

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 22269 - L2 Version 1
Chandra X-Ray Center

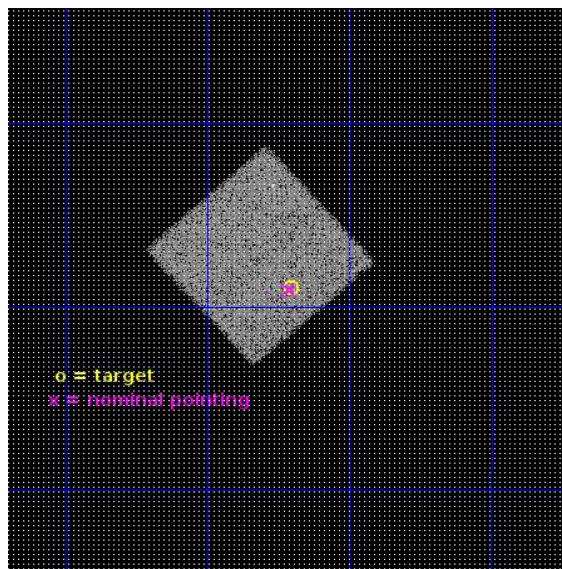
L2 Processing Date : Jun 28 2019

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

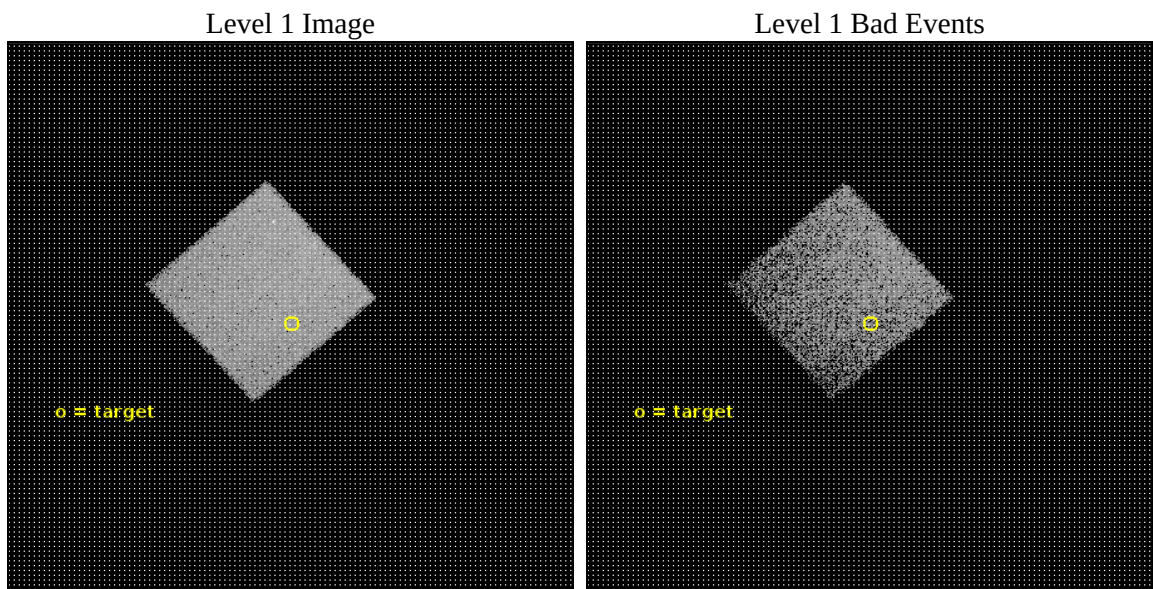
seq_num	703907	Sequence number
obs_id	22269	Observation id
title	Chandra-NuSTAR synergy in the NuSTAR serendipitous survey	Proposal
observer	Dr David Alexander	Principal investigator
object	MCG_01_24_012_s2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	140.175797	Observer's specified target RA [deg]
dec_targ	-8.149342	Observer's specified target Dec [deg]
ra_nom	140.17790823854	Nominal RA [deg]
dec_nom	-8.1509981979129	Nominal Dec [deg]
roll_nom	228.15690329326	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	40772	Number of level 2 events



2 OBI

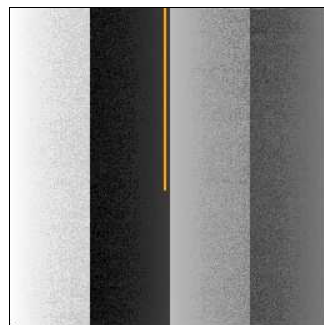
2.1 OBI

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	10.8	Processing system revision	ontime	9960.0	Sum of GTIs [s]
caldsver	4.8.3	 	ontime7	9960.0	Sum of GTIs [s]
date	2019-06-28T04:57:18	Date and time of file creation	l1events	96938	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	96938
rejected events	54880
rejected %	56%

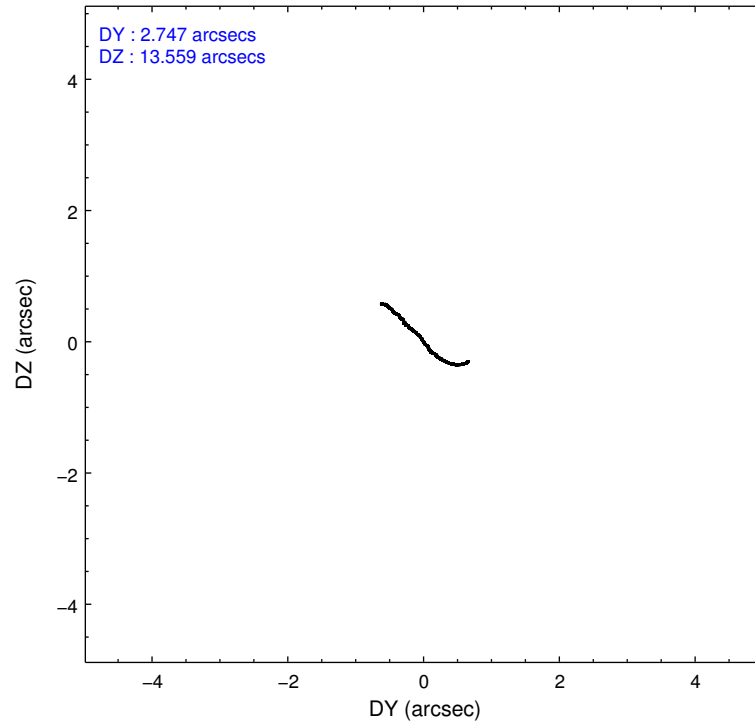
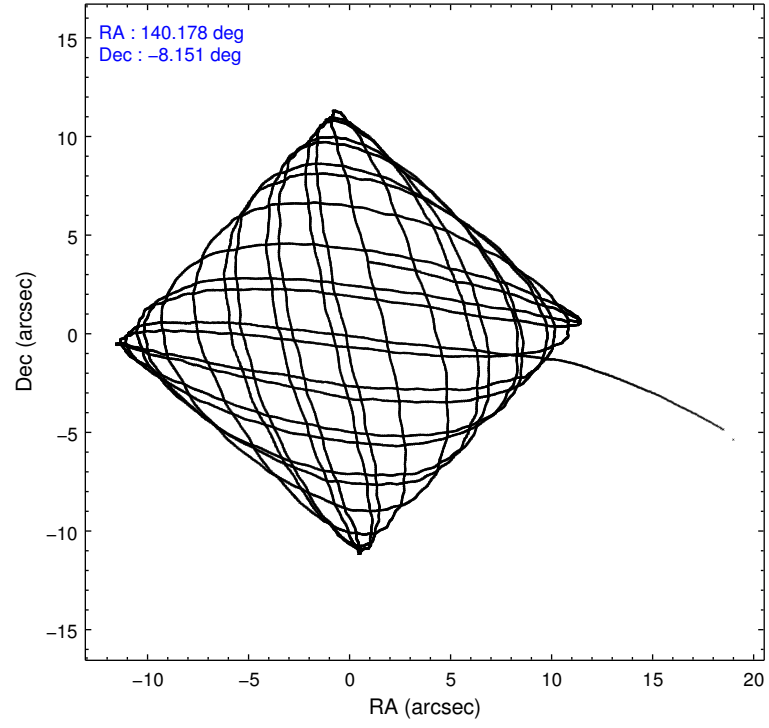
	ccd 7
grade 0 events	3572
	3%
grade 1 events	157
	0%
grade 2 events	8695
	8%
grade 3 events	3306
	3%
grade 4 events	3230
	3%
grade 5 events	9062
	9%
grade 6 events	23275
	24%
grade 7 events	45641
	47%

