

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21614 - L2 Version 1
Chandra X-Ray Center

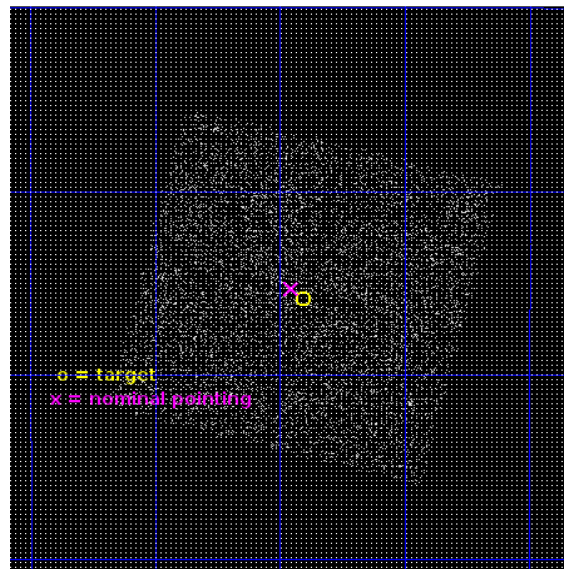
L2 Processing Date : Jul 8 2019

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1 Front

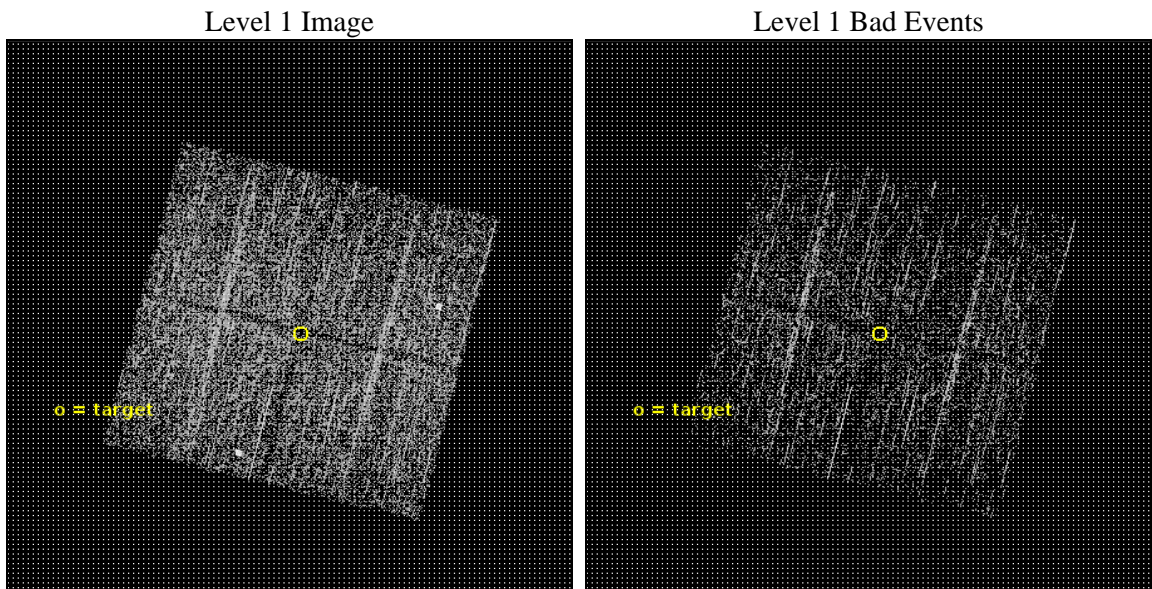
seq_num	300446	Sequence number
obs_id	21614	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.10156	Observer's specified target RA [deg]
dec_targ	-29.430495	Observer's specified target Dec [deg]
ra_nom	265.11360478946	Nominal RA [deg]
dec_nom	-29.421769427815	Nominal Dec [deg]
roll_nom	284.21461905771	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.9968316555	Sum of GTIs [s]
livetime	1884.0543826669	Livetime [s]
ontime0	1908.8737117052	Sum of GTIs [s]
ontime1	1908.9147616625	Sum of GTIs [s]
ontime2	1908.9557917118	Sum of GTIs [s]
ontime3	1908.9968316555	Sum of GTIs [s]
l2events	5877	Number of level 2 events



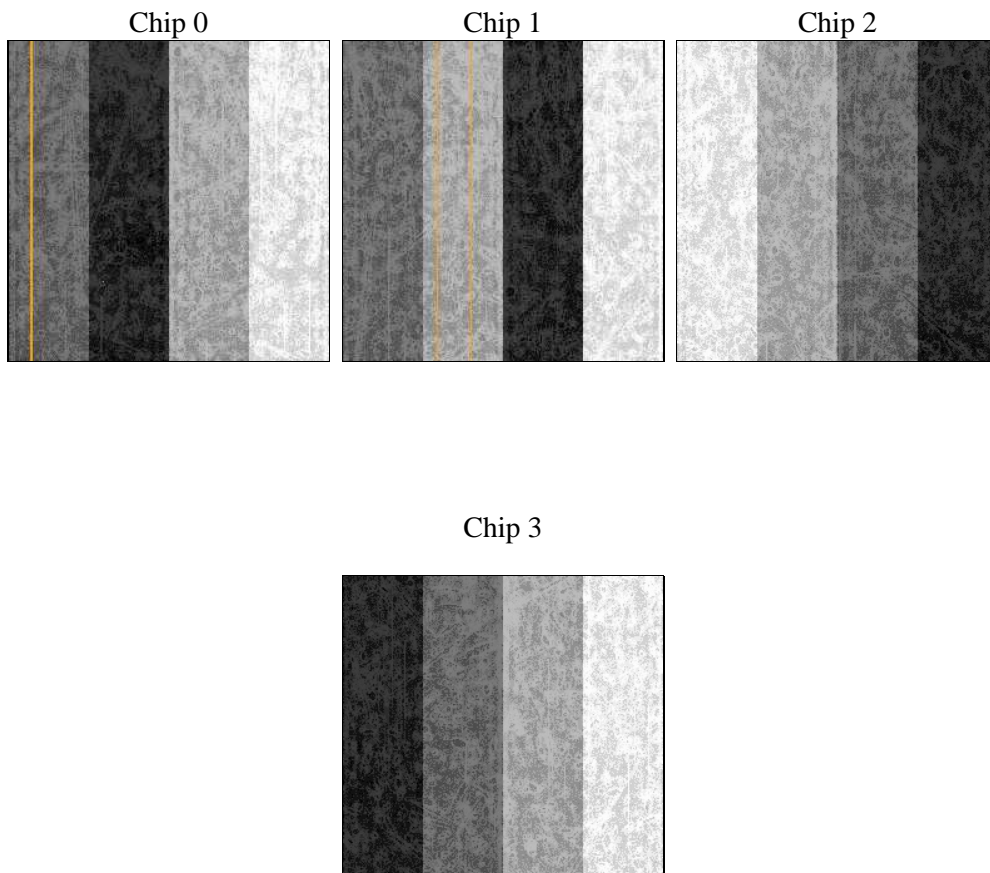
2 OBI

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	1908.9968316555	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.8737117052	Sum of GTIs [s]
date	2019-07-08T11:20:22	Date and time of file creation	ontime1	1908.9147616625	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.9557917118	Sum of GTIs [s]
			ontime3	1908.9968316555	Sum of GTIs [s]
			l1events	58332	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13946	14095	15933	14358
rejected events	12199	11682	13629	12710
rejected %	87%	82%	85%	88%

