

V&V Reference Report

L2 ASCDS Version : 10.8.4

Observation 23285 - L2 Version 1
Chandra X-Ray Center

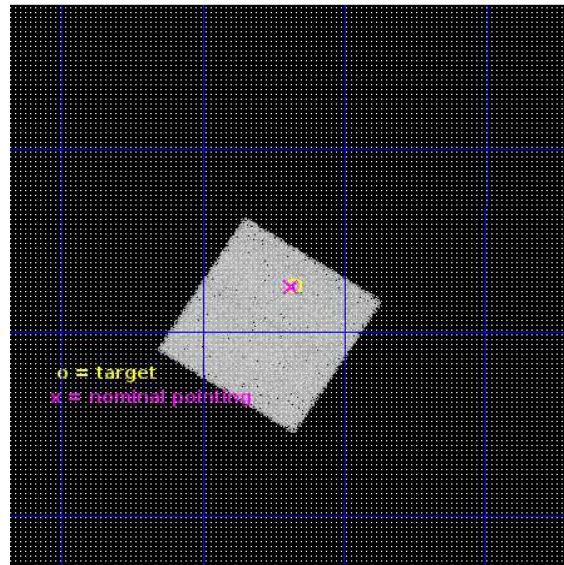
L2 Processing Date : Jun 30 2020

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1 Front

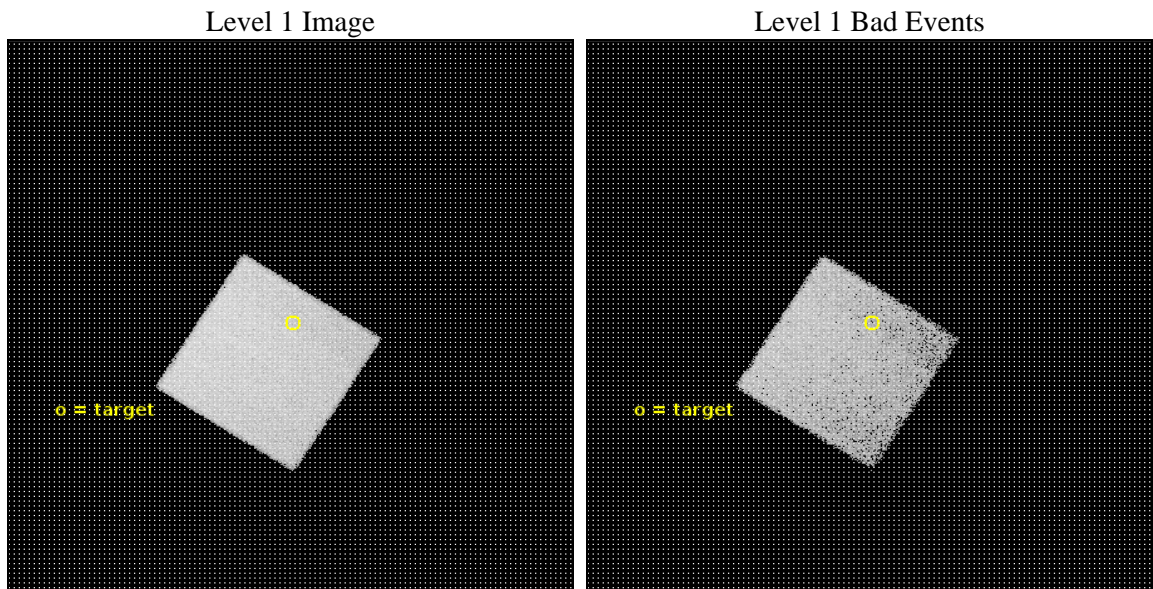
seq_num	503205	Sequence number
obs_id	23285	Observation id
title	Unpicking the threads of a rare collapsar explosion	Proposal title
observer	Eleonora Troja	Principal investigator
object	GRB 190829A	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	44.544083	Observer's specified target RA [deg]
dec_targ	-8.958283	Observer's specified target Dec [deg]
ra_nom	44.5464956931	Nominal RA [deg]
dec_nom	-8.95861690981	Nominal Dec [deg]
roll_nom	122.400032673	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19962.0	Sum of GTIs [s]
livetime	19692.605161392	Livetime [s]
ontime7	19962.0	Sum of GTIs [s]
l2events	84509	Number of level 2 events



2 OBI

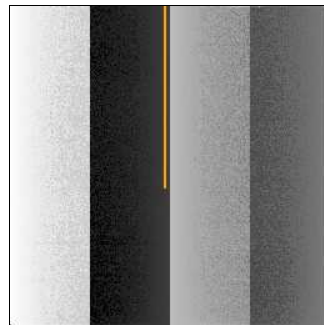
2.1 OBI

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	10.8.4	Processing system revision	ontime	19962.0	Sum of GTIs [s]
caldbver	4.9.1	 	ontime7	19962.0	Sum of GTIs [s]
date	2020-06-30T17:41:41	Date and time of file creation	l1events	199593	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

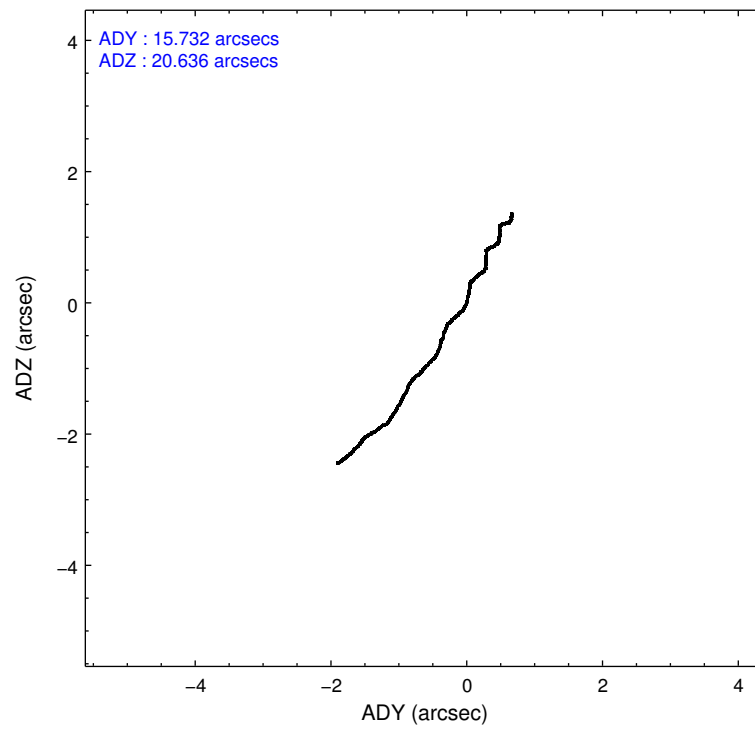
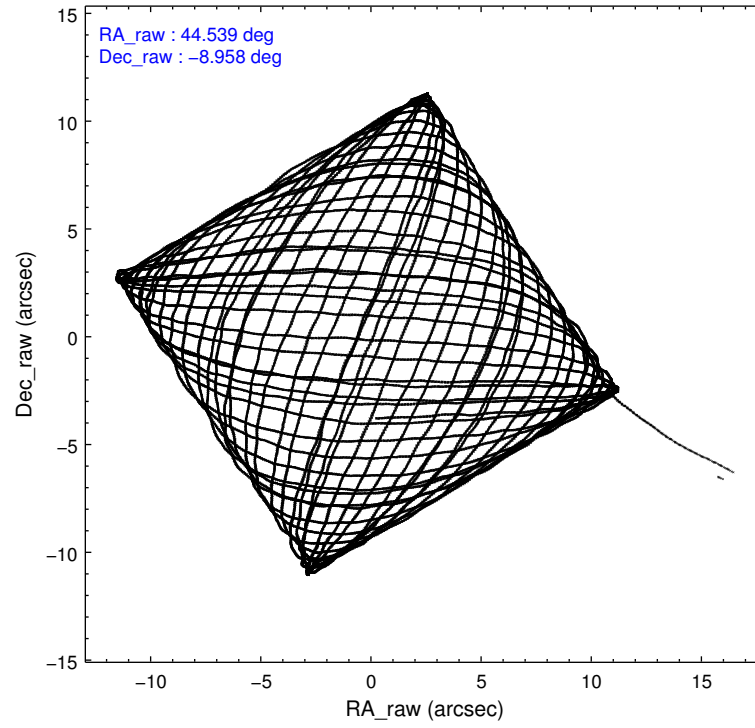
	ccd 7
level 1 events	199593
rejected events	112386
rejected %	56%

