

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22211 - L2 Version 1
Chandra X-Ray Center

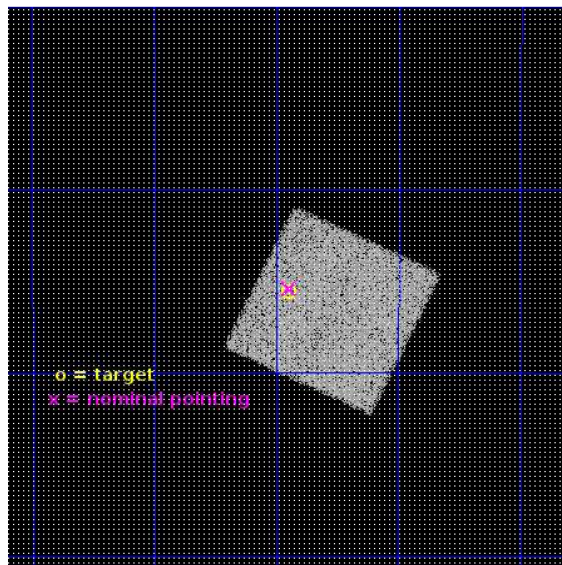
L2 Processing Date : Apr 30 2019

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

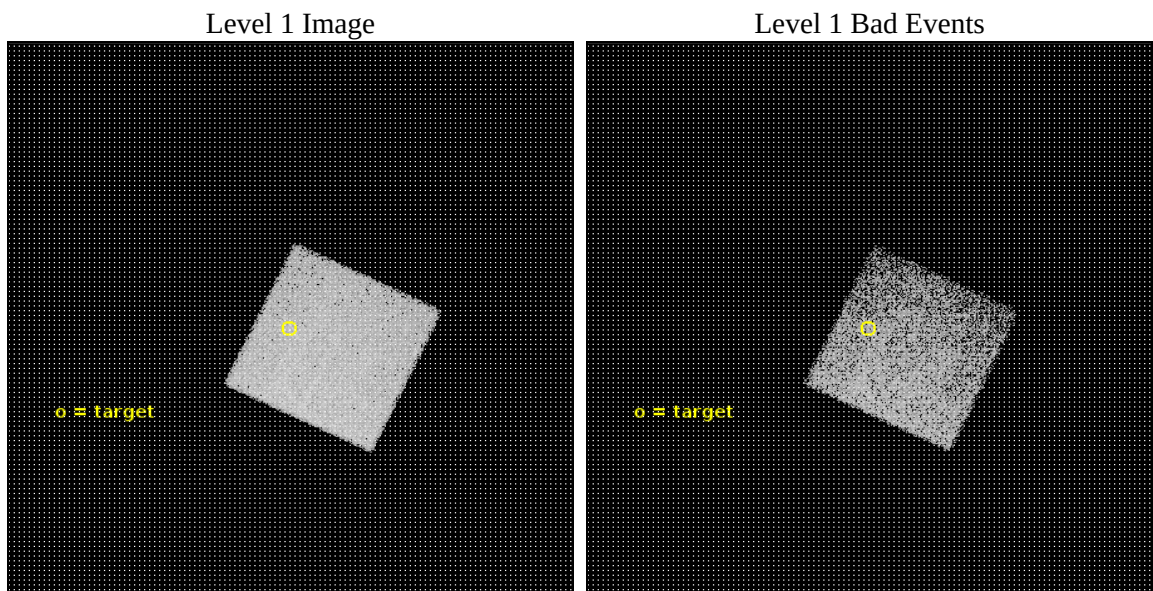
seq_num	703891	Sequence number
obs_id	22211	Observation id
title	Chandra-NuSTAR synergy in the NuSTAR serendipitous survey	Proposal
observer	Dr David Alexander	Principal investigator
object	Cen_X4_s4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	224.737595	Observer's specified target RA [deg]
dec_targ	-31.593185	Observer's specified target Dec [deg]
ra_nom	224.73673601501	Nominal RA [deg]
dec_nom	-31.590286244146	Nominal Dec [deg]
roll_nom	25.541858122138	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9960.0	Sum of GTIs [s]
livetime	9825.5859837424	Livetime [s]
ontime7	9960.0	Sum of GTIs [s]
l2events	40828	Number of level 2 events



2 OBI

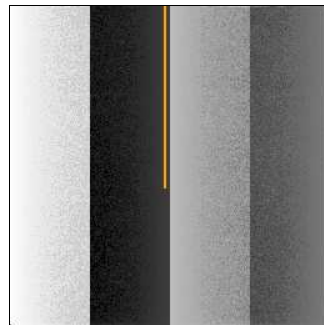
2.1 OBI

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	9960.0	Sum of GTIs [s]
caldsver	4.8.2	 	ontime7	9960.0	Sum of GTIs [s]
date	2019-04-30T05:54:23	Date and time of file creation	l1events	96682	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	96682
rejected events	54710
rejected %	56%

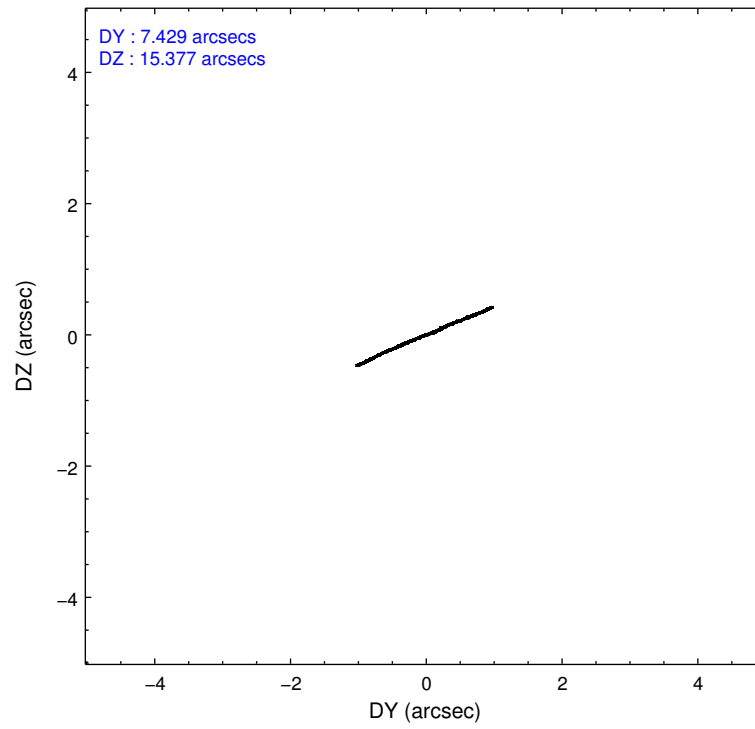
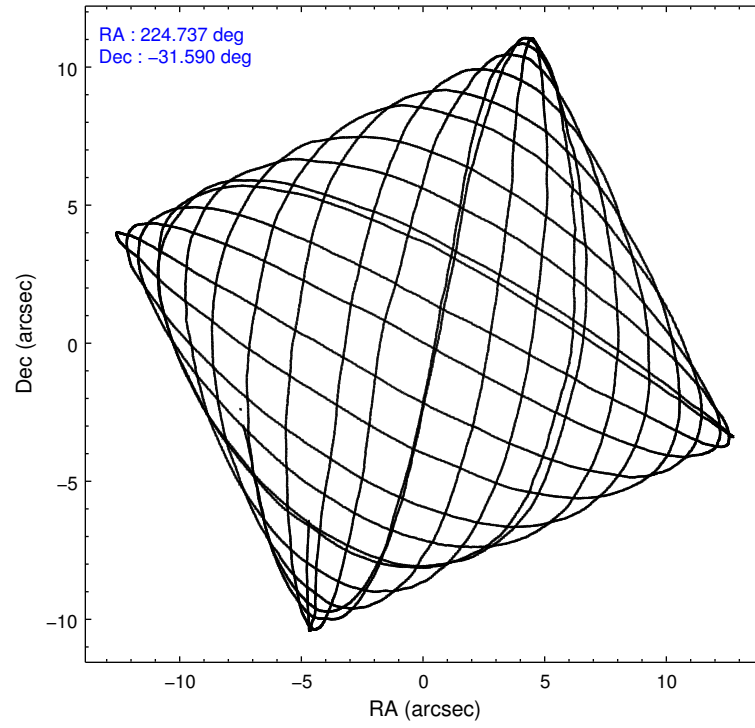
	ccd 7
grade 0 events	3403
	3%
grade 1 events	163
	0%
grade 2 events	8685
	8%
grade 3 events	3332
	3%
grade 4 events	3164
	3%
grade 5 events	8984
	9%
grade 6 events	23404
	24%
grade 7 events	45547
	47%