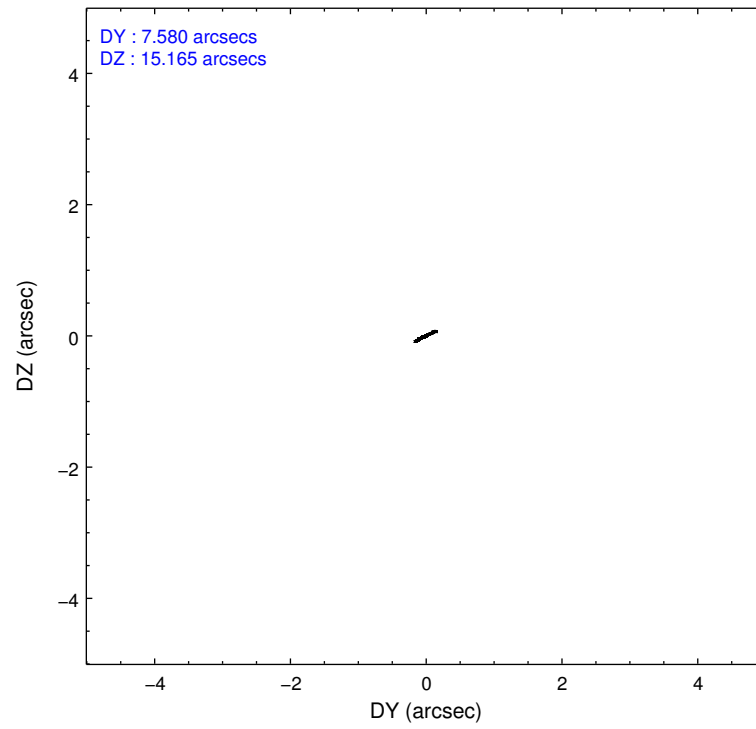
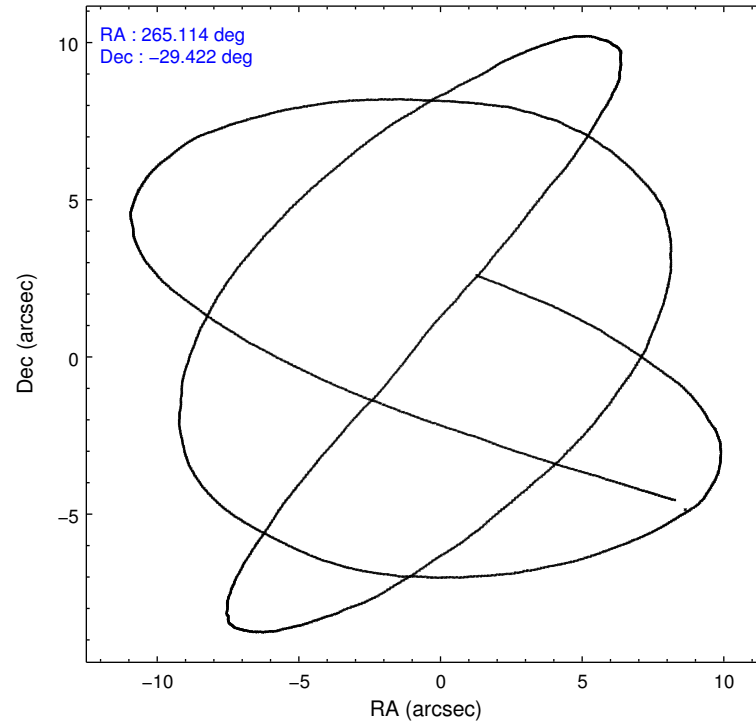
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	613	1201	1278	623
	4%	8%	8%	4%
grade 1 events	13	10	20	9
	0%	0%	0%	0%
grade 2 events	418	440	358	308
	2%	3%	2%	2%
grade 3 events	190	181	176	181
	1%	1%	1%	1%
grade 4 events	150	159	181	195
	1%	1%	1%	1%
grade 5 events	627	626	595	730
	4%	4%	3%	5%
grade 6 events	379	439	316	342
	2%	3%	1%	2%
grade 7 events	11556	11039	13009	11970
	82%	78%	81%	83%