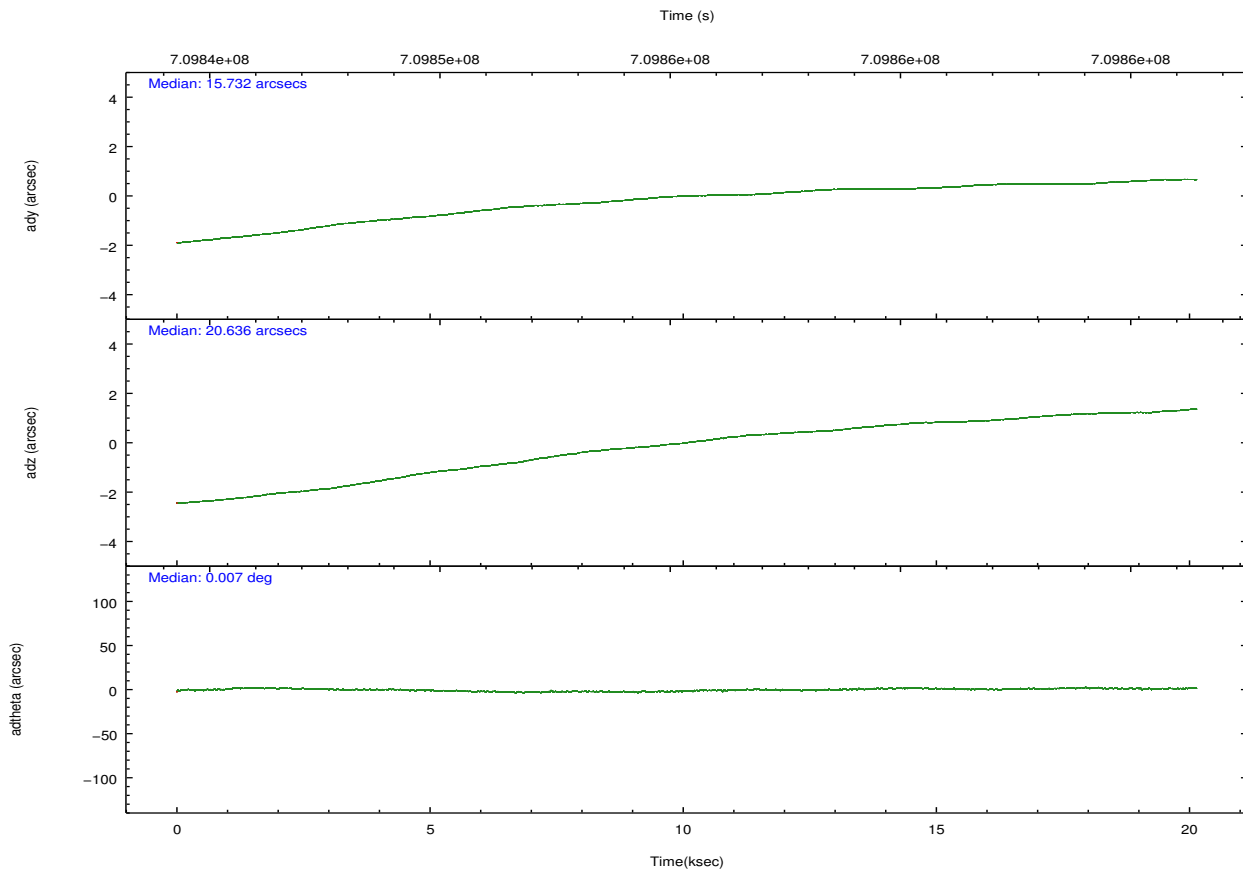
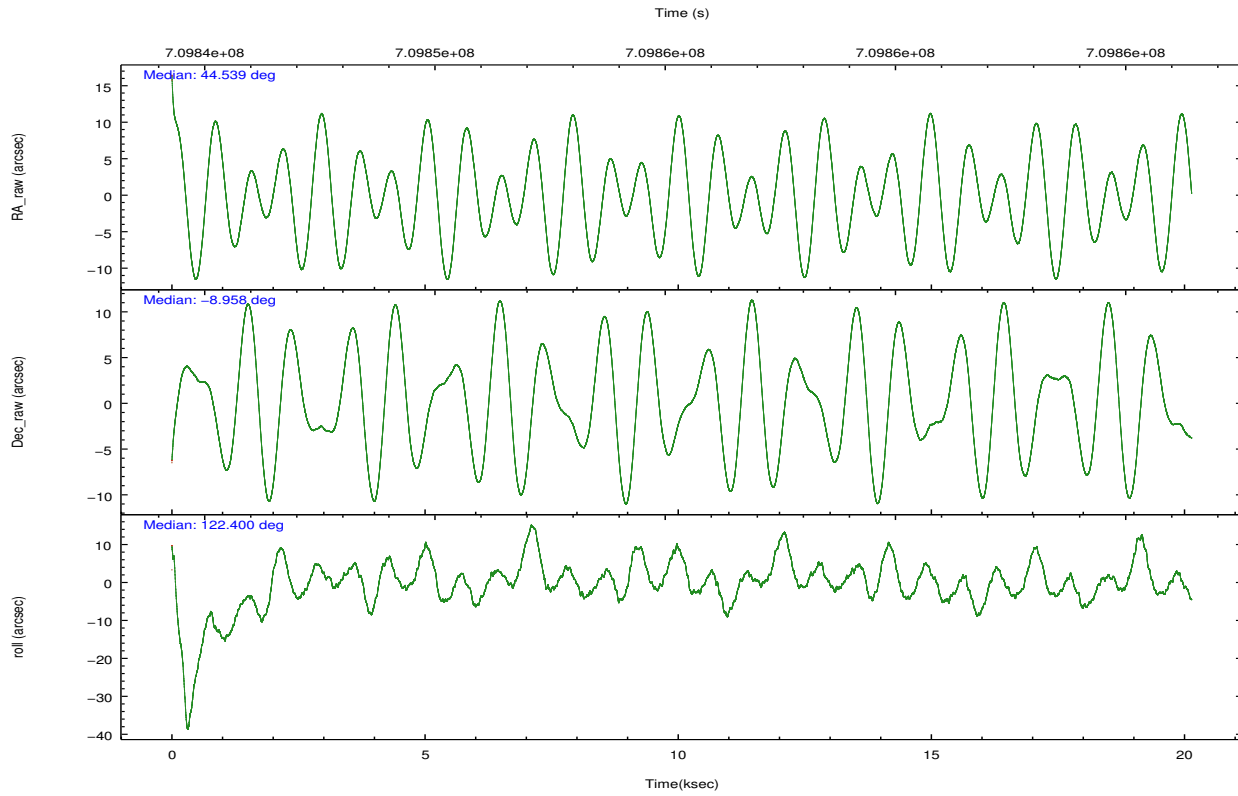
	ccd 7
grade 0 events	7186
	3%
grade 1 events	327
	0%
grade 2 events	18981
	9%
grade 3 events	6535
	3%
grade 4 events	6528
	3%
grade 5 events	19411
	9%
grade 6 events	47990
	24%
grade 7 events	92635
	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
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	44.563554	44.5464956931	Subarray requested	NONE	NONE
[deg] Pointing Dec	-8.970307	-8.958616909810001	Alternating exposures requested	N	N
[deg] Pointing Roll	122.253623	122.400032673	[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)	709845422.184000	709844410.36313			
Observation start date	2020-06-29T19:15:53	2020-06-29T19:00:10			
[s] Observation end time (MET)	709865422.184000	709866396.61447			
Observation end date	2020-06-30T00:49:13	2020-06-30T01:06:36			
Read mode	TIMED	TIMED			

