

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21612 - L2 Version 1
Chandra X-Ray Center

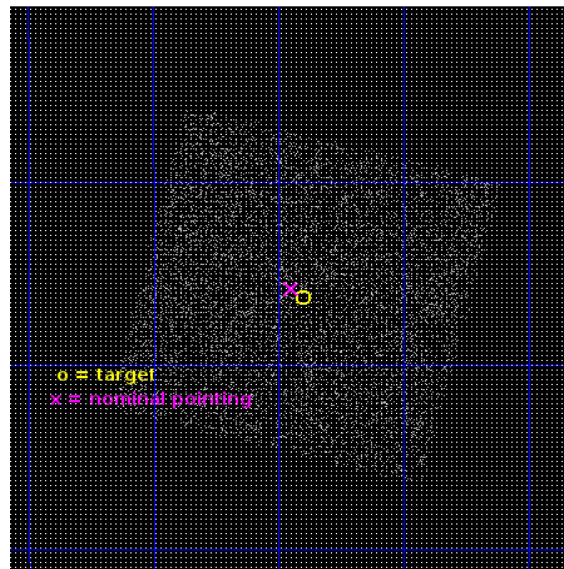
L2 Processing Date : Jul 8 2019

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

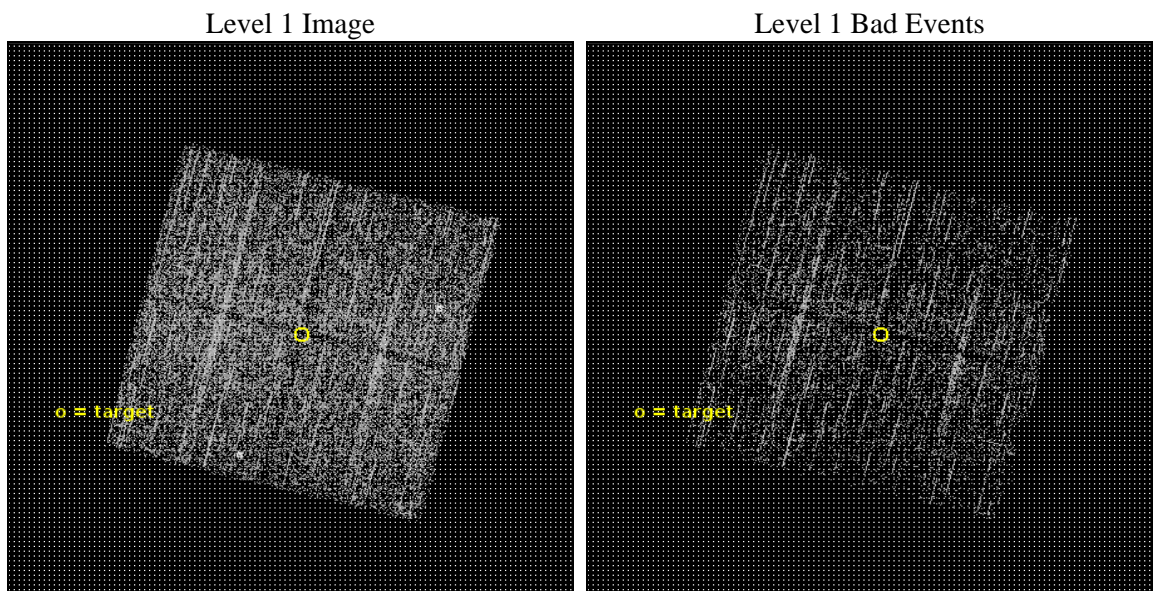
seq_num	300444	Sequence number
obs_id	21612	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.60014	Observer's specified target RA [deg]
dec_targ	-29.272363	Observer's specified target Dec [deg]
ra_nom	265.61234239491	Nominal RA [deg]
dec_nom	-29.263797006005	Nominal Dec [deg]
roll_nom	284.21454754761	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.5381829739	Sum of GTIs [s]
livetime	1883.6017265679	Livetime [s]
ontime0	1908.4150630236	Sum of GTIs [s]
ontime1	1905.3150327206	Sum of GTIs [s]
ontime2	1908.4971430302	Sum of GTIs [s]
ontime3	1908.5381829739	Sum of GTIs [s]
l2events	5908	Number of level 2 events



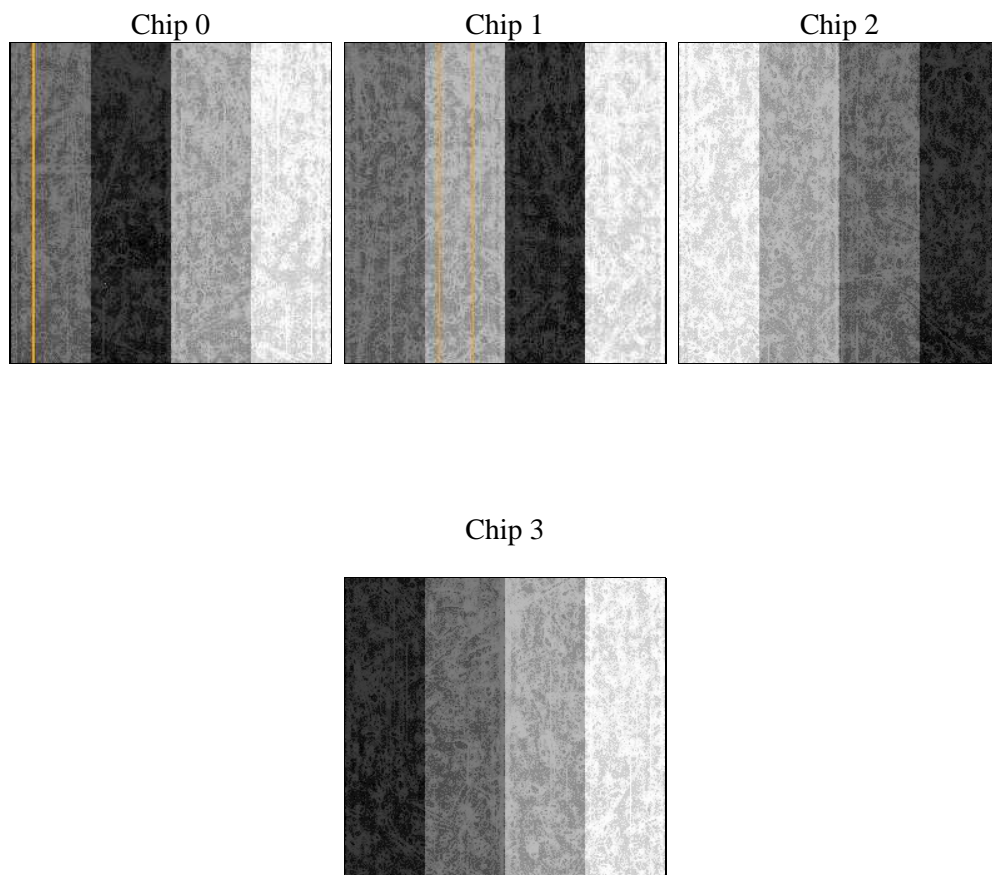
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	1908.5381829739	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.4150630236	Sum of GTIs [s]
date	2019-07-08T11:18:46	Date and time of file creation	ontime1	1905.3150327206	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.4971430302	Sum of GTIs [s]
			ontime3	1908.5381829739	Sum of GTIs [s]
			l1events	59125	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13272	14257	16037	15559
rejected events	11554	11858	13877	13855
rejected %	87%	83%	86%	89%