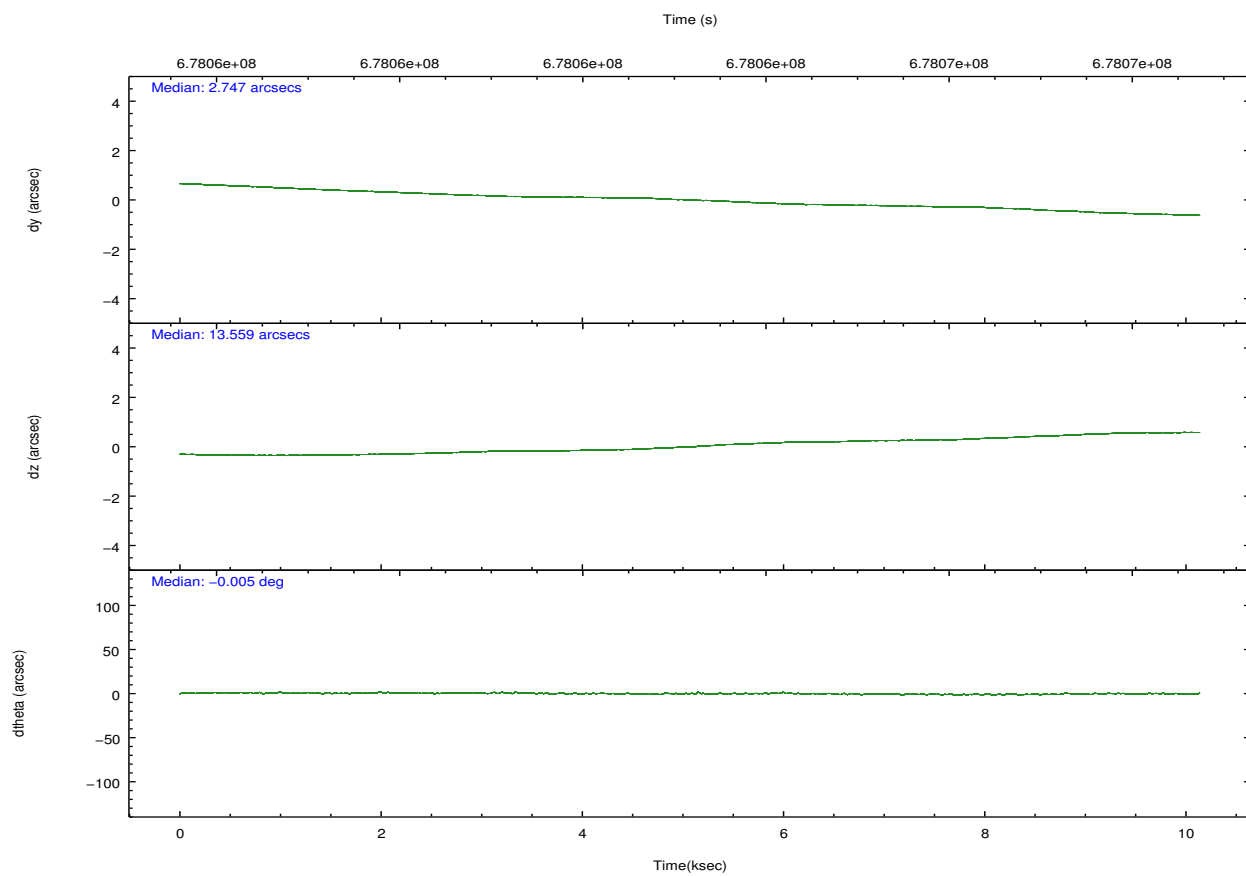
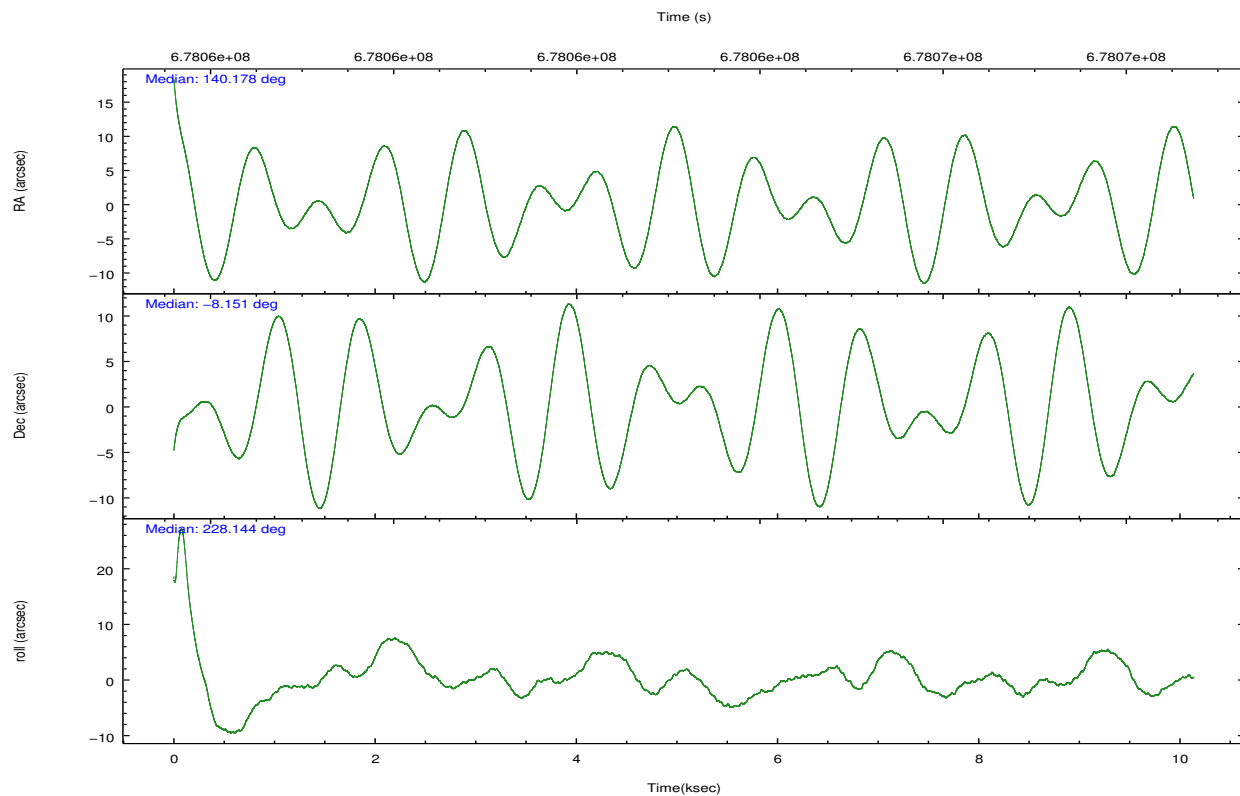
2.2 Compared Parameters