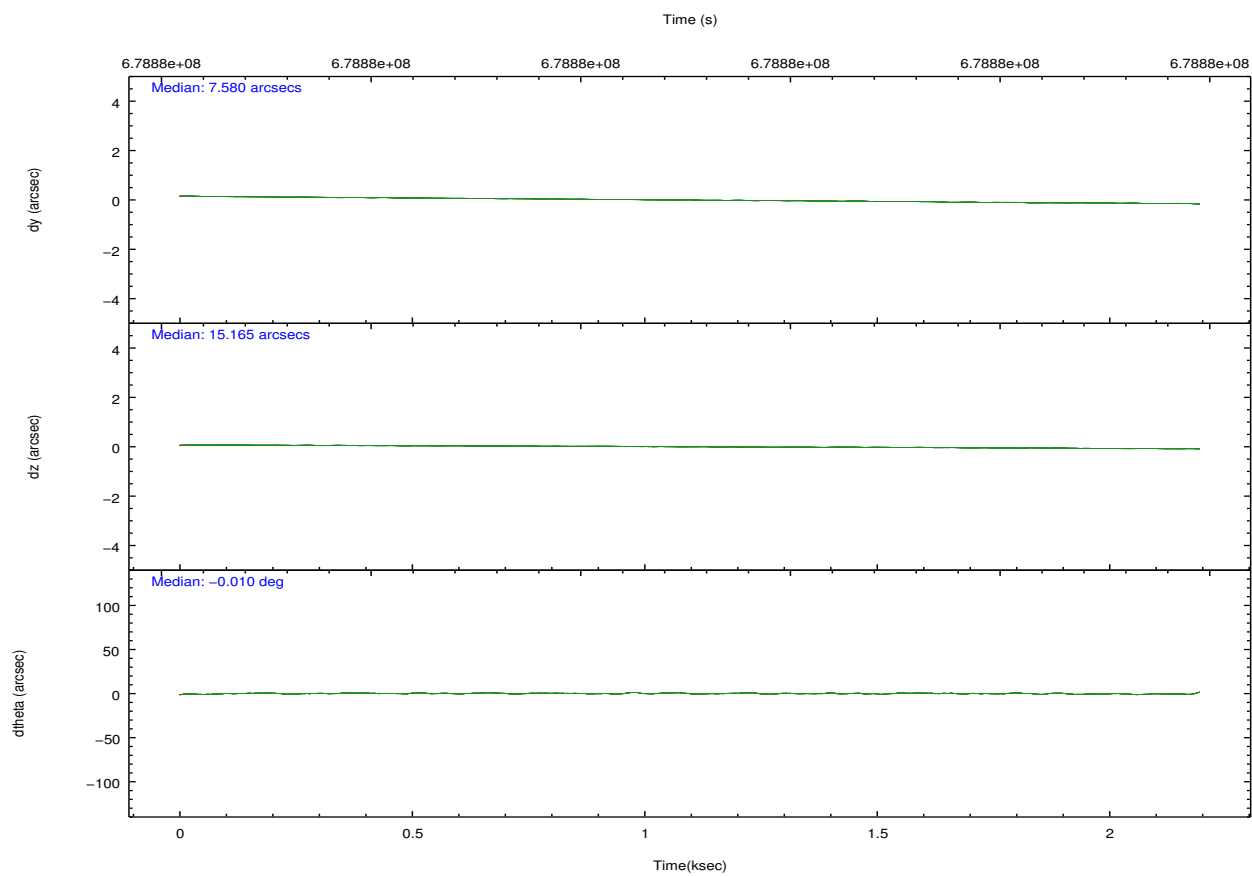
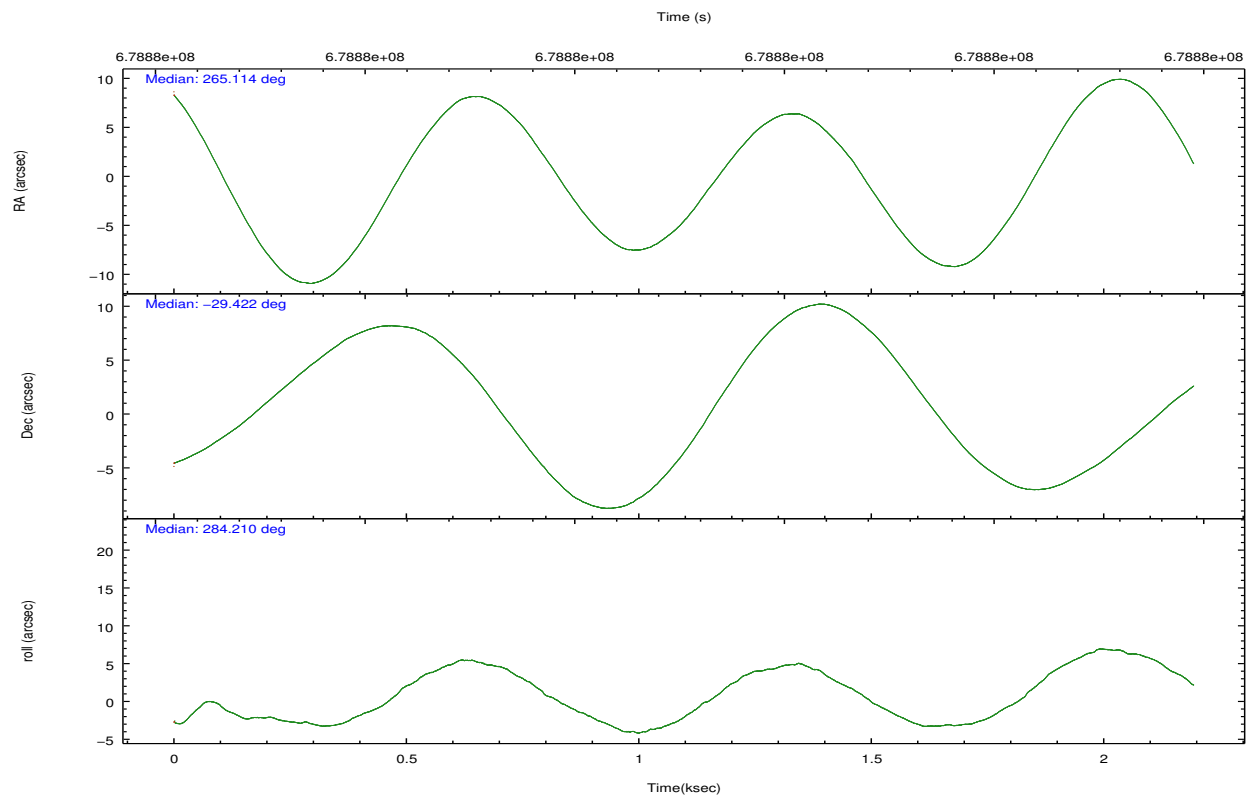
2.2 Compared Parameters

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	265.091309	265.113604789462
[deg] Pointing Dec	-29.402004	-29.42176942781458
[deg] Pointing Roll	283.994971	284.2146190577145
[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)	678876845.184000	678876470.1435601
Observation start date	2019-07-07T08:52:56	2019-07-07T08:47:50
[s] Observation end time (MET)	678878845.184000	678878979.3437099
Observation end date	2019-07-07T09:26:16	2019-07-07T09:29:39
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