2.3 Aspect





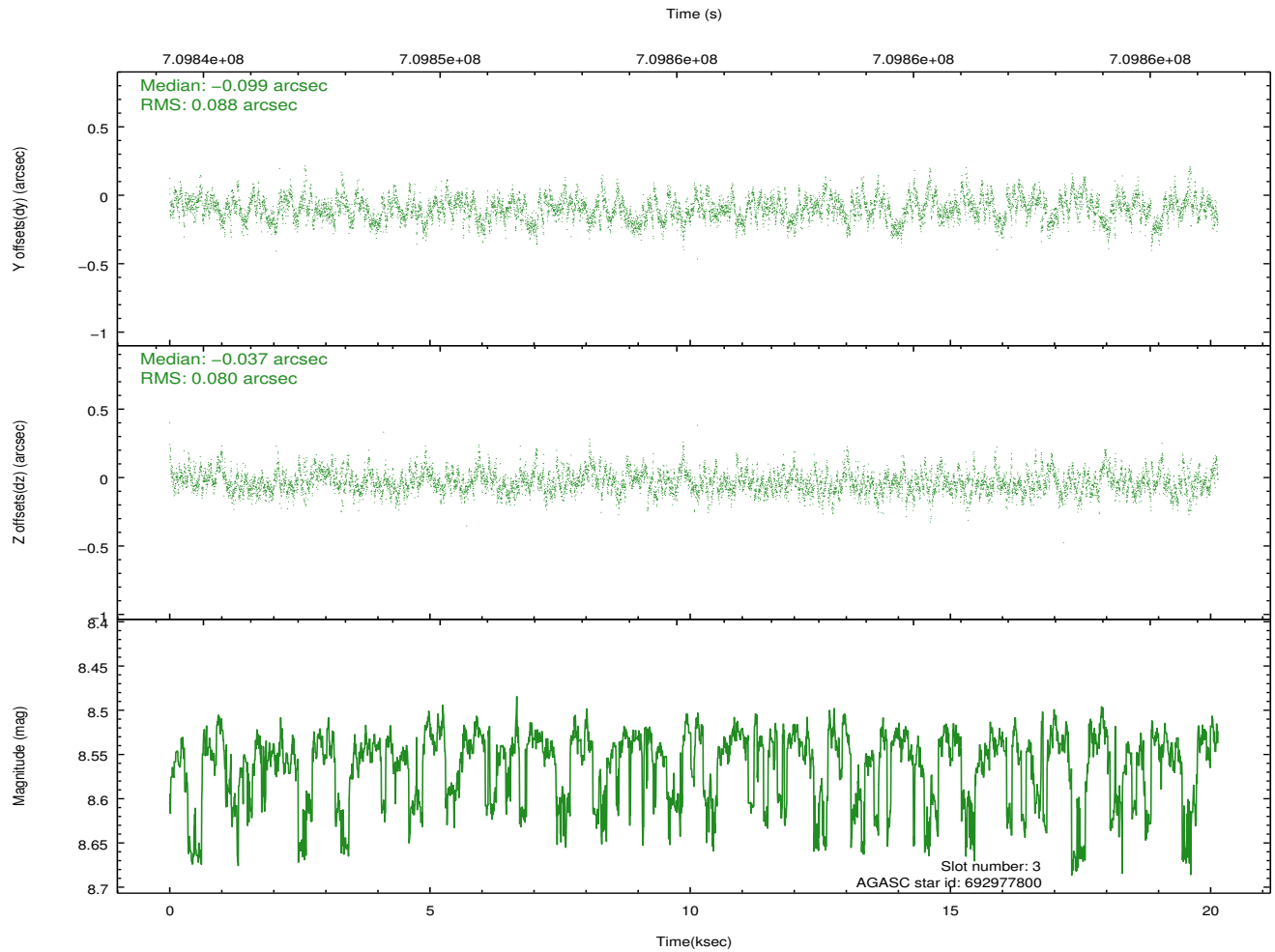
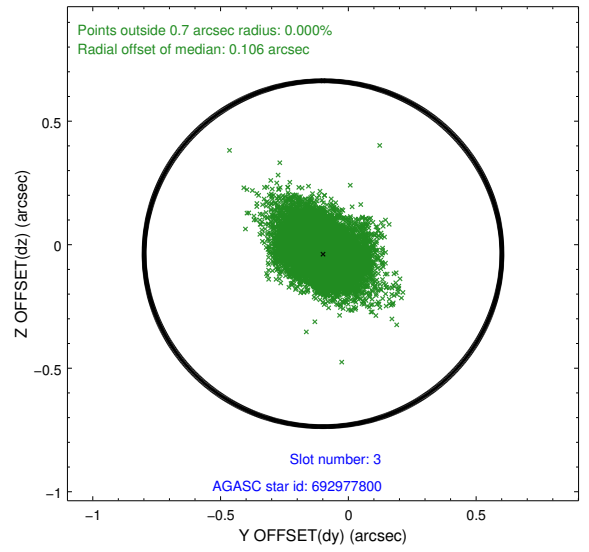
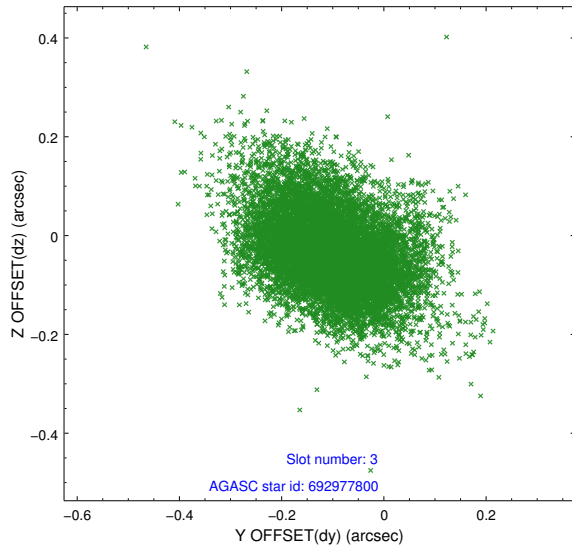
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.05	4913	1.000	0.202	-0.090	0.032	0.044	0.000000	0.000000	-768.60	-1741
1	FID		ACIS-S-4	7.18	4912	1.000	0.110	-0.072	0.043	0.052	0.000000	0.000000	2144.86	165
2	FID		ACIS-S-5	7.15	4910	1.000	-0.330	0.170	0.031	0.065	0.000000	0.000000	-1821.38	160
3	GUIDE	used	692977800	8.55	9815	1.000	-0.099	-0.037	0.125	0.207	44.613828	-8.625971	952.45	-813
4	GUIDE	used	692978104	9.21	9808	1.000	-0.004	-0.000	0.204	0.324	44.790498	-9.122430	-892.97	-389
5	GUIDE	used	692979768	9.42	9809	1.000	0.143	-0.061	0.237	0.365	45.035922	-9.222476	-1663.06	-933
6	GUIDE	used	692980192	8.83	9812	1.000	0.021	0.059	0.139	0.222	45.071389	-9.039893	-1180.07	-1395
7	GUIDE	used	692980216	9.59	9803	1.000	-0.054	0.012	0.222	0.340	44.857907	-9.236604	-1368.92	-370

