

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21626 - L2 Version 1
Chandra X-Ray Center

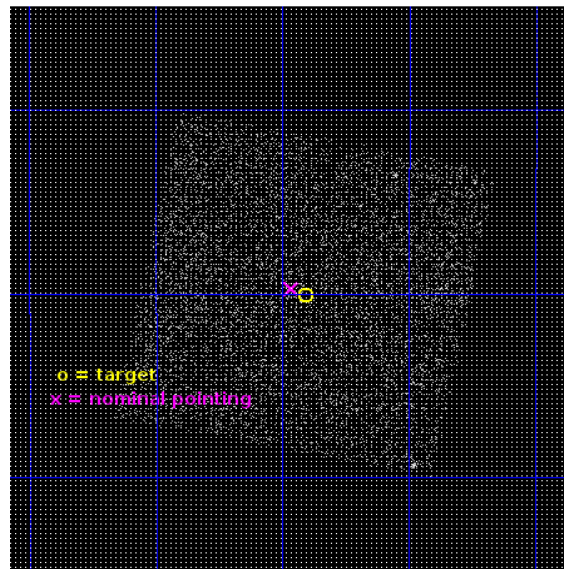
L2 Processing Date : Jul 29 2019

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1 Front

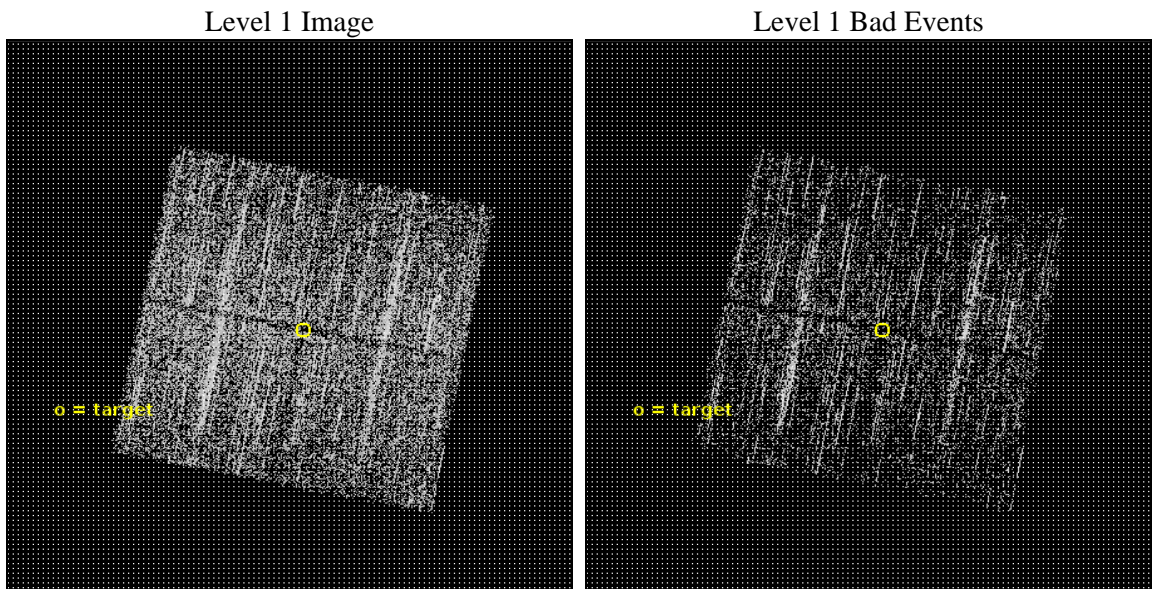
seq_num	300458	Sequence number
obs_id	21626	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.47709	Observer's specified target RA [deg]
dec_targ	-28.001512	Observer's specified target Dec [deg]
ra_nom	266.49125639181	Nominal RA [deg]
dec_nom	-27.995643101815	Nominal Dec [deg]
roll_nom	281.21537467811	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1902.3739275932	Sum of GTIs [s]
livetime	1877.5180117219	Livetime [s]
ontime0	1908.6150281429	Sum of GTIs [s]
ontime1	1902.3739275932	Sum of GTIs [s]
ontime2	1908.6970981359	Sum of GTIs [s]
ontime3	1908.7381380796	Sum of GTIs [s]
l2events	6022	Number of level 2 events



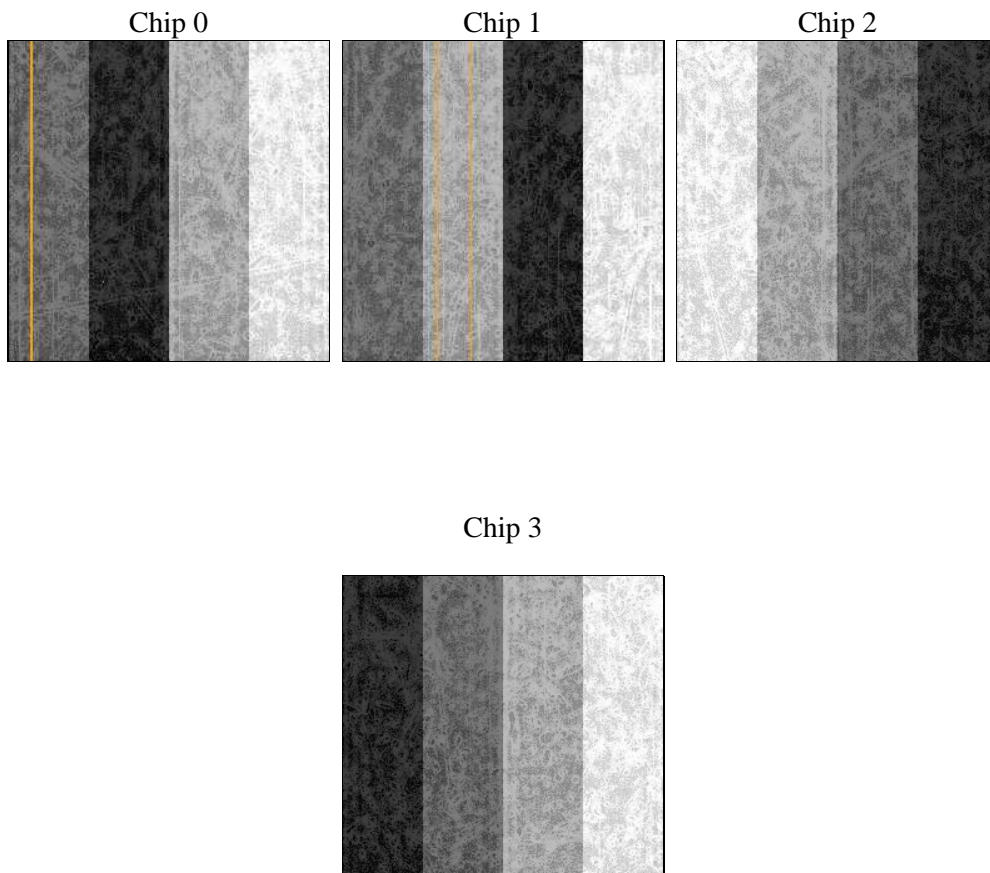
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	1902.3739275932	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.6150281429	Sum of GTIs [s]
date	2019-07-29T04:45:50	Date and time of file creation	ontime1	1902.3739275932	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.6970981359	Sum of GTIs [s]
			ontime3	1908.7381380796	Sum of GTIs [s]
			l1events	61262	Number of level 1 events