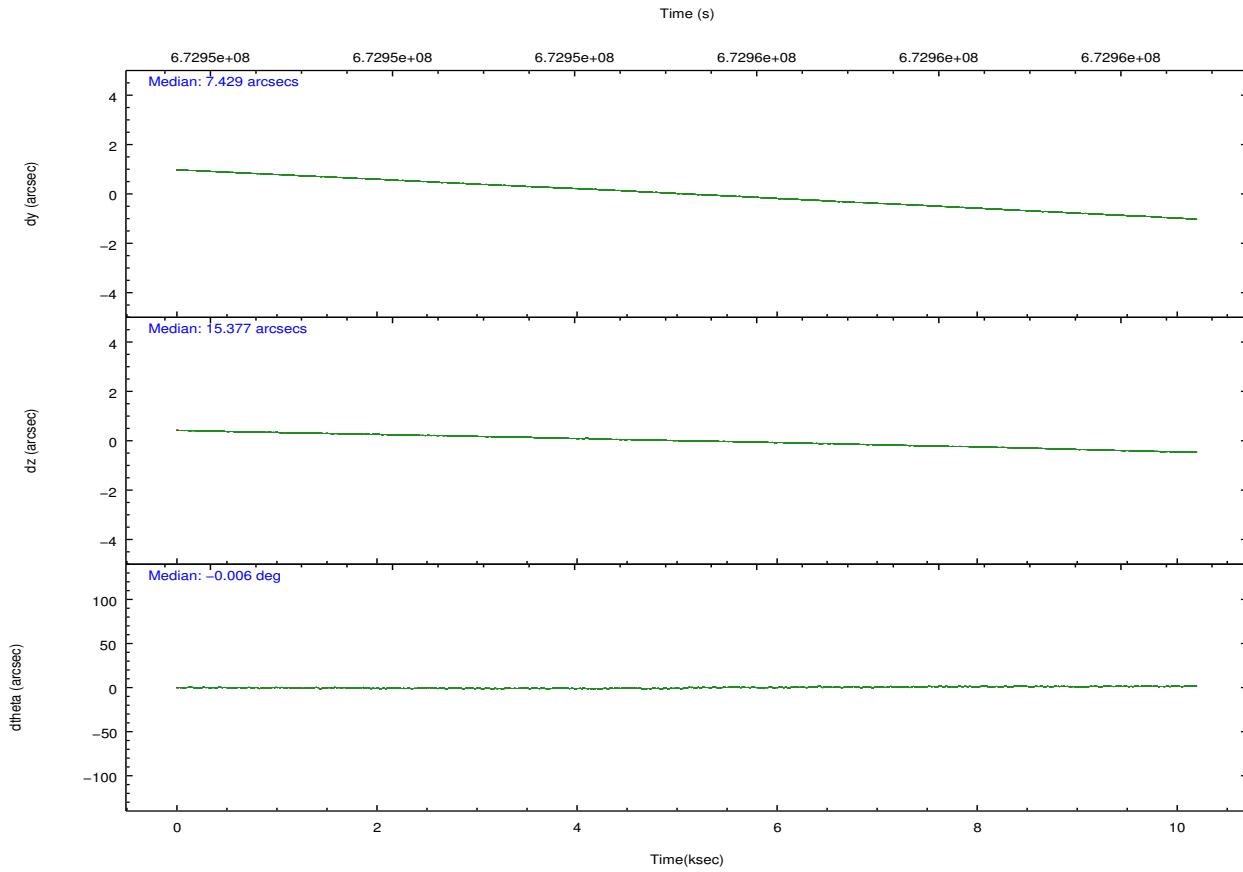
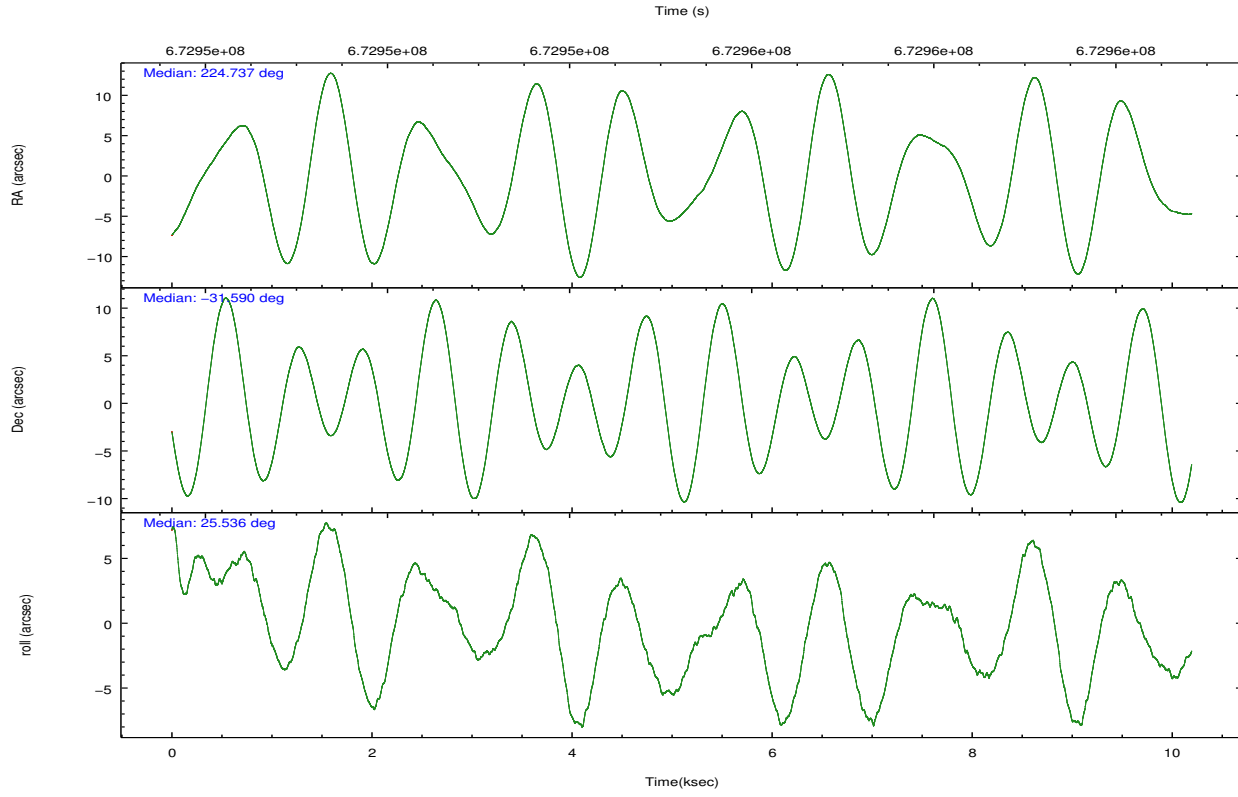
2.2 Compared Parameters

