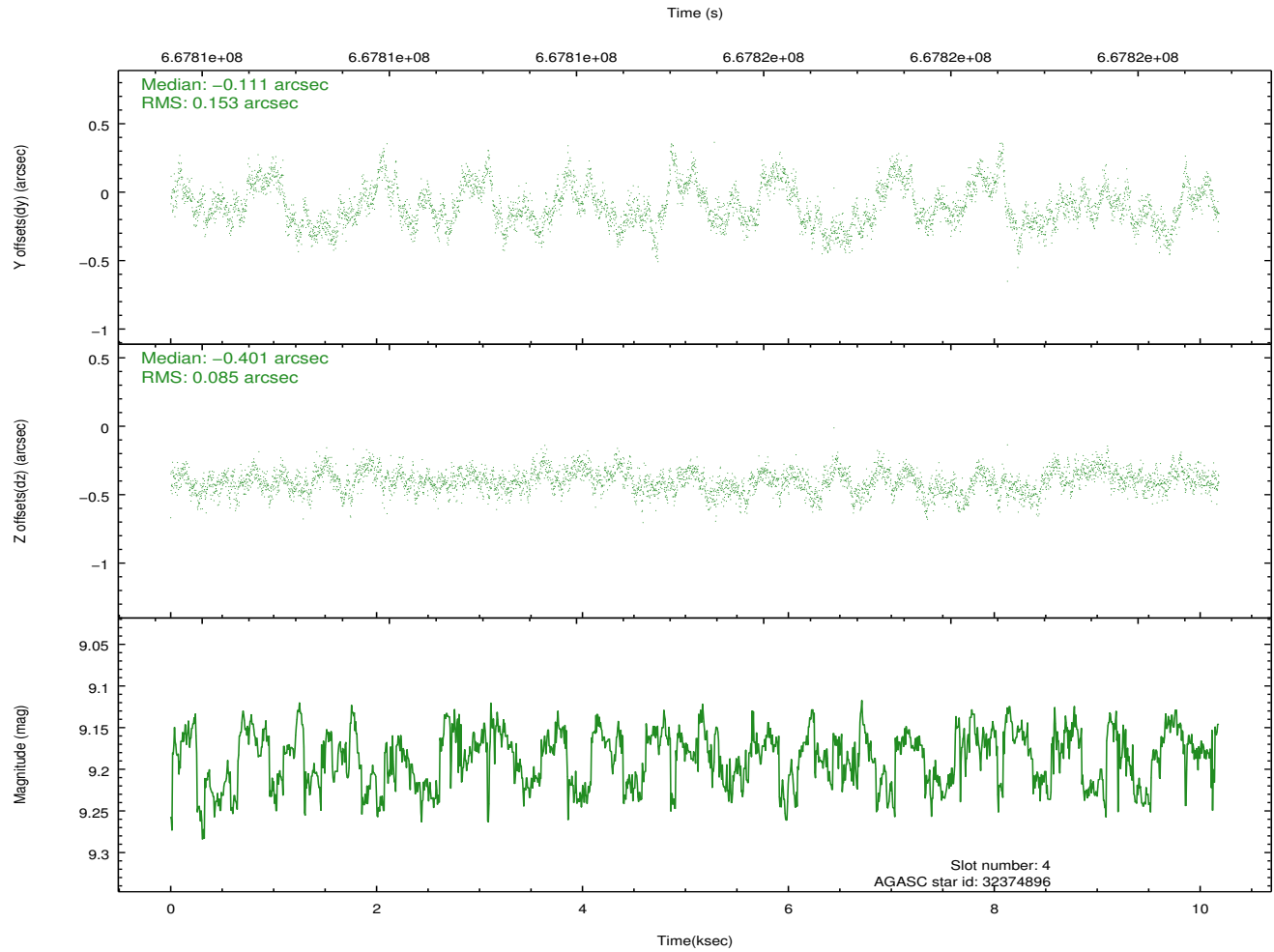
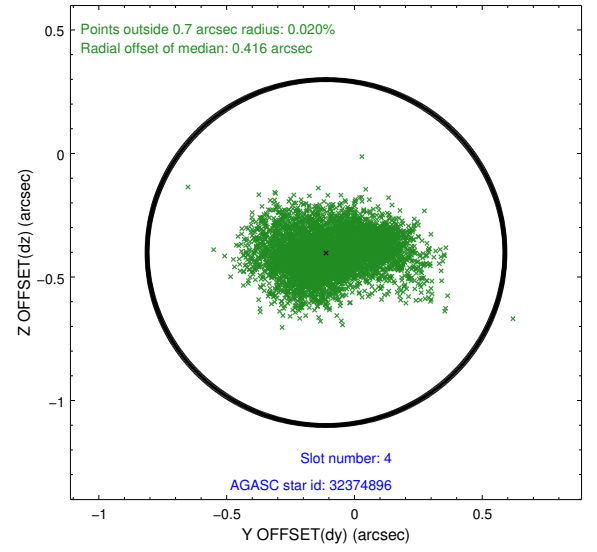
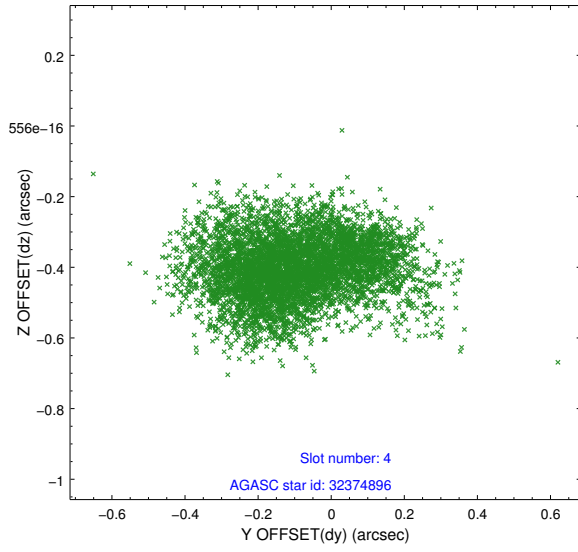
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.10	2484	1.000	0.372	-0.084	0.007	