2.1.4 Events

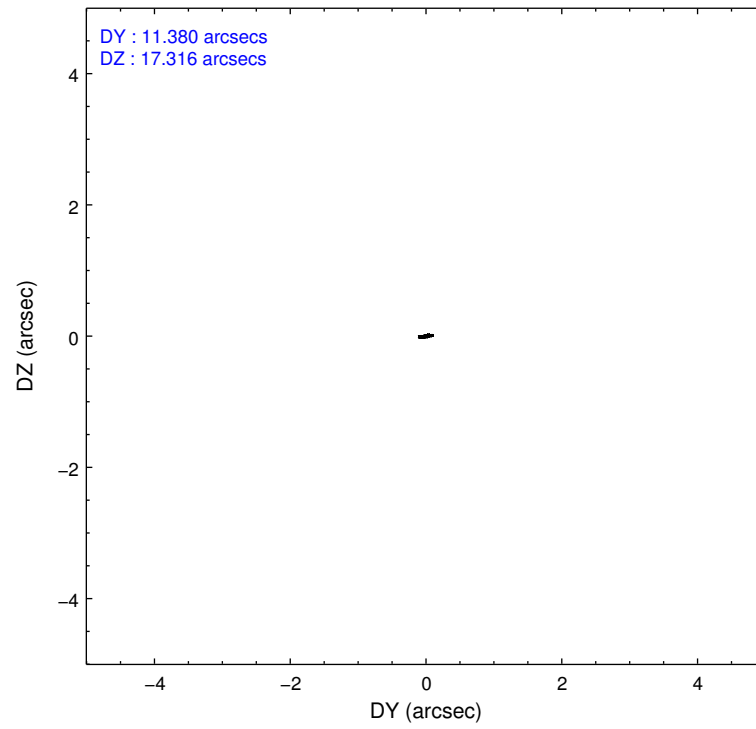
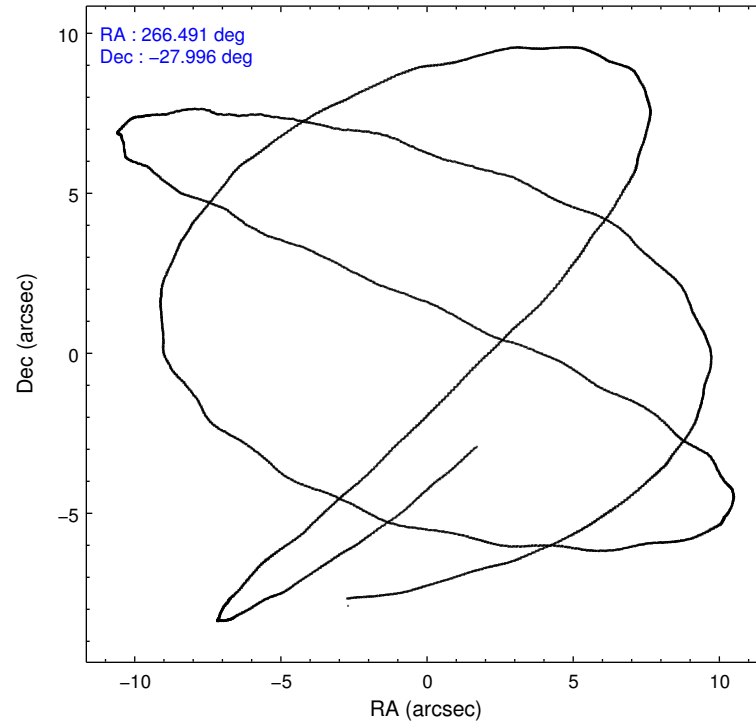
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13531	15183	16461	16087
rejected events	11791	13090	14655	14431
rejected %	87%	86%	89%	89%

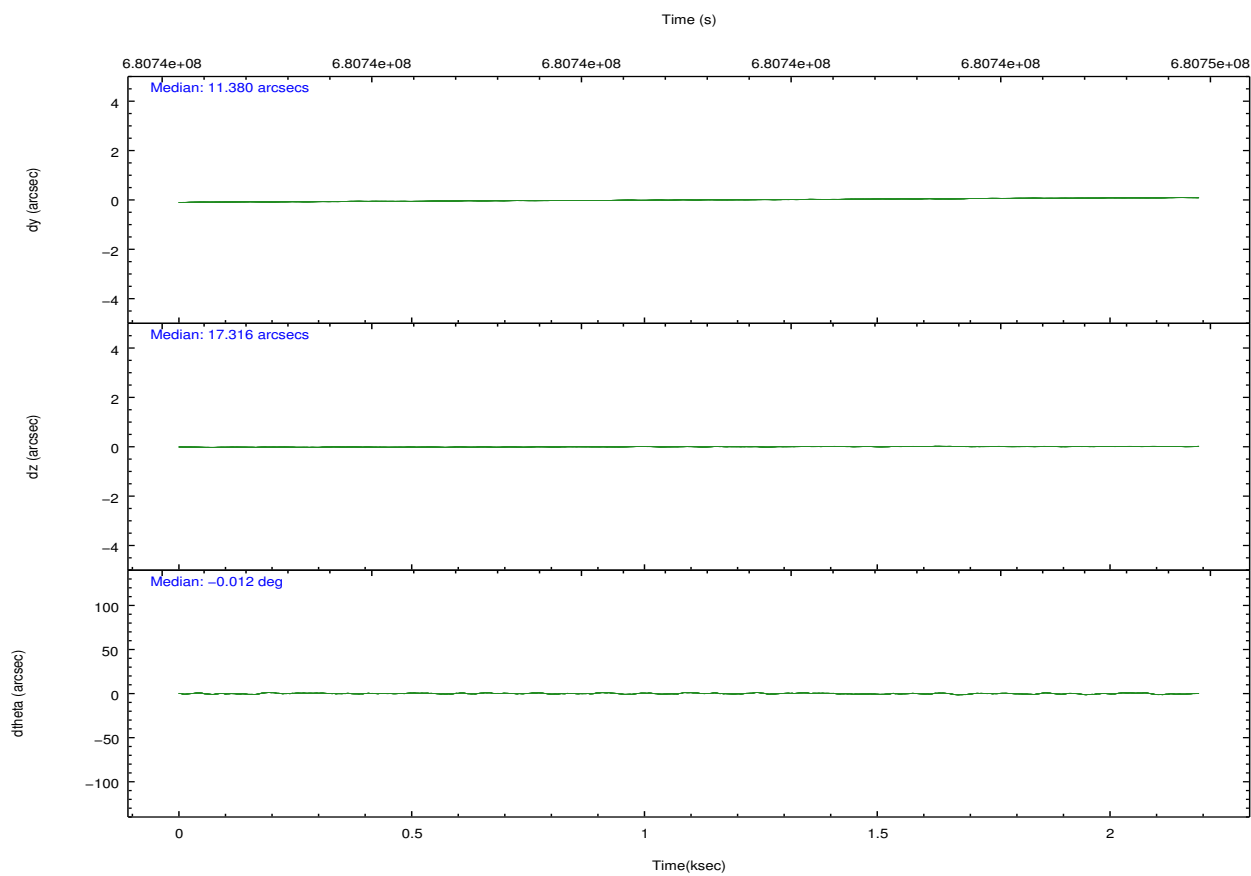
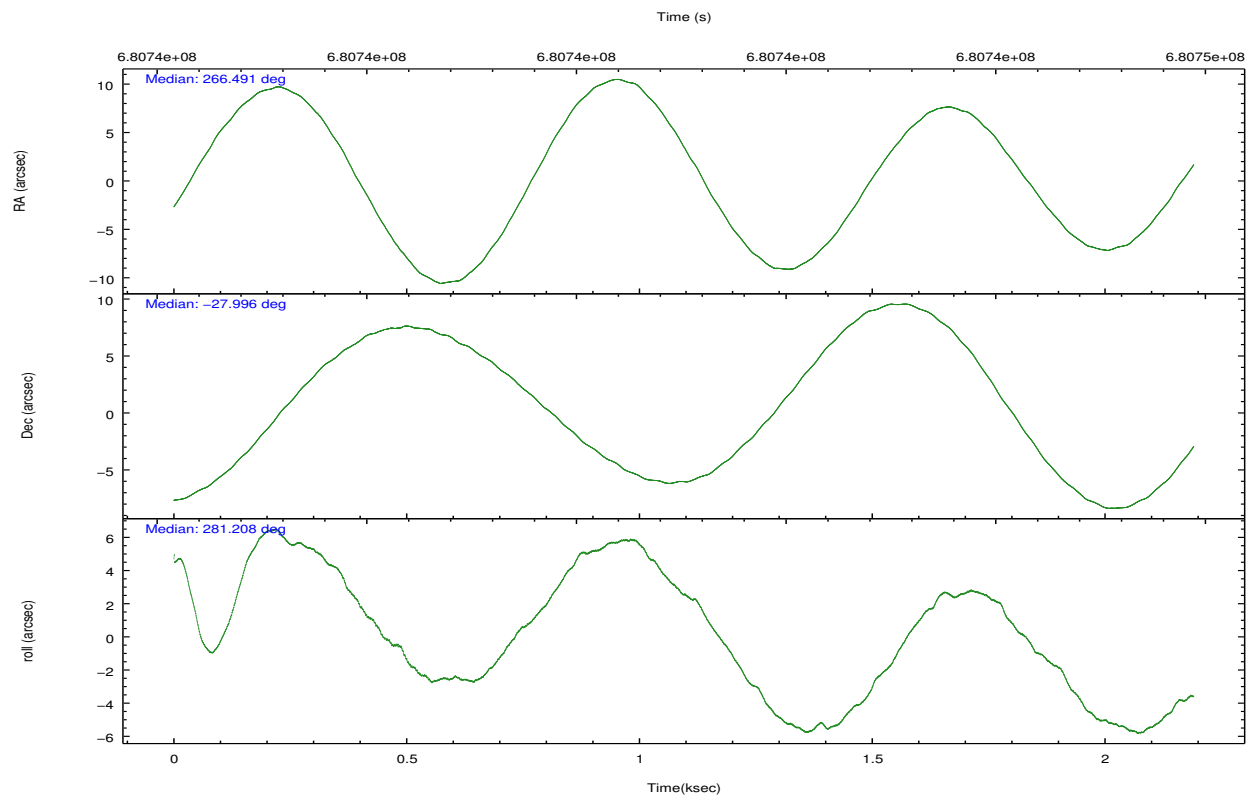
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	650	817	694	566
	4%	5%	4%	3%
grade 1 events	11	15	9	15
	0%	0%	0%	0%
grade 2 events	403	513	426	396
	2%	3%	2%	2%
grade 3 events	183	163	165	187
	1%	1%	1%	1%
grade 4 events	163	179	189	160
	1%	1%	1%	0%
grade 5 events	601	601	625	657
	4%	3%	3%	4%
grade 6 events	343	427	336	349
	2%	2%	2%	2%
grade 7 events	11177	12468	14017	13757
	82%	82%	85%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	266.470505	266.4912563918139	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.974786	-27.99564310181498	Alternating exposures requested	N	N
[deg] Pointing Roll	280.996907	281.2153746781101	[s] Primary exposure time	0.000000	3.1
[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)	680743347.184000	680742970.65565			
Observation start date	2019-07-28T23:21:18	2019-07-28T23:16:10			
[s] Observation end time (MET)	680745347.184000	680745523.41831			
Observation end date	2019-07-28T23:54:38	2019-07-28T23:58:43			
Read mode	TIMED	TIMED			