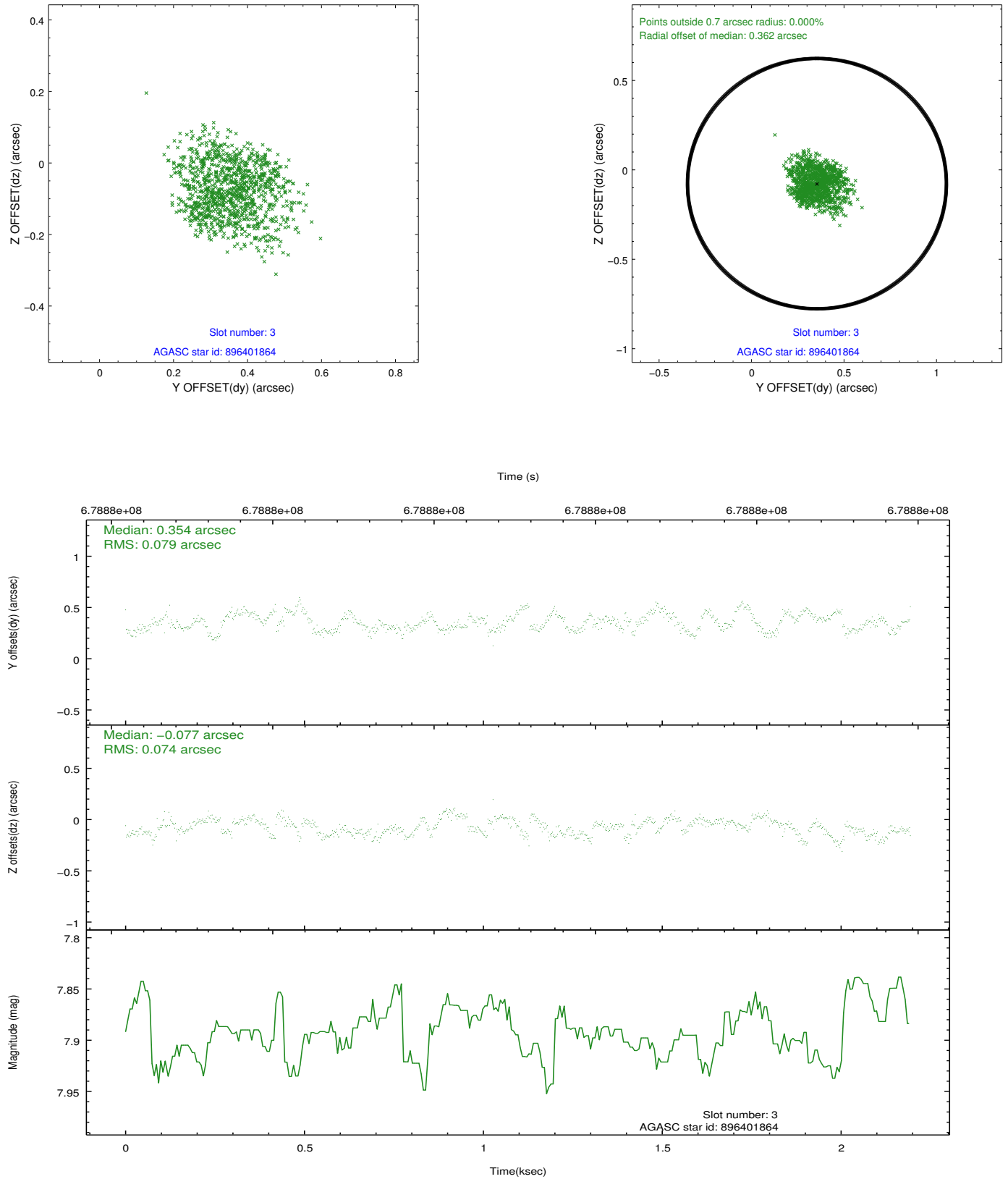


Slot Statistics

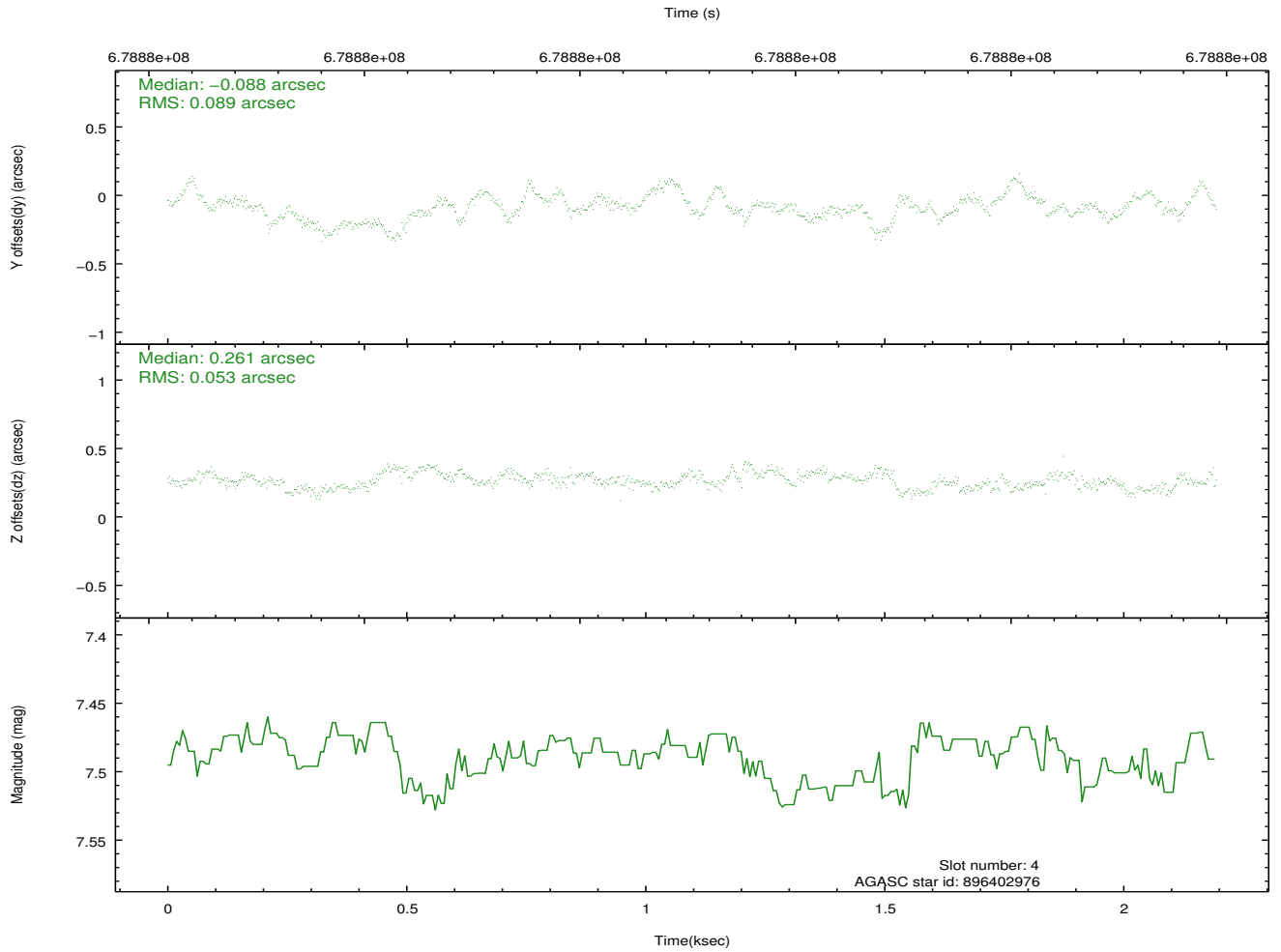
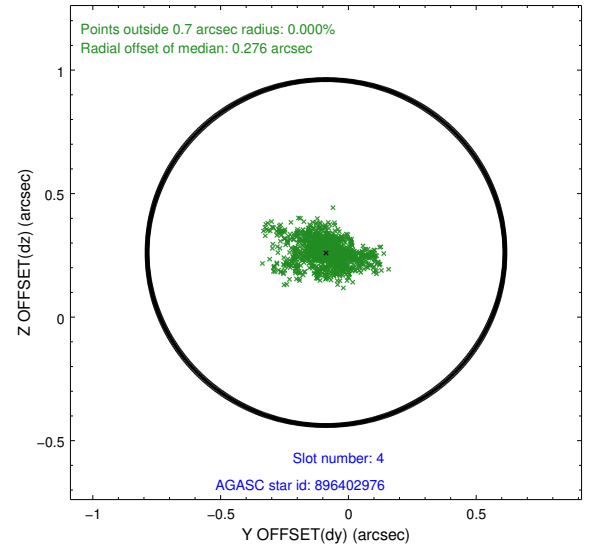
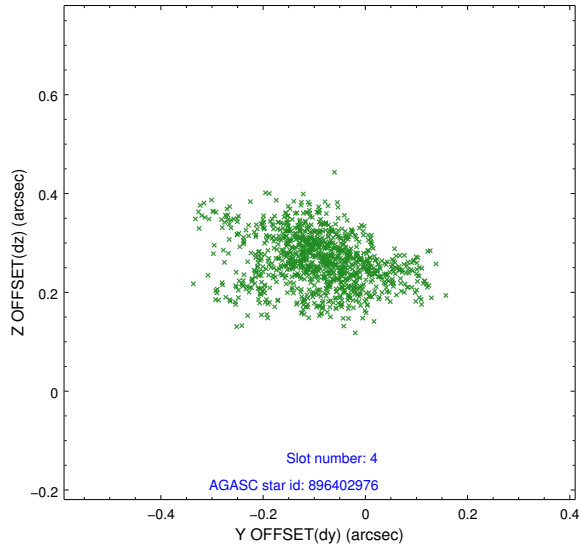
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.20	536	1.000	0.232	-0.220	0.007	0.011	0.000000	0.000000	932.44	-838
1	FID		ACIS-I-3	7.42	536	1.000	-0.102	0.196	0.008	0.013	0.000000	0.000000	51.28	-973
2	FID		ACIS-I-5	7.19	536	1.000	-0.220	0.096	0.007	0.014	0.000000	0.000000	-1816.38	1056
3	GUIDE	used	896401864	7.89	1070	1.000	0.354	-0.077	0.118	0.175	264.861768	-29.959752	1776.40	-1180
4	GUIDE	used	896402976	7.49	1071	1.000	-0.088	0.261	0.106	0.195	265.099474	-28.923203	-1664.57	440
5	GUIDE	used	896403224	8.26	1071	1.000	-0.189	-0.083	0.139	0.213	265.612825	-29.438915	526.58	1553
6	GUIDE	used	896404376	6.68	1071	1.000	0.013	0.129	0.107	0.171	264.835179	-29.530972	258.28	-889
7	GUIDE	used	896405480	8.23	1070	1.000	-0.092	-0.234	0.109	0.167	265.220460	-29.599691	788.83	219