0.012	0.000000	0.000000	927.89	-1737
1	FID		ACIS-S-2	7.01	2484	1.000	-0.228	-0.059	0.008	0.013	0.000000	0.000000	-768.33	-1742
2	FID		ACIS-S-5	7.10	2484	1.000	-0.168	0.149	0.008	0.014	0.000000	0.000000	-1822.22	159
3	GUIDE	used	31475336	6.99	4967	1.000	0.266	0.591	0.113	0.173	149.929497	3.384805	-1643.45	-1042
4	GUIDE	used	32374896	9.18	4954	1.000	-0.111	-0.401	0.185	0.303	150.682269	2.512794	2311.42	199
5	GUIDE	used	32377944	8.91	4958	1.000	-0.061	-0.061	0.143	0.250	150.678517	3.670134	-1519.67	1835
6	GUIDE	used	32387968	9.18	4959	1.000	0.531	0.391	0.204	0.335	150.106347	3.119099	-512.59	-836
7	GUIDE	used	32388536	6.66	4967	1.000	-0.613	-0.525	0.135	0.207	151.035133	3.201055	537.76	2342

2.4 Star Slots

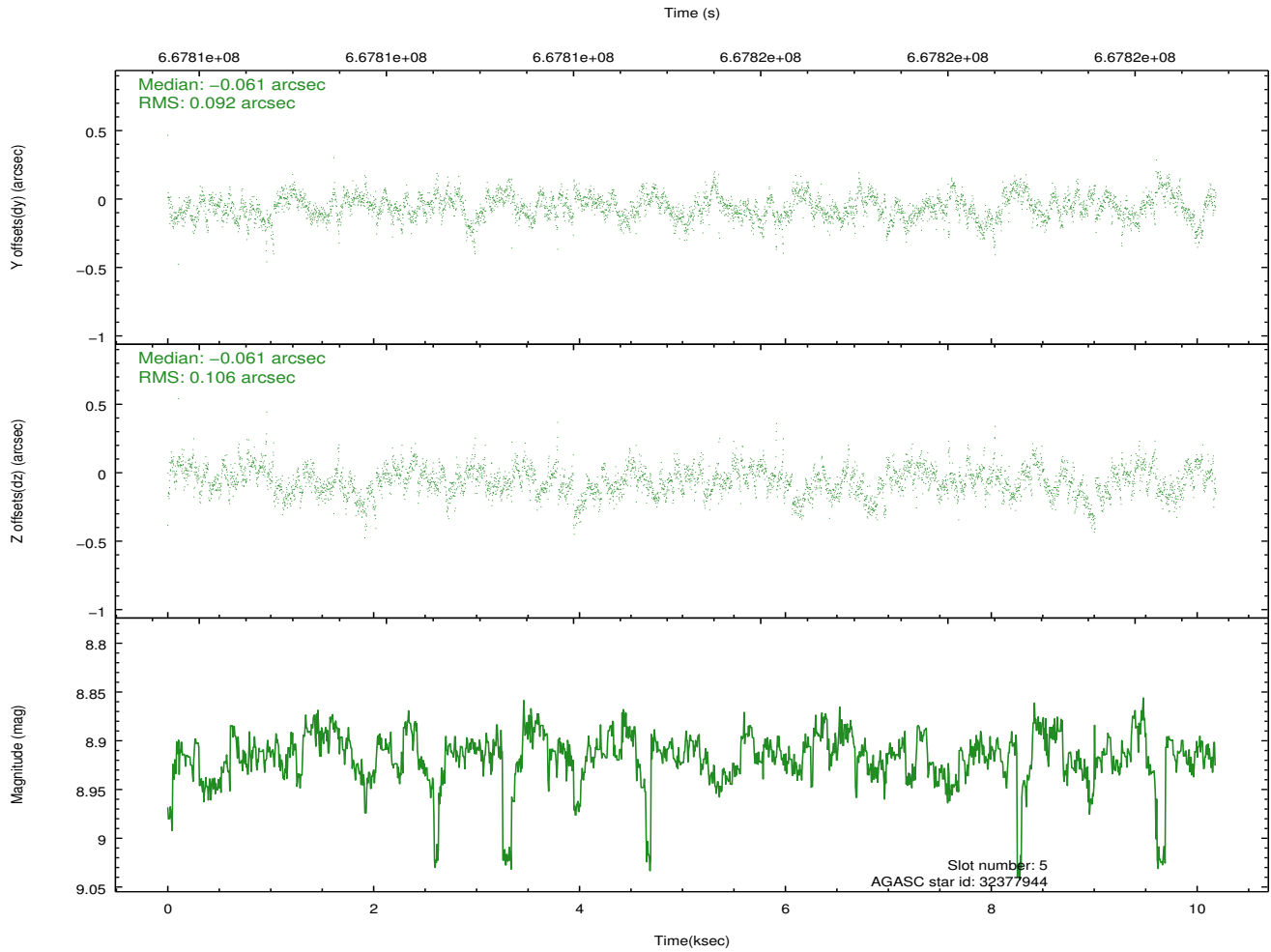
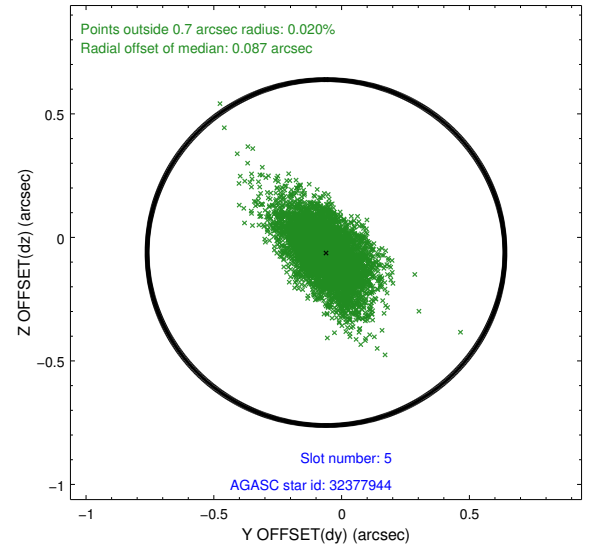
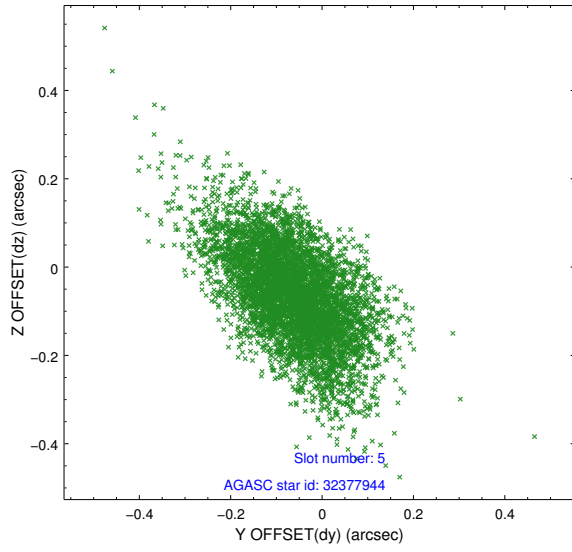