2.3 Aspect



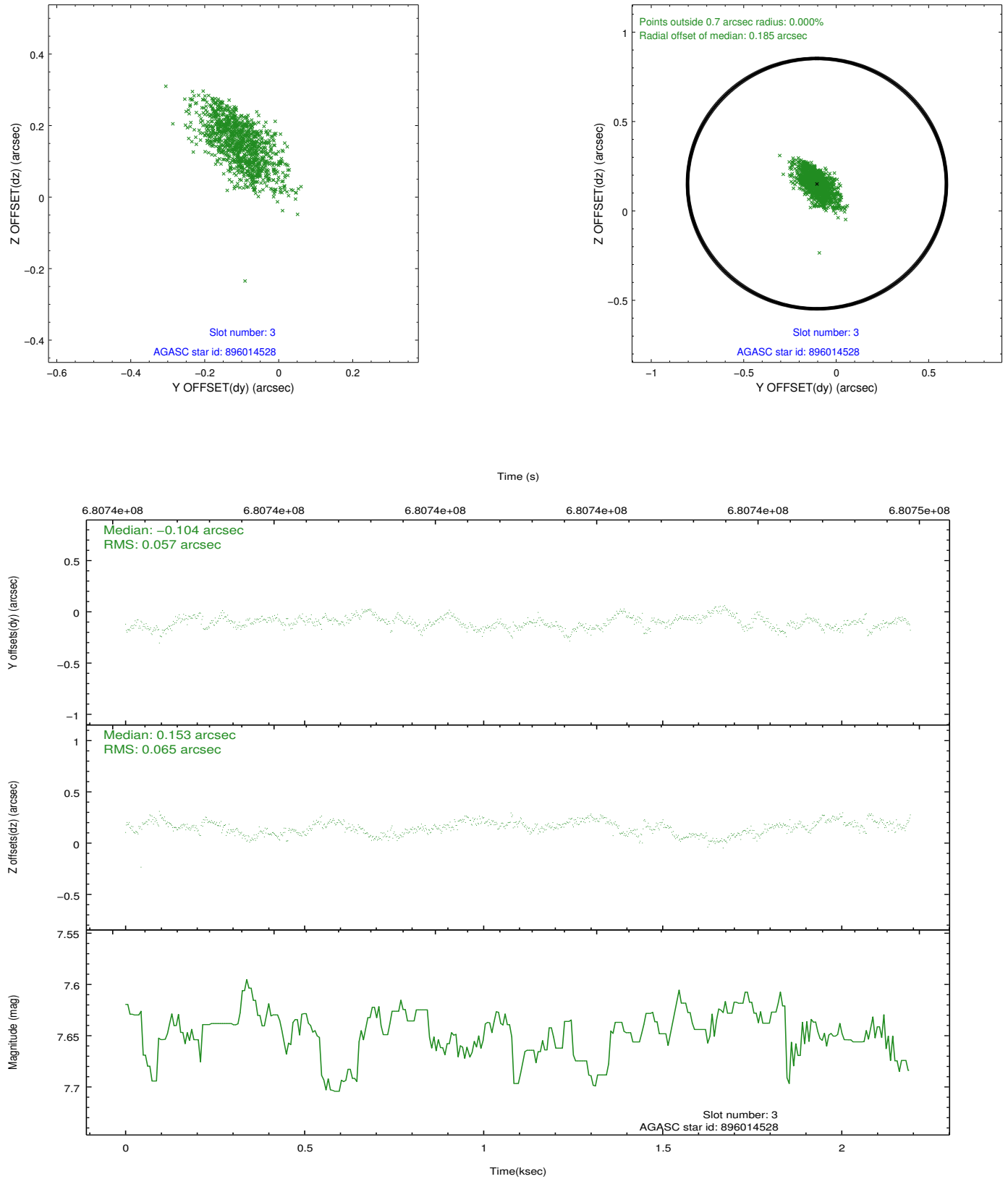


Slot Statistics

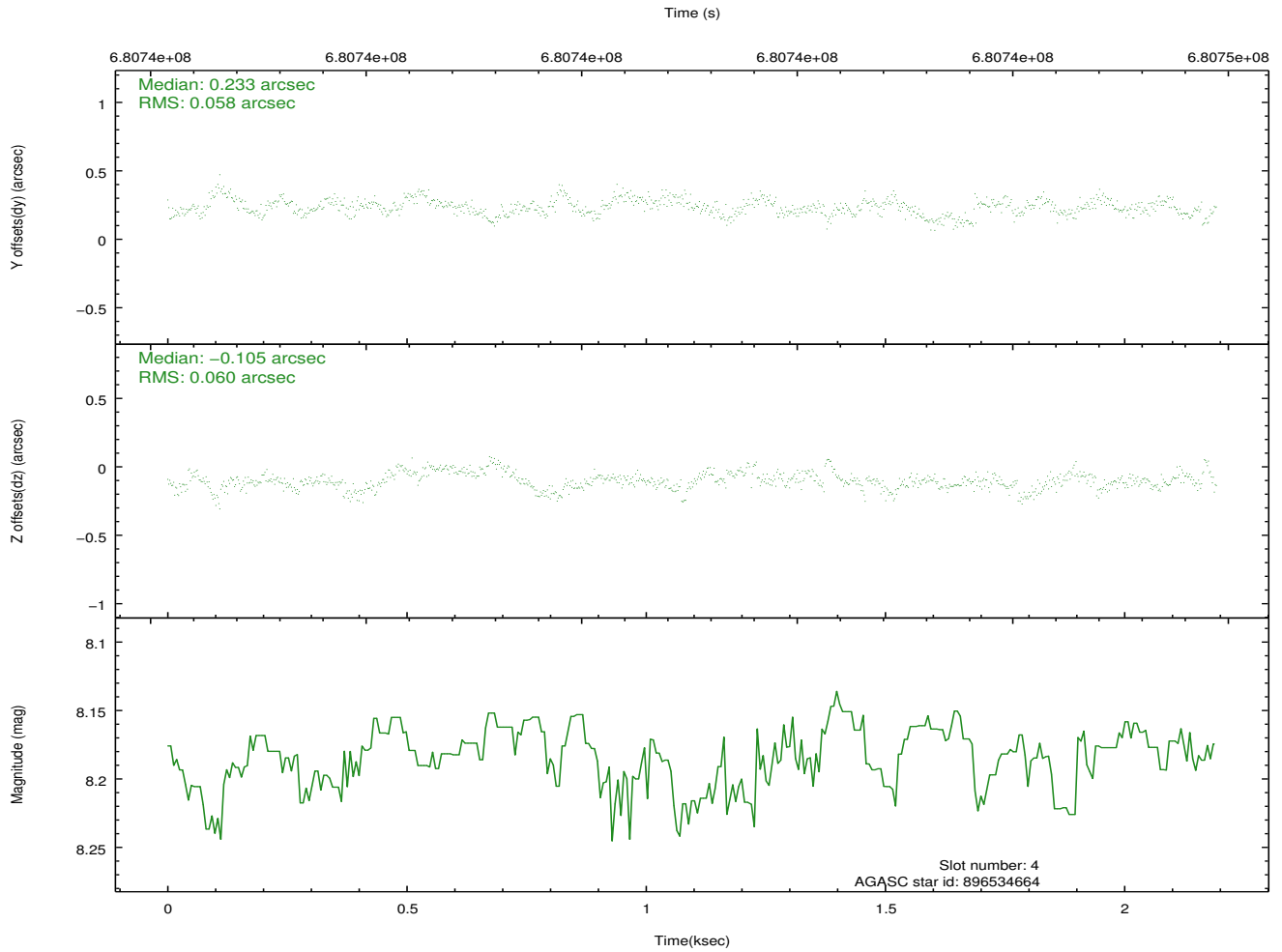
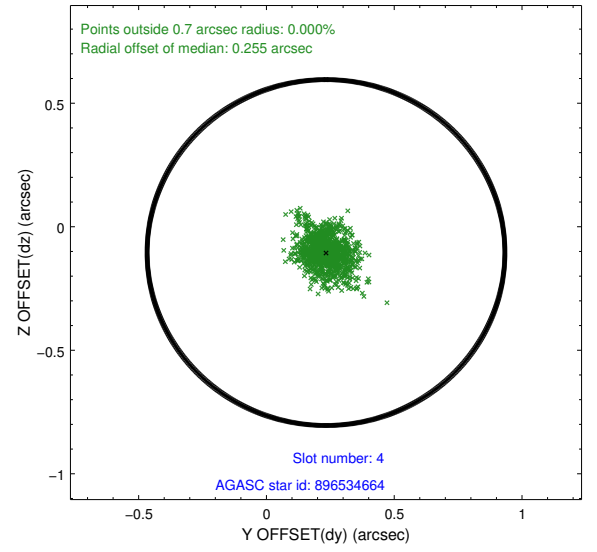
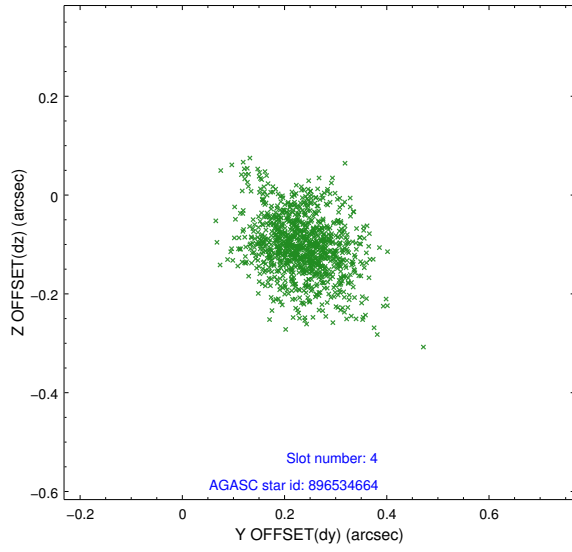
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.12	535	1.000	-0.146	-0.155	0.010	0.019	0.000000	0.000000	-765.99	-847
1	FID		ACIS-I-3	7.47	535	1.000	0.098	0.101	0.008	0.014	0.000000	0.000000	44.43	-975
2	FID		ACIS-I-5	7.24	534	1.000	-0.045	0.125	0.007	0.014	0.000000	0.000000	-1820.15	1054
3	GUIDE	used	896014528	7.65	1069	1.000	-0.104	0.153	0.089	0.156	266.628858	-27.438607	-1798.41	864
4	GUIDE	used	896534664	8.18	1069	1.000	0.233	-0.105	0.088	0.147	266.405570	-28.407461	1489.23	-498
5	GUIDE	used	896538696	6.78	1070	1.000	-0.008	0.015	0.070	0.115	266.298470	-28.325572	1137.30	-776
6	GUIDE	used	896540888	7.88	1070	1.000	-0.212	-0.469	0.075	0.132	267.212234	-28.246138	1415.07	2120
7	GUIDE	used	896402656	8.81	1068	1.000	0.091	0.408	0.090	0.172	265.739192	-28.230753	470.50	-2451