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	140.183200	140.1779082385386
[deg] Pointing Dec	-8.124062	-8.150998197912861
[deg] Pointing Roll	228.001053	228.1569032932639
[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)	678058223.184000	678056916.48186
Observation start date	2019-06-27T21:29:14	2019-06-27T21:08:36
[s] Observation end time (MET)	678068223.184000	678069356.9076101
Observation end date	2019-06-28T00:15:54	2019-06-28T00:35:56
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



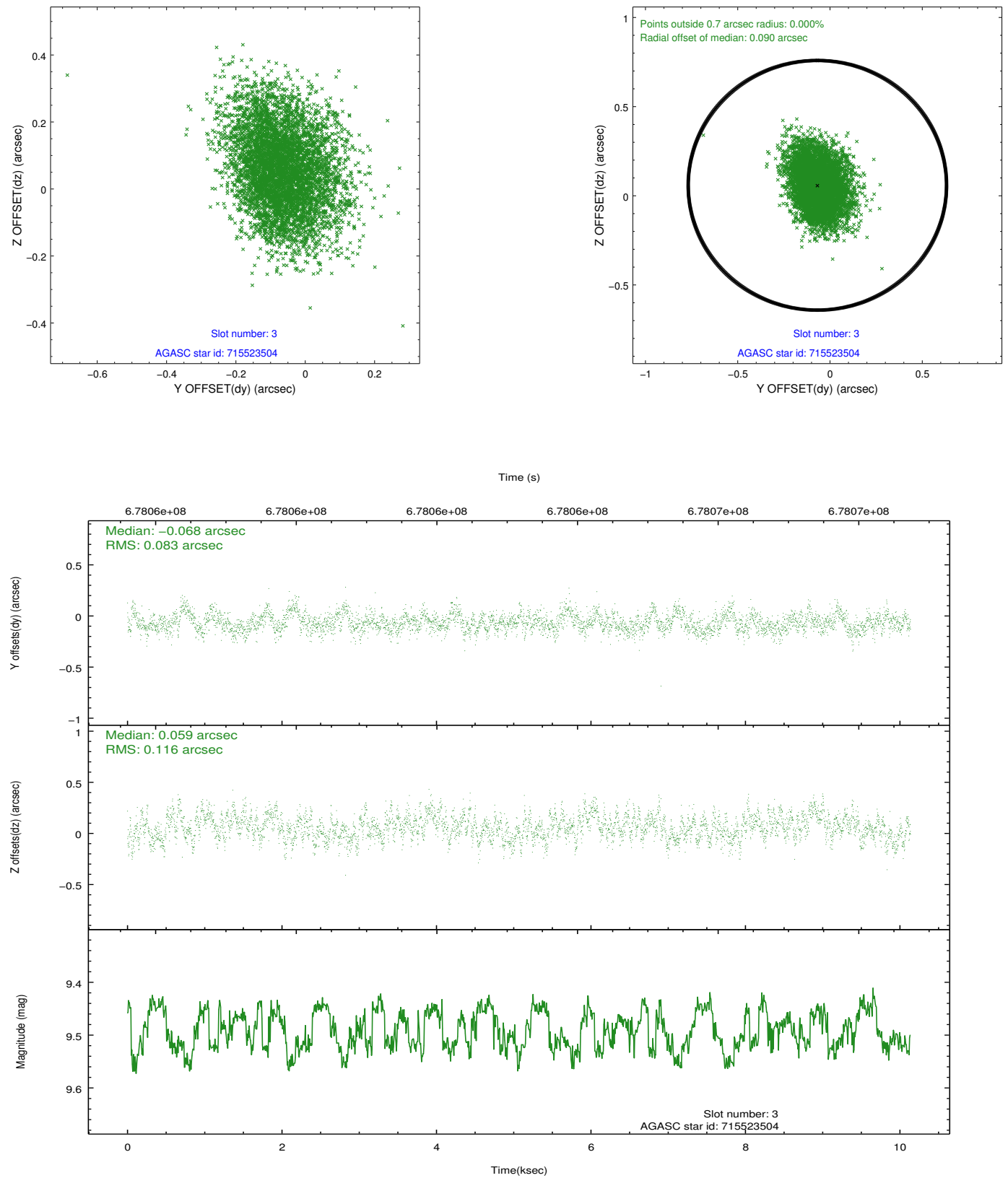


Slot Statistics

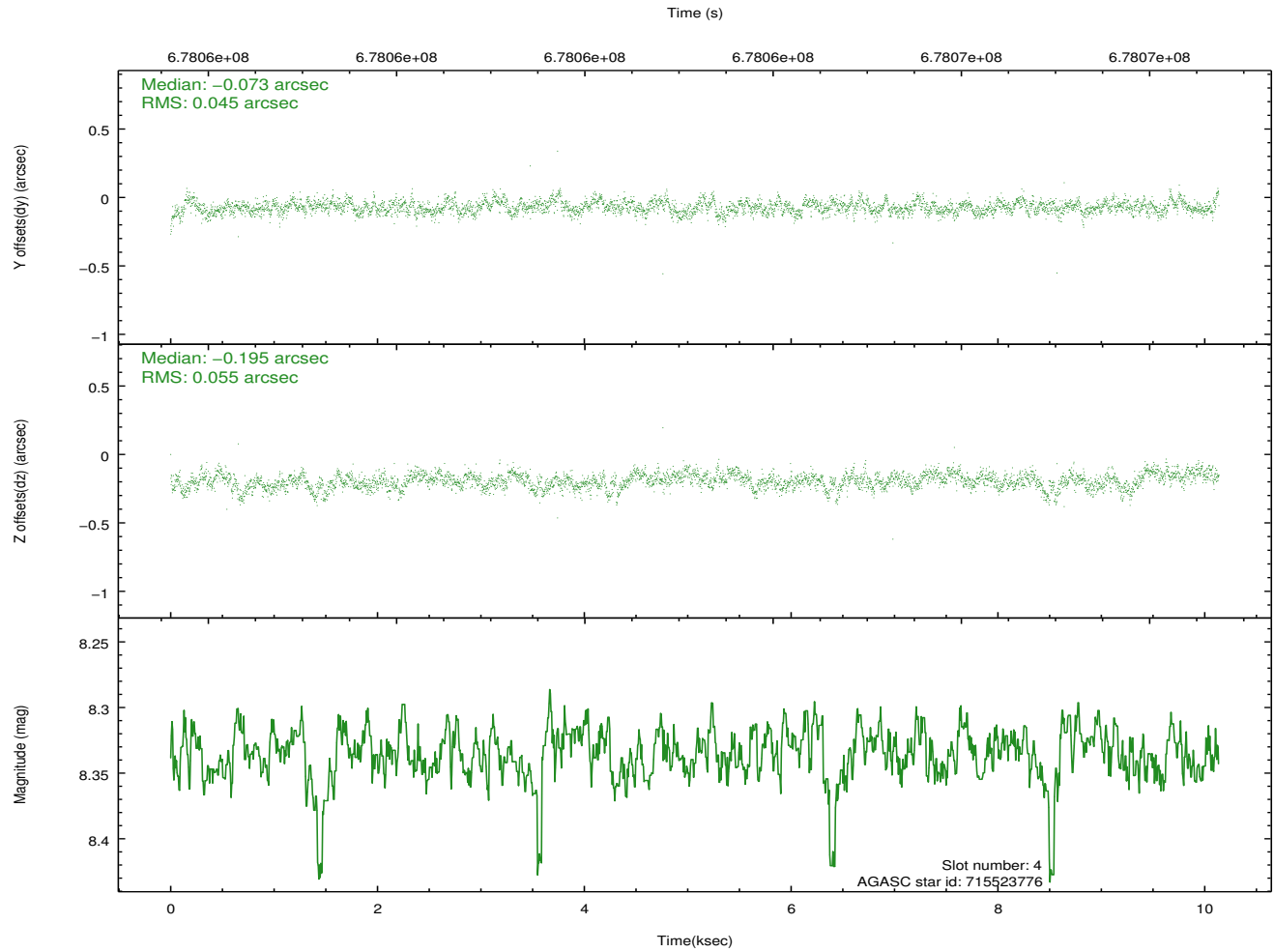
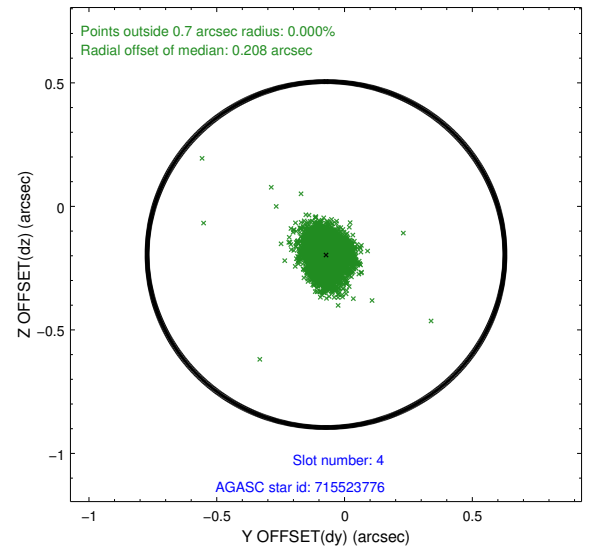
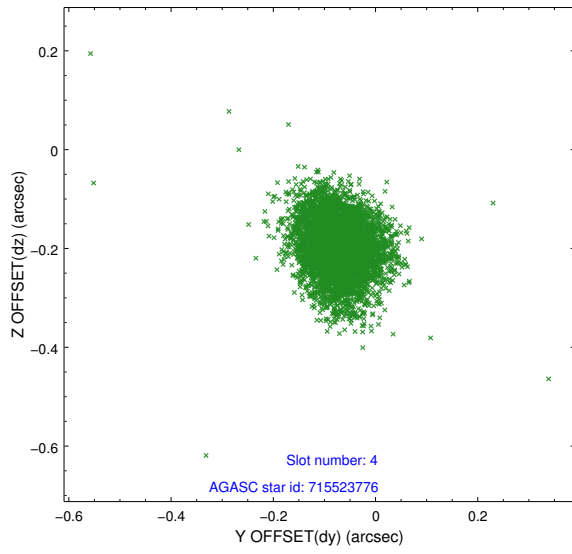
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.09	2473	1.000	-0.211	-0.125	0.014	0.026	0.000000	0.000000	-755.56	-1735
1	FID		ACIS-S-4	7.22	2472	1.000	0.520	0.135	0.009	0.016	0.000000	0.000000	2158.19	173
2	FID		ACIS-S-5	7.21	2471	1.000	-0.342	-0.001	0.018	0.029	0.000000	0.000000	-1807.88	167
3	GUIDE	used	715523504	9.49	4936	1.000	-0.068	0.059	0.152	0.248	139.897215	-7.902163	89.34	-1291
4	GUIDE	used	715523776	8.34	4943	1.000	-0.073	-0.195	0.074	0.121	140.468774	-8.410026	84.89	1444
5	GUIDE	used	715524288	7.56	4944	1.000	0.038	0.041	0.105	0.164	140.184752	-7.730140	-1054.97	-945
6	GUIDE	used	715527272	8.96	4942	1.000	0.021	-0.105	0.128	0.215	140.736457	-8.070845	-1460.86	1337
7	GUIDE	used	715522912	9.09	4939	1.000	0.081	0.204	0.103	0.167	140.163811	-7.698885	-1088.82	-1076