2.4 Star Slots

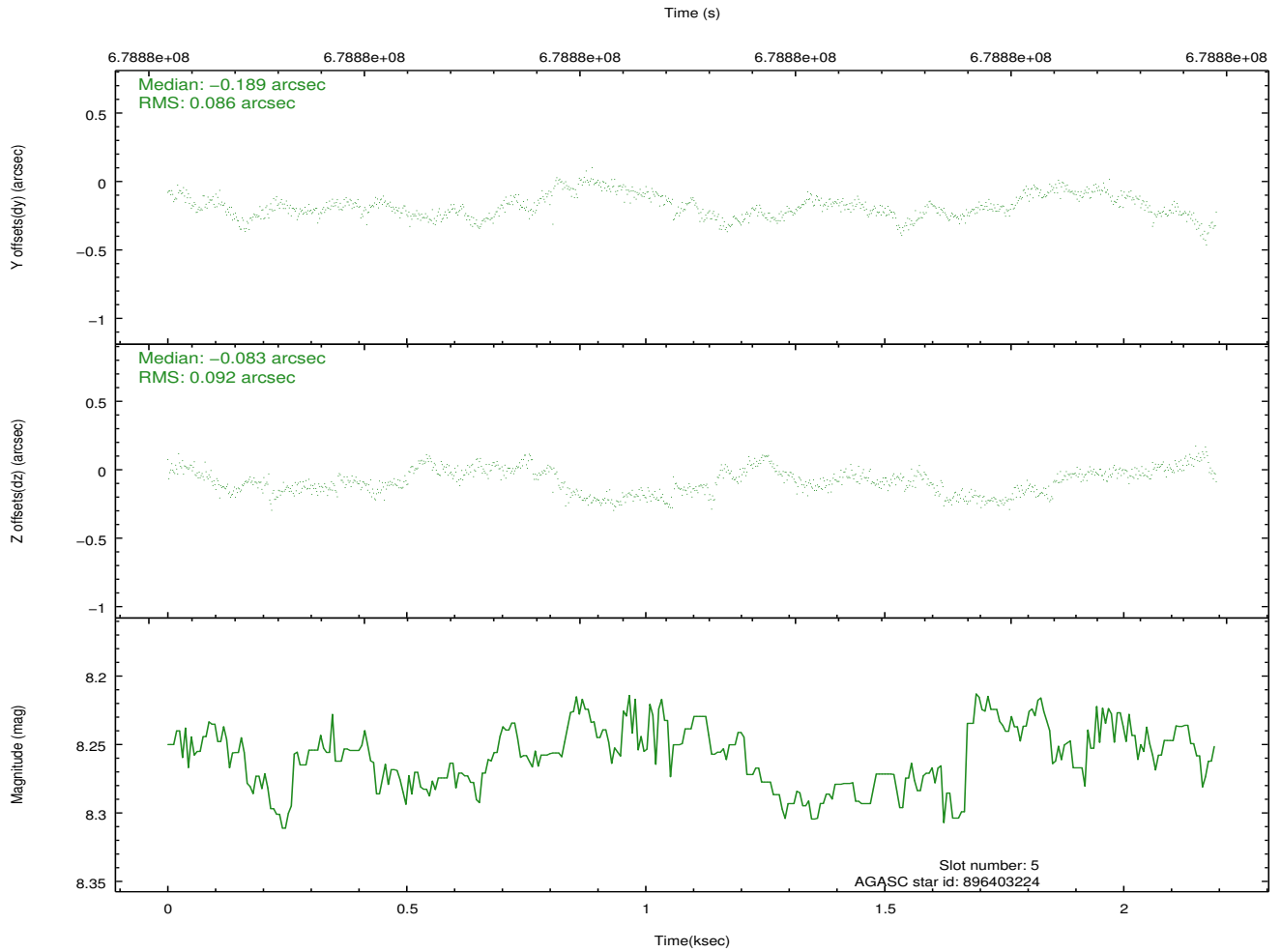
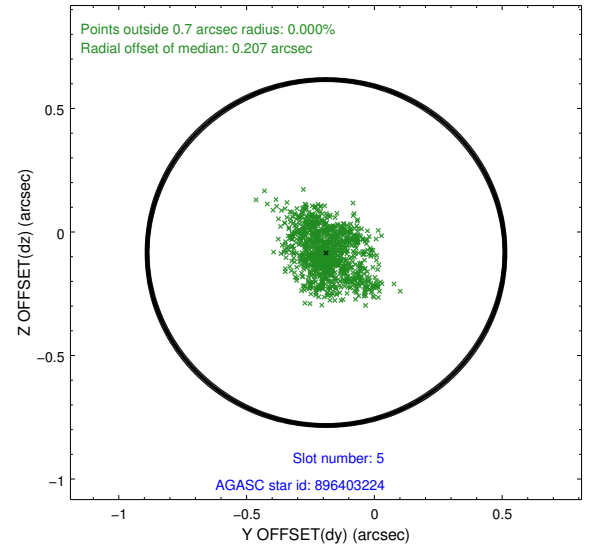
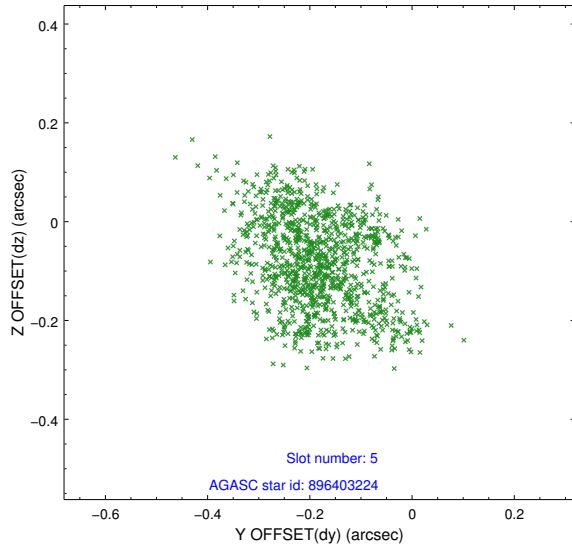
2.4.1 Slot 3