2.4 Star Slots

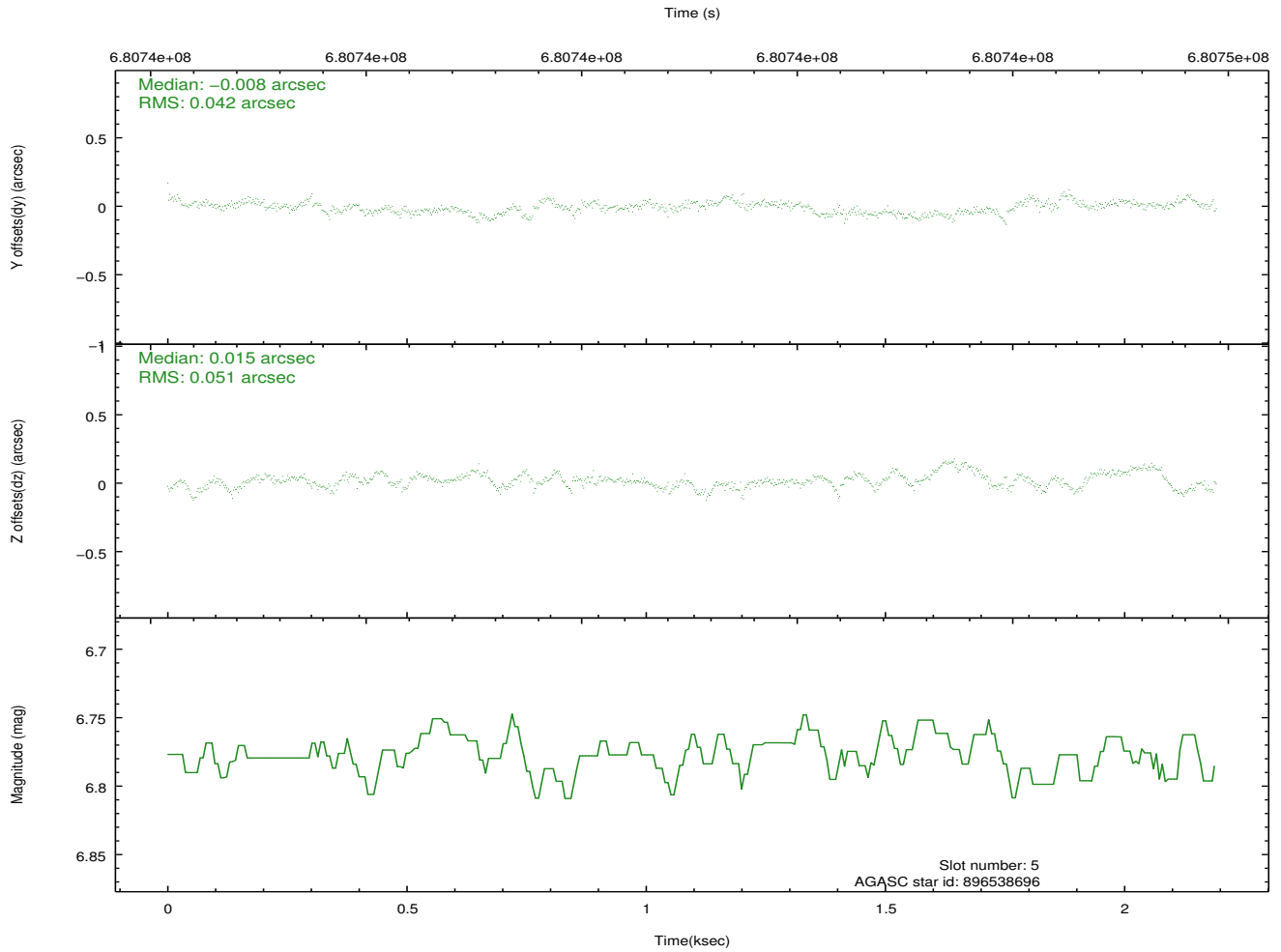
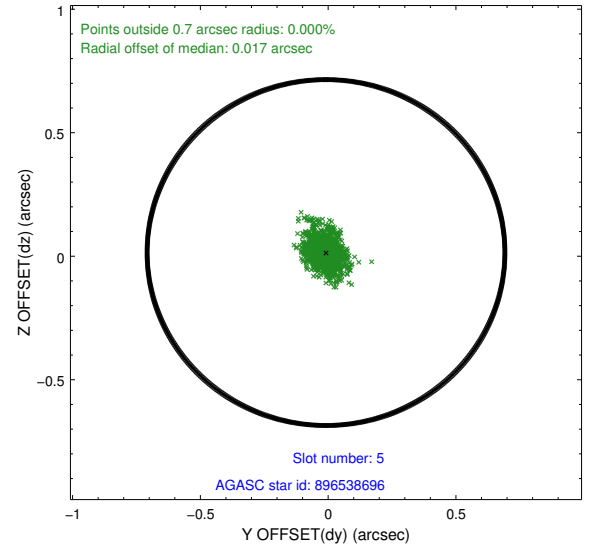
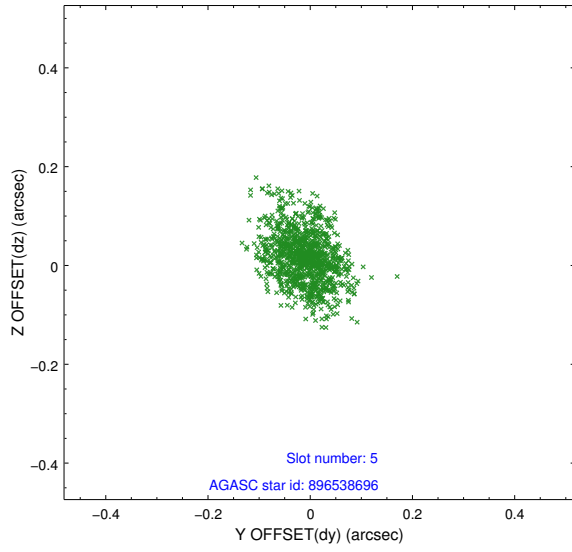
2.4.1 Slot 3