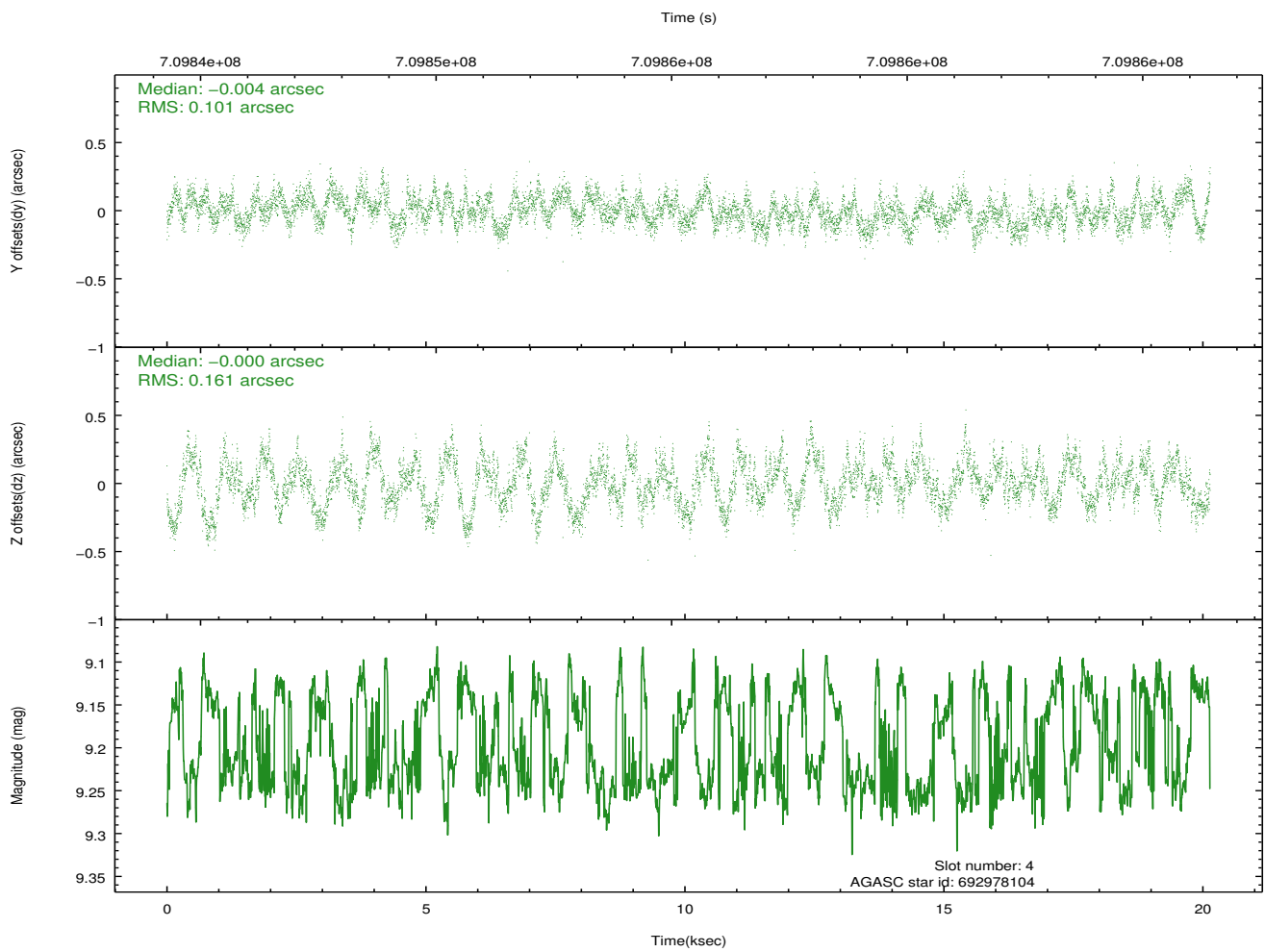
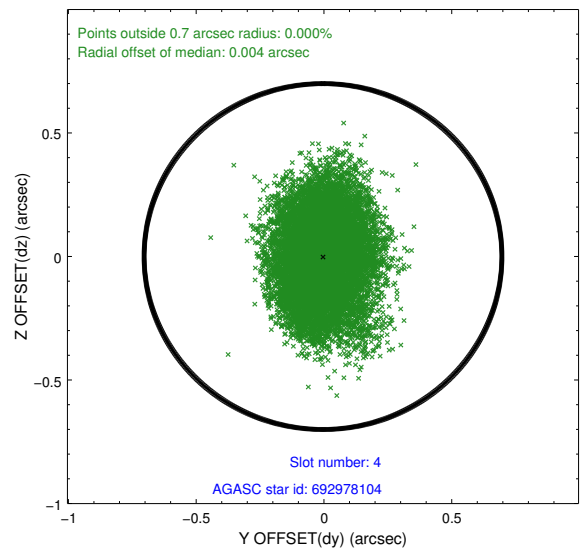
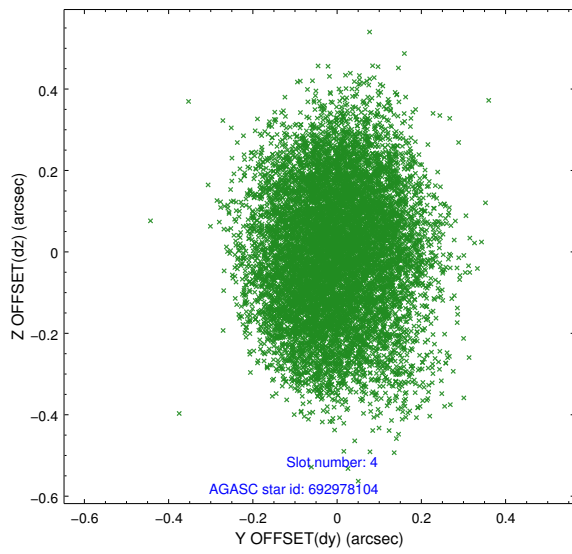
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2.4 Star Slots

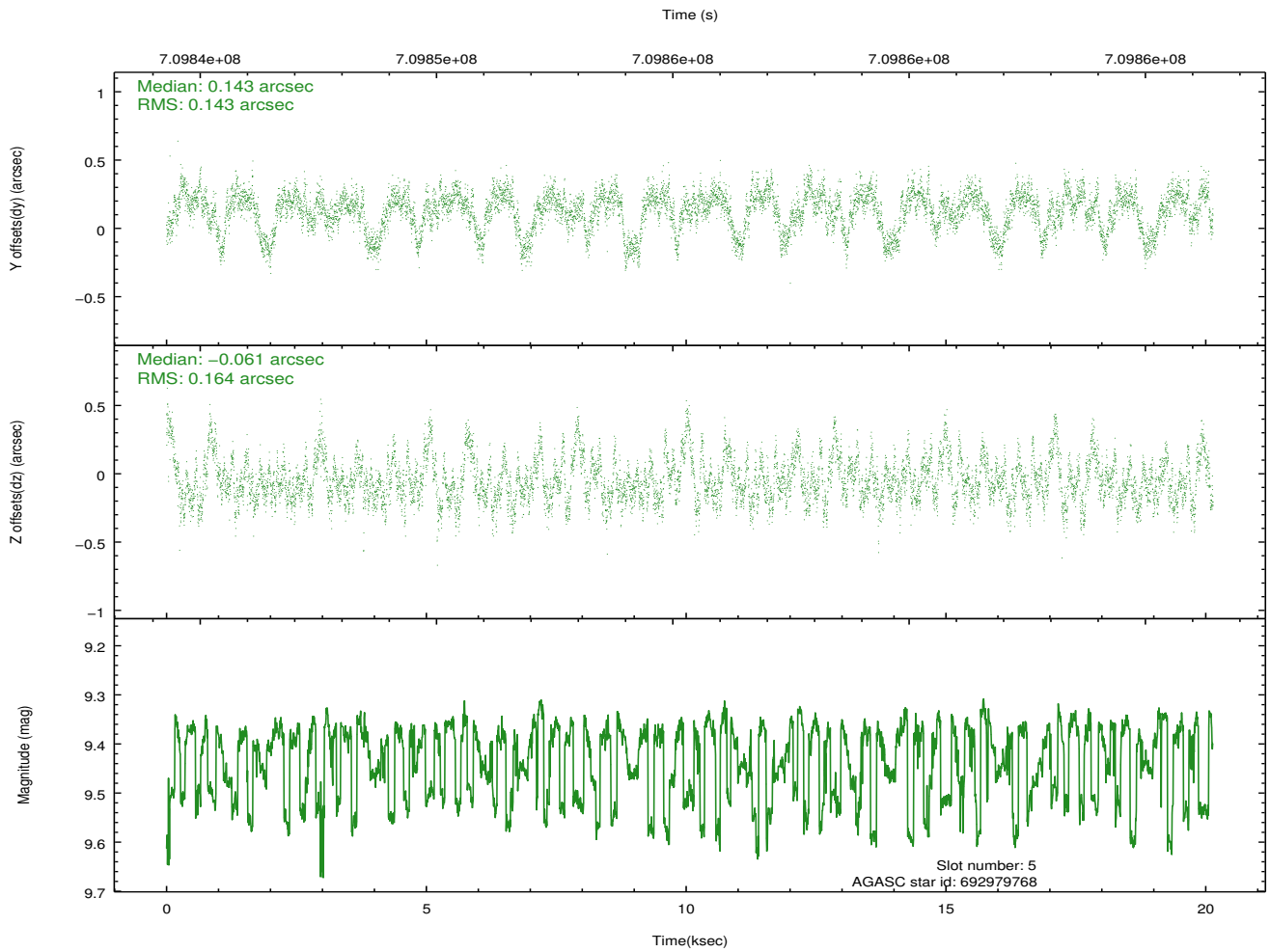
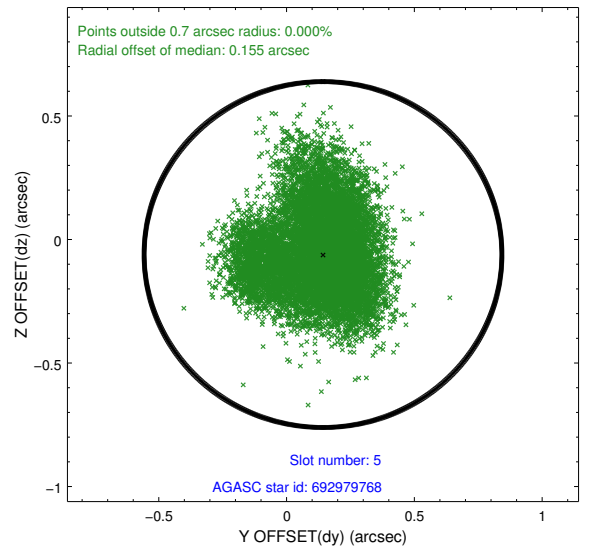
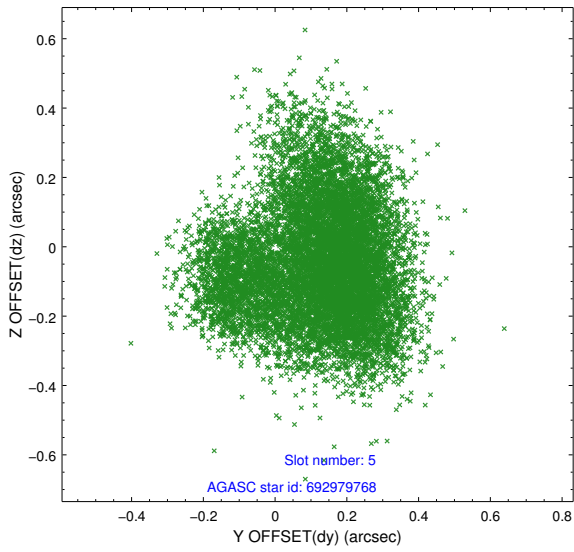
2.4.1 Slot 3