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	224.718883	224.7367360150076
[deg] Pointing Dec	-31.613064	-31.59028624414623
[deg] Pointing Roll	25.375878	25.54185812213796
[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)	672950337.184000	672949961.8131599
Observation start date	2019-04-29T18:37:48	2019-04-29T18:32:41
[s] Observation end time (MET)	672960337.184000	672961318.30134
Observation end date	2019-04-29T21:24:28	2019-04-29T21:41:58
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



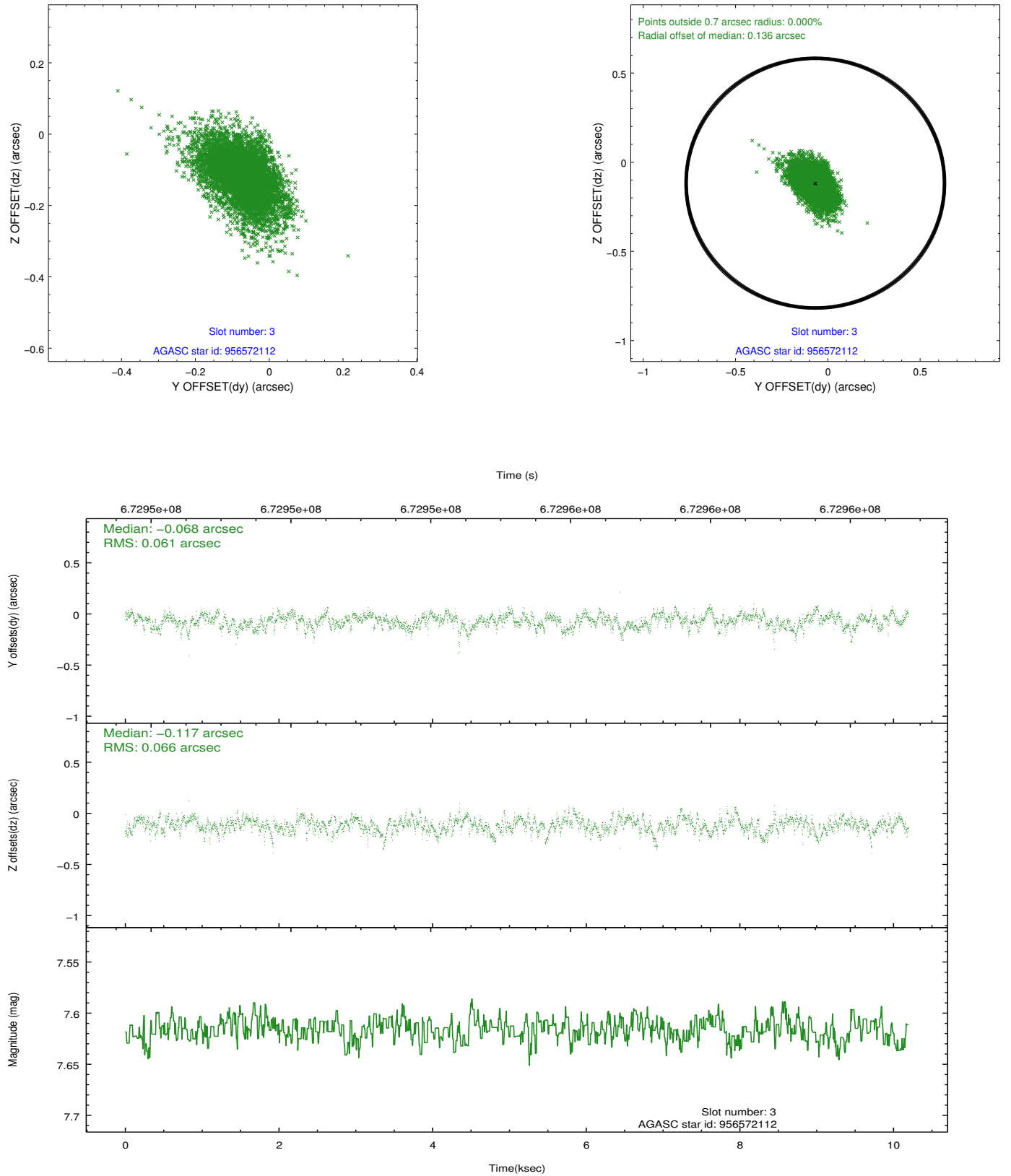


Slot Statistics

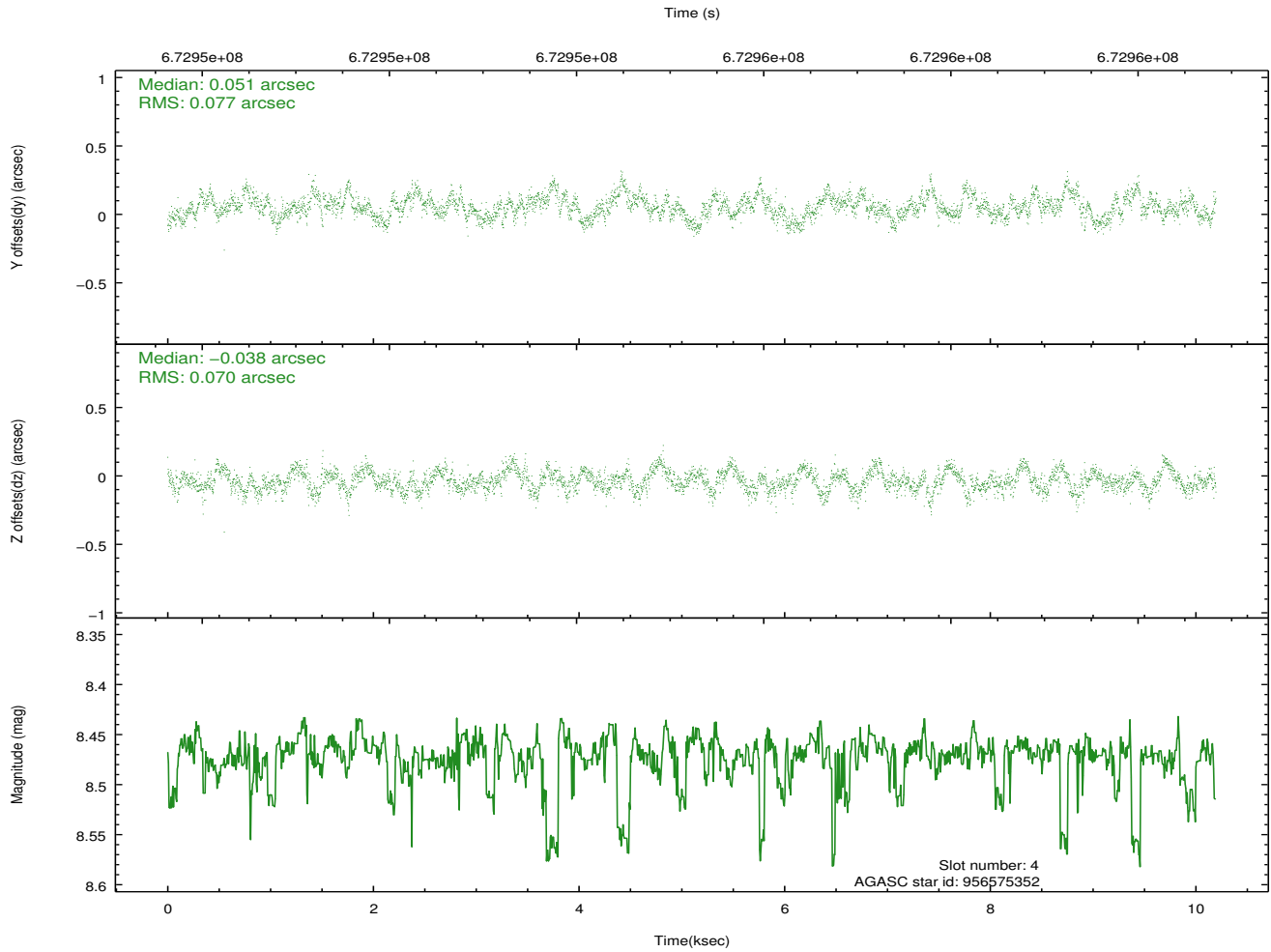
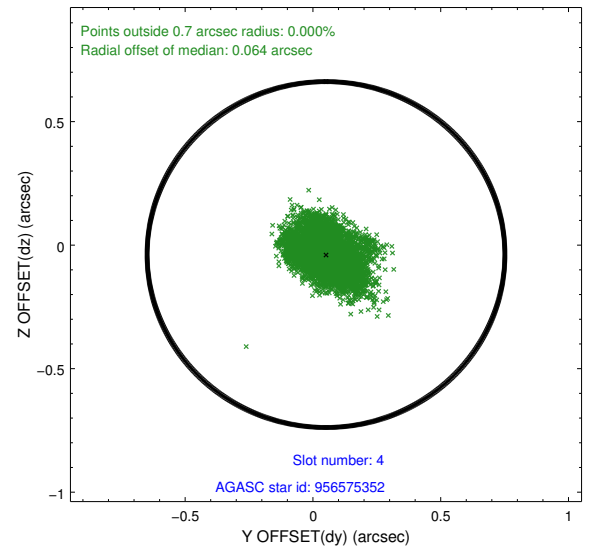
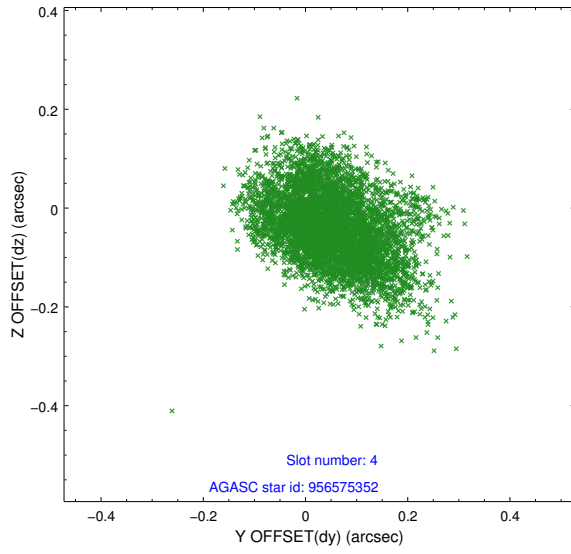
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2487	1.000	-0.287	-0.136	0.014	0.027	0.000000	0.000000	-760.40	-1736
1	FID		ACIS-S-4	7.25	2487	1.000	0.644	0.175	0.016	0.030	0.000000	0.000000	2153.50	171
2	FID		ACIS-S-5	7.21	2487	1.000	-0.387	-0.032	0.028	0.043	0.000000	0.000000	-1812.75	165
3	GUIDE	used	956572112	7.62	4974	1.000	-0.068	-0.117	0.093	0.161	223.861077	-31.418161	-2085.10	1754
4	GUIDE	used	956575352	8.47	4968	1.000	0.051	-0.038	0.112	0.178	223.873030	-31.529443	-2220.43	1375
5	GUIDE	used	956577088	8.20	4972	1.000	0.155	0.217	0.109	0.173	224.540686	-31.774008	-741.14	-289
6	GUIDE	used	958268416	8.04	4974	1.000	-0.007	0.002	0.154	0.227	225.452857	-31.544029	2137.46	-747
7	GUIDE	used	958269912	7.84	4973	1.000	-0.136	-0.052	0.095	0.155	225.559711	-31.591502	2358.40	-1043