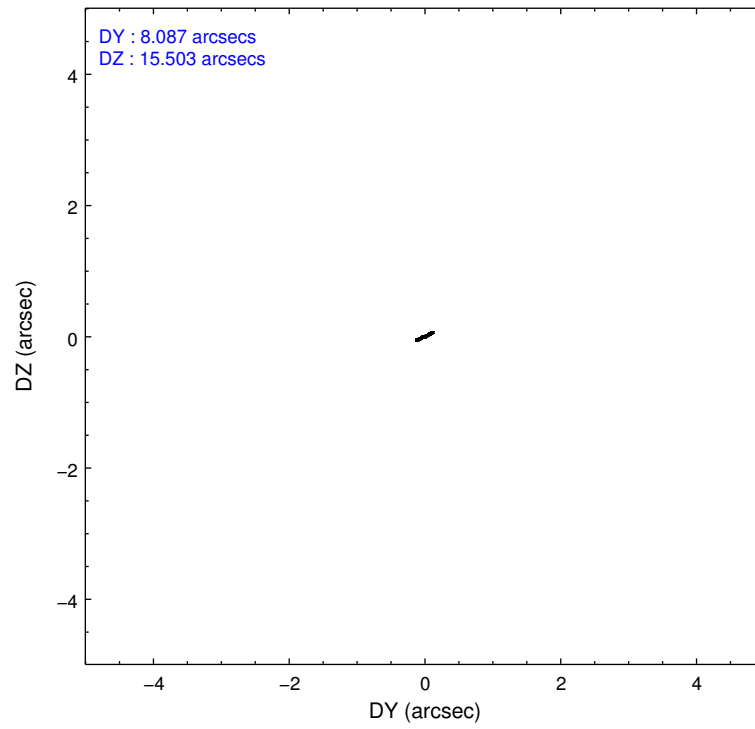
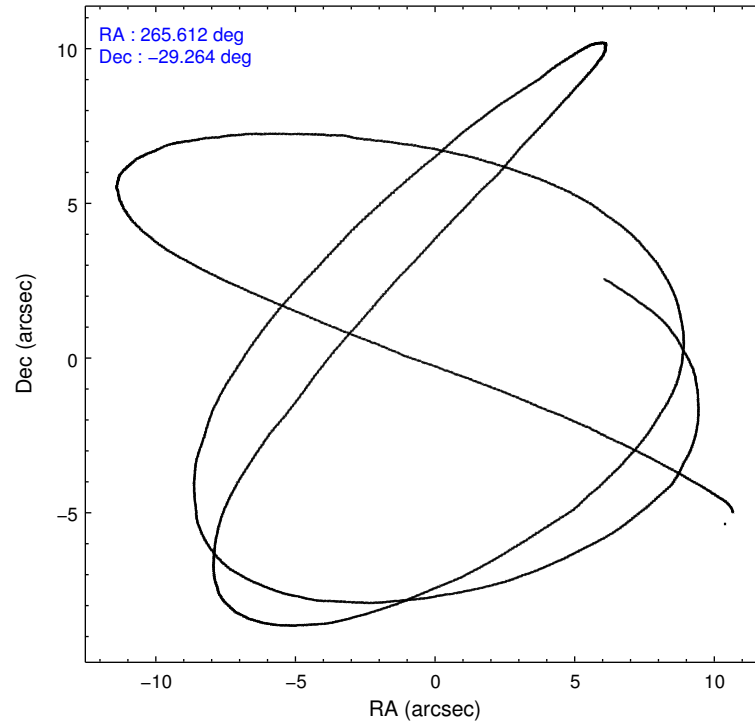
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	595	1158	1097	658
	4%	8%	6%	4%
grade 1 events	4	5	15	1
	0%	0%	0%	0%
grade 2 events	420	474	413	347
	3%	3%	2%	2%
grade 3 events	171	165	156	185
	1%	1%	0%	1%
grade 4 events	160	163	153	175
	1%	1%	0%	1%
grade 5 events	661	623	567	663
	4%	4%	3%	4%
grade 6 events	373	443	344	342
	2%	3%	2%	2%
grade 7 events	10888	11226	13292	13188
	82%	78%	82%	84%