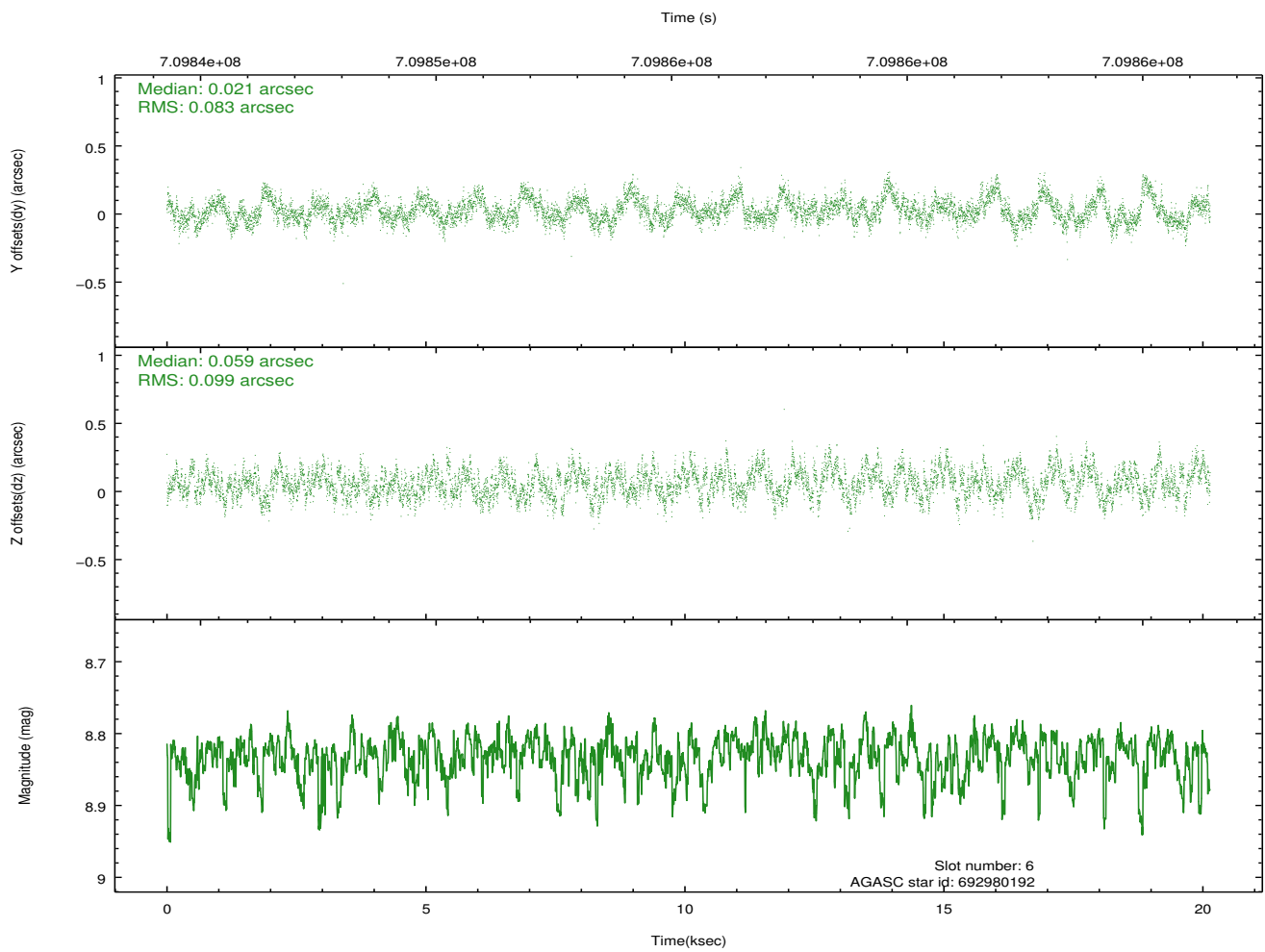
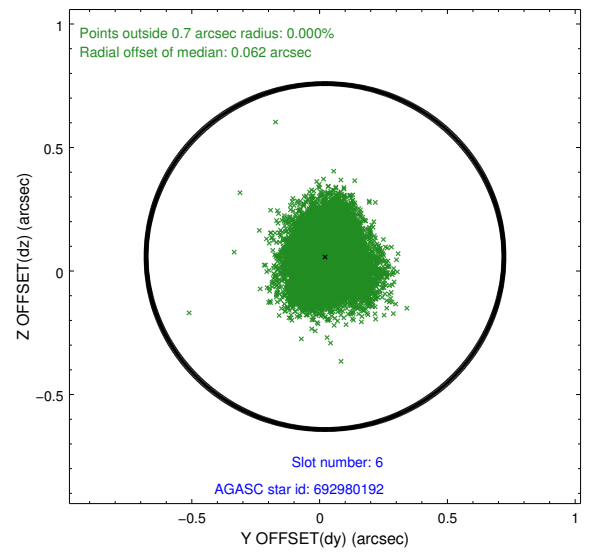
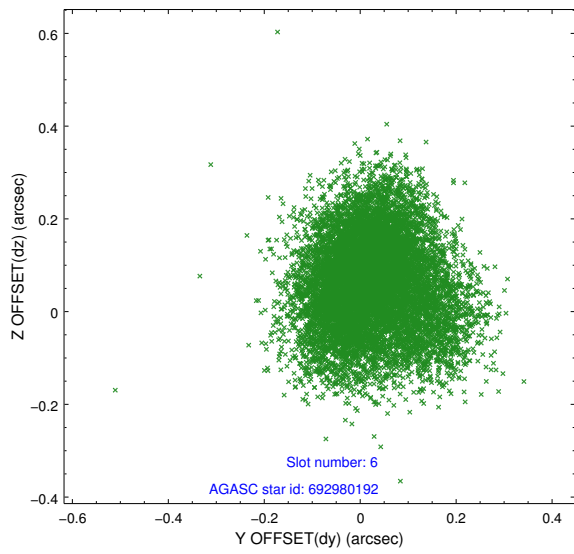
2.4.2 Slot 4