2.4 Star Slots

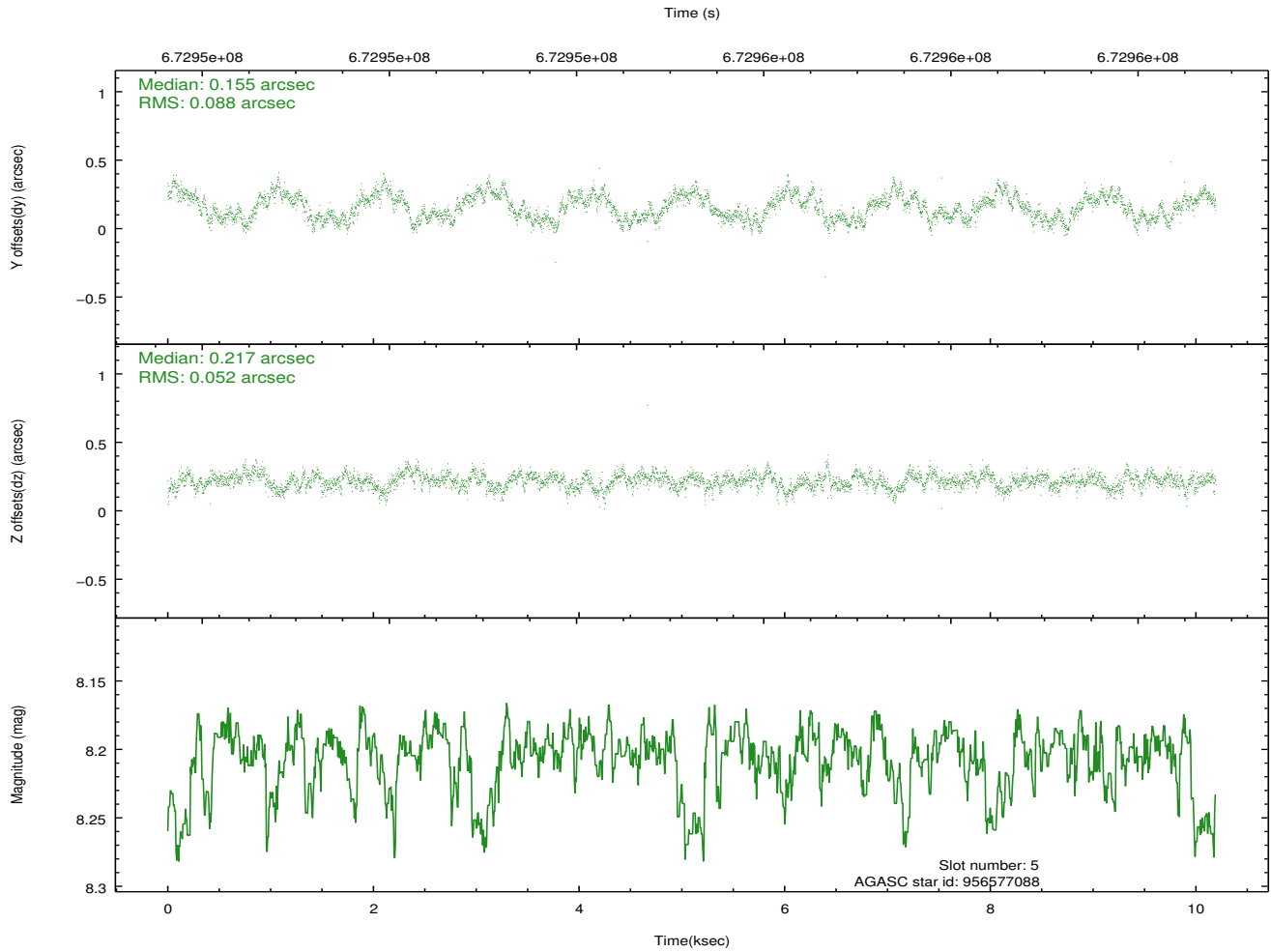
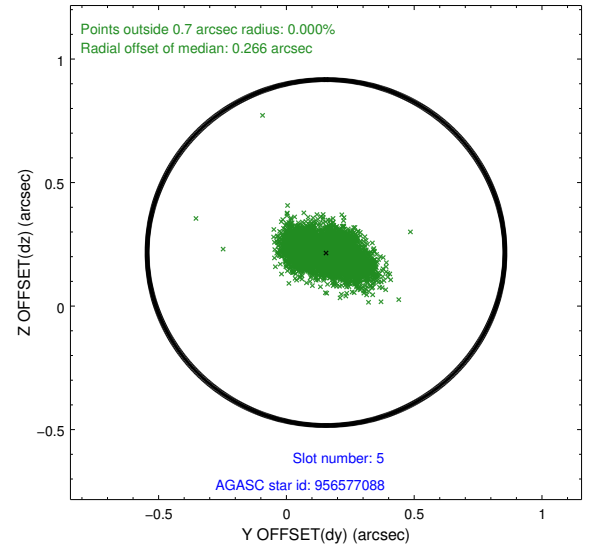
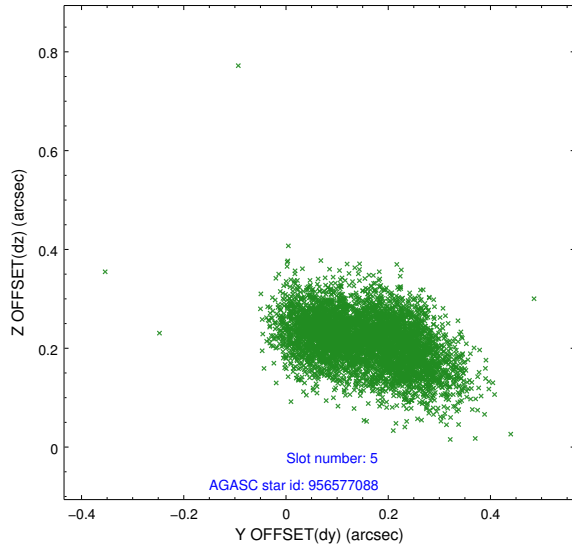