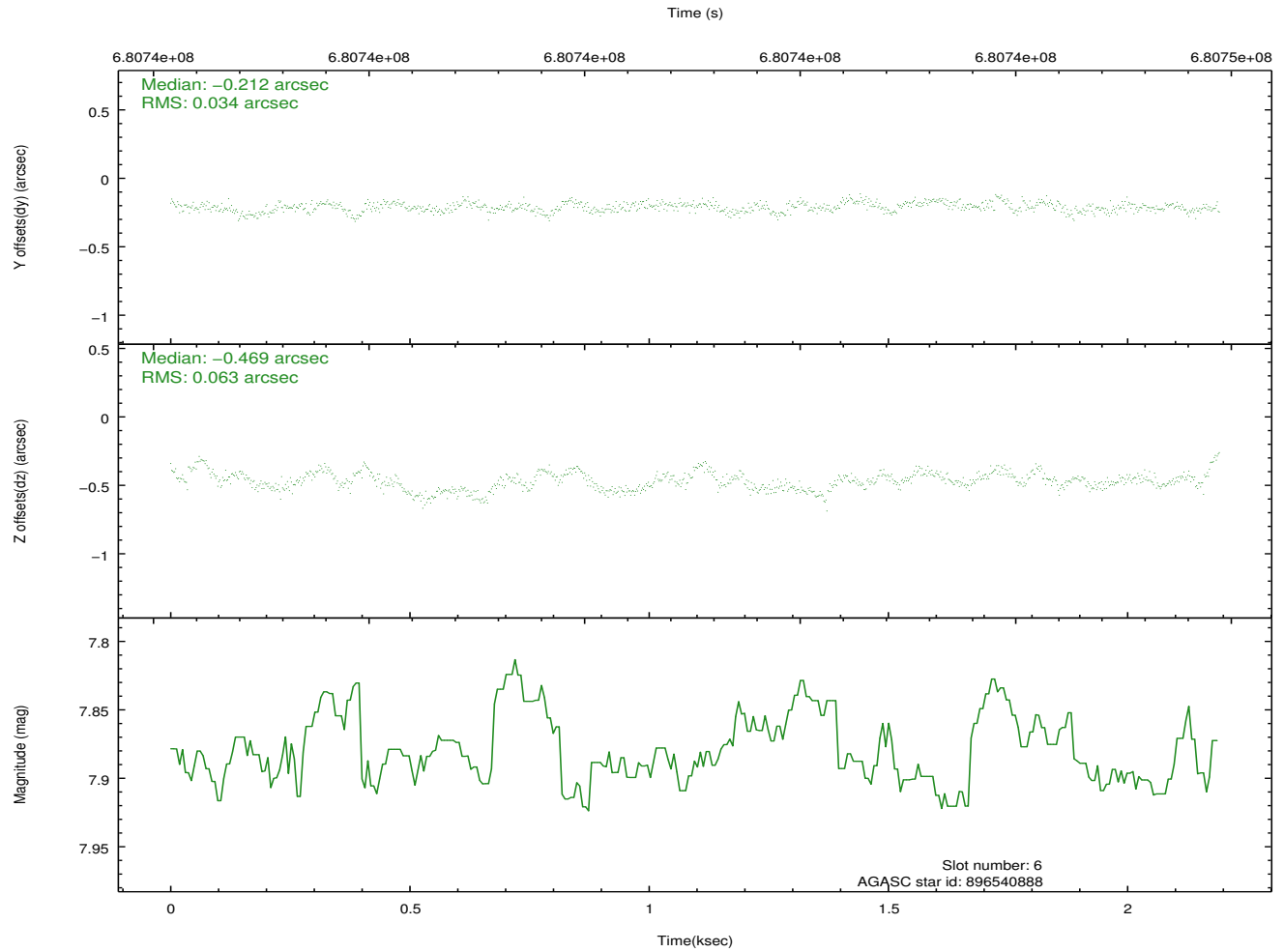
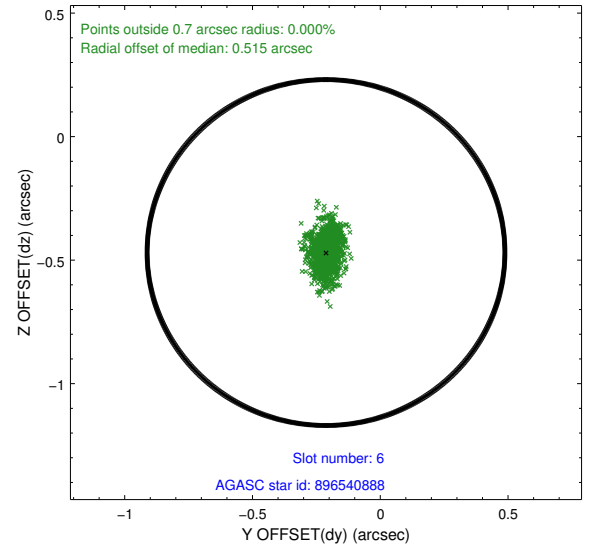
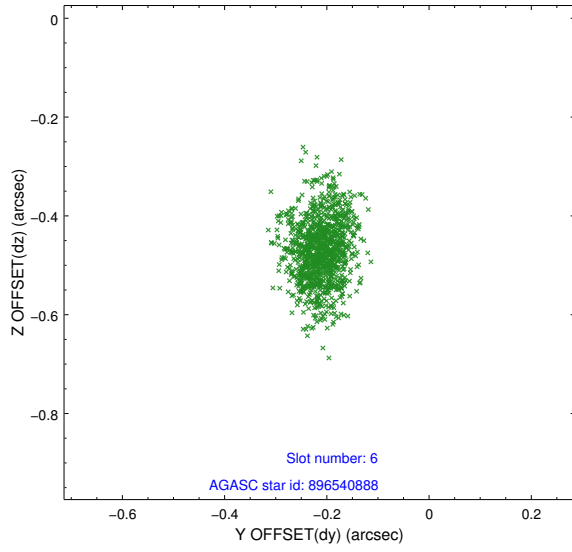
2.4.2 Slot 4



