

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22208 - L2 Version 1
Chandra X-Ray Center

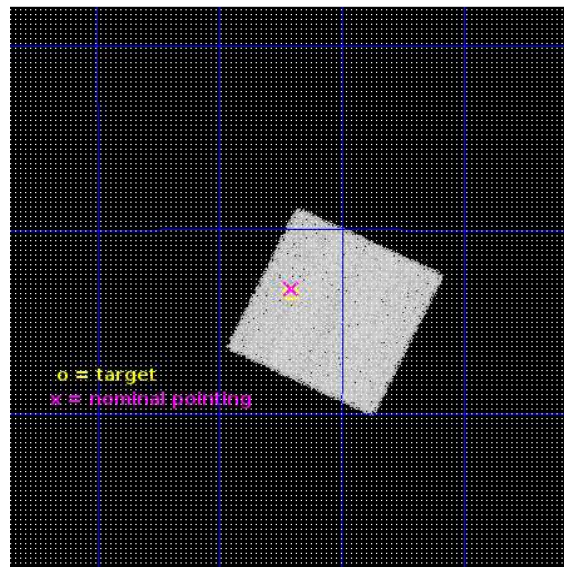
L2 Processing Date : Apr 29 2019

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1 Front

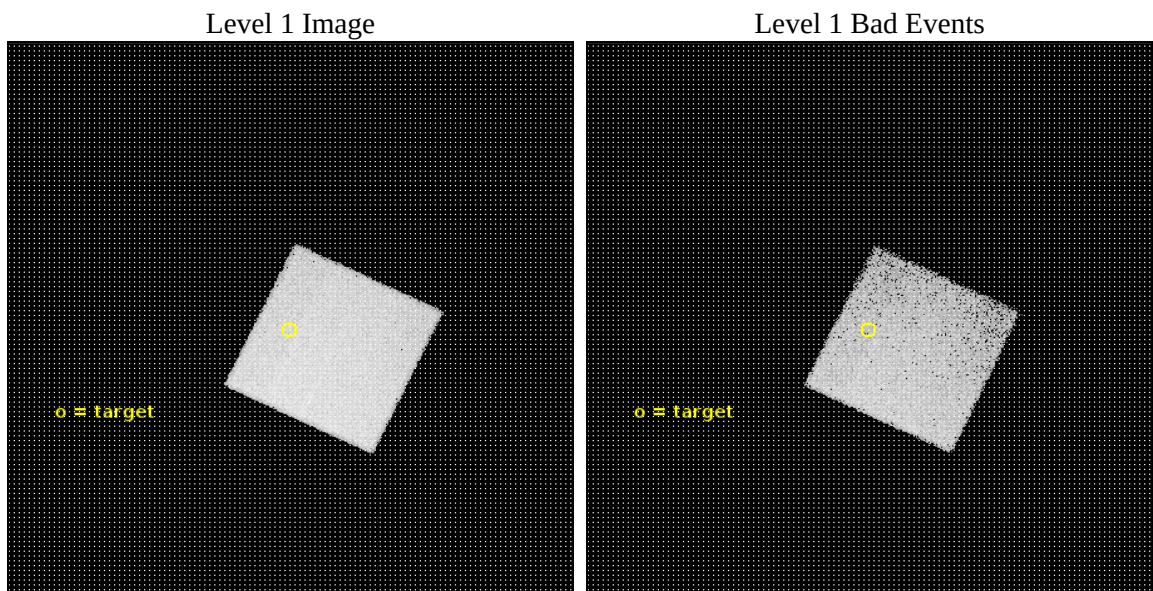
seq_num	703888	Sequence number
obs_id	22208	Observation id
title	Chandra-NuSTAR synergy in the NuSTAR serendipitous survey	Proposal
observer	Dr David Alexander	Principal investigator
object	Cen_X4_s3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	224.551636	Observer's specified target RA [deg]
dec_targ	-31.557076	Observer's specified target Dec [deg]
ra_nom	224.55133660592	Nominal RA [deg]
dec_nom	-31.553604093514	Nominal Dec [deg]
roll_nom	25.635215706916	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20090.295305967	Sum of GTIs [s]
livetime	19819.169073048	Livetime [s]
ontime7	20090.295305967	Sum of GTIs [s]
l2events	83078	Number of level 2 events



2 OBI

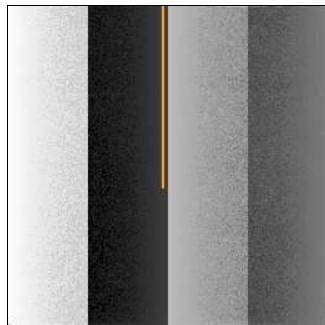
2.1 OBI

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	10.7.1	Processing system revision	ontime	20090.295305967	Sum of GTIs [s]
caldsver	4.8.2	 	ontime7	20090.295305967	Sum of GTIs [s]
date	2019-04-30T00:47:59	Date and time of file creation	l1events	195967	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	195967
rejected events	110663
rejected %	56%

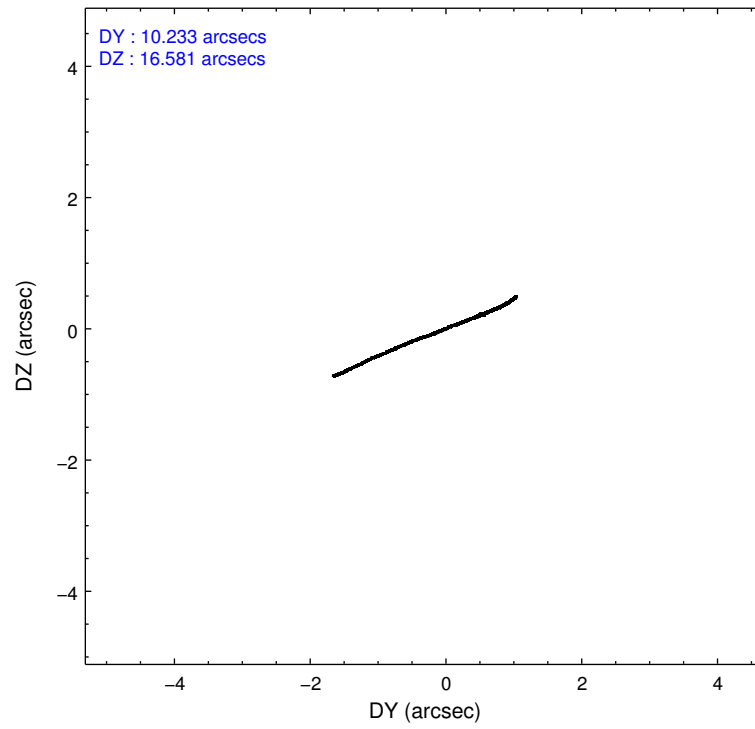
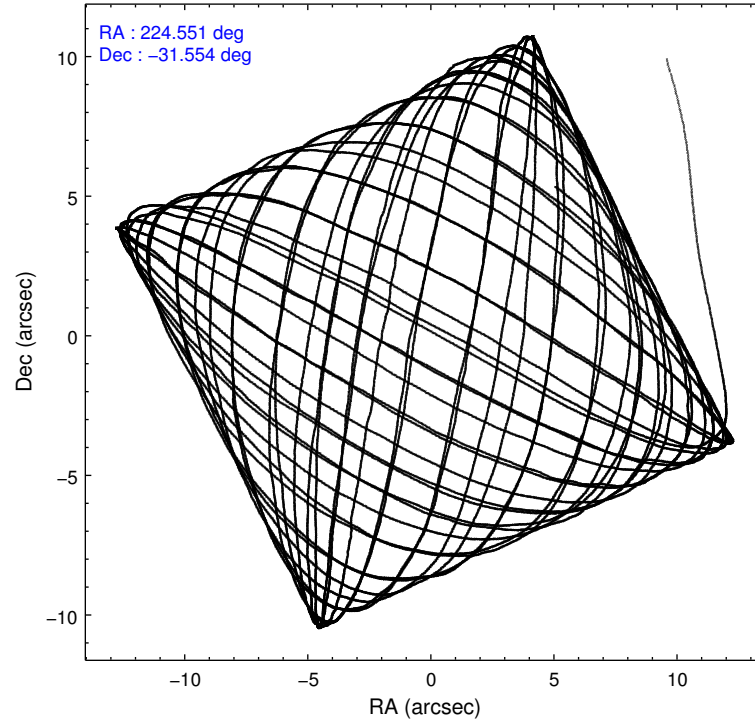
	ccd 7
grade 0 events	6938
	3%
grade 1 events	303
	0%
grade 2 events	17829
	9%
grade 3 events	6529
	3%
grade 4 events	6415
	3%
grade 5 events	18843
	9%
grade 6 events	47614
	24%
grade 7 events	91496
	46%