2.4.1 Slot 3



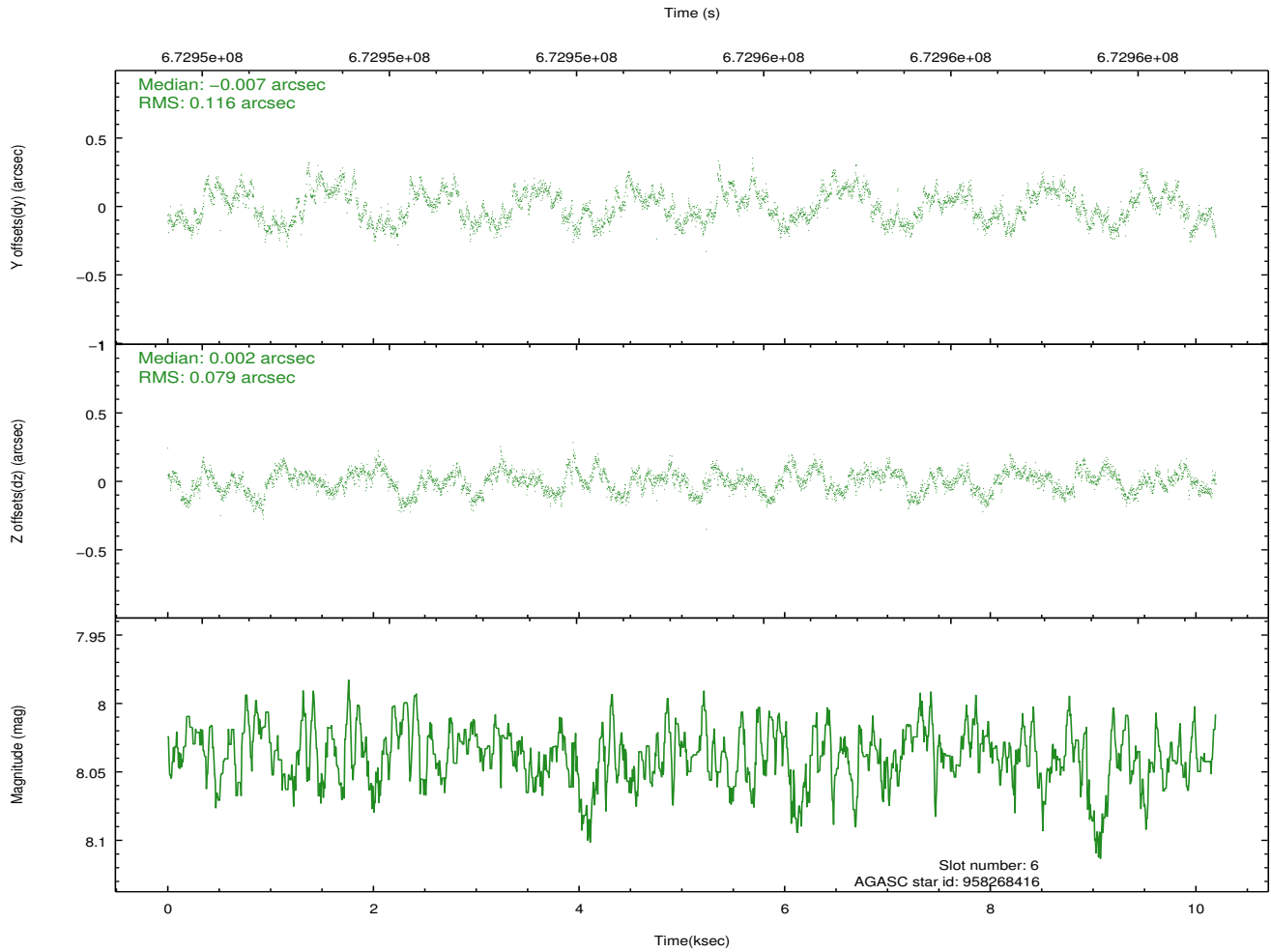
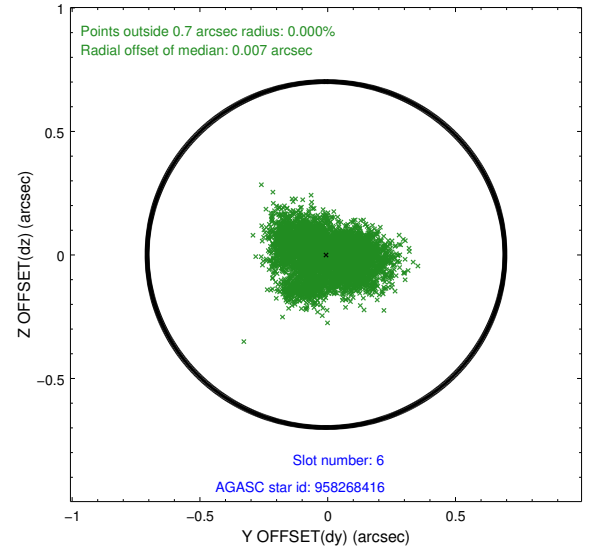
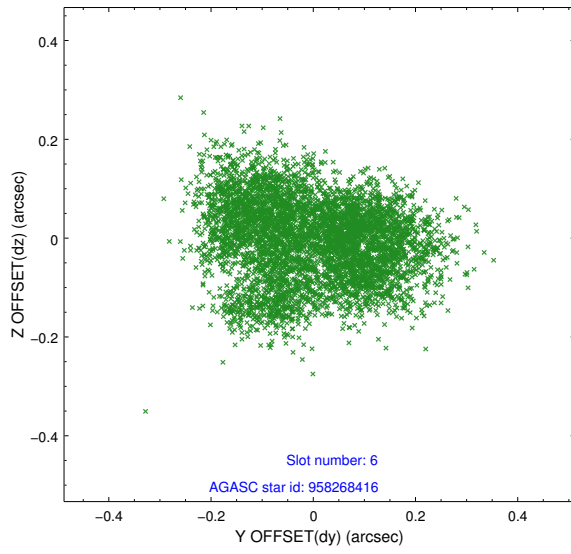
2.4.2 Slot 4