2.4 Star Slots

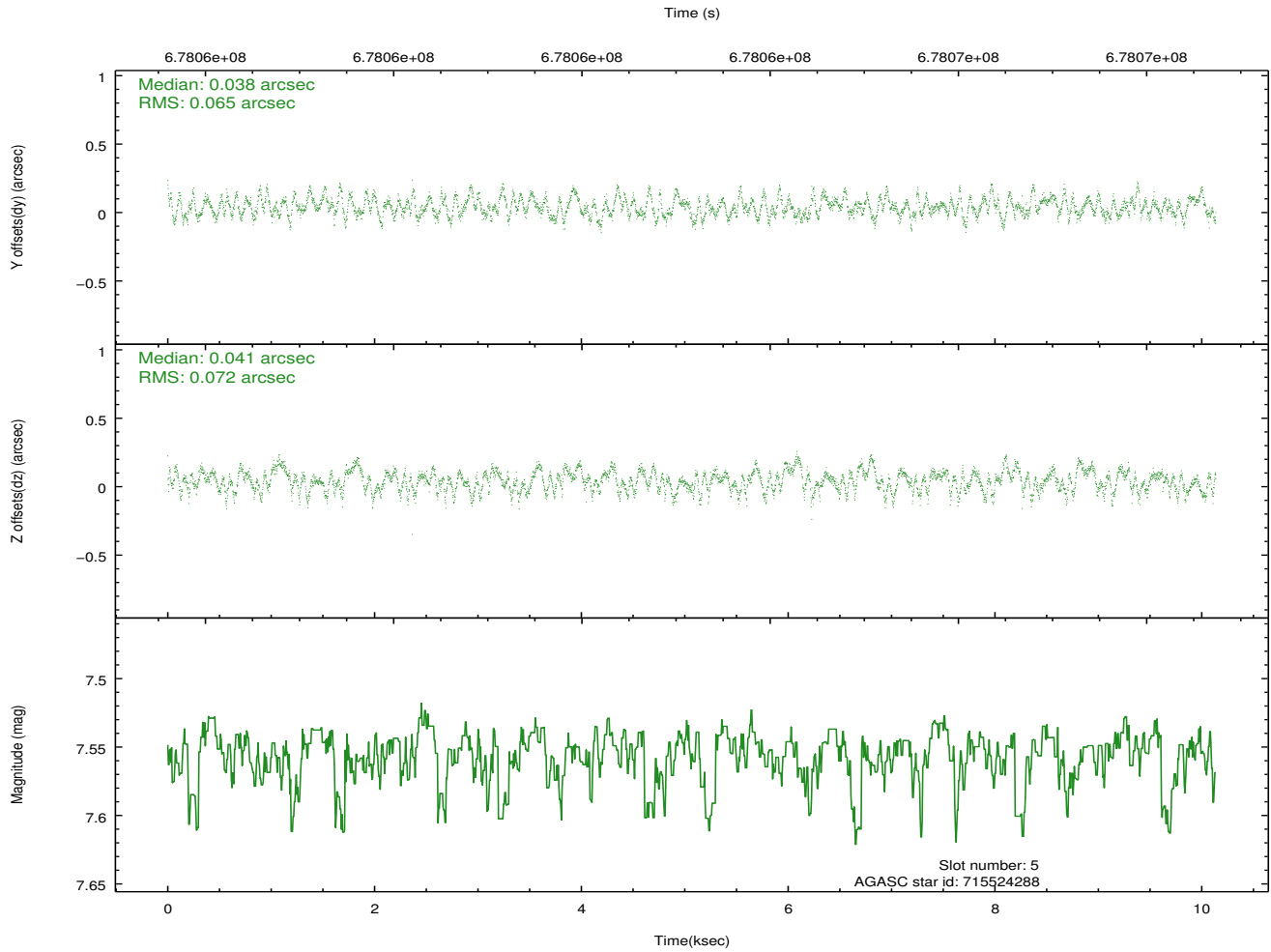
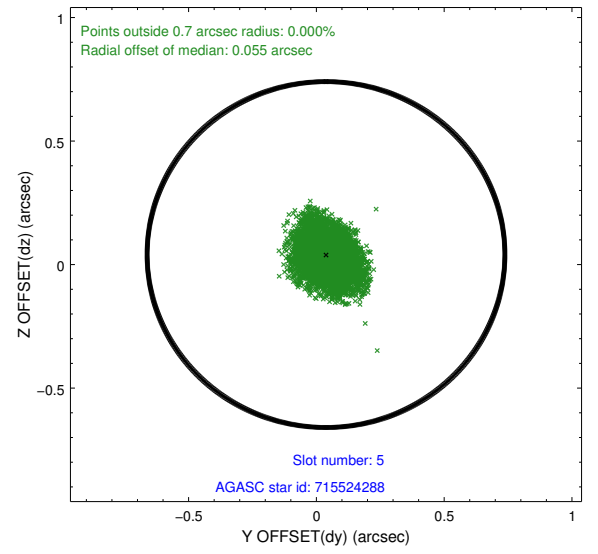
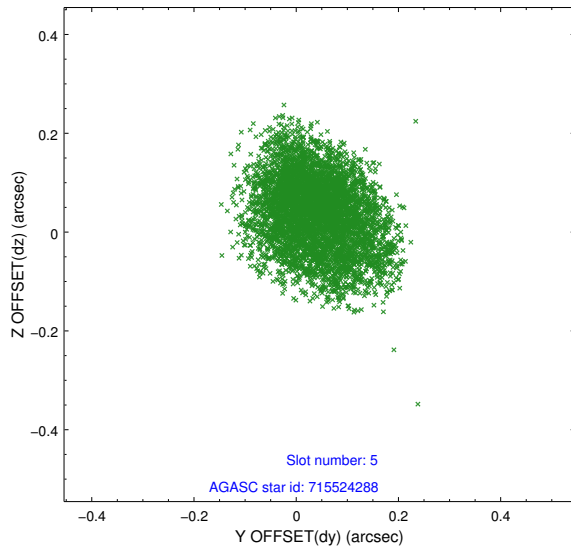
2.4.1 Slot 3