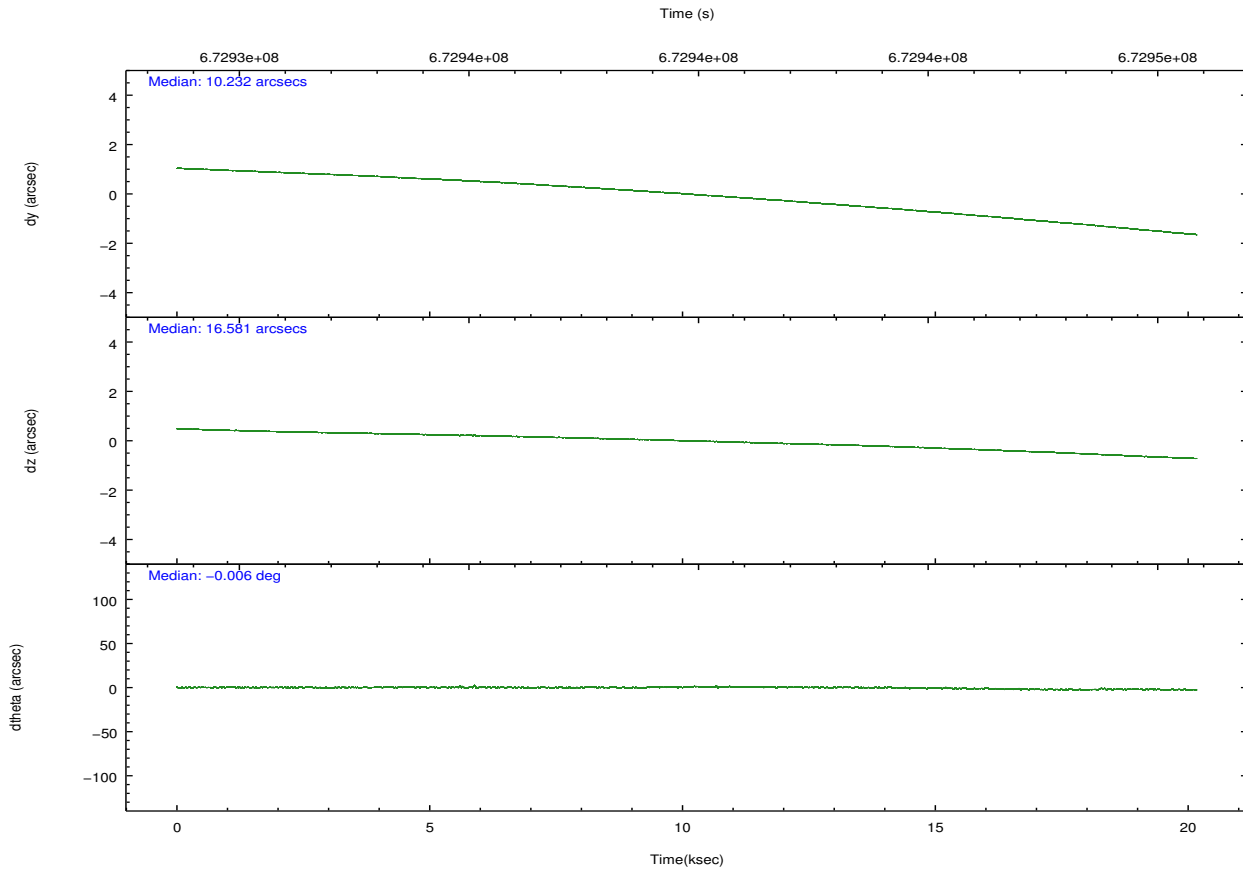
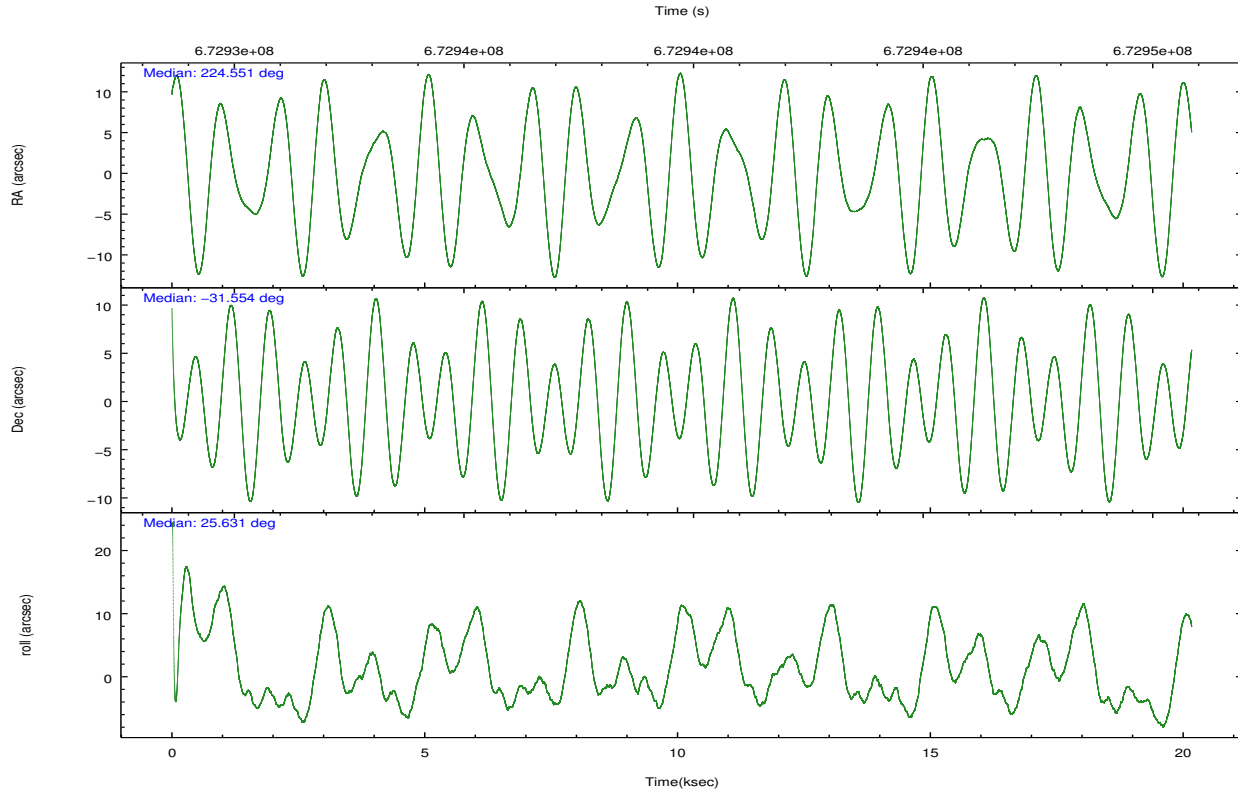
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	224.533473	224.5513366059196
[deg] Pointing Dec	-31.576457	-31.55360409351378
[deg] Pointing Roll	25.469218	25.63521570691594
[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)	672929827.184000	672928672.56188
Observation start date	2019-04-29T12:55:58	2019-04-29T12:37:52
[s] Observation end time (MET)	672949827.184000	672949961.8131599
Observation end date	2019-04-29T18:29:18	2019-04-29T18:32:41
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