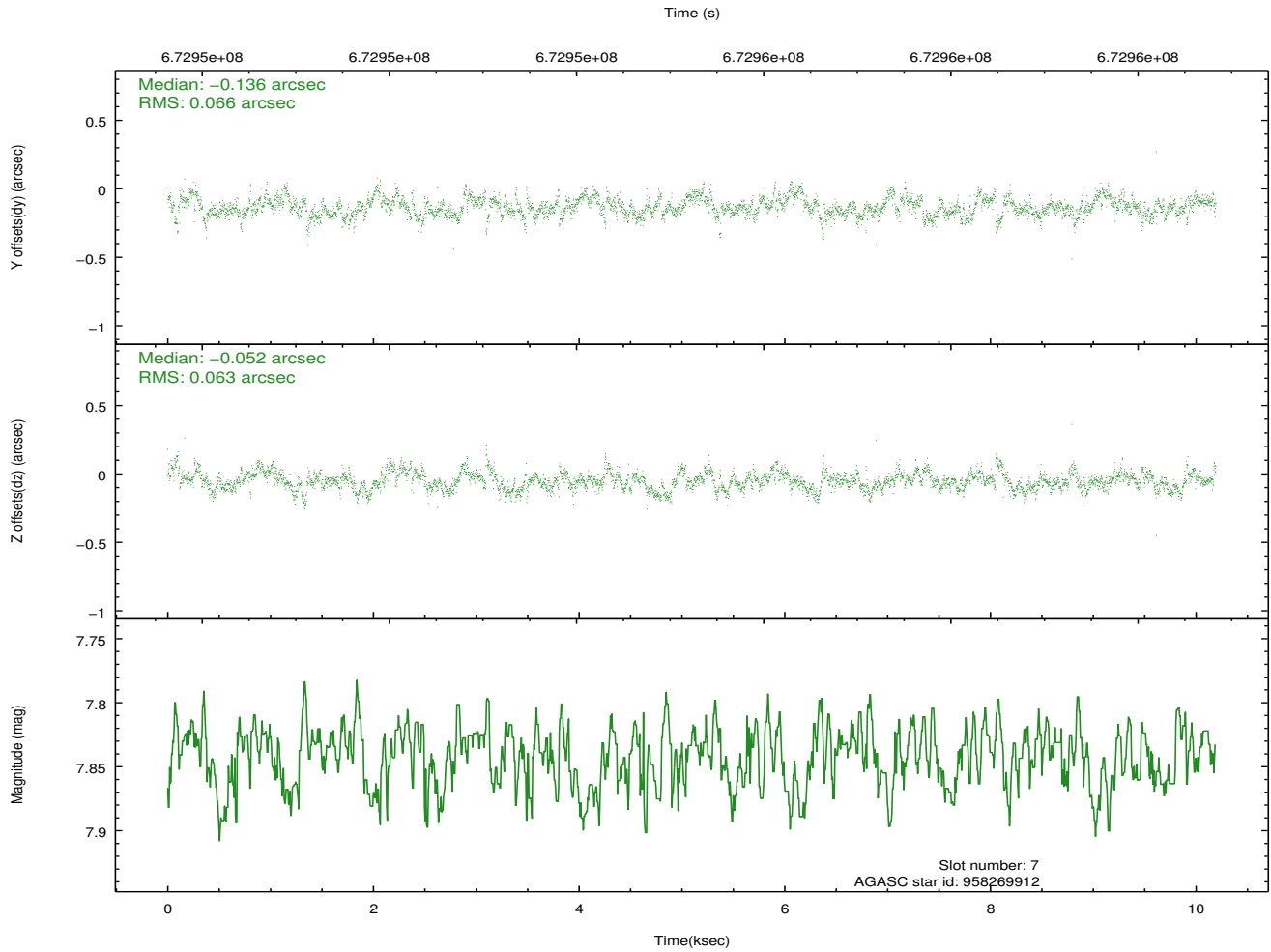
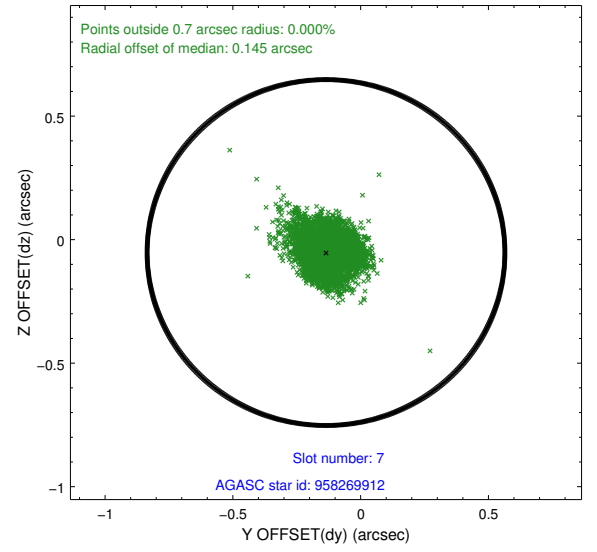
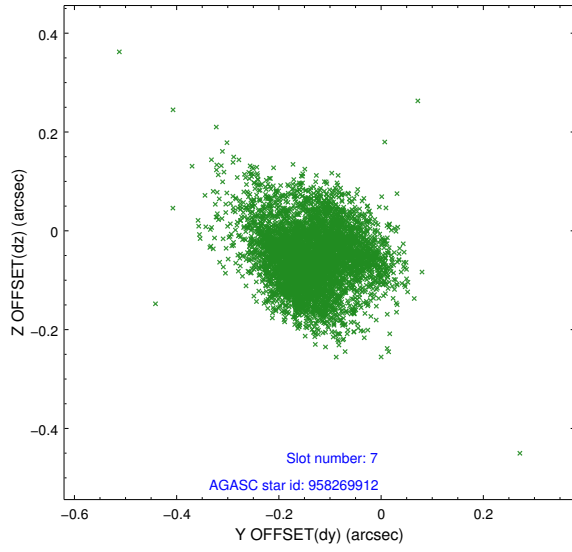
2.4.3 Slot 5