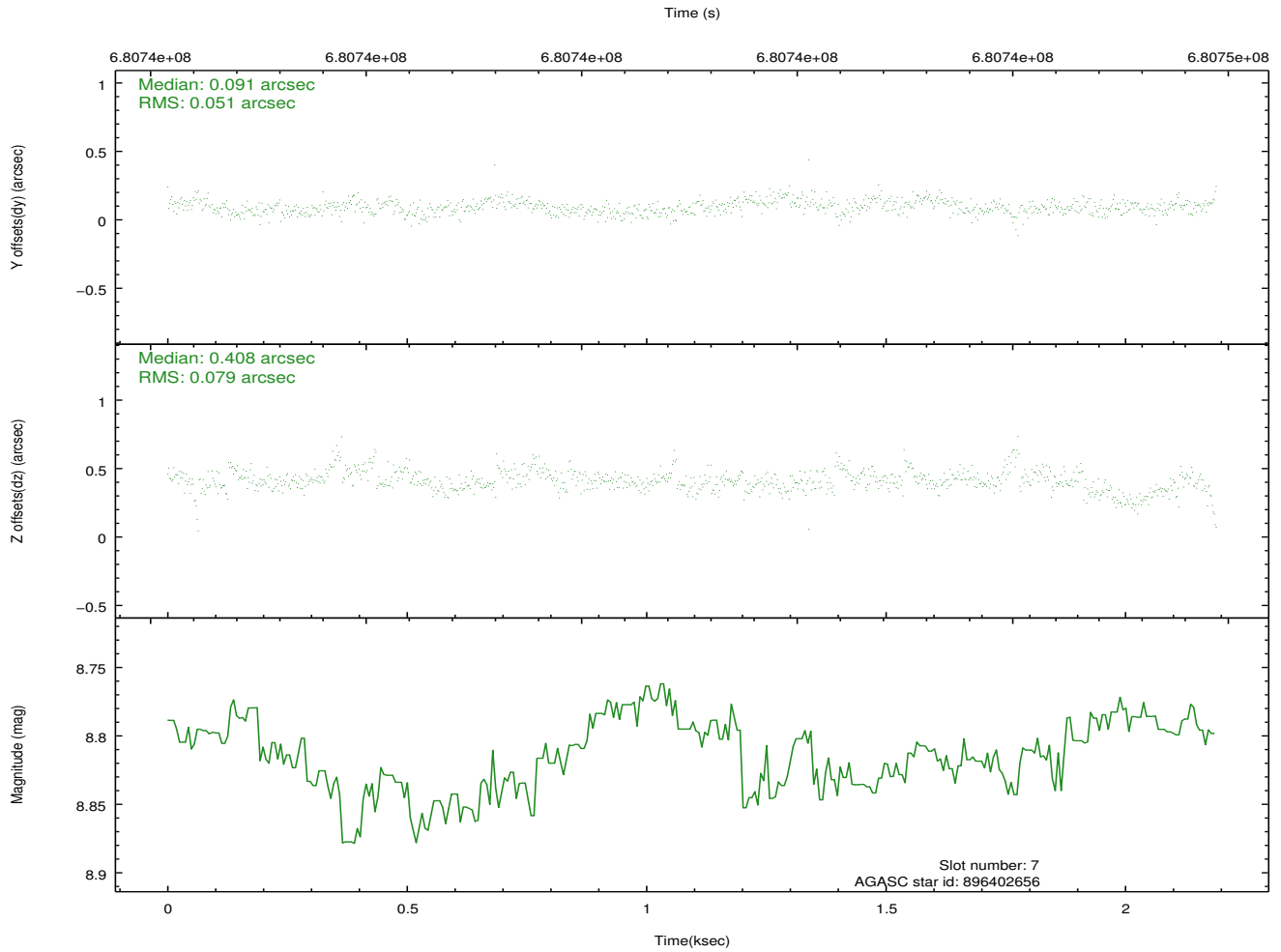
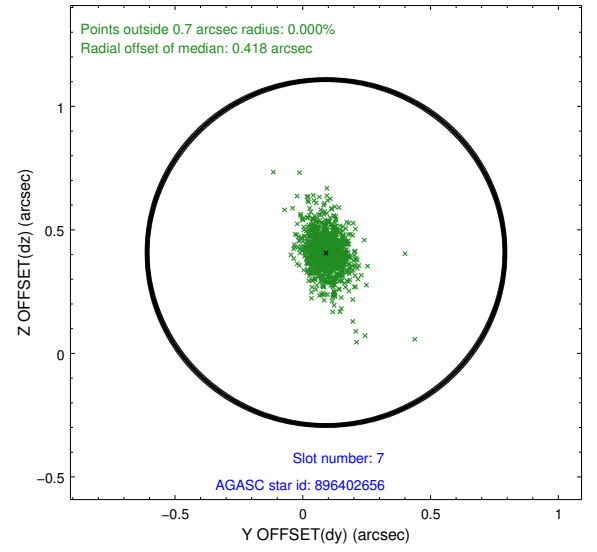
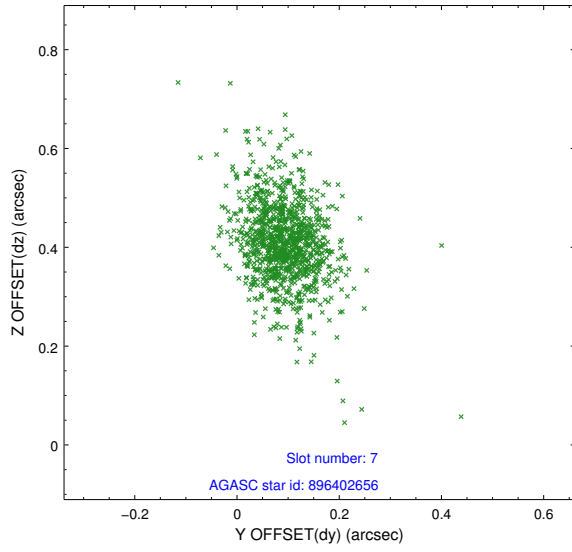
2.4.3 Slot 5