2.3 Aspect



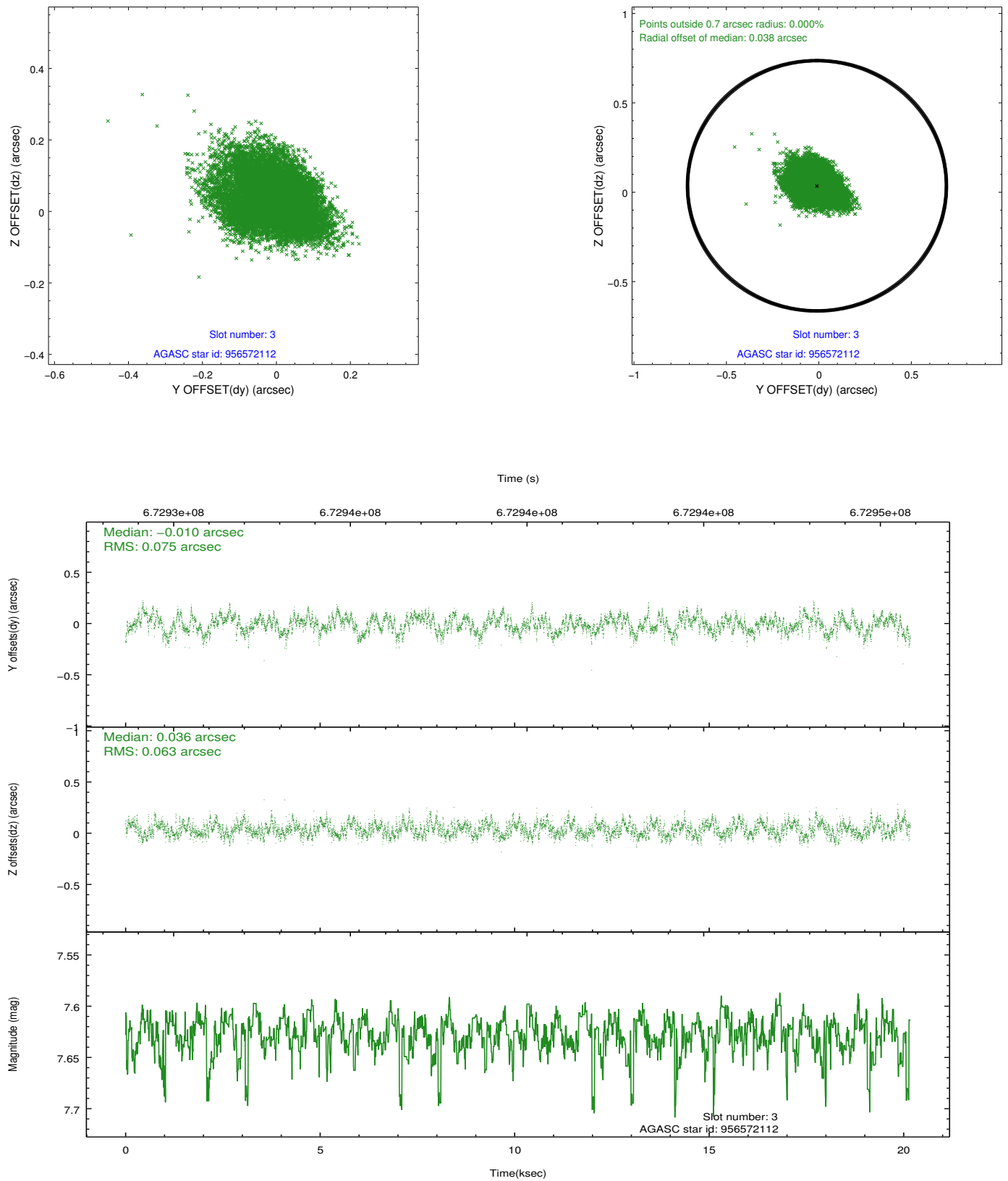


Slot Statistics

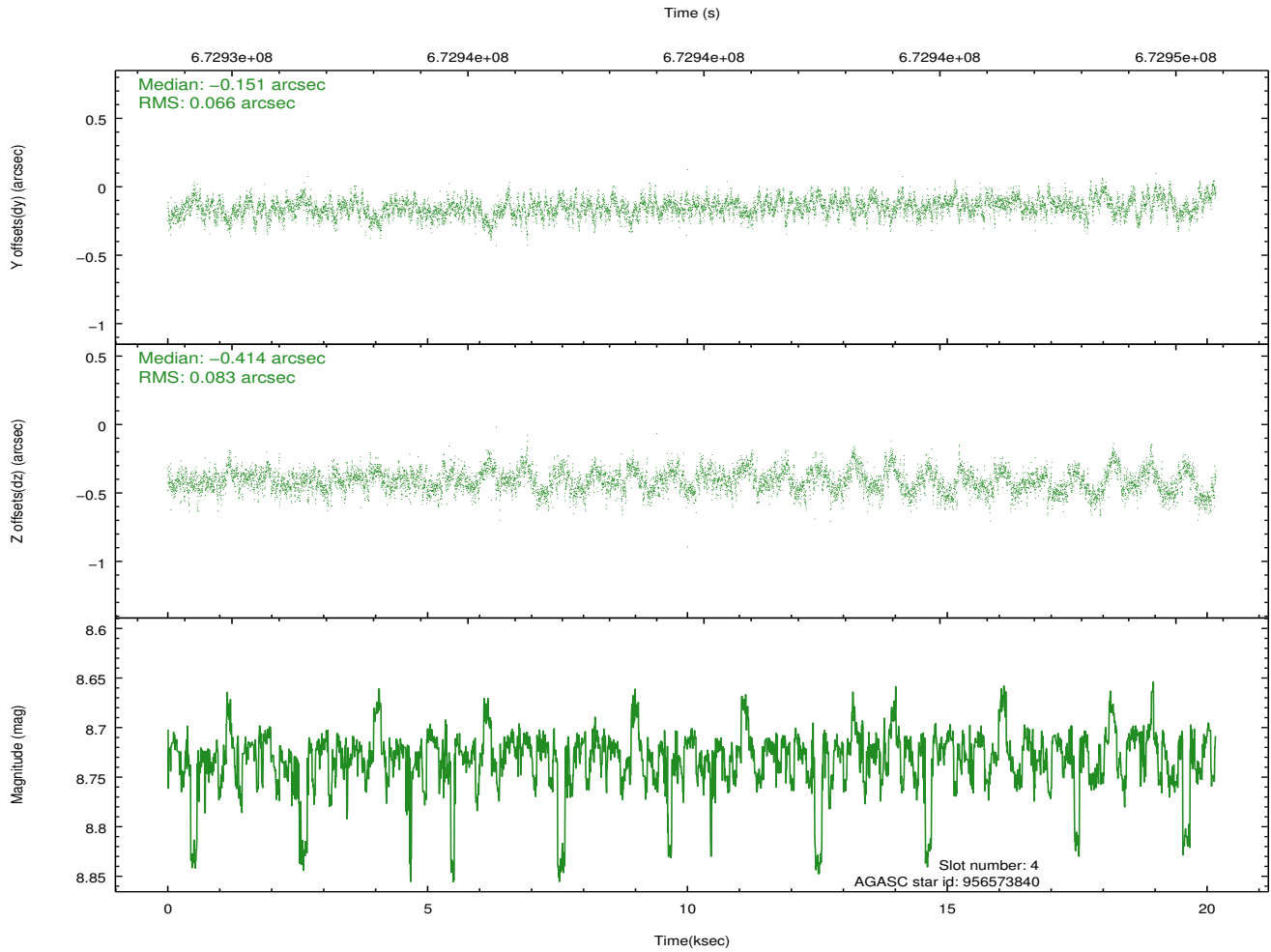
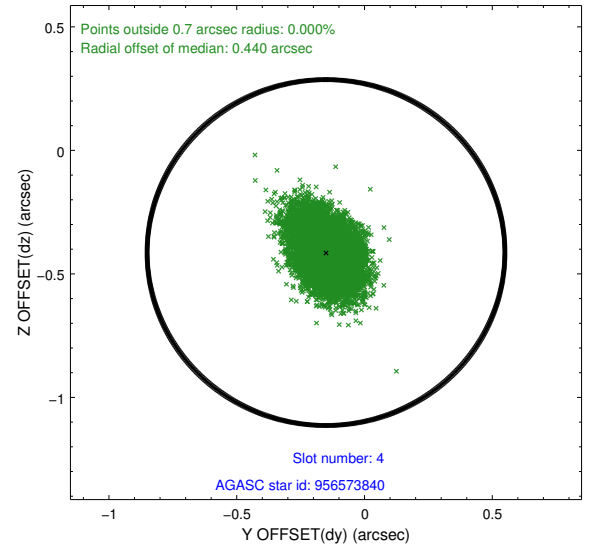
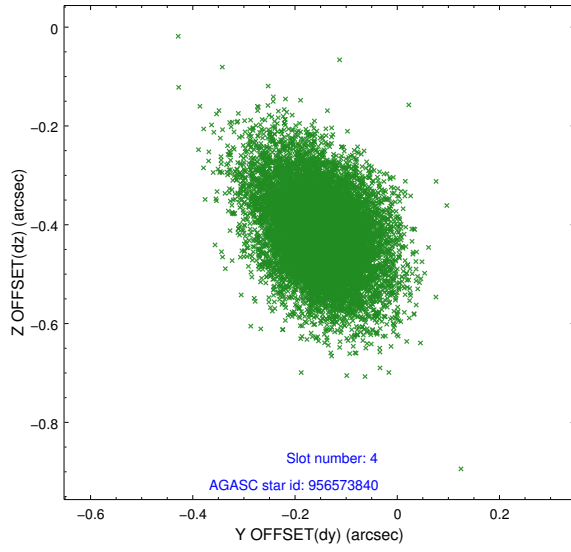
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.07	4920	1.000	-0.284	-0.158	0.017	0.027	0.000000	0.000000	-763.20	-1738
1	FID		ACIS-S-4	7.21	4920	1.000	0.693	0.179	0.010	0.041	0.000000	0.000000	2150.91	170
2	FID		ACIS-S-5	7.17	4920	1.000	-0.439	-0.014	0.018	0.030	0.000000	0.000000	-1816.01	164
3	GUIDE	used	956572112	7.63	9833	1.000	-0.010	0.036	0.104	0.166	223.861077	-31.418161	-1623.04	1398