2.4.4 Slot 6

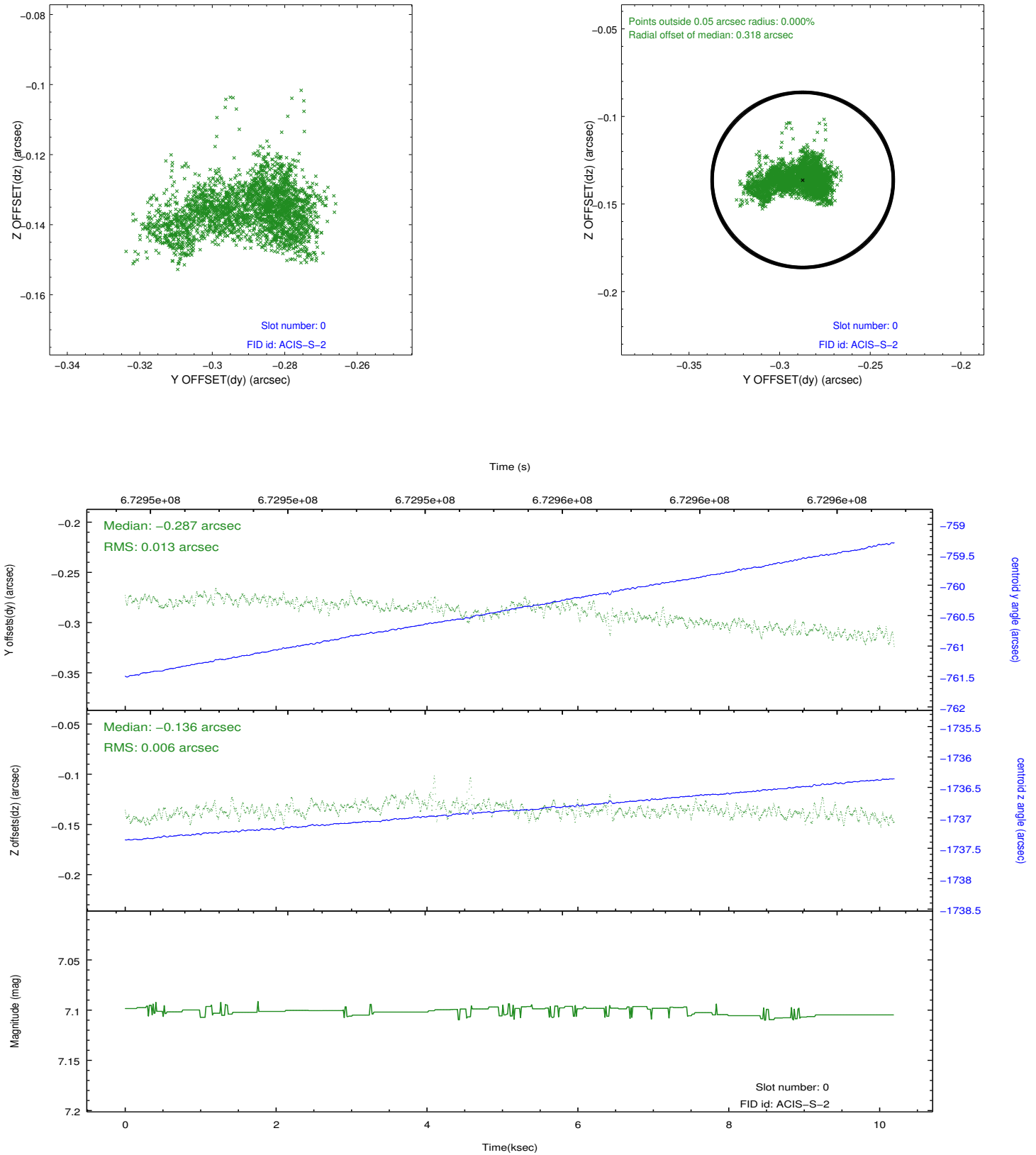


2.4.5 Slot 7

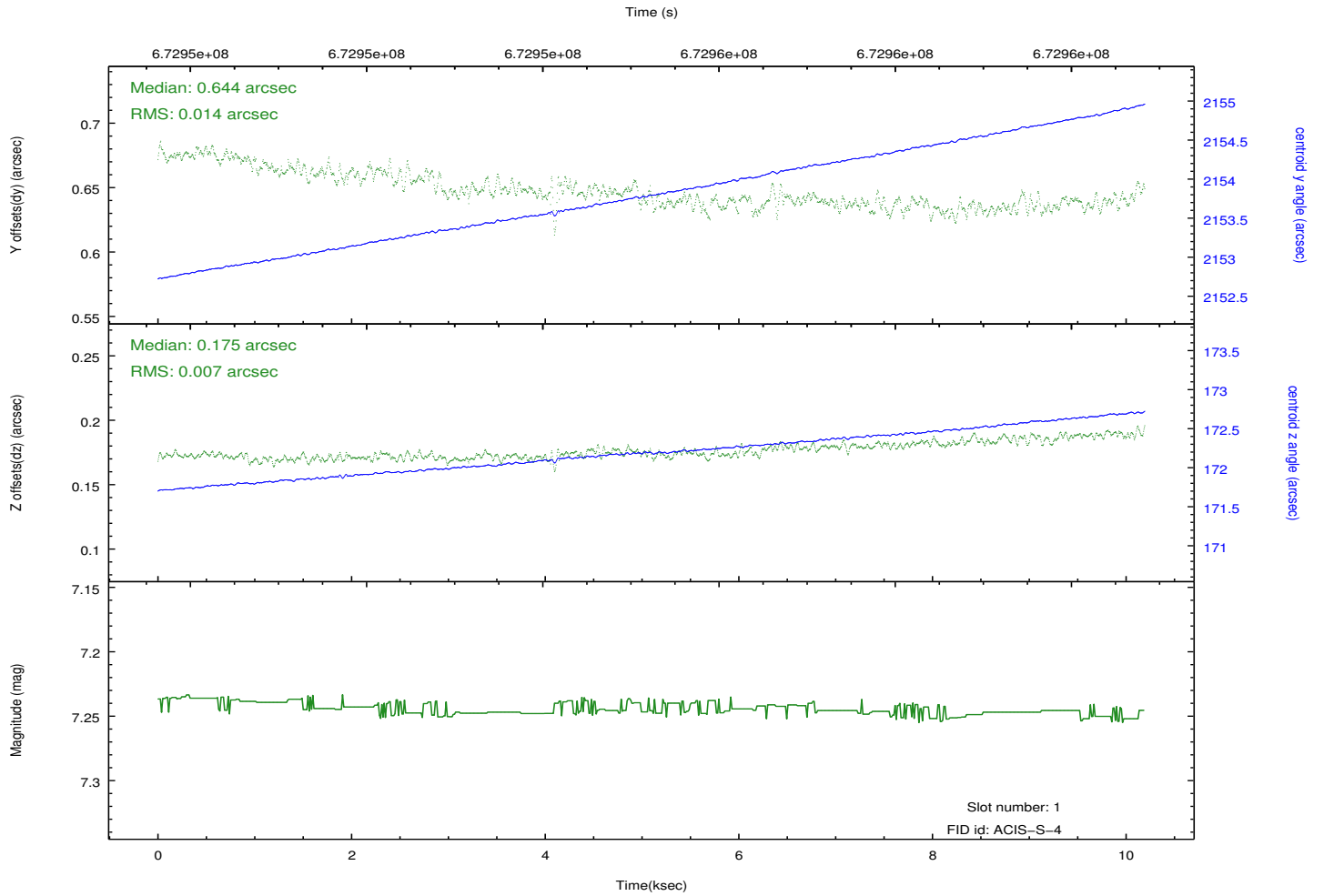
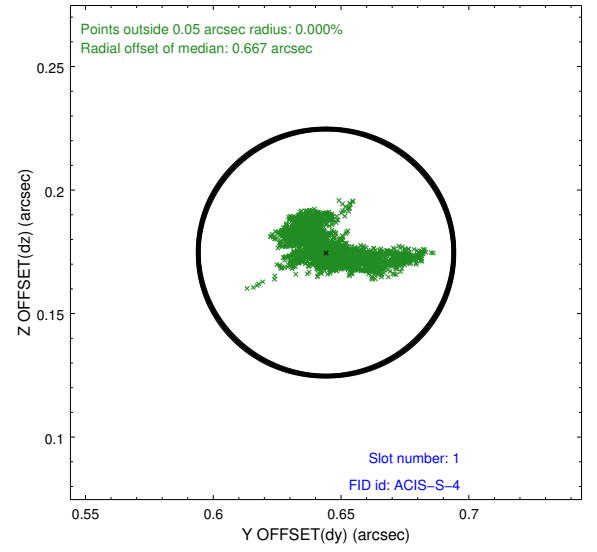