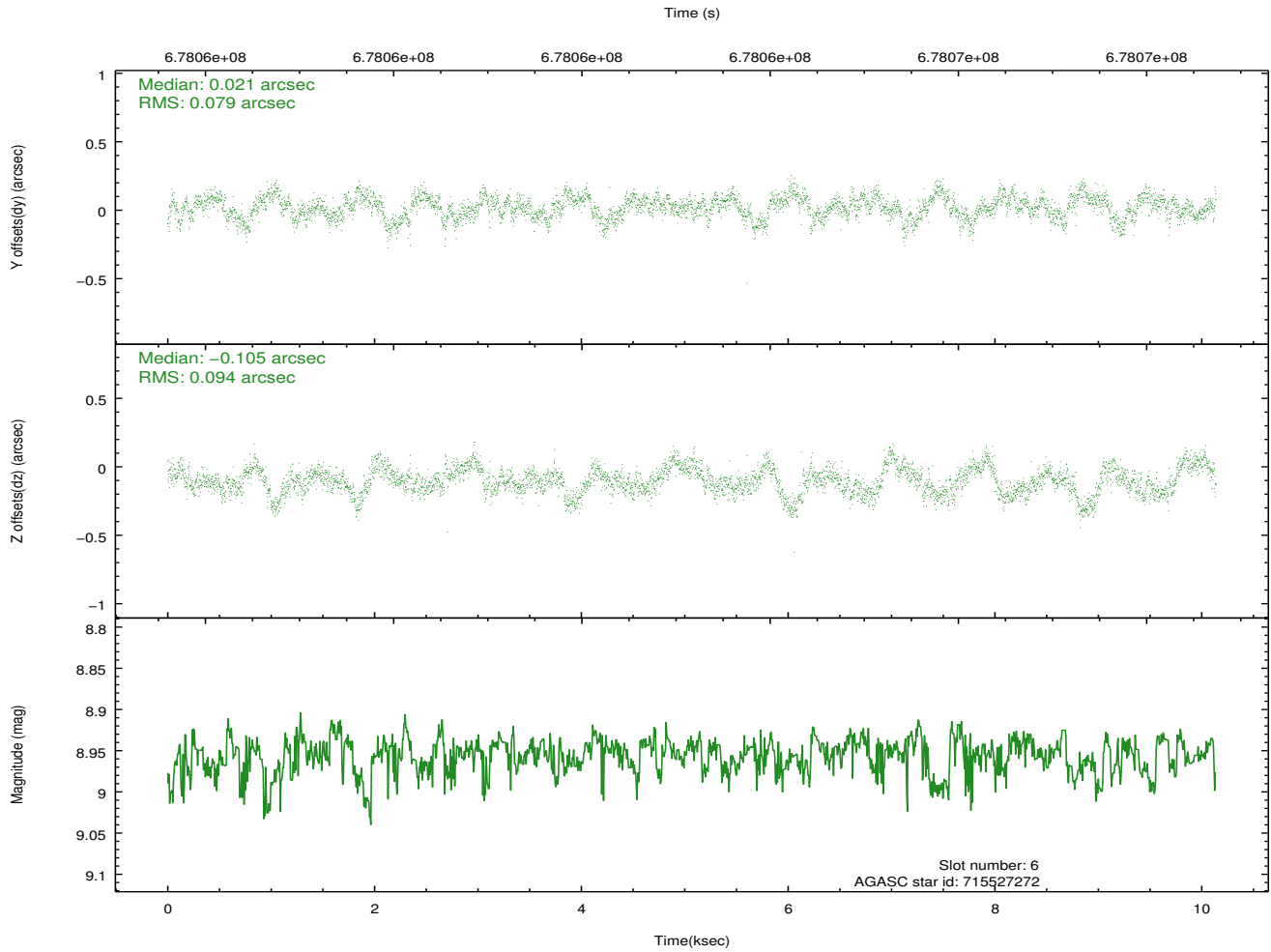
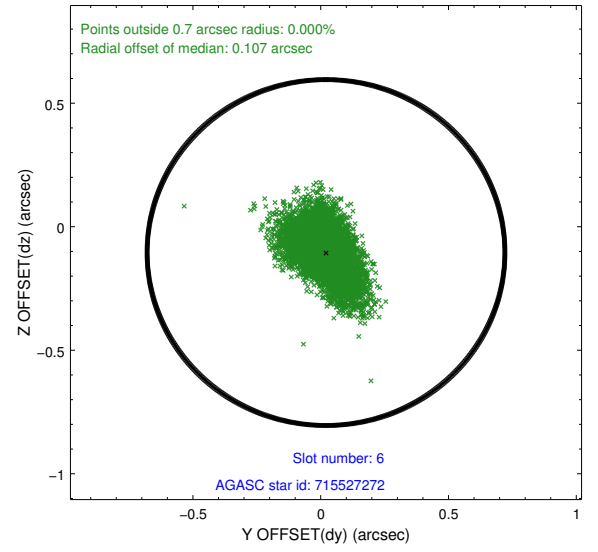
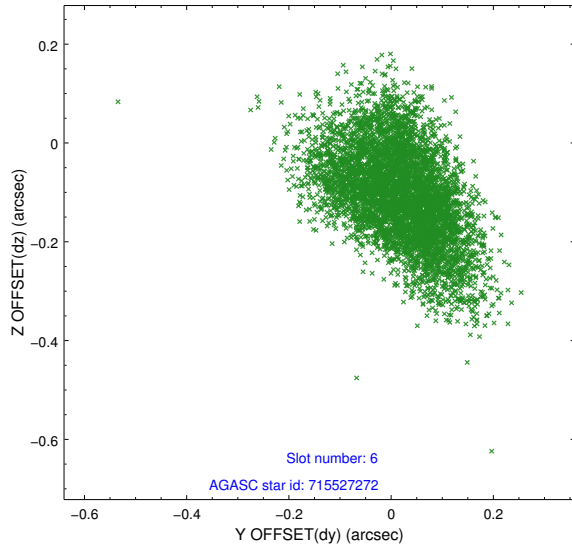
2.4.2 Slot 4