2.4.1 Slot 3



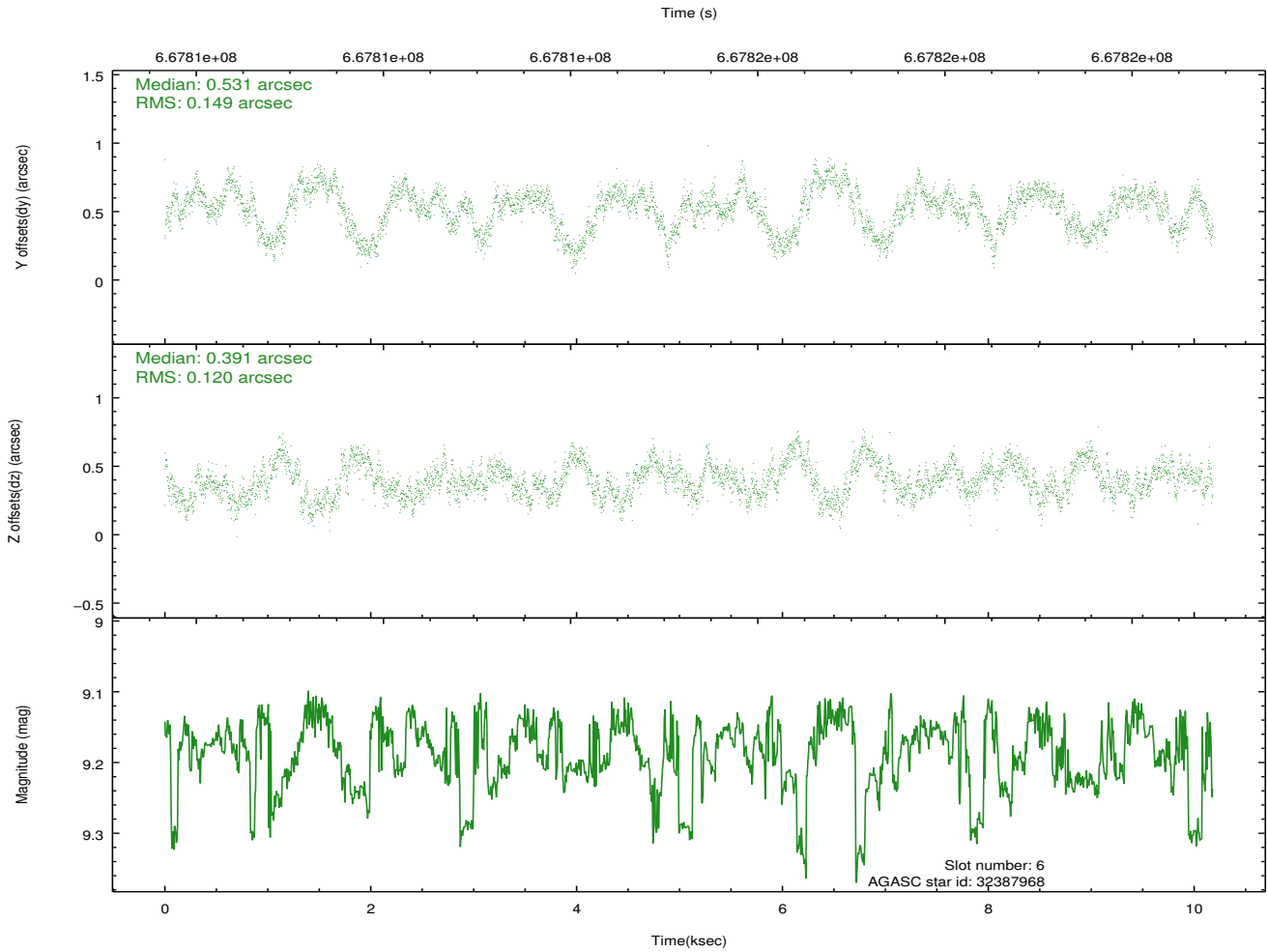
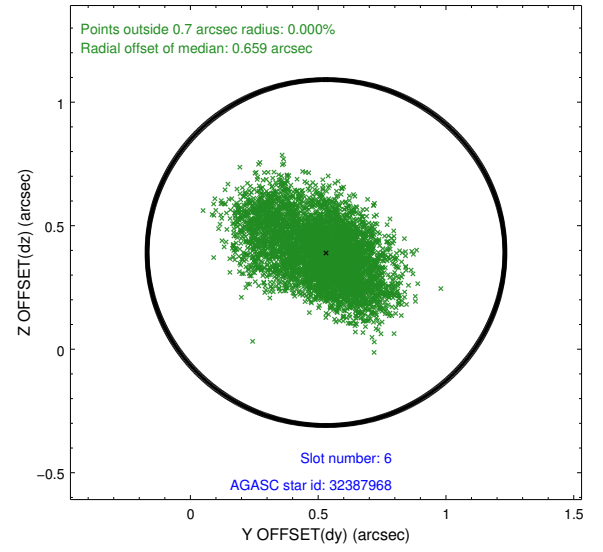
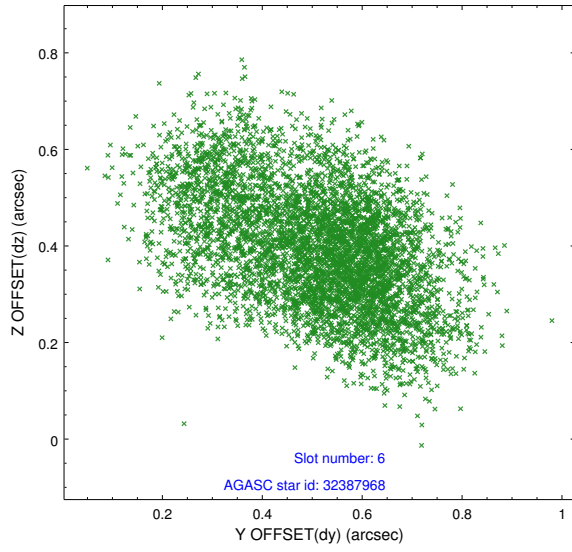
2.4.2 Slot 4



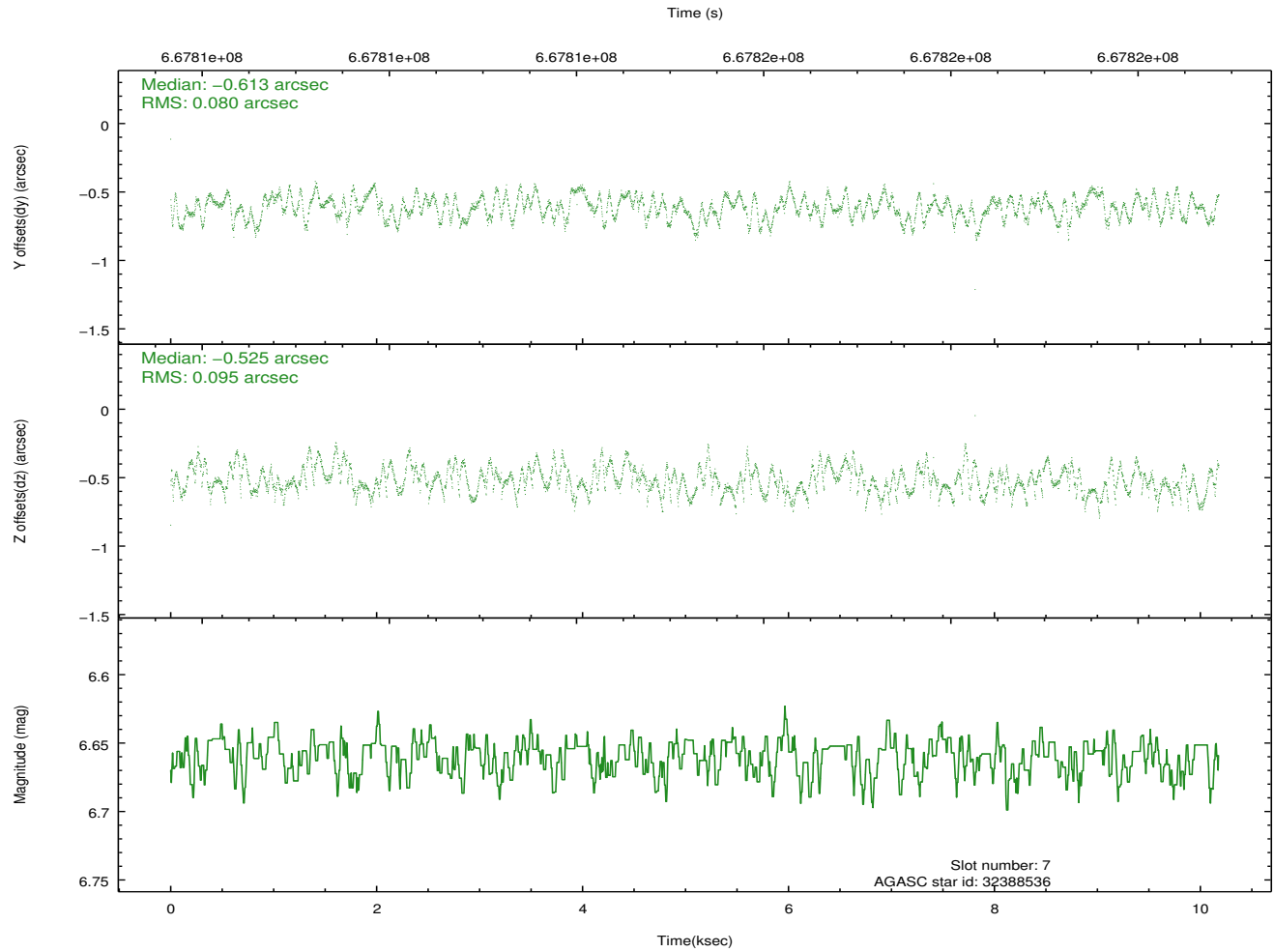