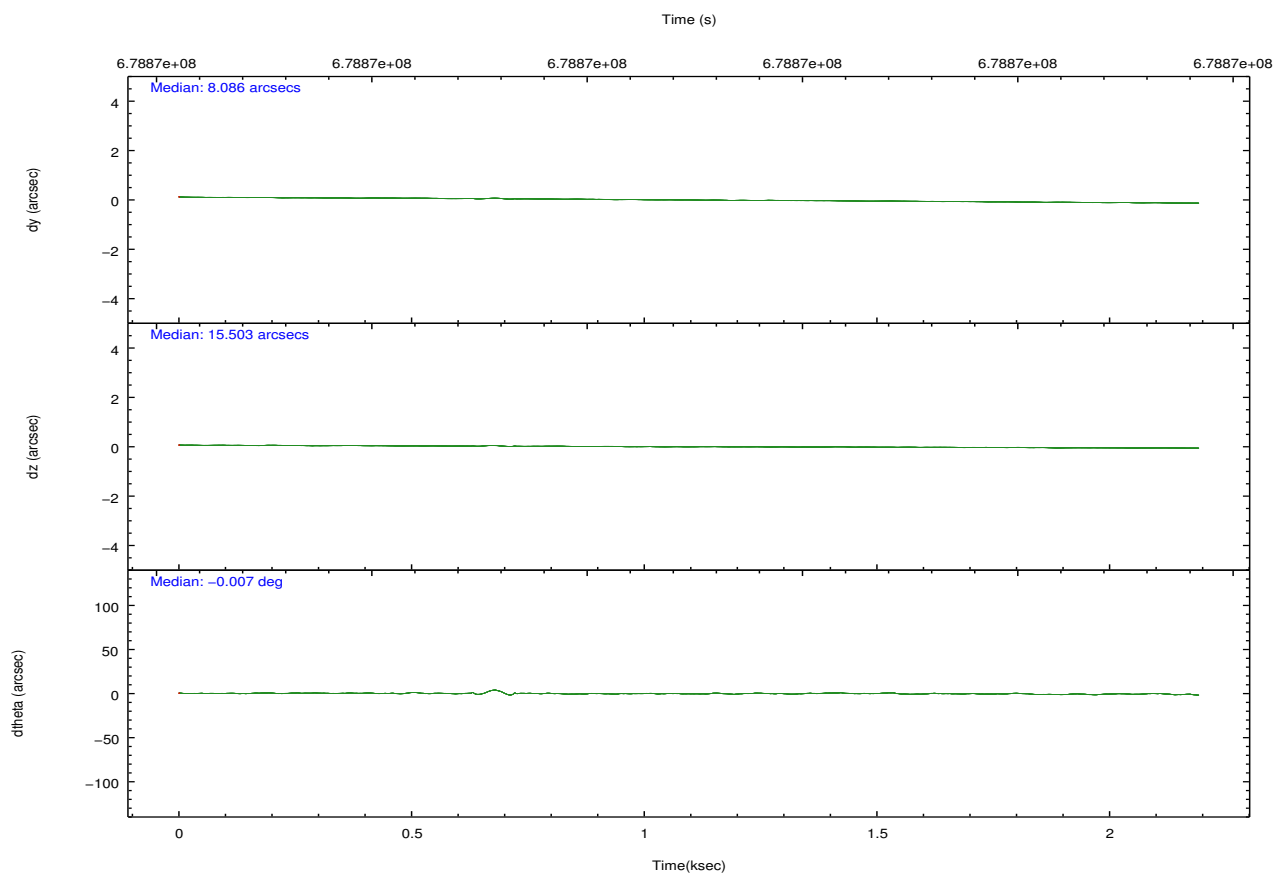
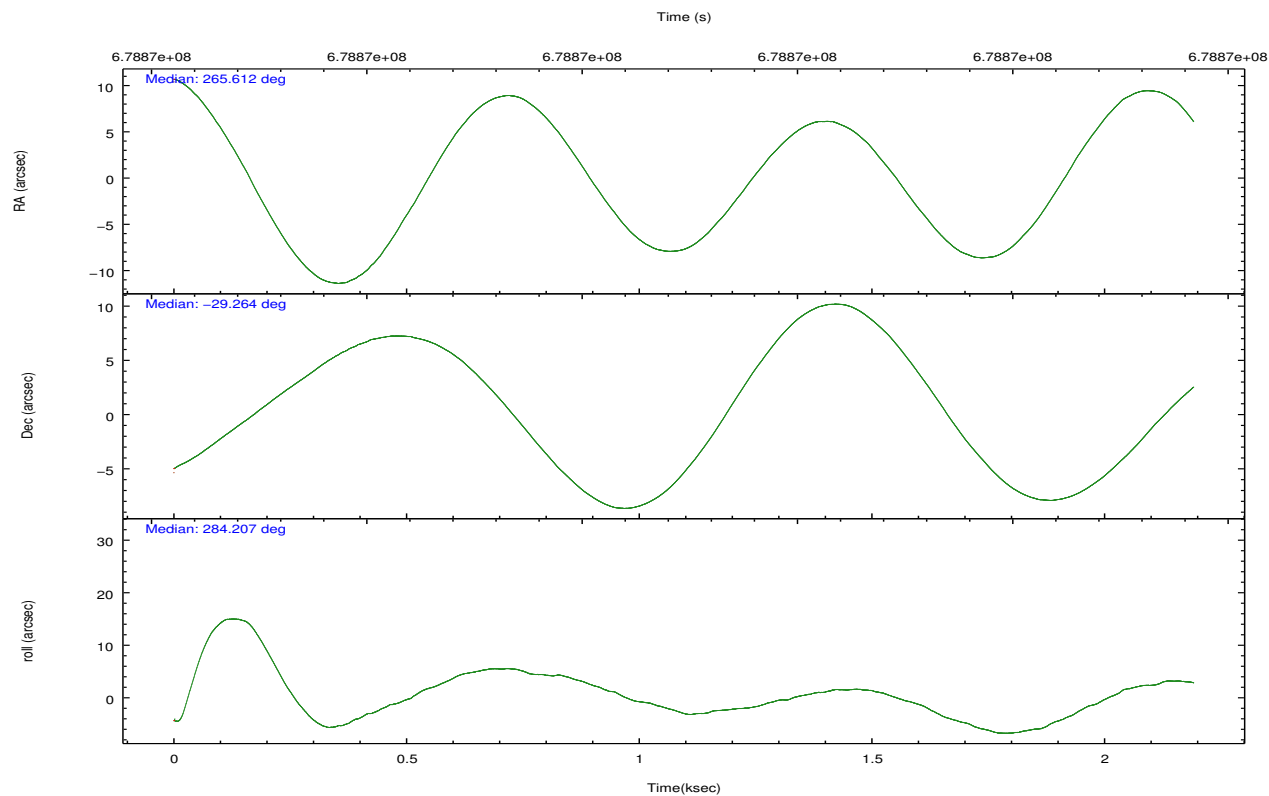
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	265.590051	265.6123423949051
[deg] Pointing Dec	-29.244013	-29.26379700600549
[deg] Pointing Roll	283.995078	284.2145475476113
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	678871825.184000	678871449.69326
Observation start date	2019-07-07T07:29:16	2019-07-07T07:24:09
[s] Observation end time (MET)	678873825.184000	678873959.9184099
Observation end date	2019-07-07T08:02:36	2019-07-07T08:05:59
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	3.1