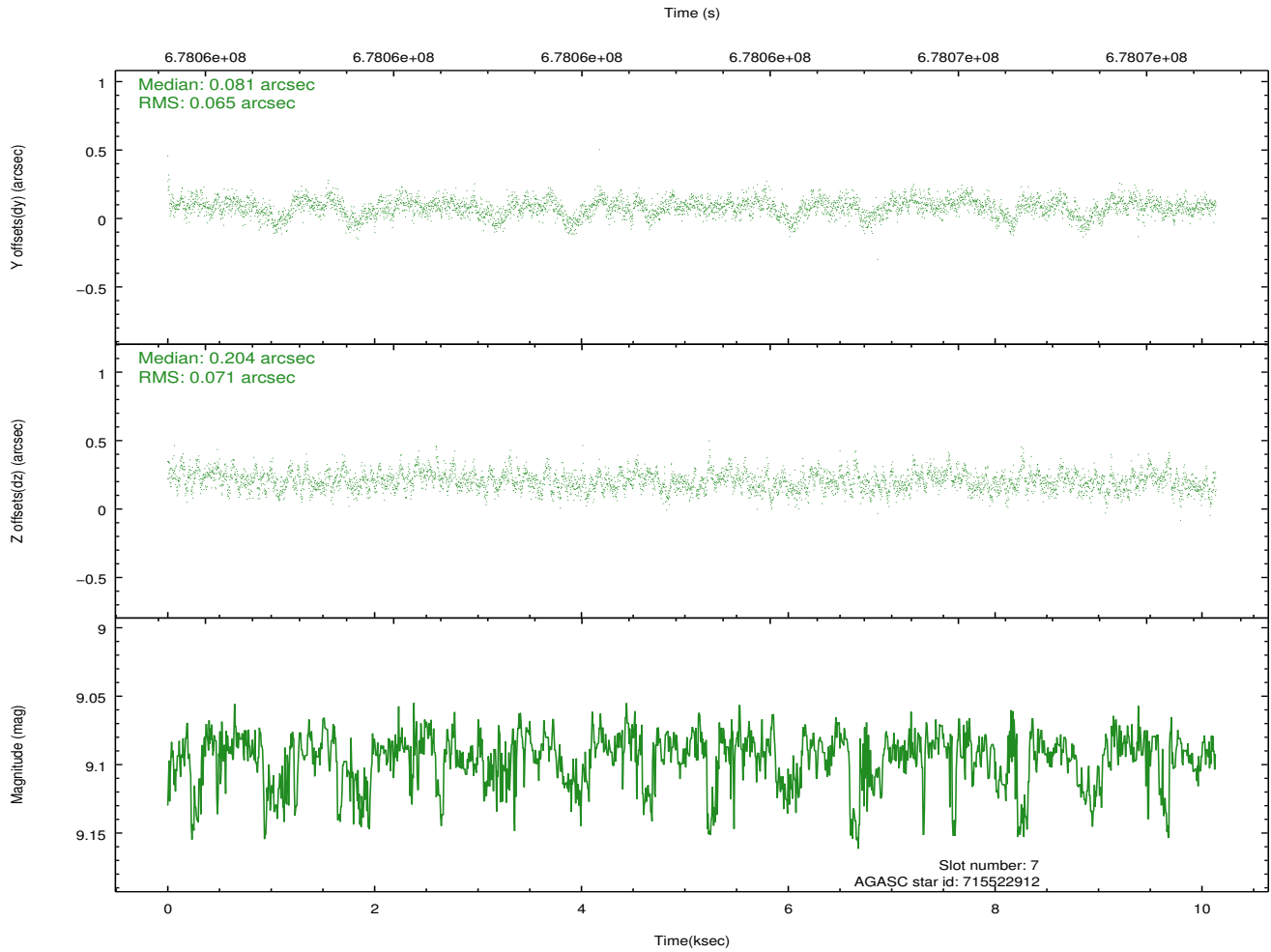
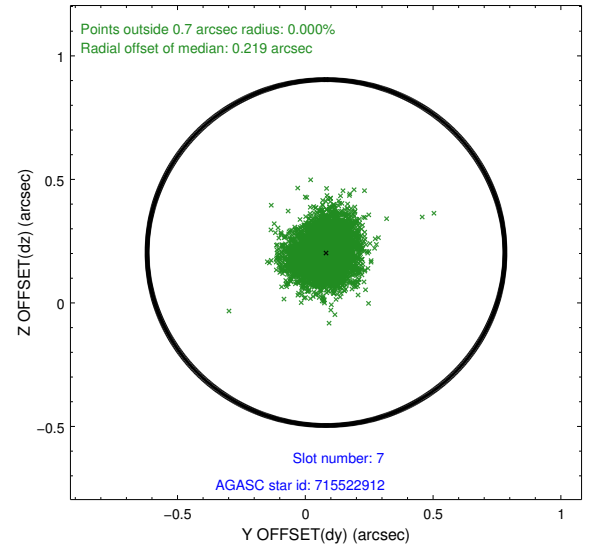
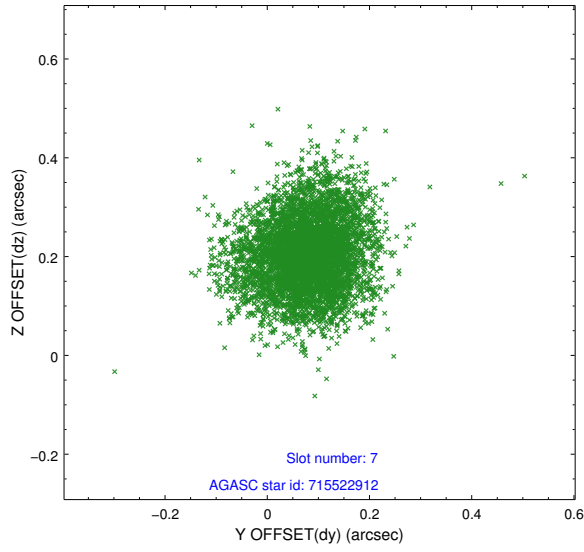
2.4.3 Slot 5