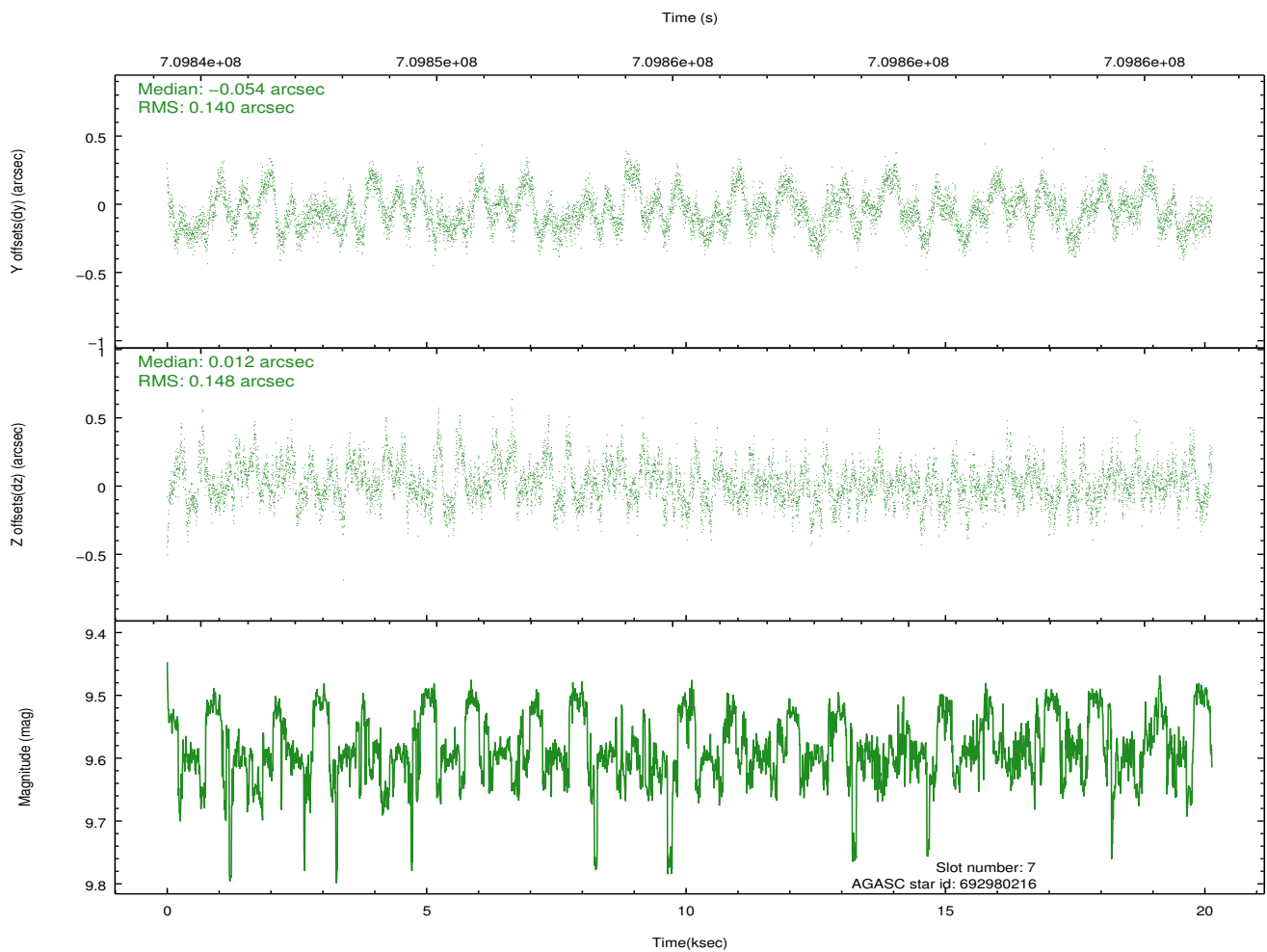
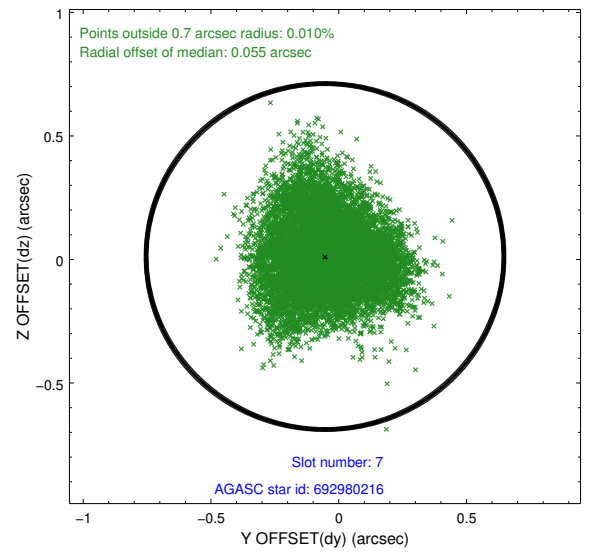
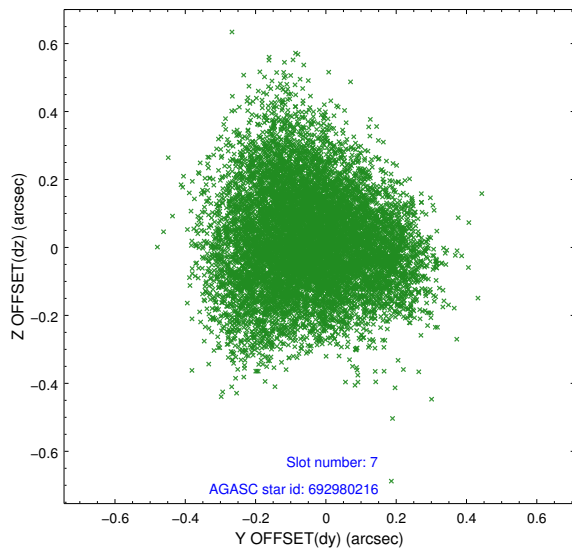
2.4.3 Slot 5