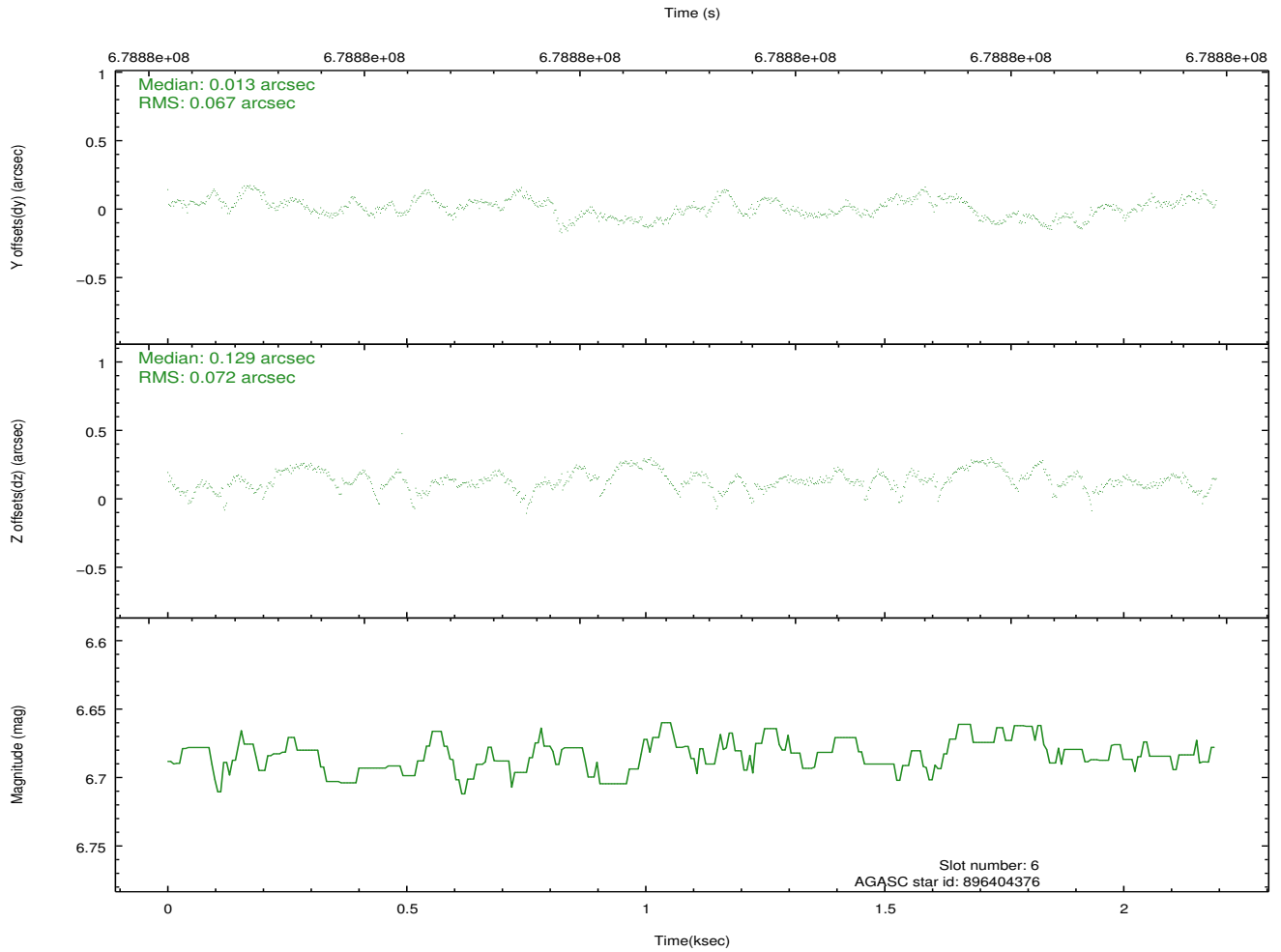
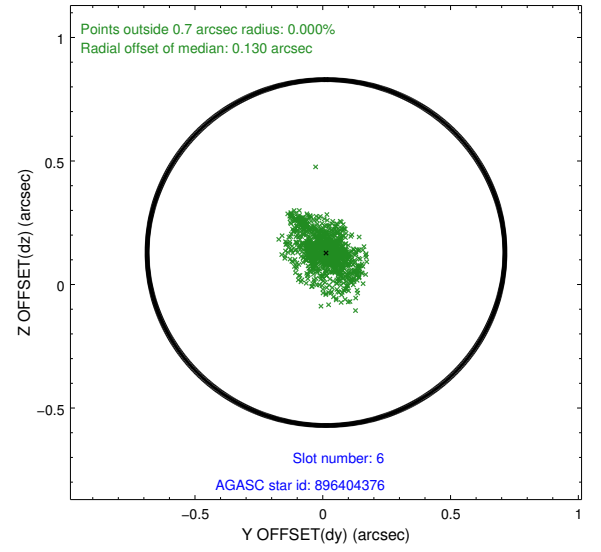
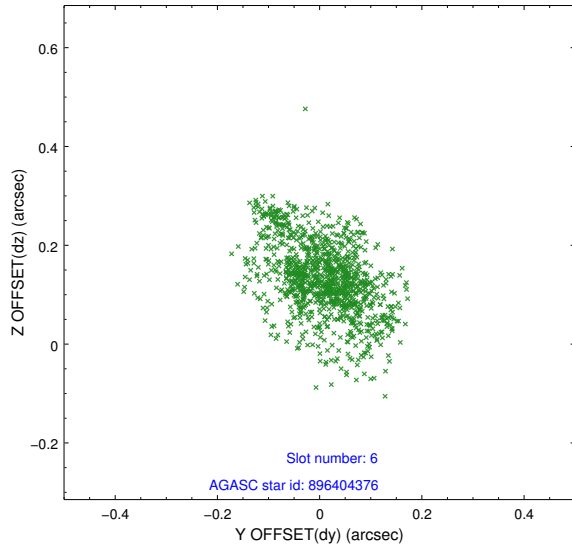
2.4.2 Slot 4