2.3 Aspect



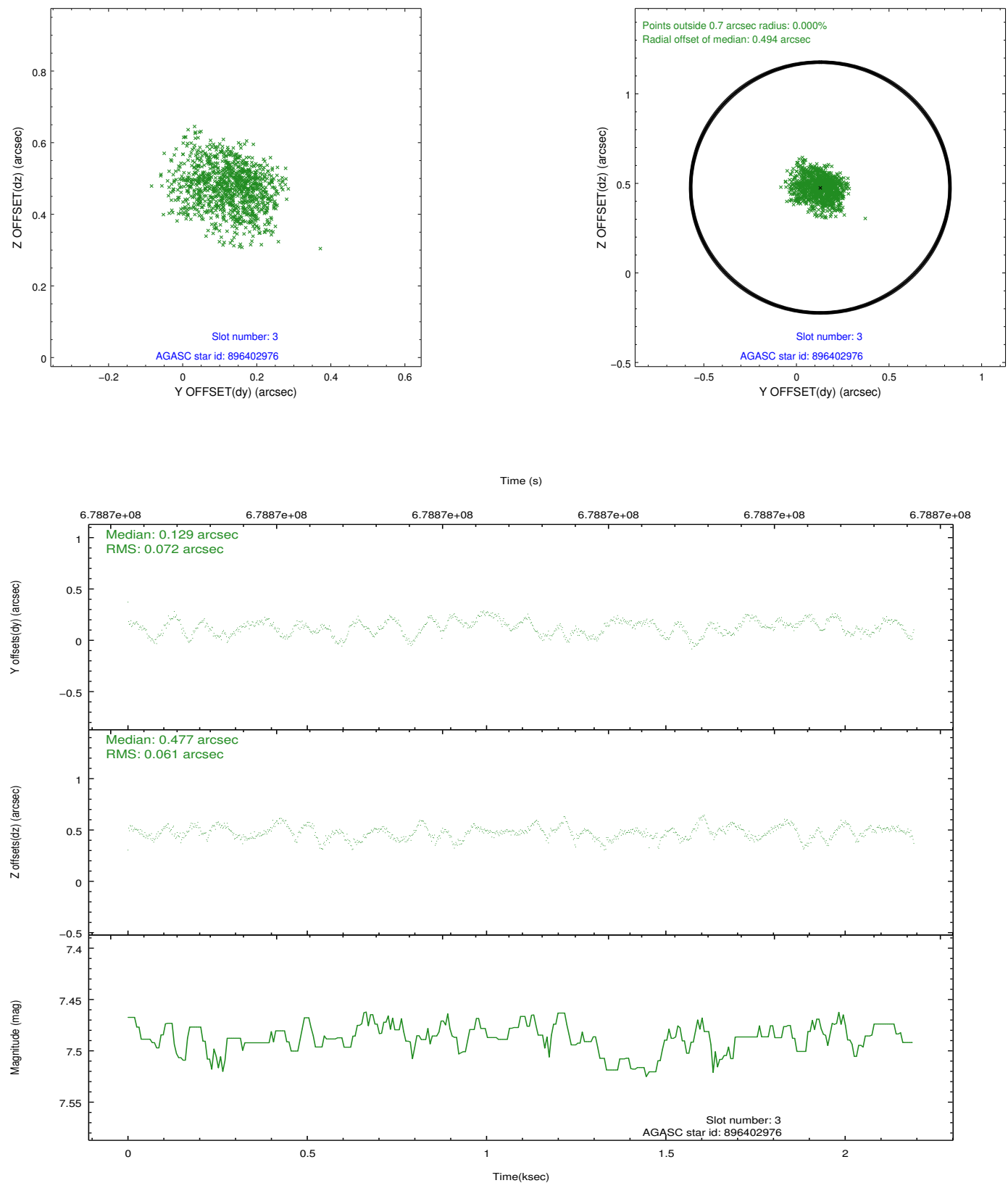


Slot Statistics

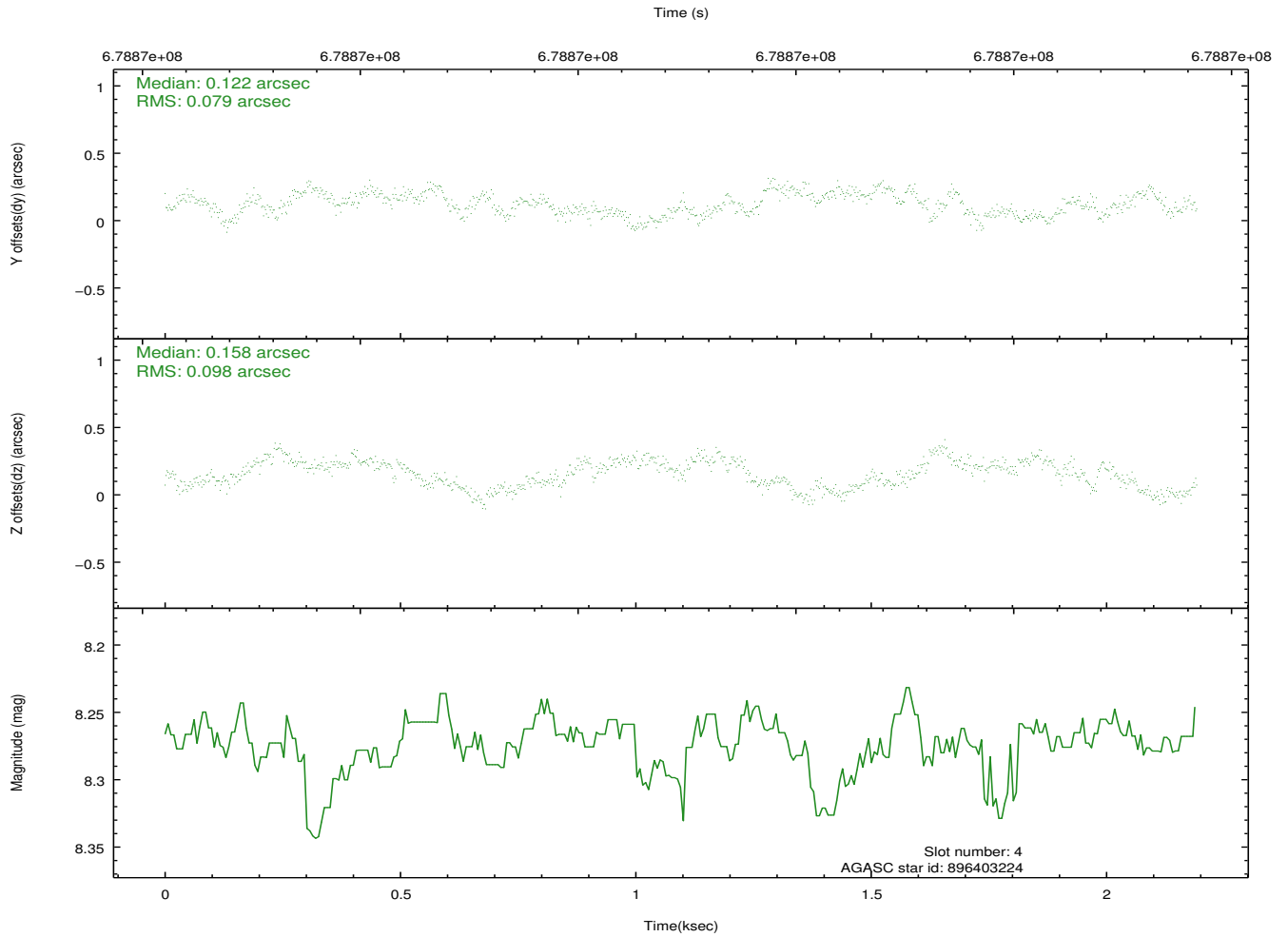
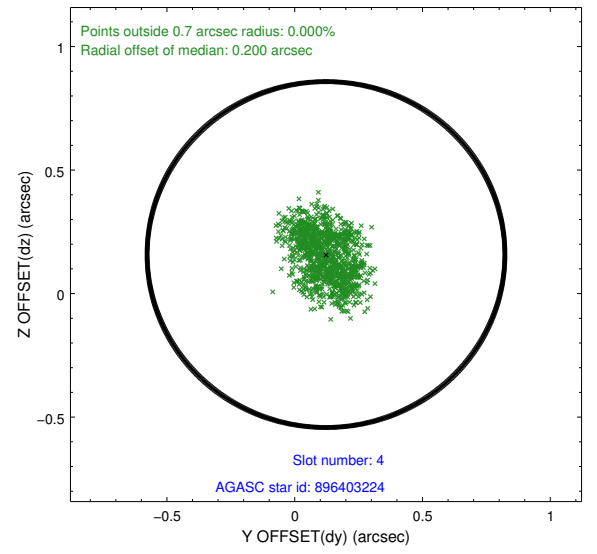
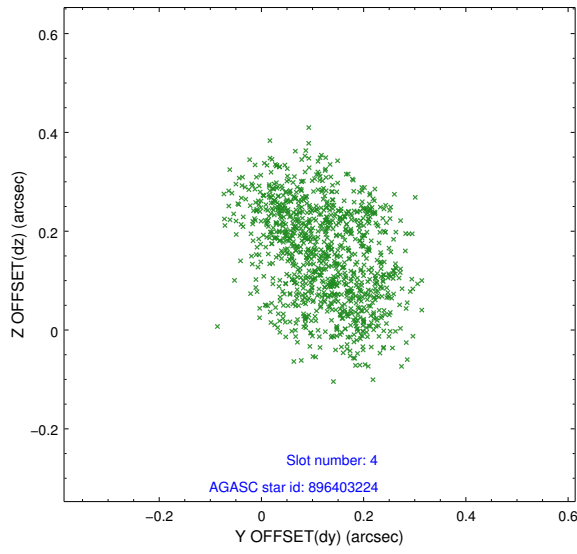
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.19	535	1.000	0.117	-0.175	0.007	0.014	0.000000	0.000000	931.75	-839
1	FID		ACIS-I-5	7.16	535	1.000	-0.460	0.021	0.008	0.012	0.000000	0.000000	-1815.43	1056
2	FID		ACIS-I-6	7.15	535	1.000	0.252	0.225	0.007	0.013	0.000000	0.000000	394.00	1705
3	GUIDE	used	896402976	7.49	1069	1.000	0.129	0.477	0.102	0.158	265.099474	-28.923203	-1490.93	-1221
4	GUIDE	used	896403224	8.27	1070	1.000	0.122	0.158	0.140	0.206	265.612825	-29.438915	697.33	-101
5	GUIDE	used	896405480	8.20	1069	1.000	0.041	0.072	0.154	0.246	265.220460	-29.599691	965.44	-1432
6	GUIDE	used	896540808	7.47	1070	1.000	-0.130	-0.192	0.069	0.116	265.985401	-29.308604	528.47	1145
7	GUIDE	used	896538920	8.88	1067	1.000	-0.157	-0.514	0.103	0.178	266.278728	-29.143592	179.17	2187