2.4.4 Slot 6

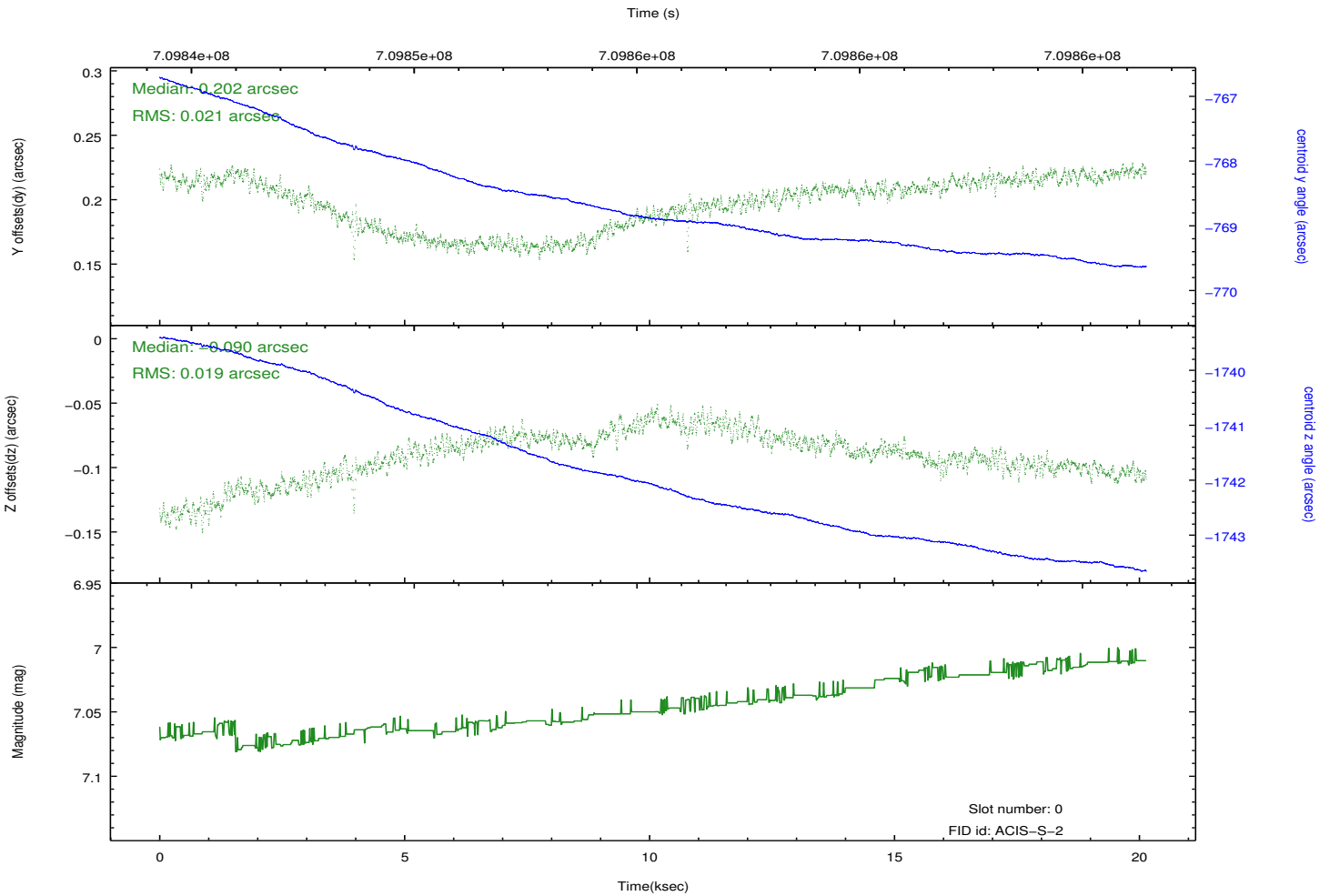
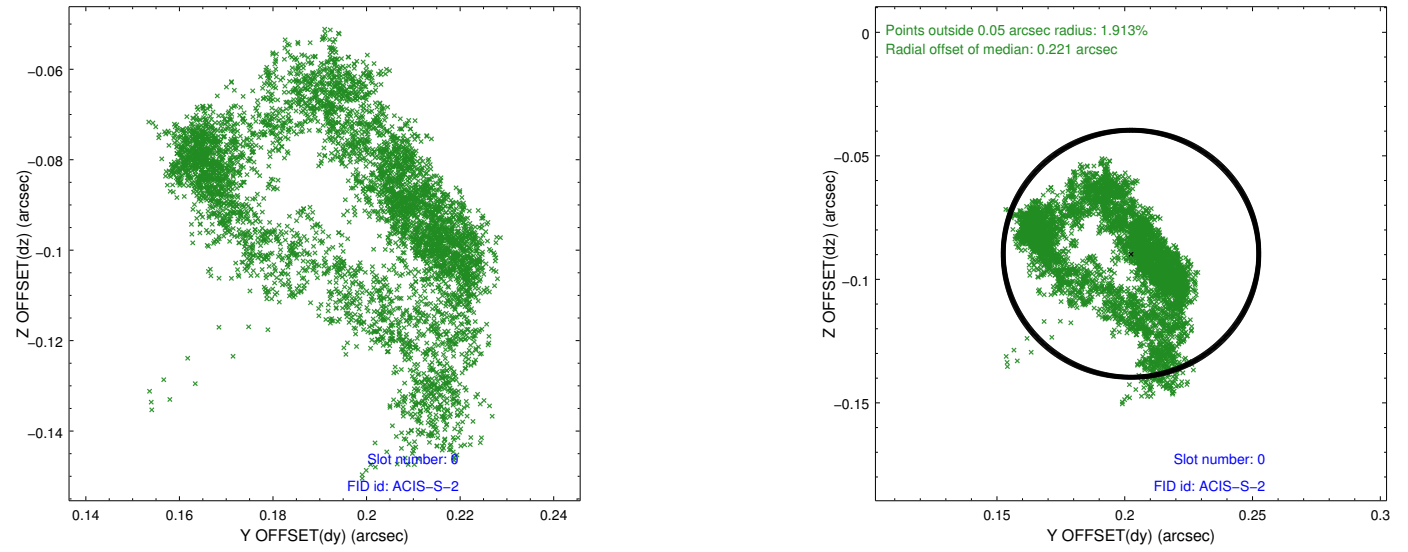


2.4.5 Slot 7

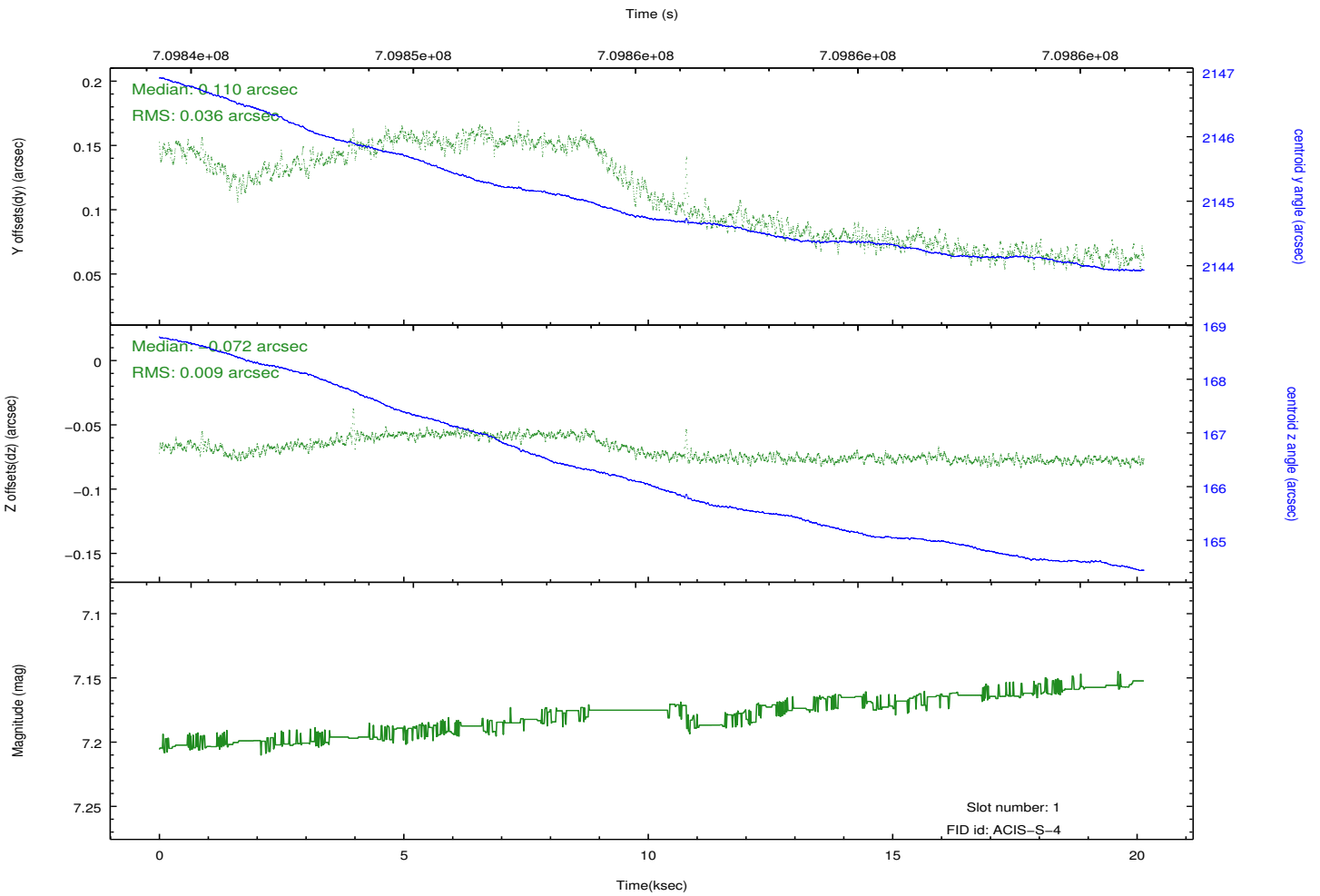
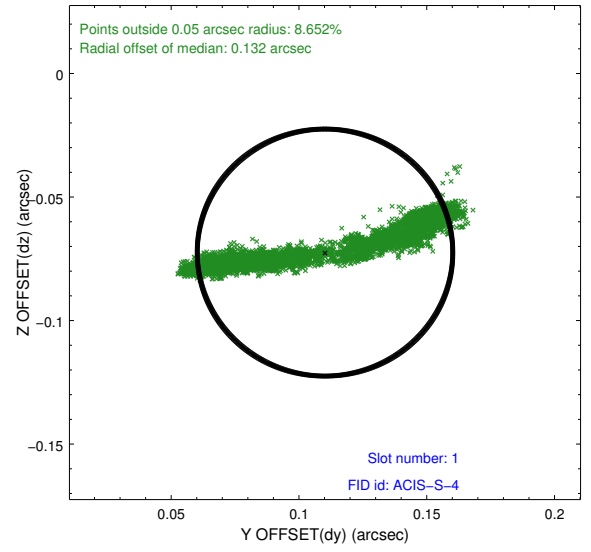
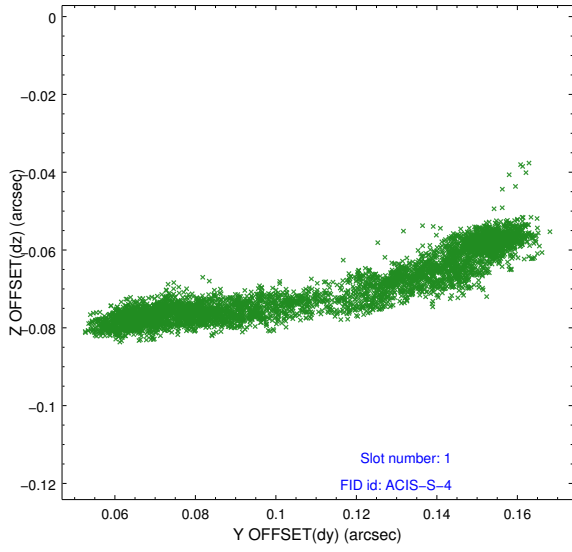