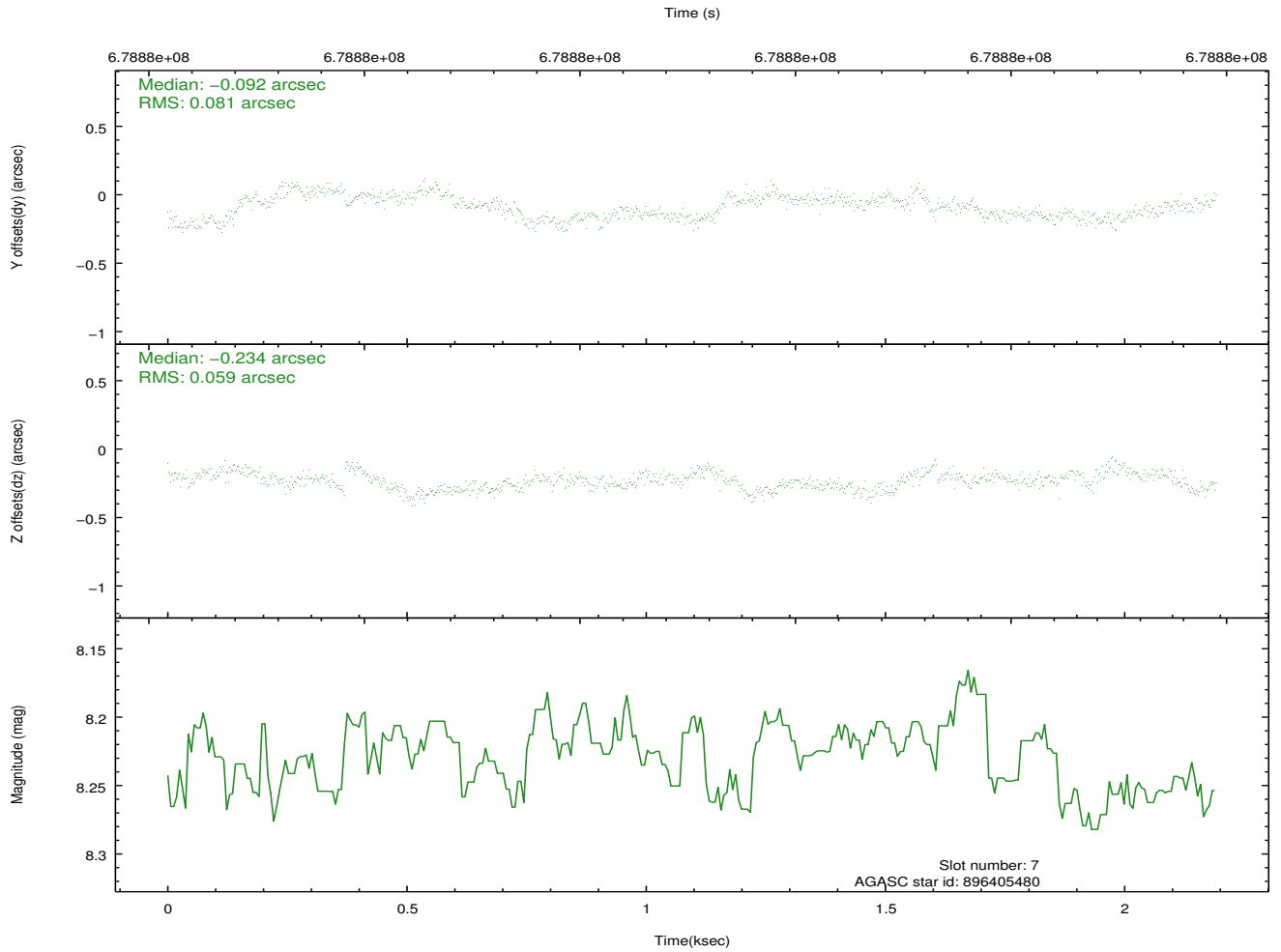
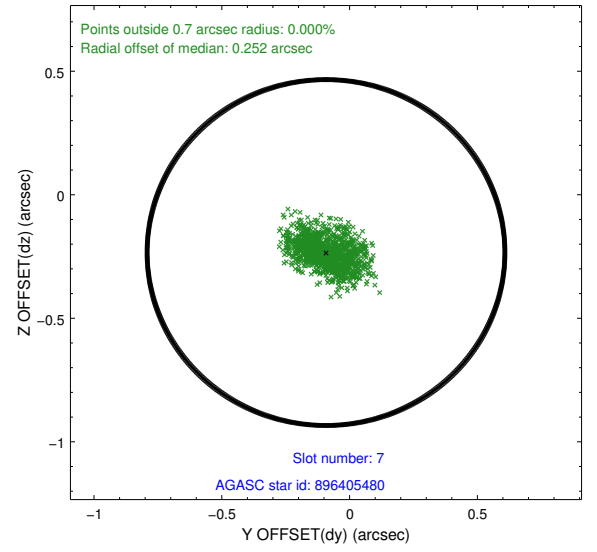
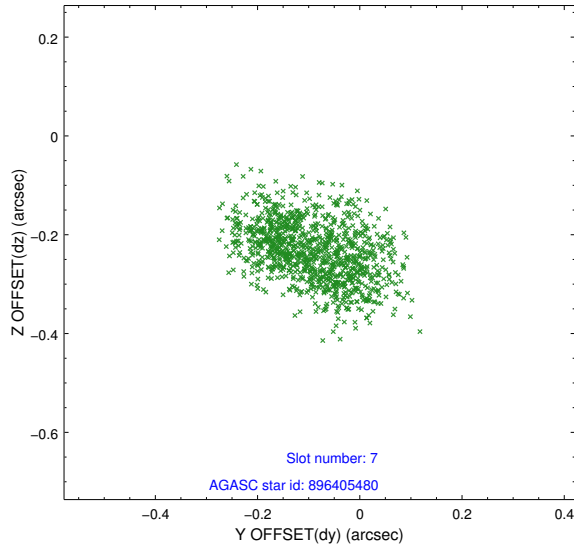
2.4.3 Slot 5