2.4.4 Slot 6

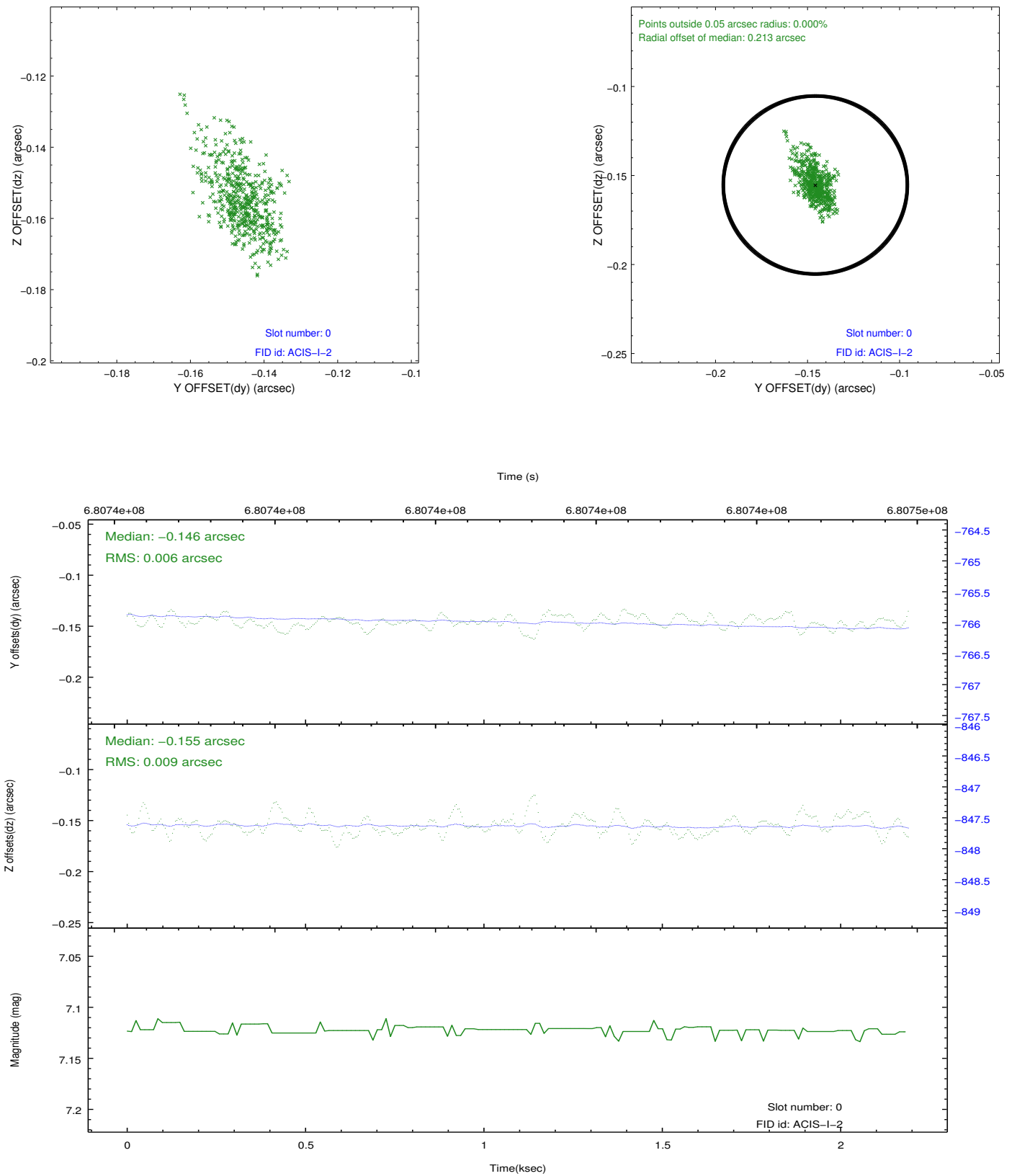


2.4.5 Slot 7

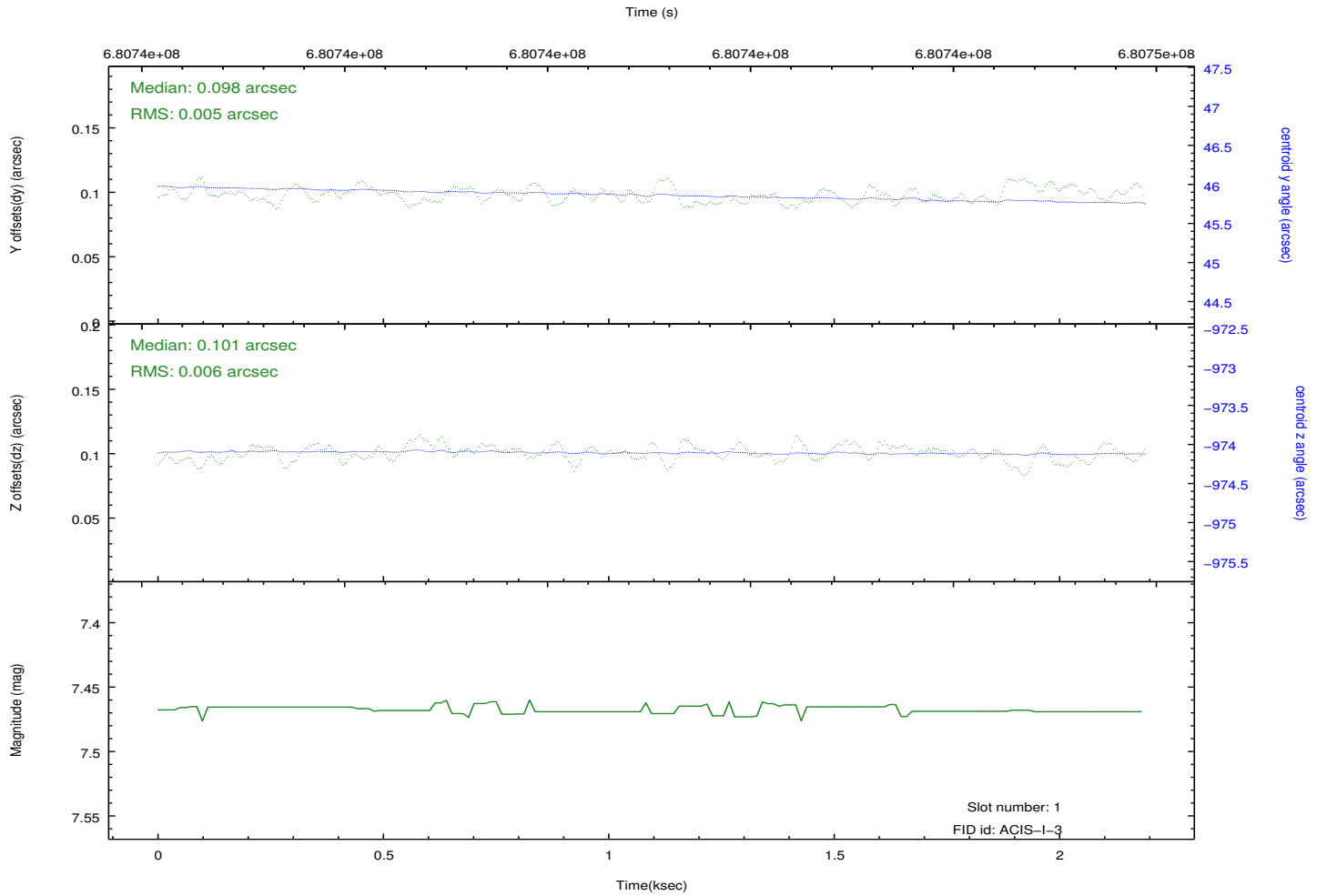
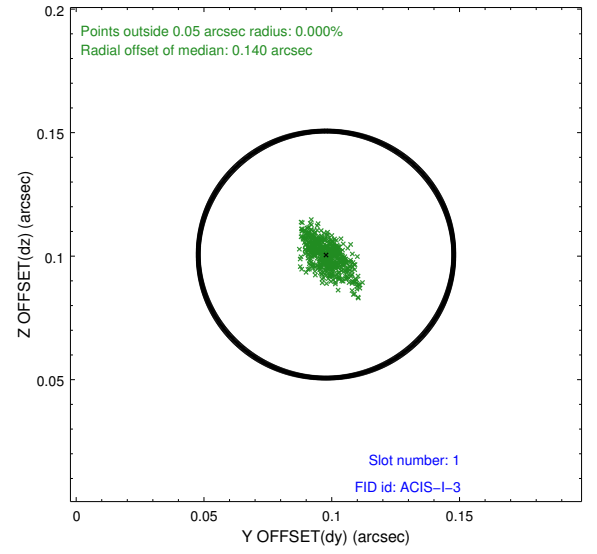
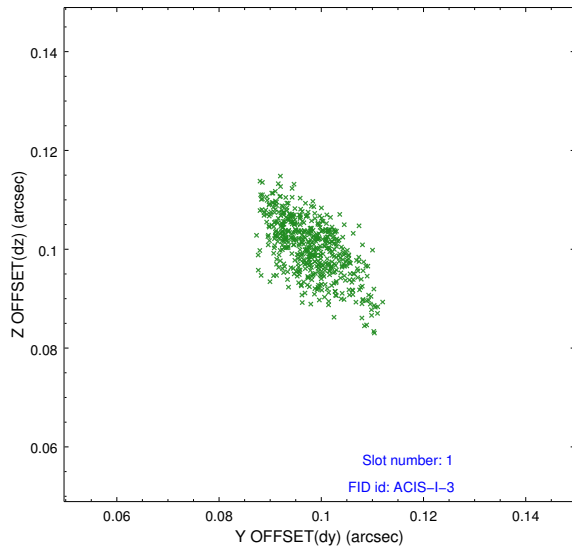


2.5 FID Slots