2.4 Star Slots

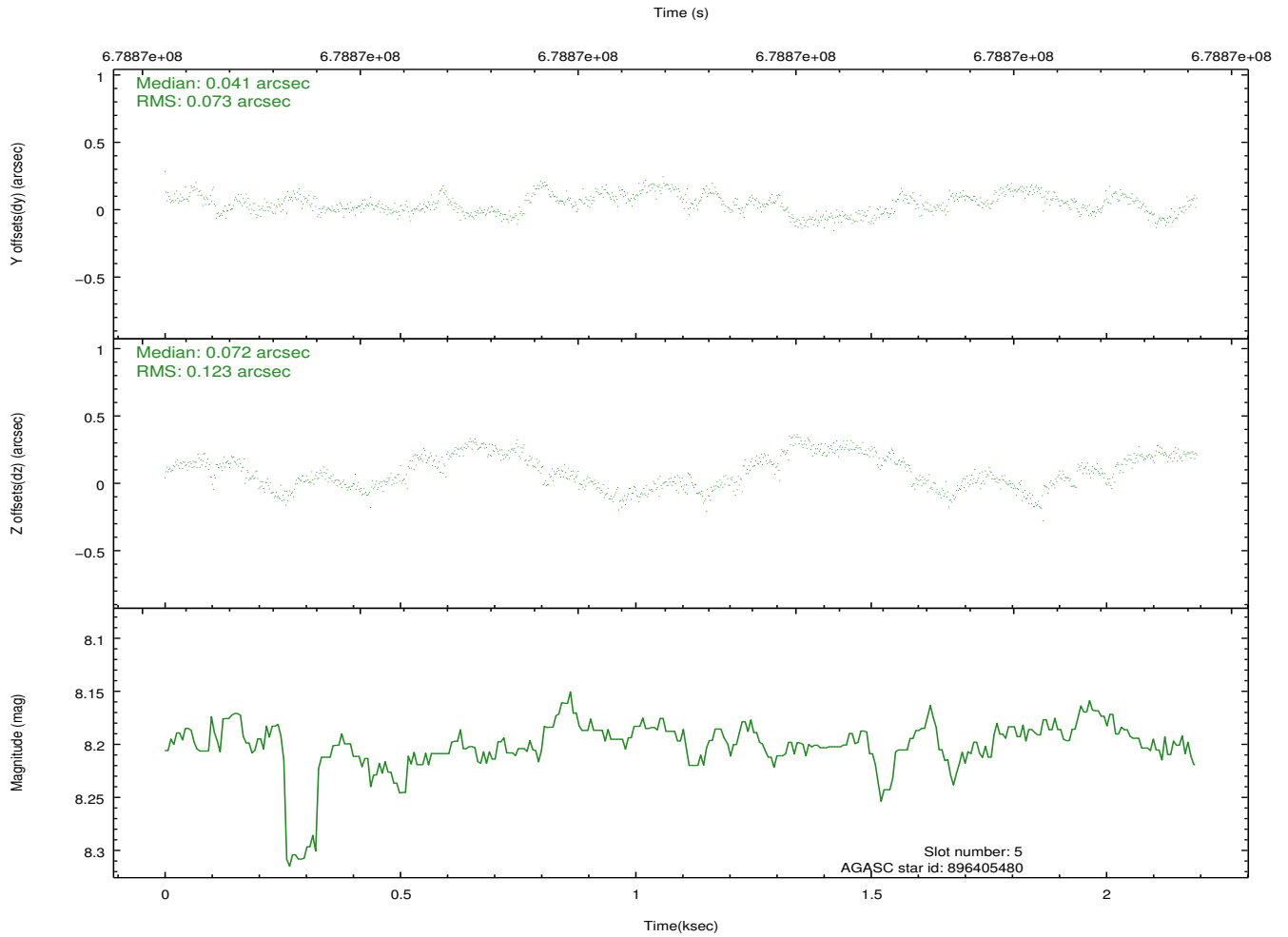
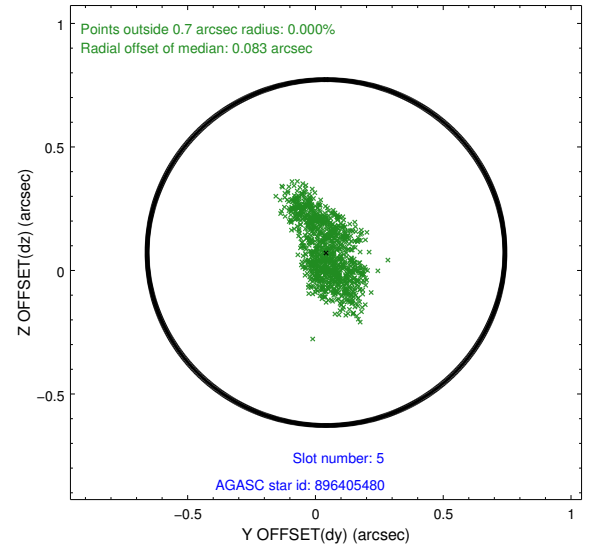
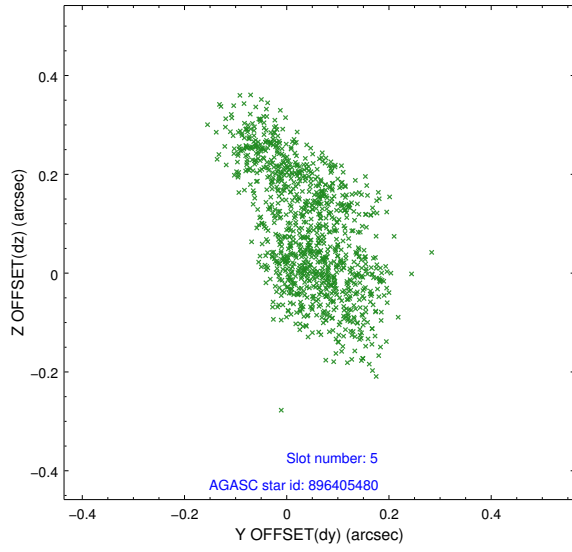
2.4.1 Slot 3