4	GUIDE	used	956573840	8.73	9831	1.000	-0.151	-0.414	0.111	0.187	223.997560	-31.088122	-738.10	2293
5	GUIDE	used	956575352	8.48	9831	1.000	0.131	0.135	0.094	0.174	223.873030	-31.529443	-1759.29	1019
6	GUIDE	used	956577088	8.21	9832	1.000	0.215	0.408	0.091	0.147	224.540686	-31.774008	-285.75	-650
7	GUIDE	used	958277040	8.88	9822	1.000	-0.180	-0.179	0.147	0.233	225.059014	-31.205389	2033.21	506

2.4 Star Slots

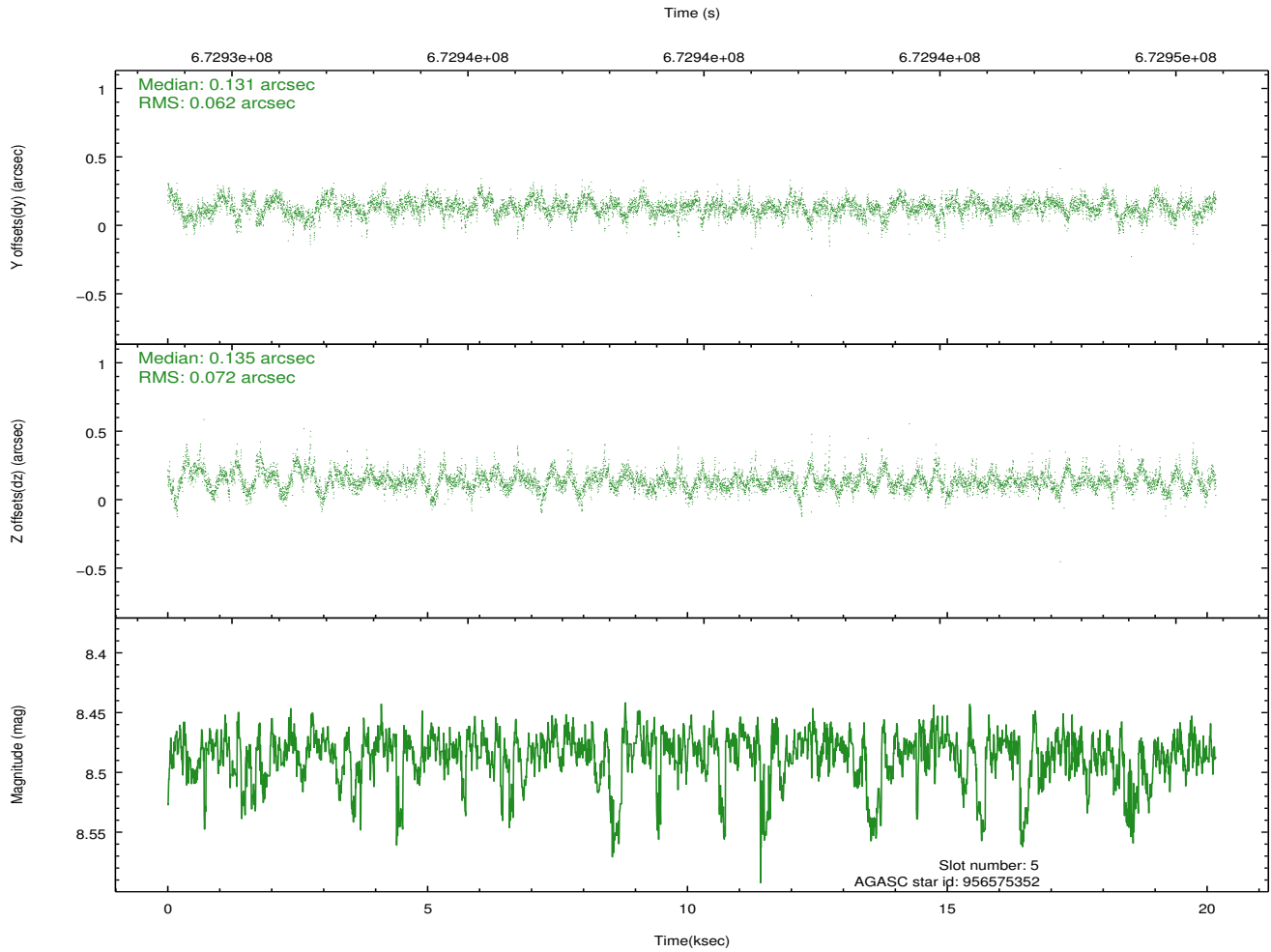
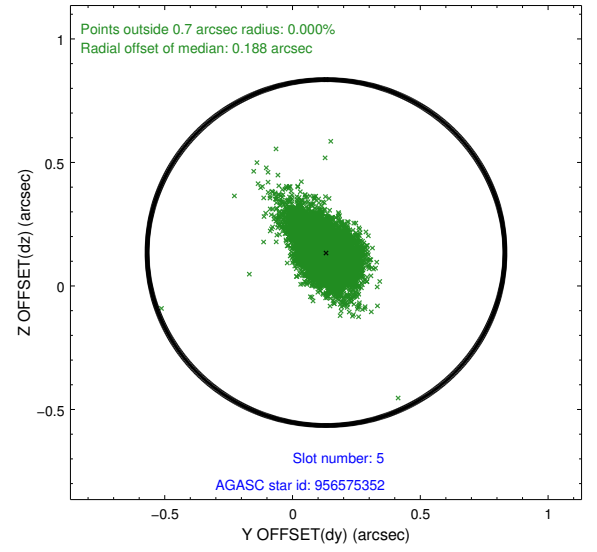
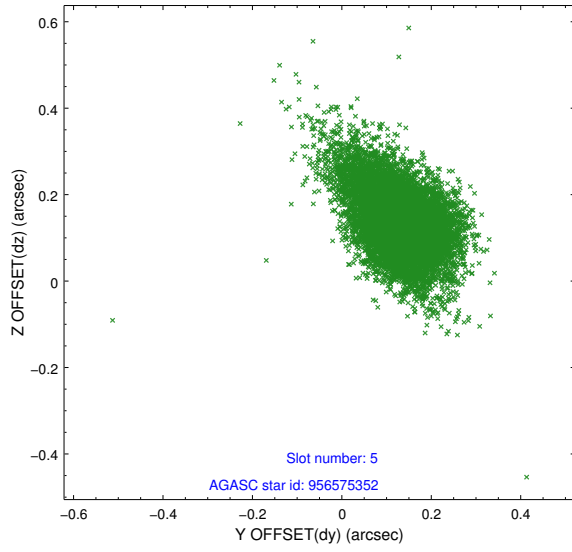
2.4.1 Slot 3