2.5 FID Slots

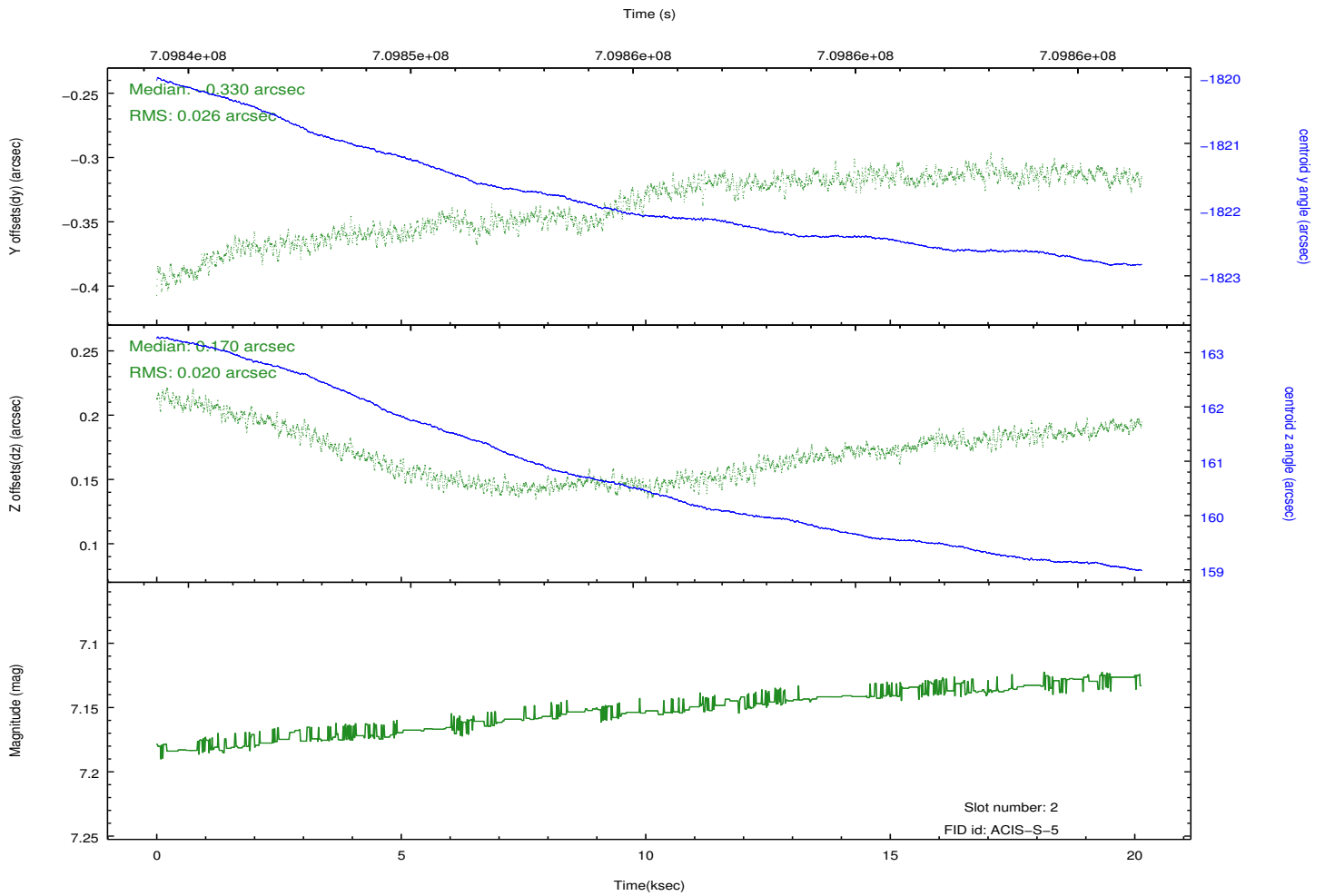
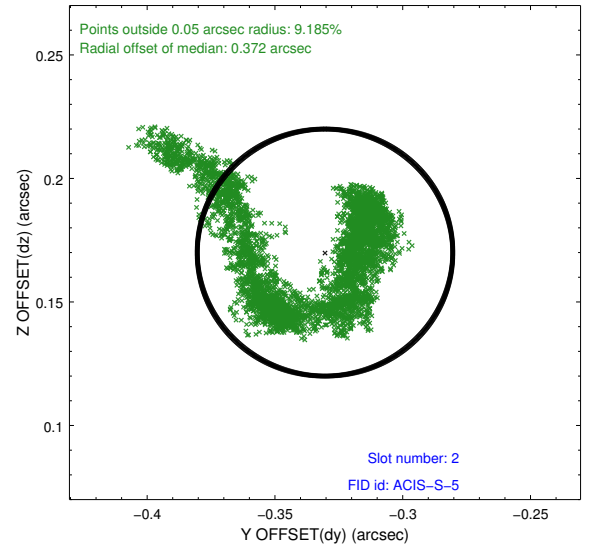
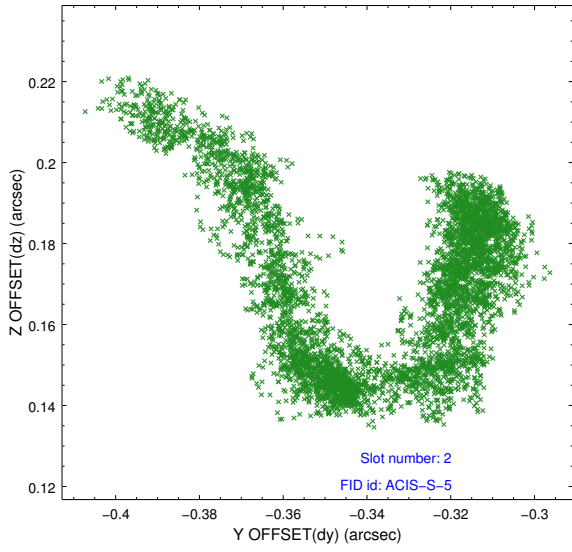
2.5.1 Slot 0



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)	2020.06.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.962

A.2 Comments