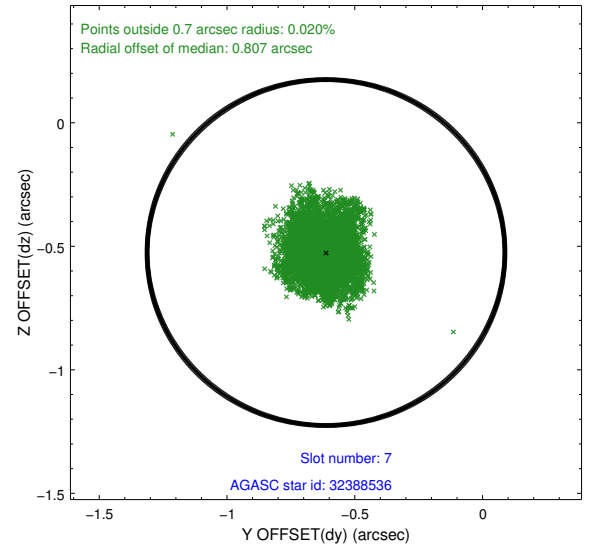
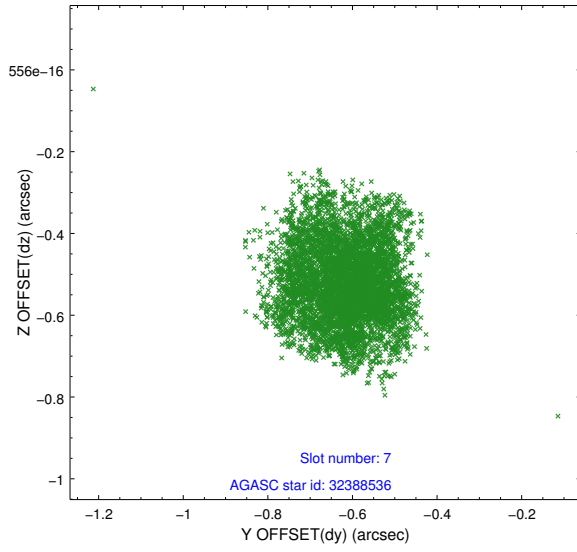
2.4.3 Slot 5



2.4.4 Slot 6

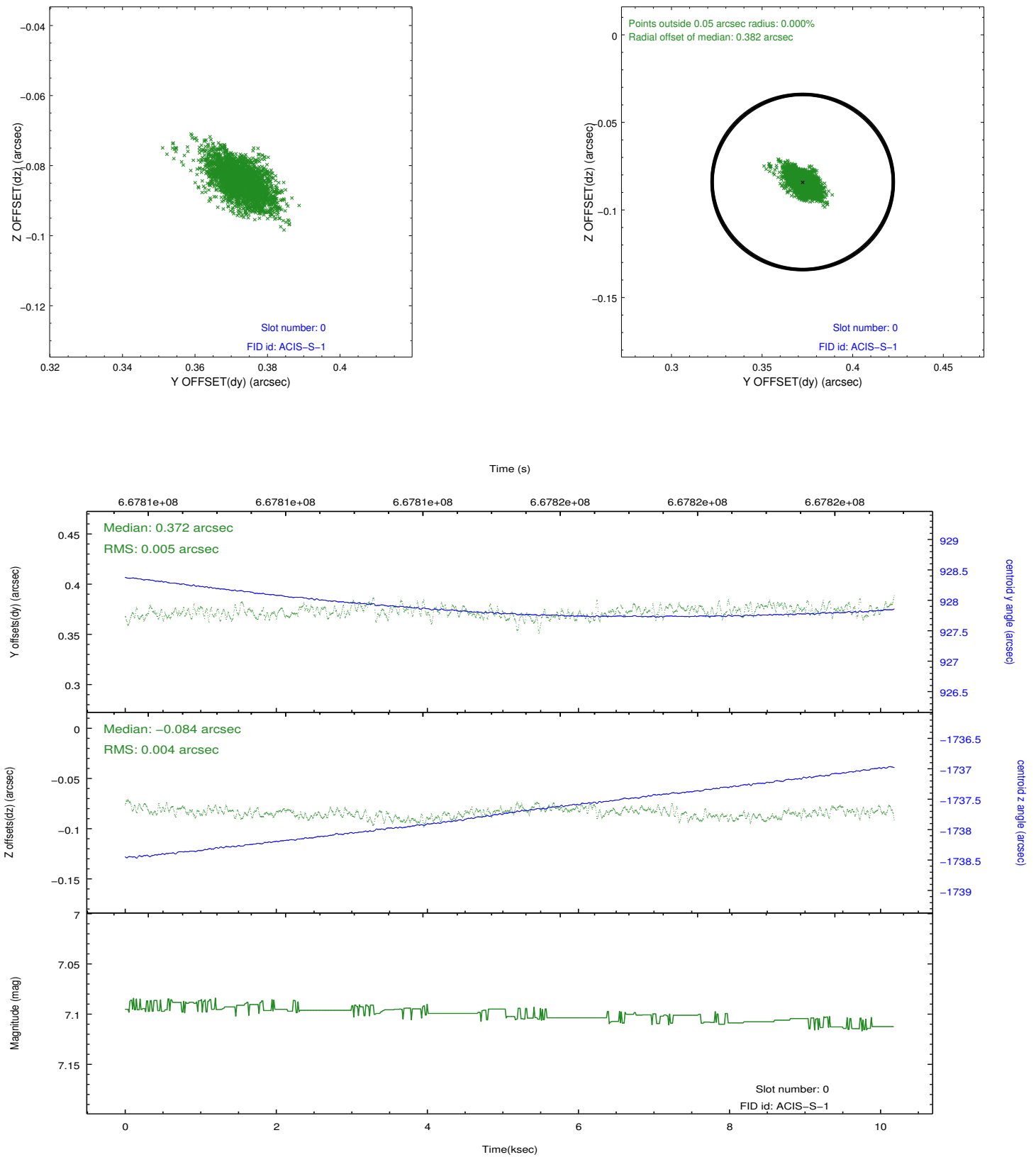


2.4.5 Slot 7

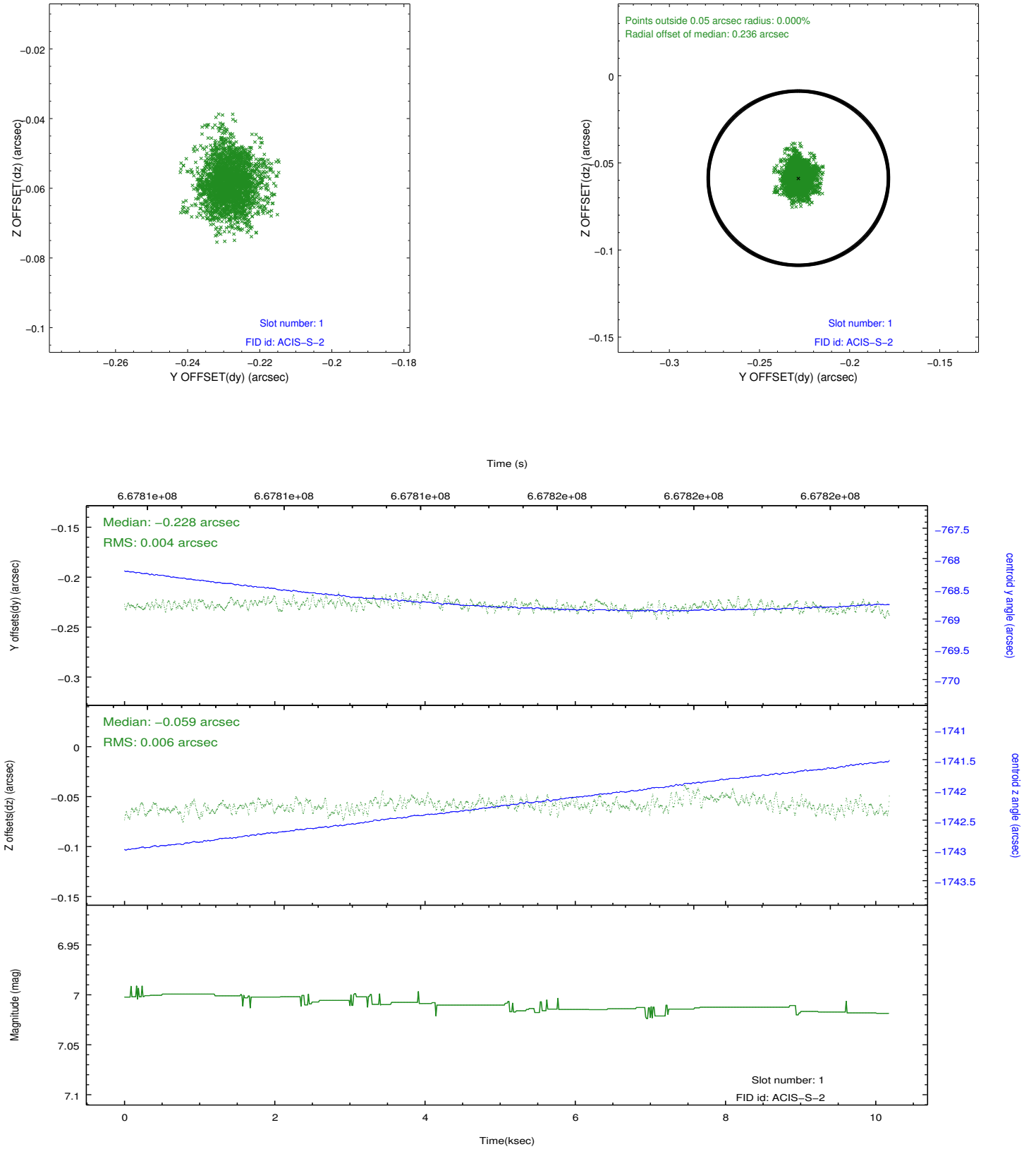