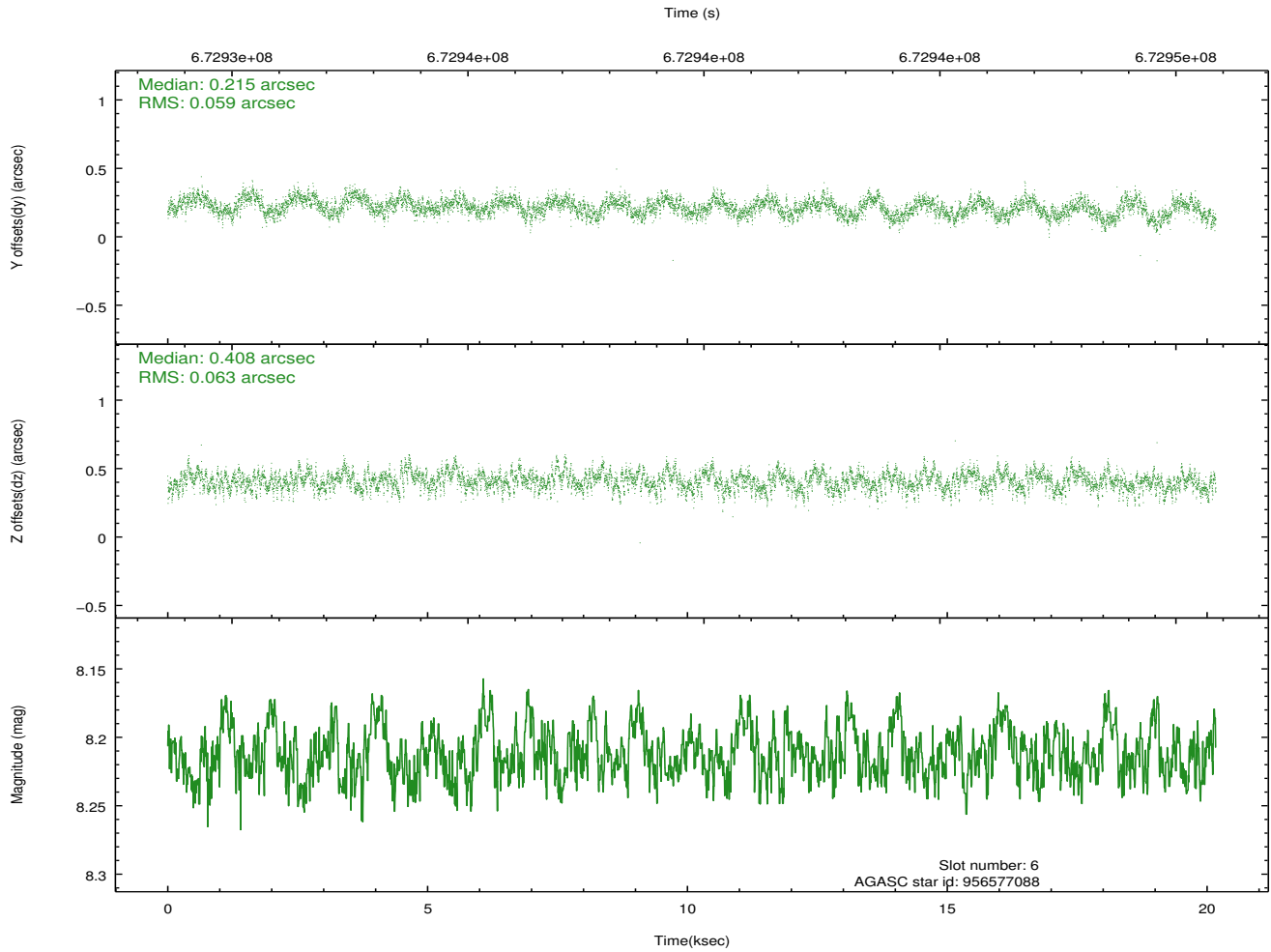
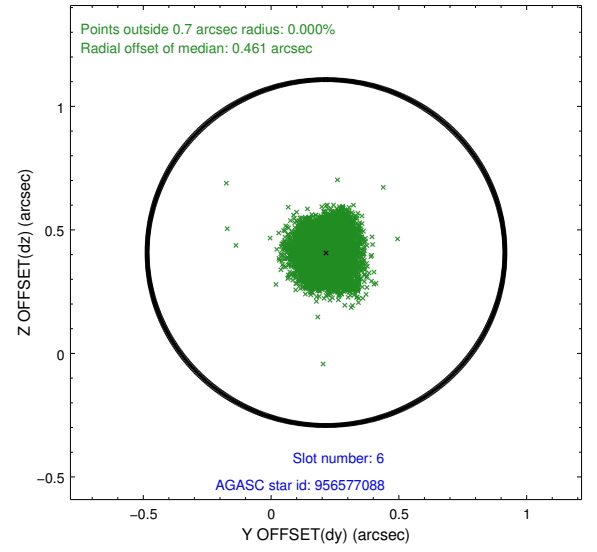
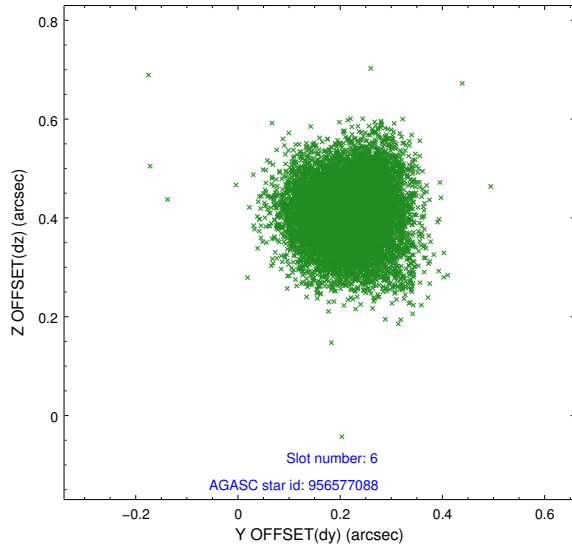
2.4.2 Slot 4