2.4.4 Slot 6

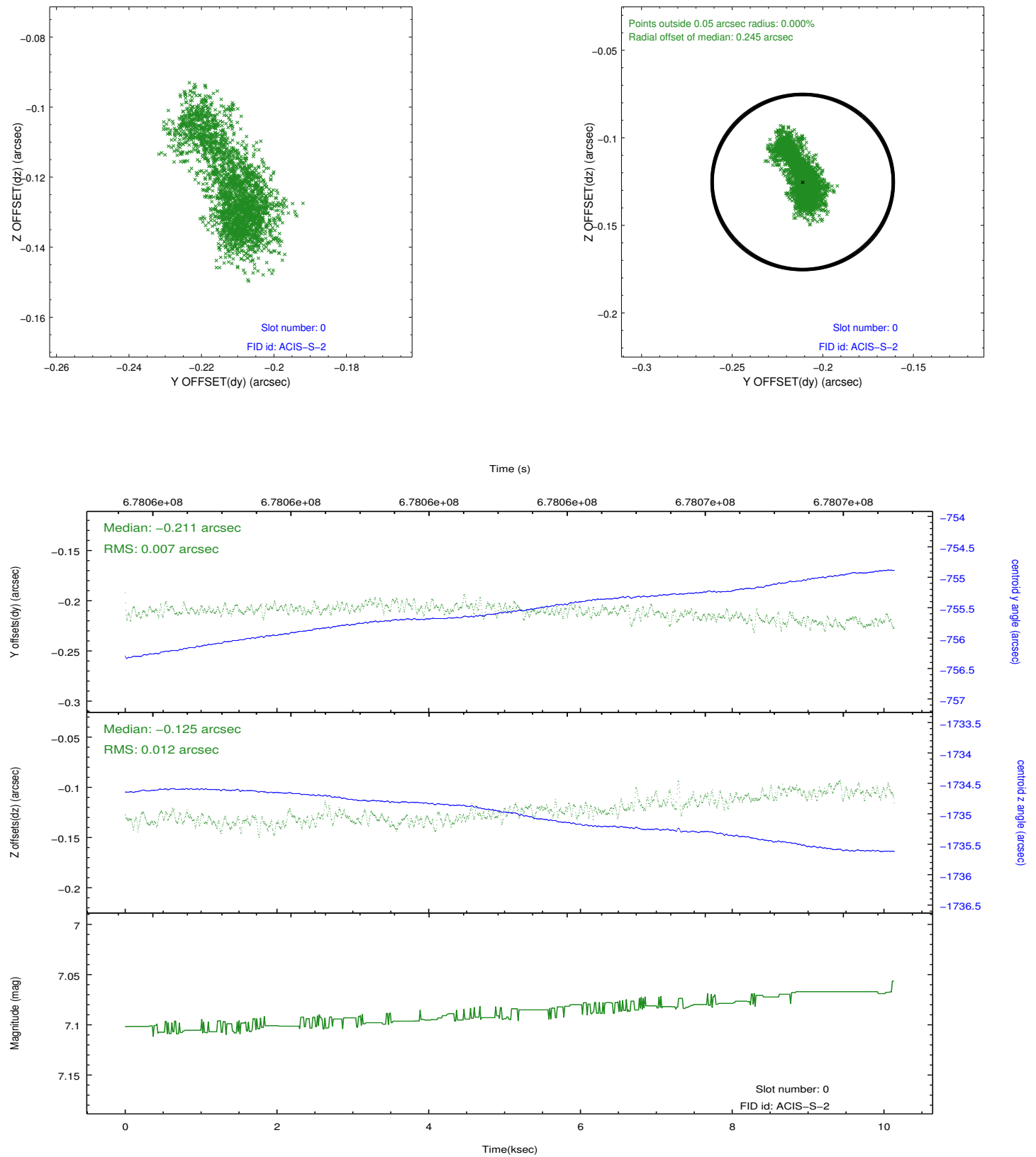


2.4.5 Slot 7

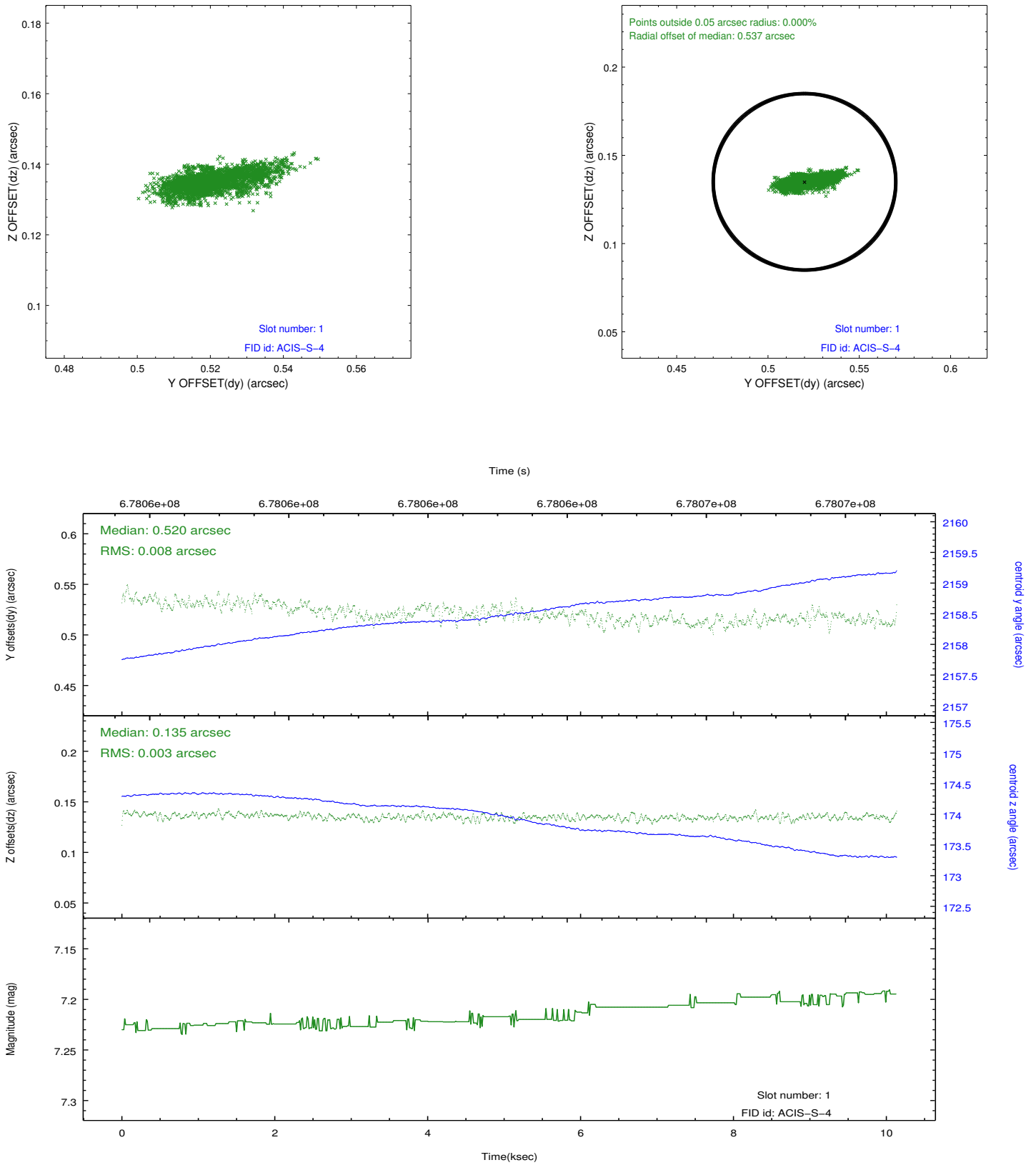


2.5 FID Slots

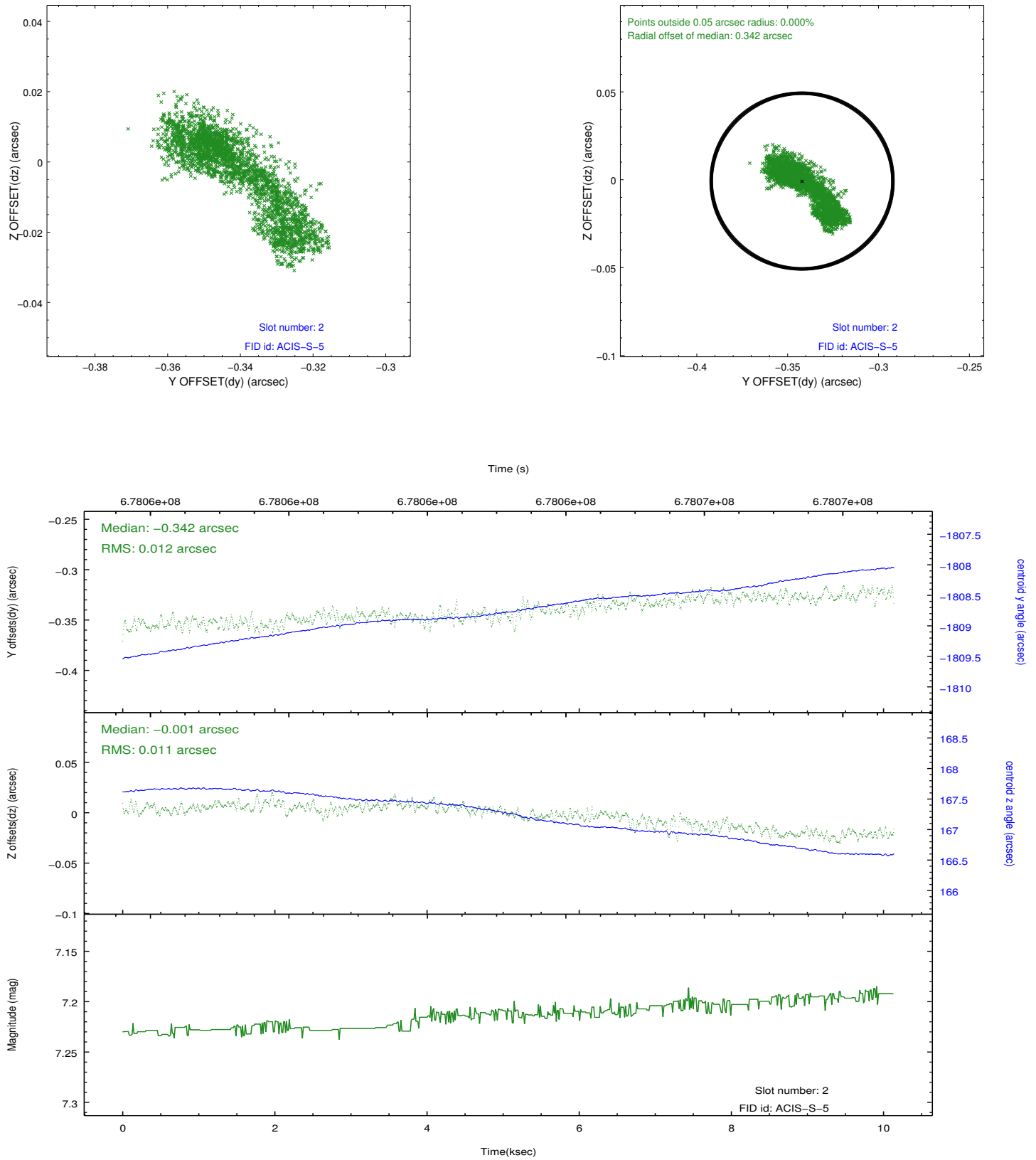
2.5.1 Slot 0



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)	2019.06.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.96

A.2 Comments