2.5 FID Slots

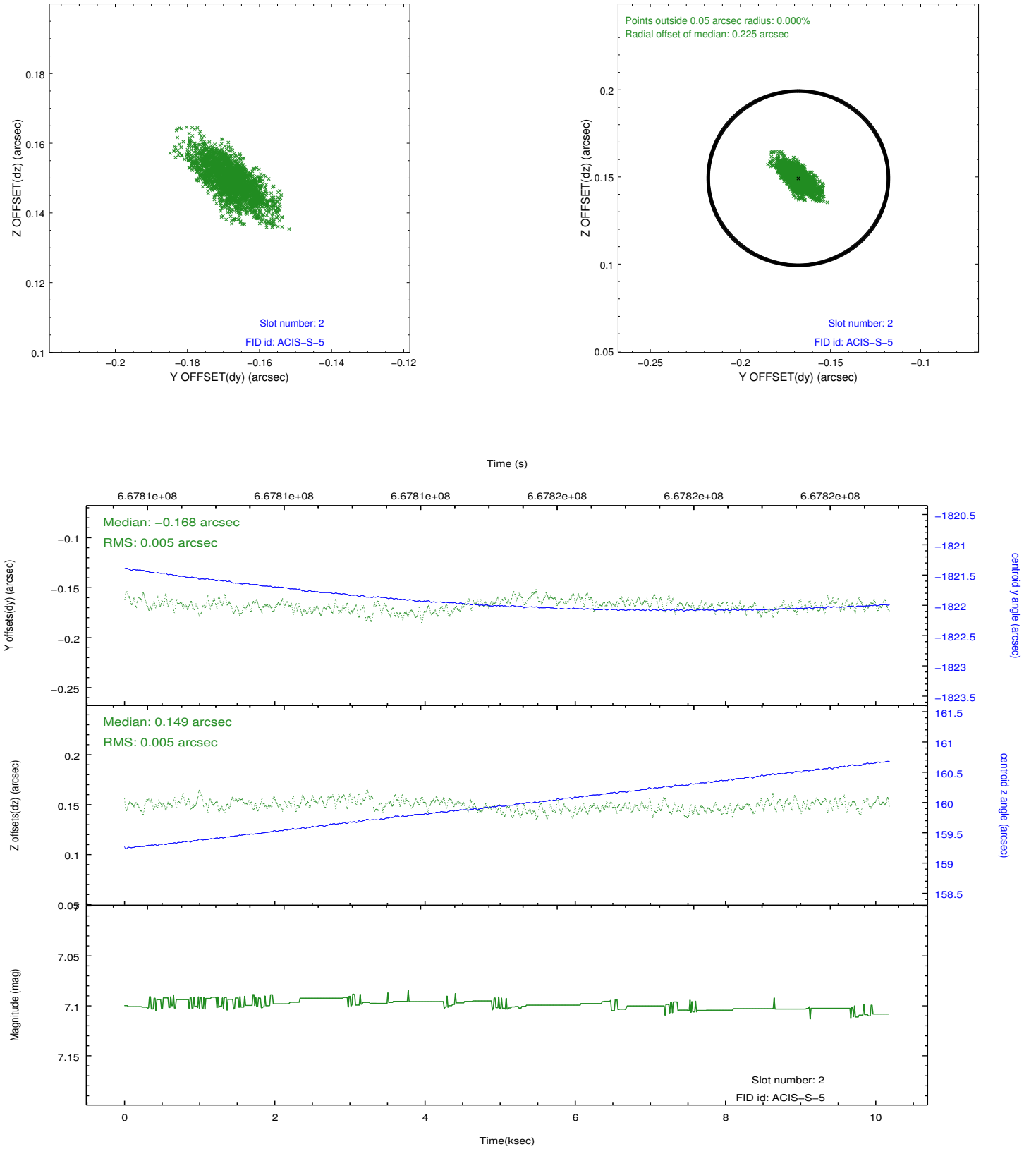
2.5.1 Slot 0



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)	2019.03.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.092

A.2 Comments