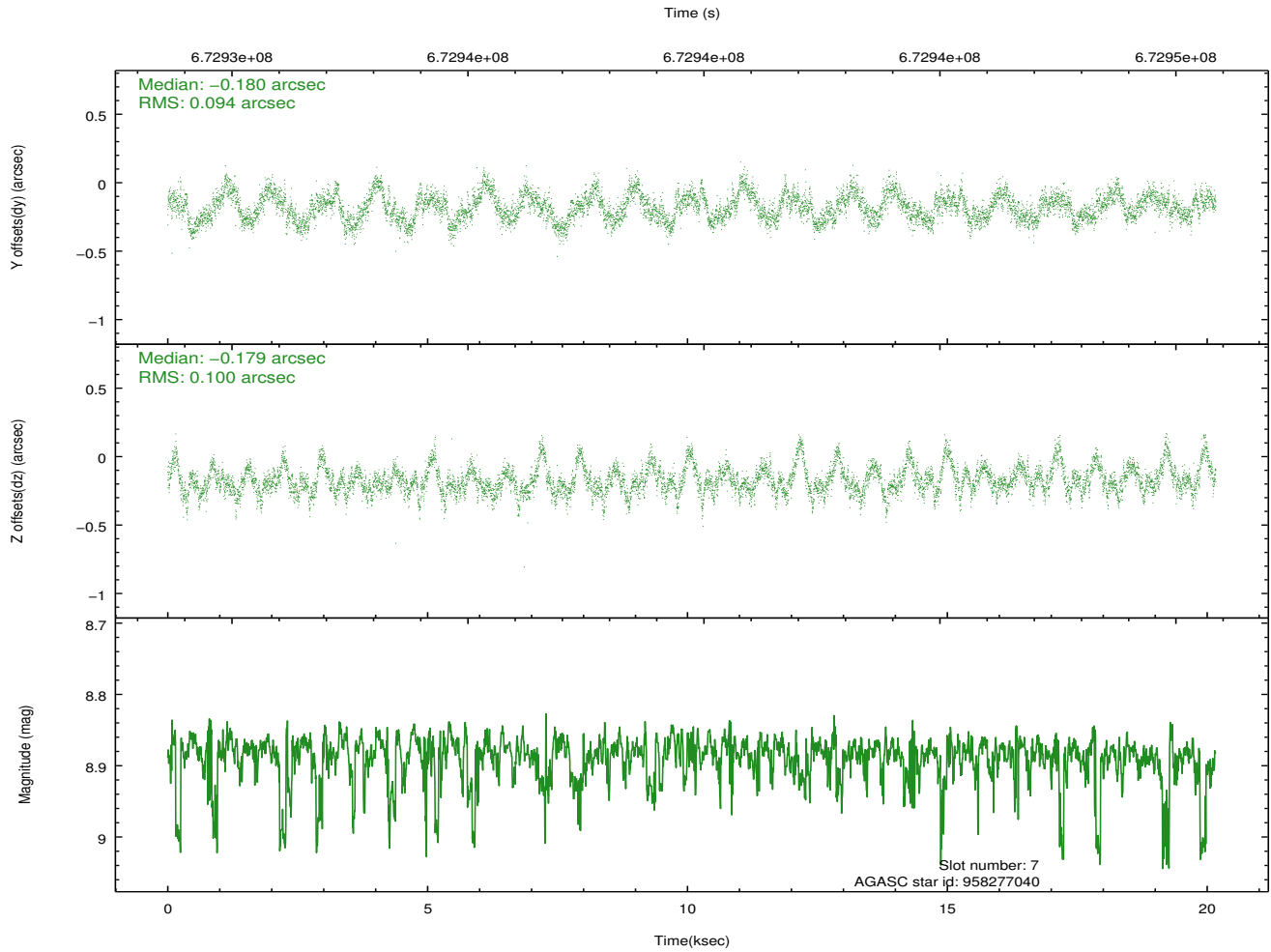
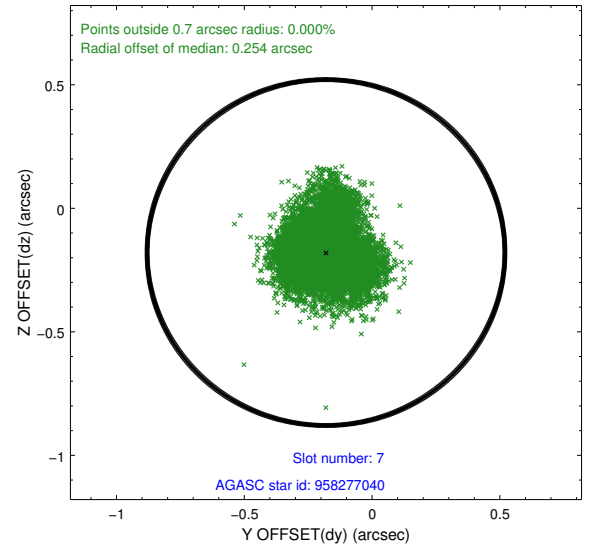
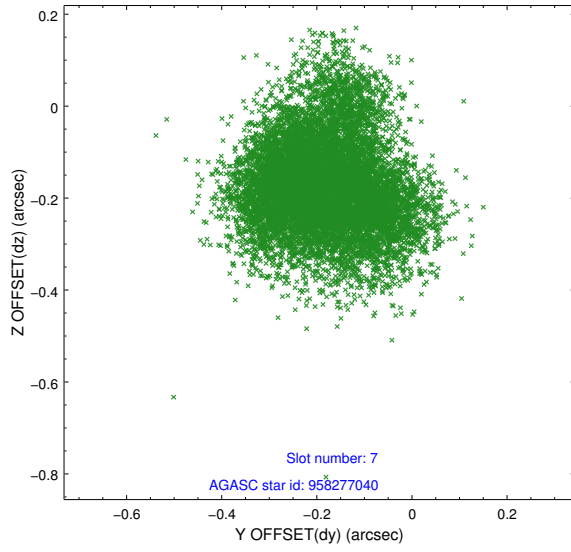
2.4.3 Slot 5