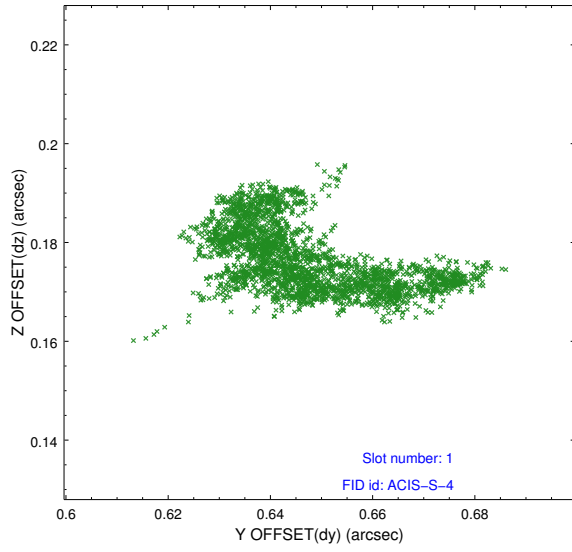


2.5 FID Slots

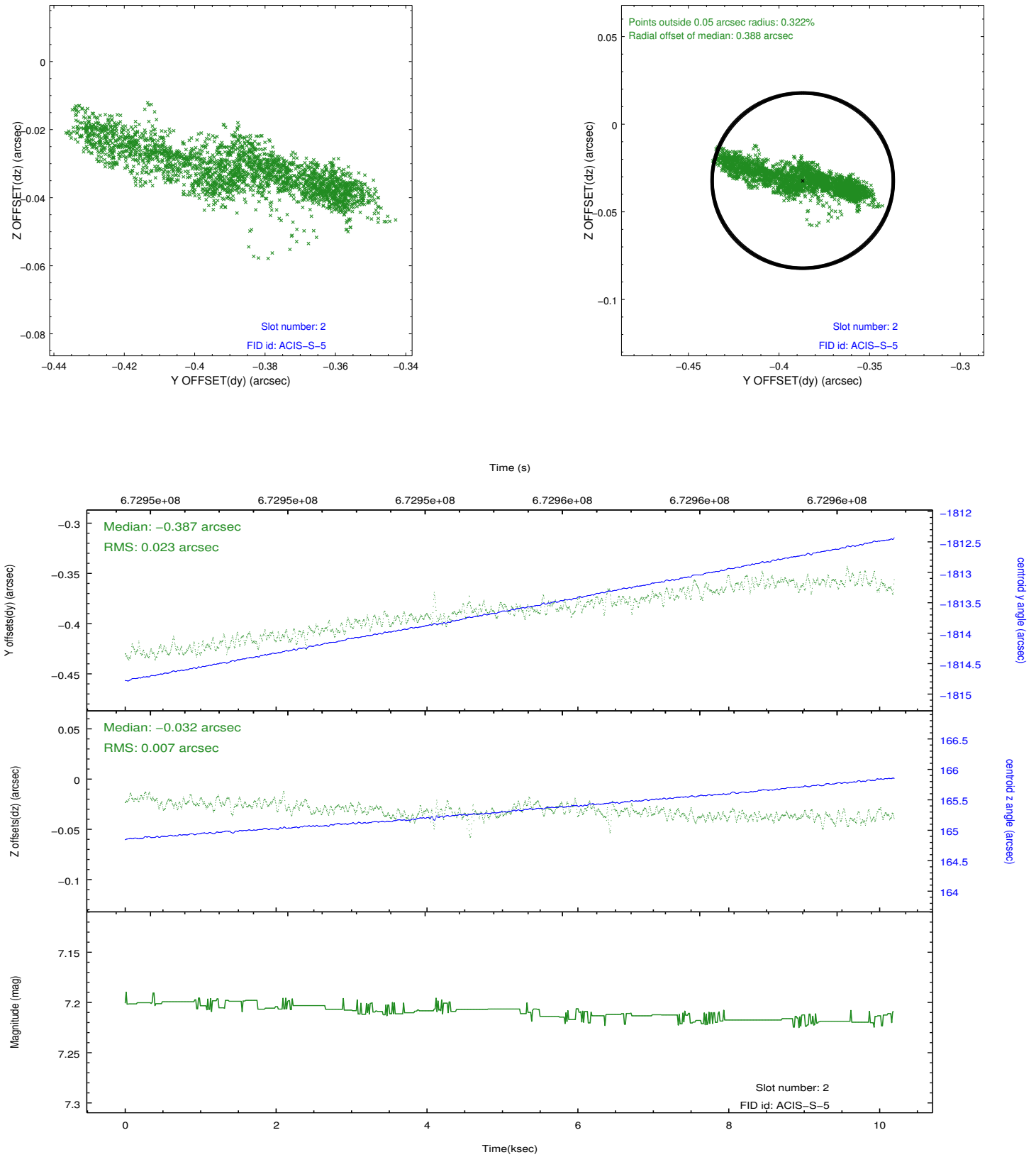
2.5.1 Slot 0



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	9.96

A.2 Comments