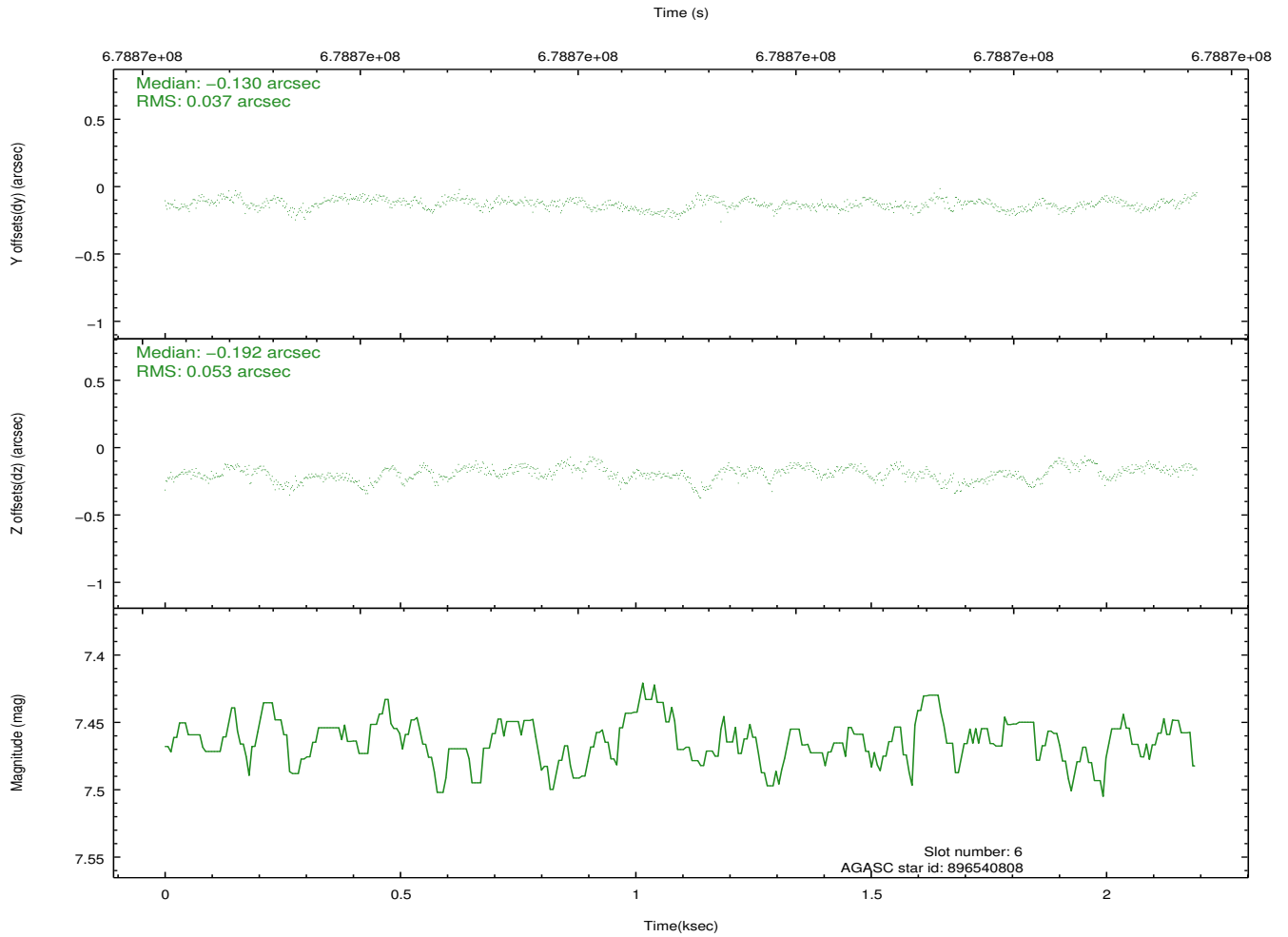
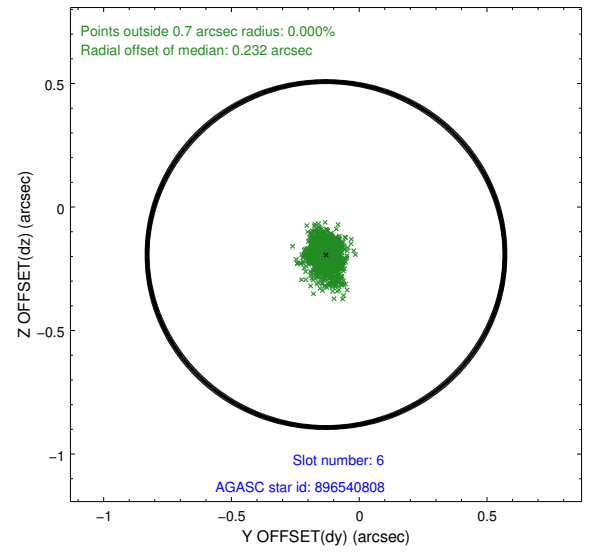
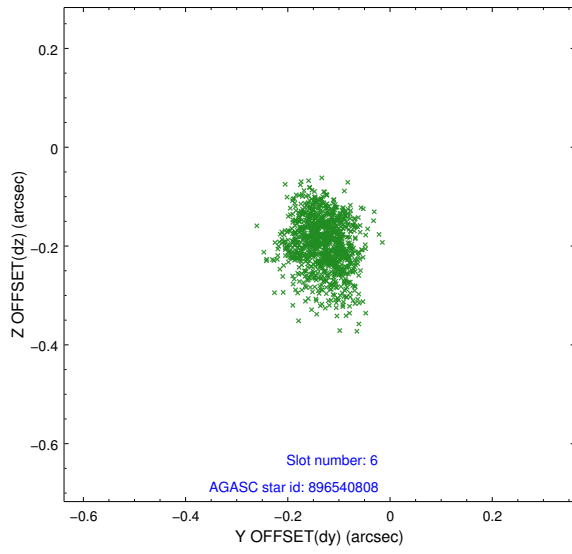
2.4.2 Slot 4