2.4.4 Slot 6

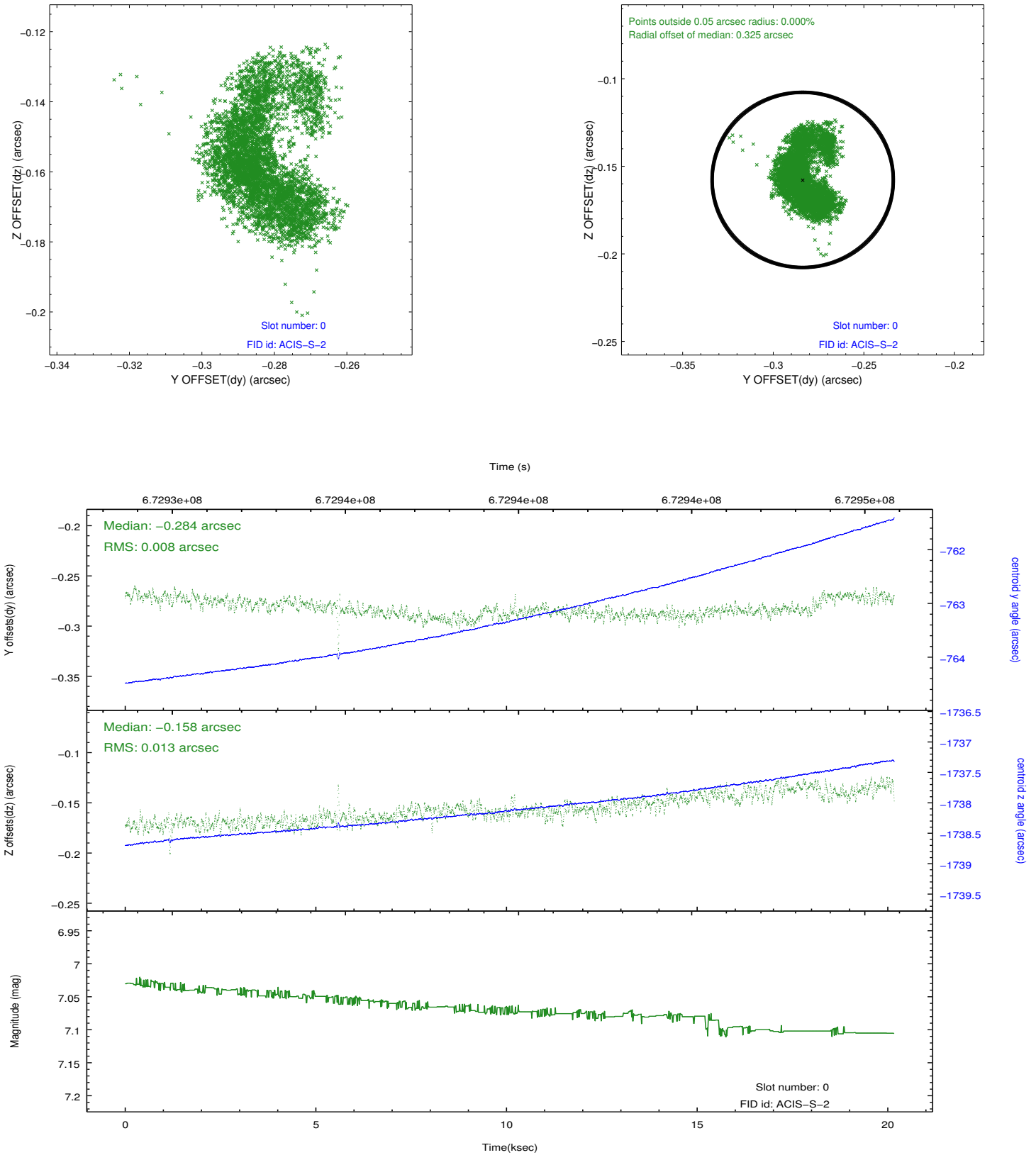


2.4.5 Slot 7

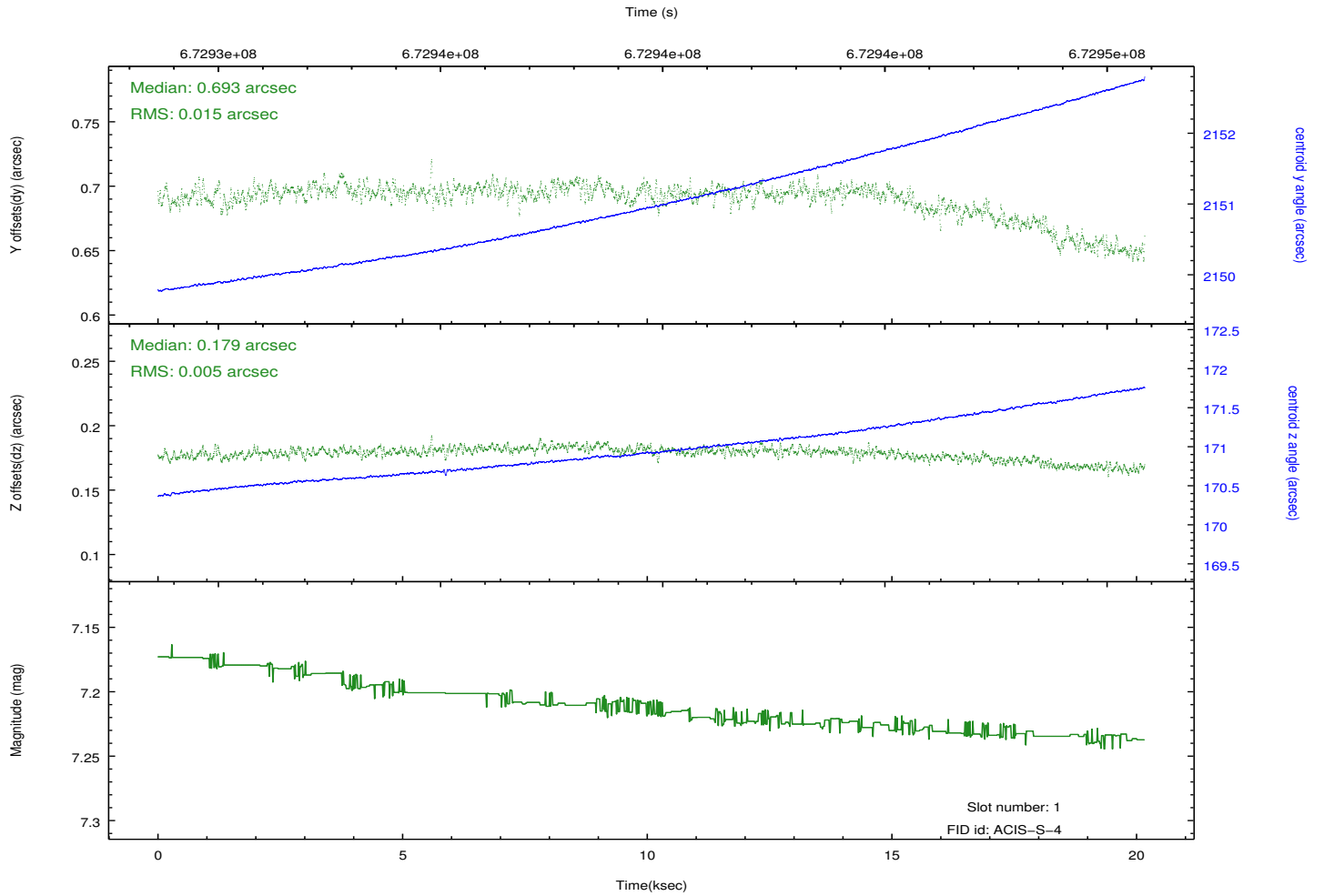
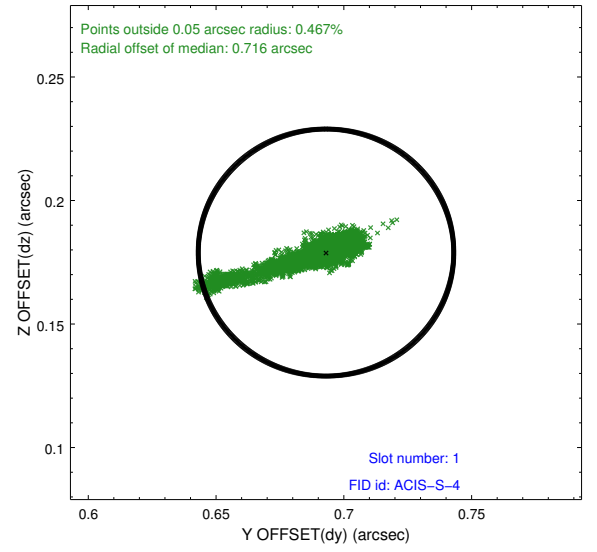
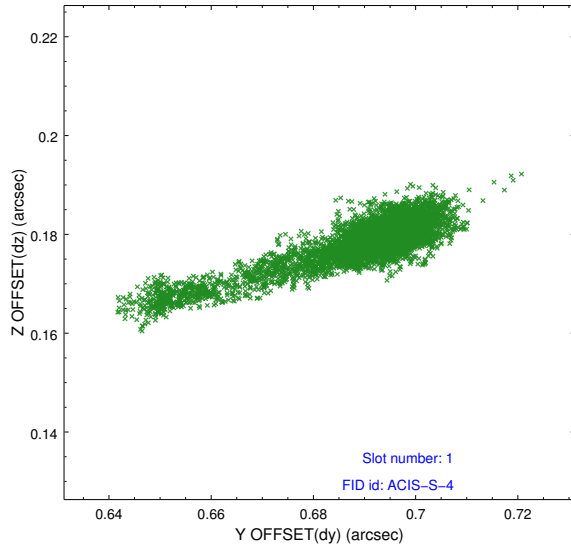