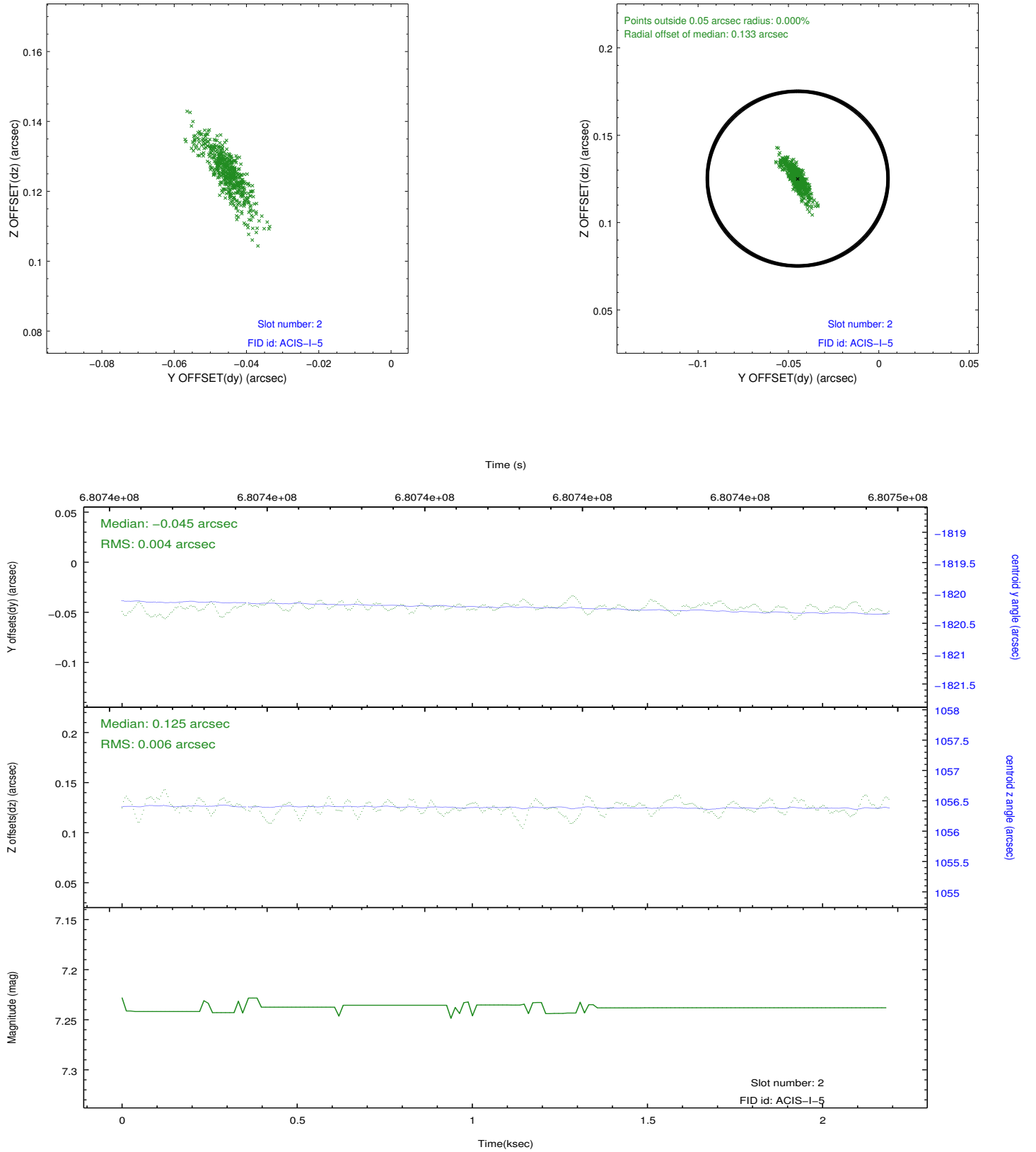
2.5.1 Slot 0



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)	2019.07.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9023739275932

A.2 Comments