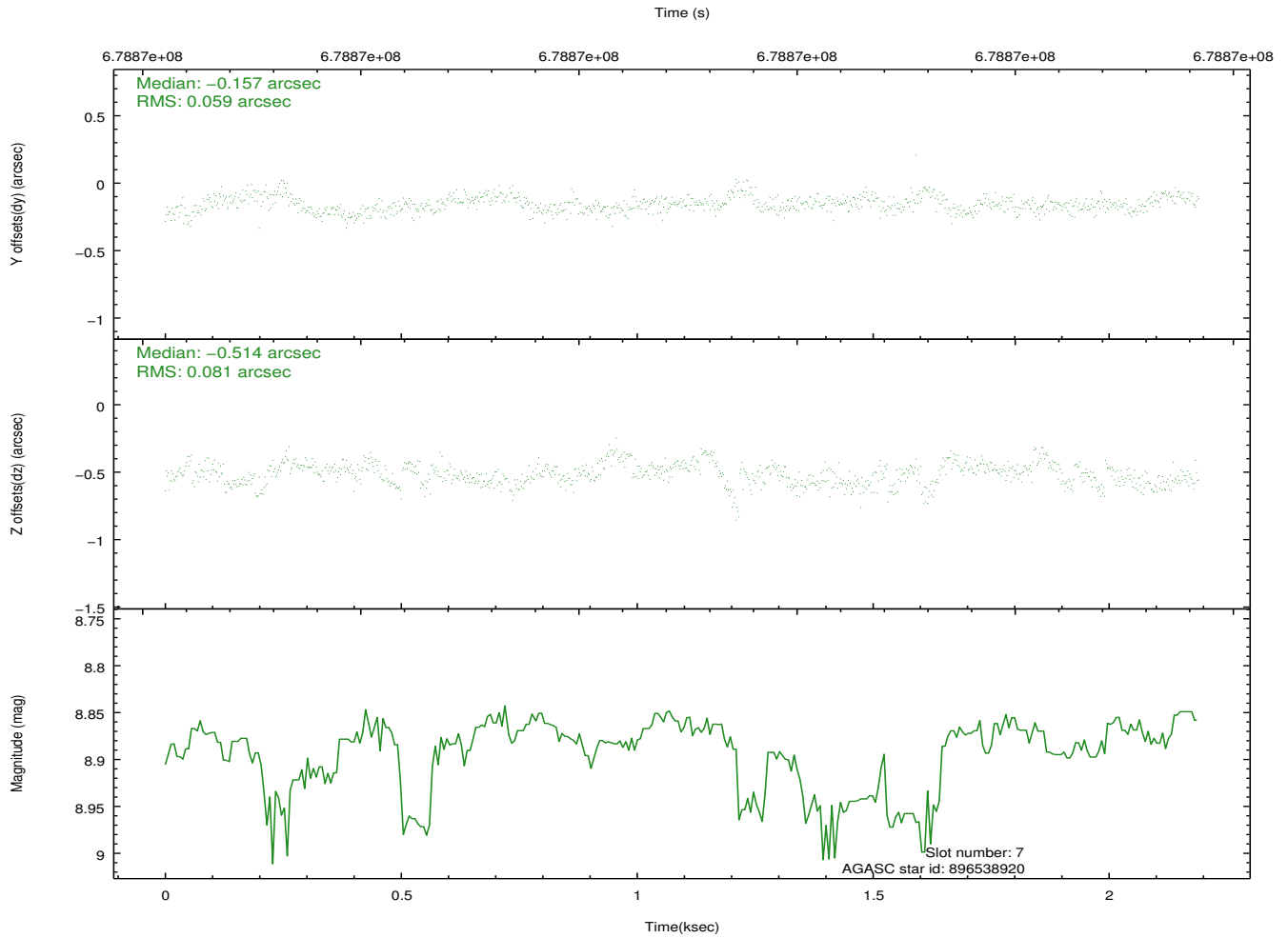
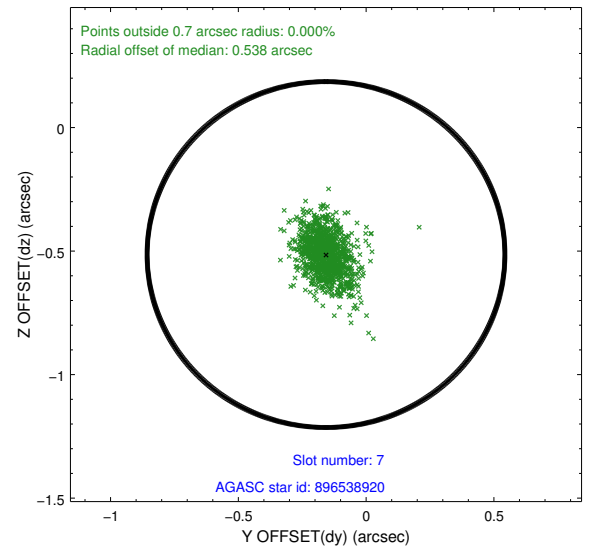
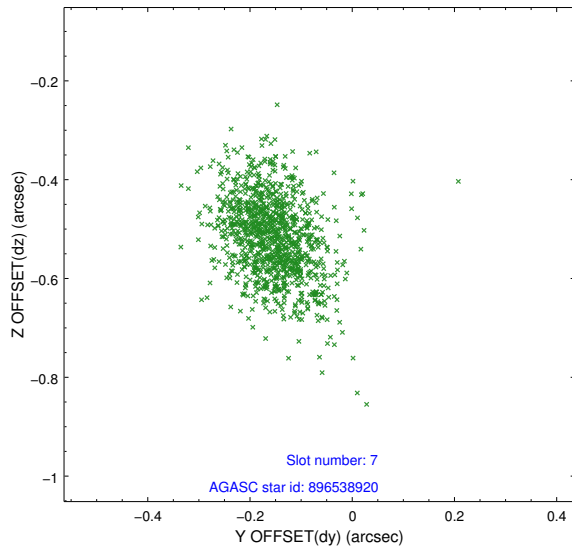
2.4.3 Slot 5