2.5 FID Slots

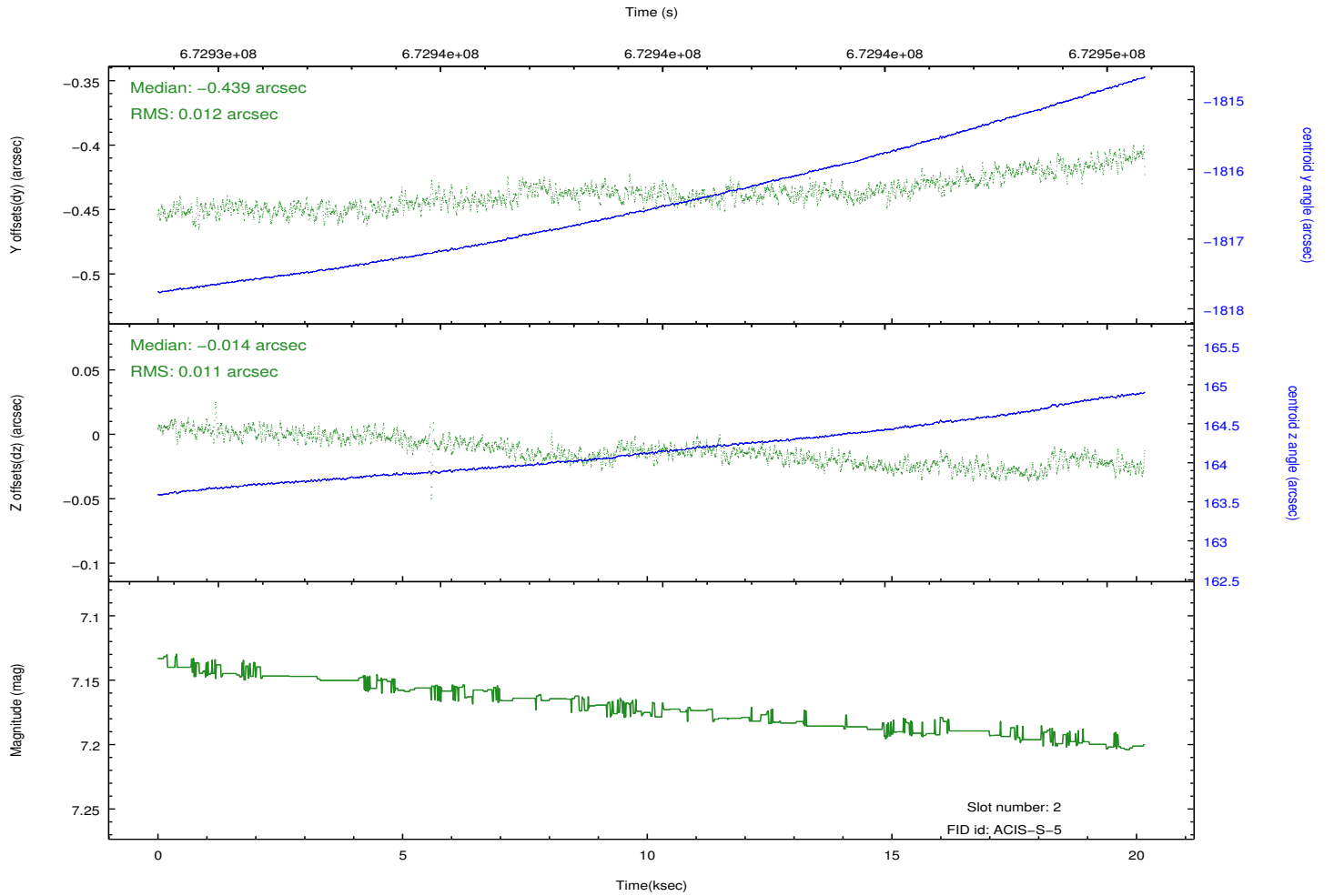
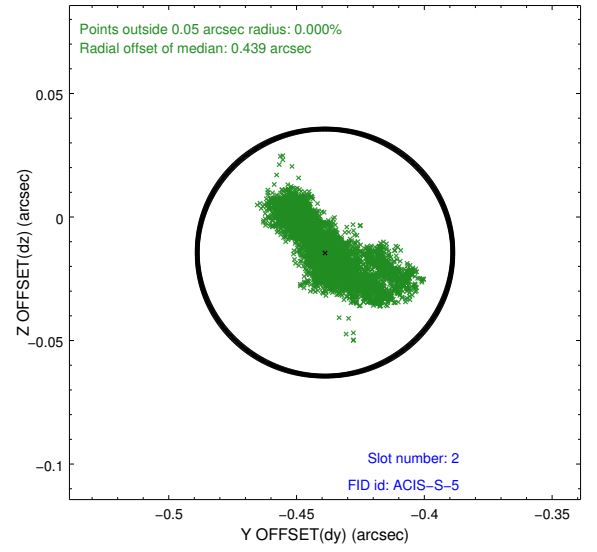
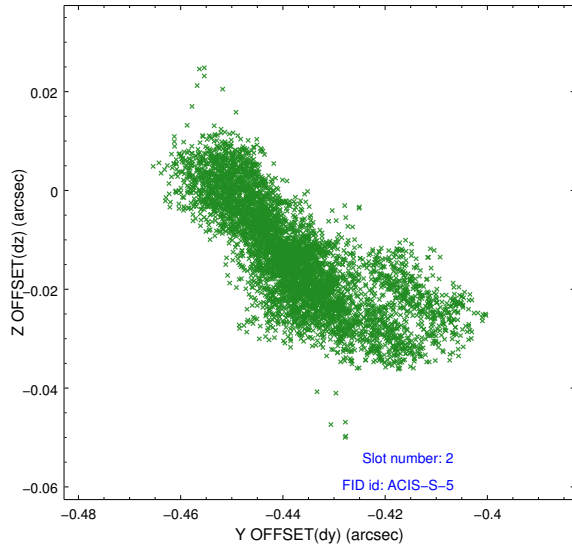
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2019.04.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.090295305967

A.2 Comments