2.4.4 Slot 6

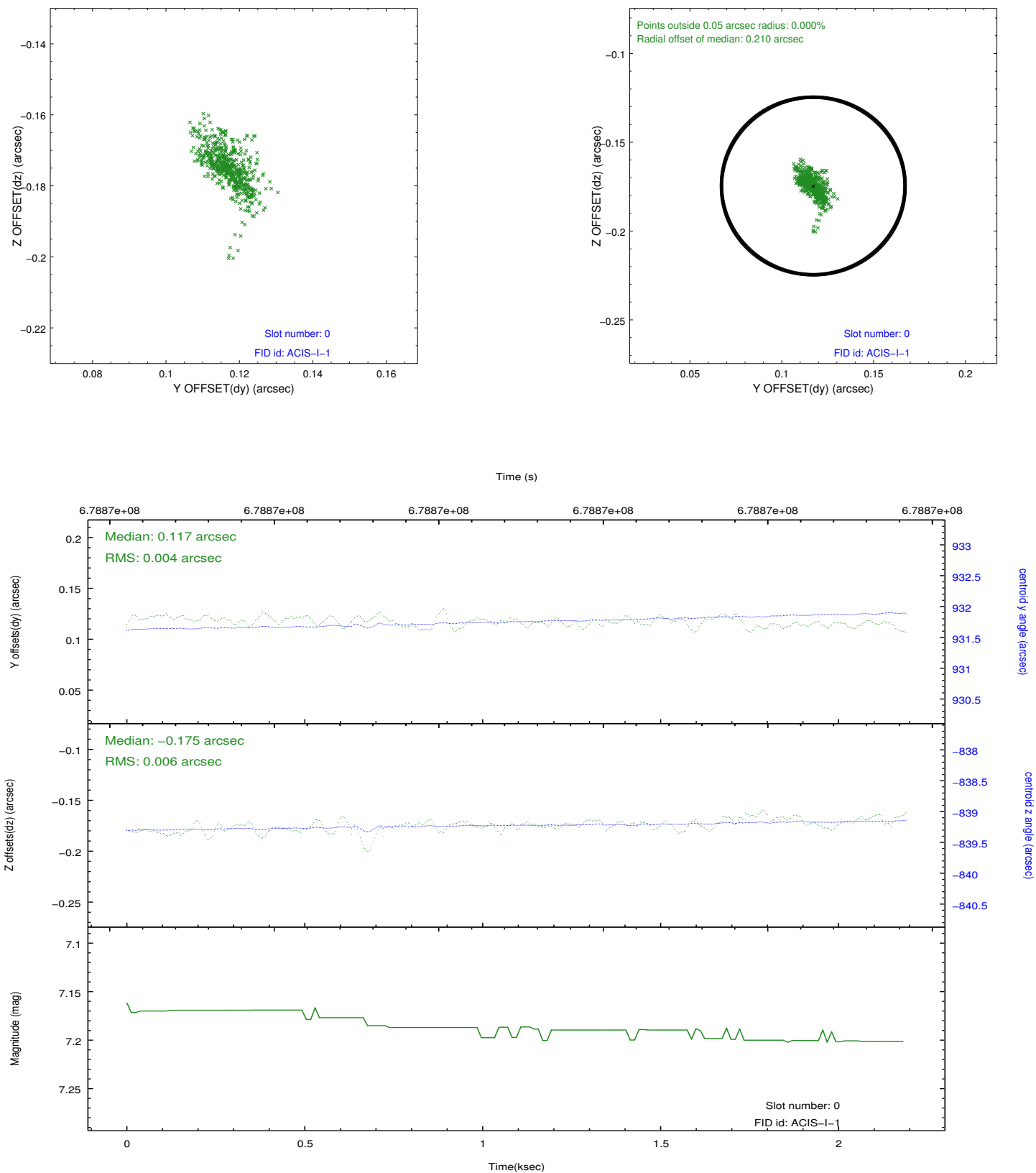


2.4.5 Slot 7

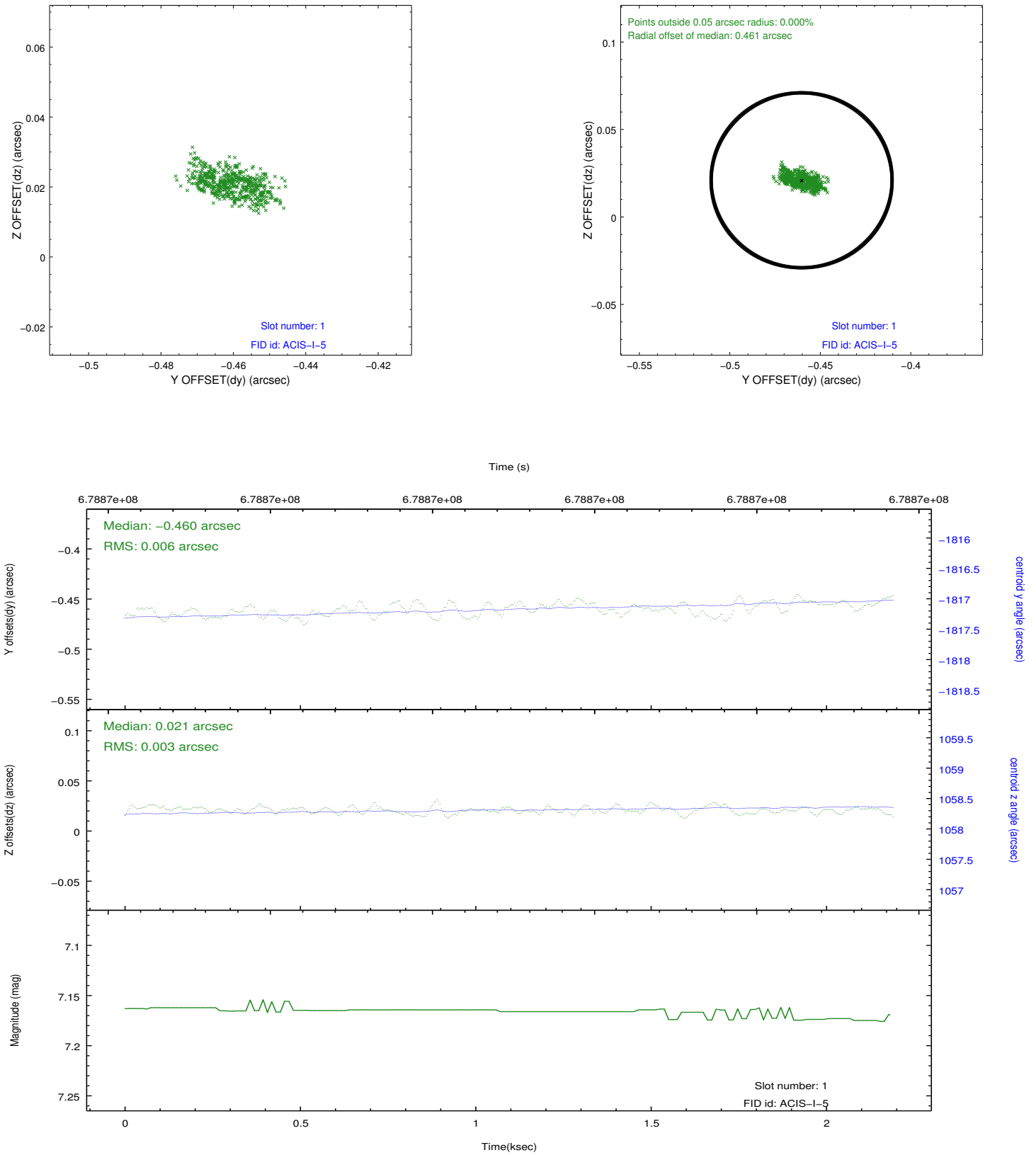


2.5 FID Slots

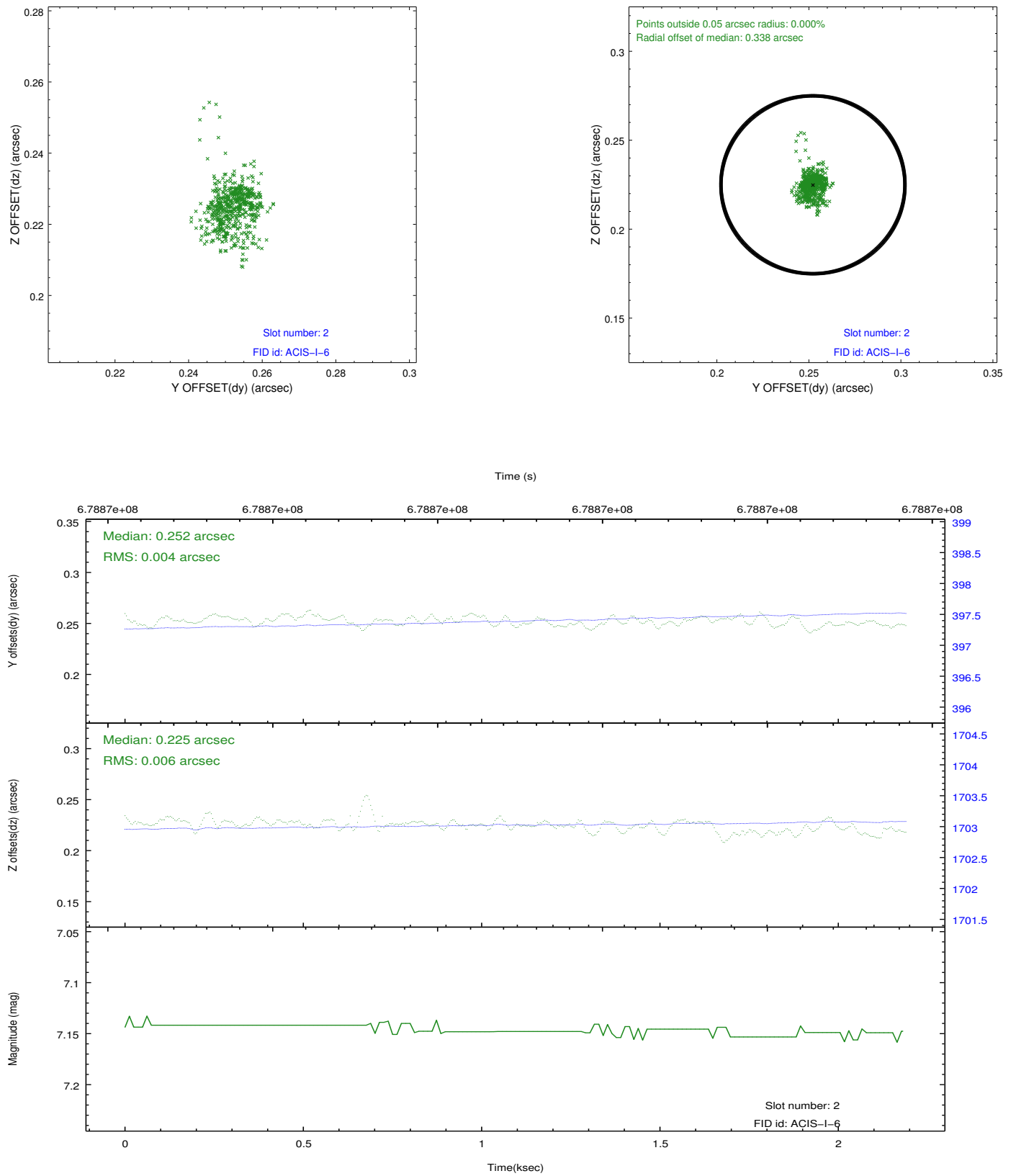
2.5.1 Slot 0



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)	2019.07.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9085381829739

A.2 Comments