2.4.4 Slot 6

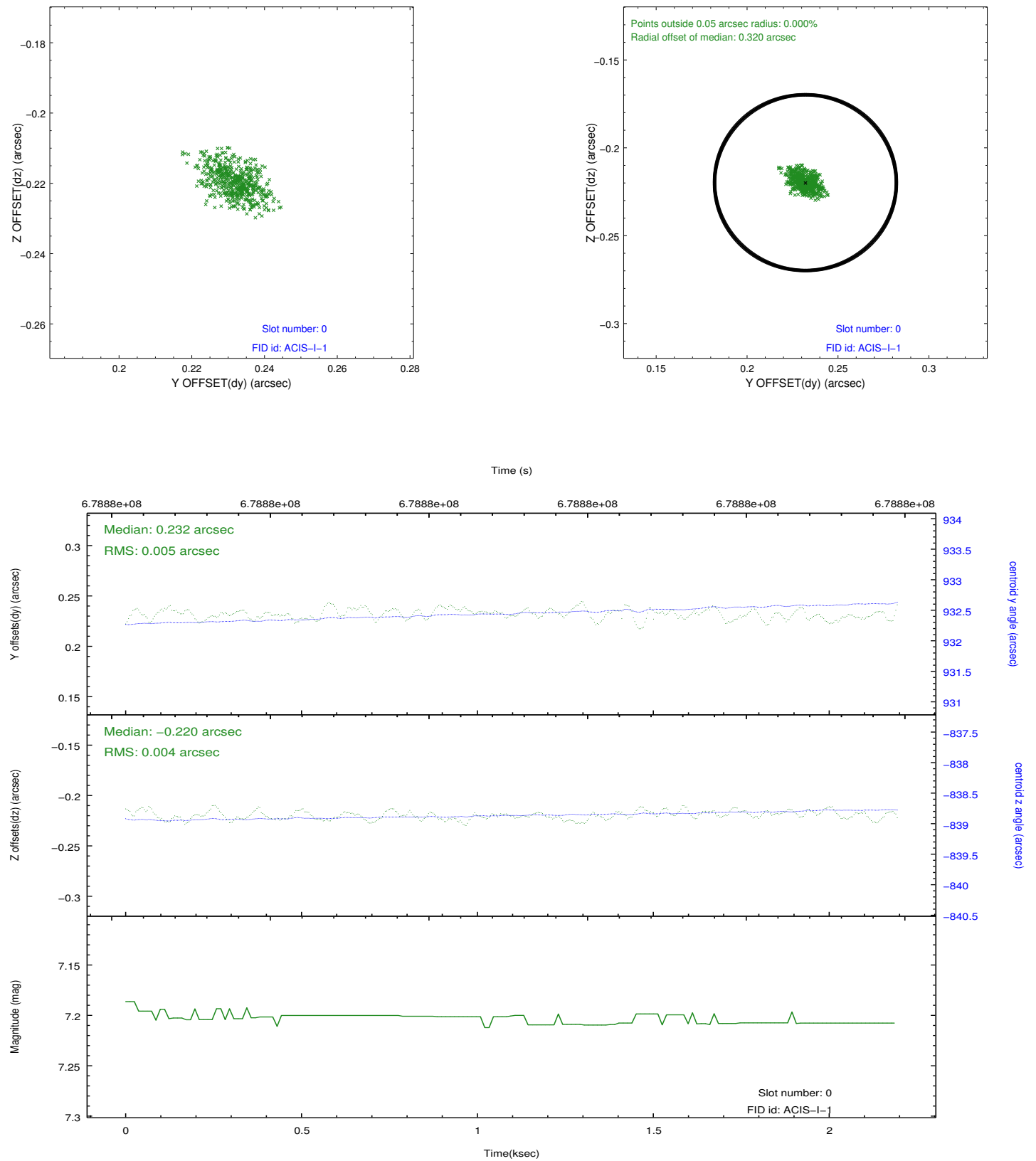


2.4.5 Slot 7

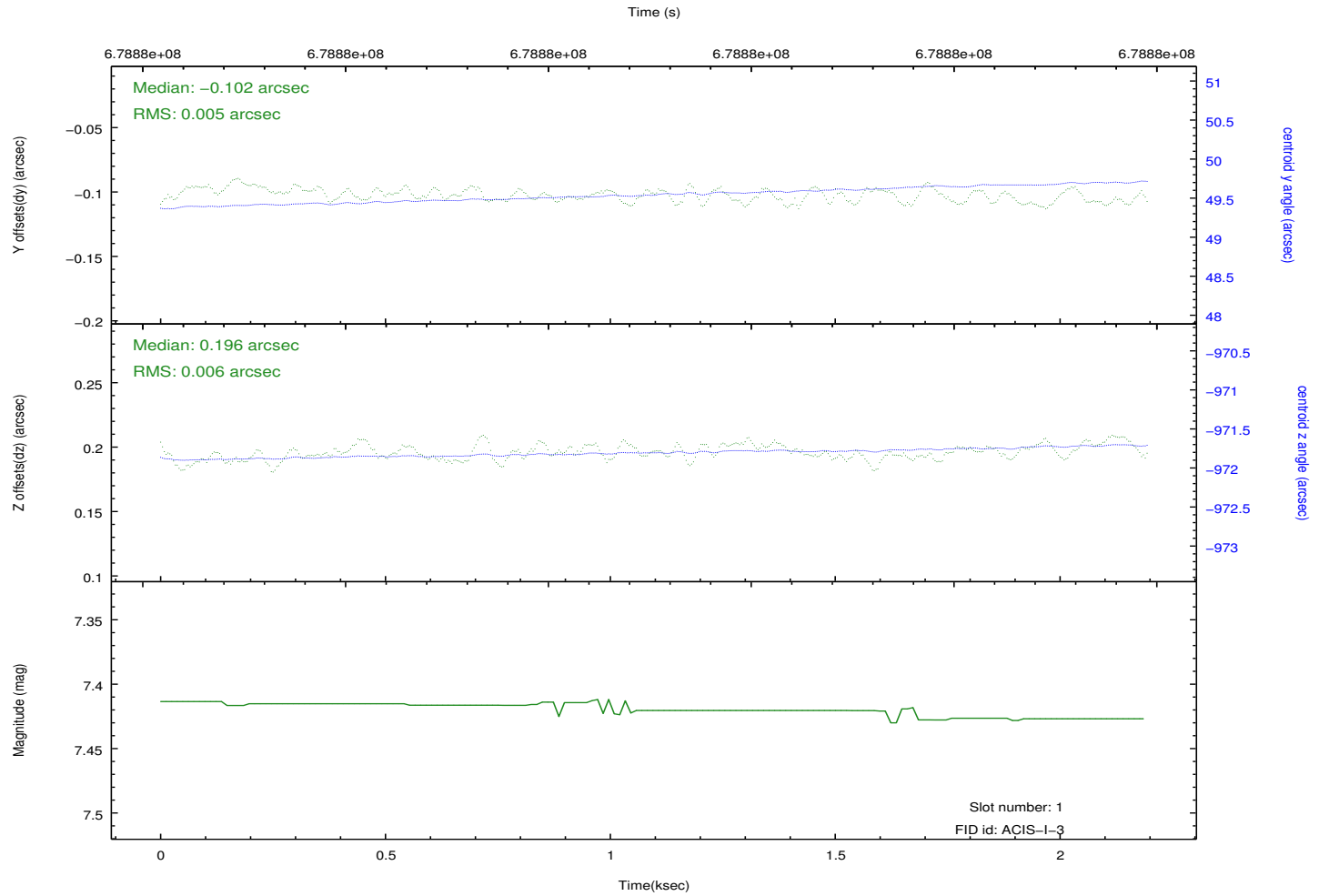
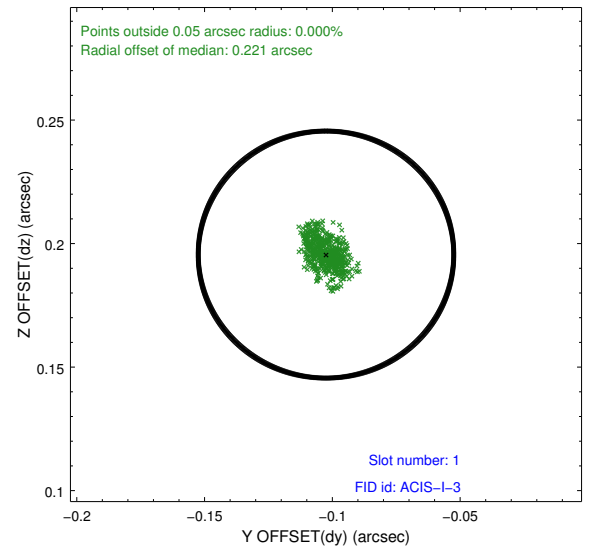
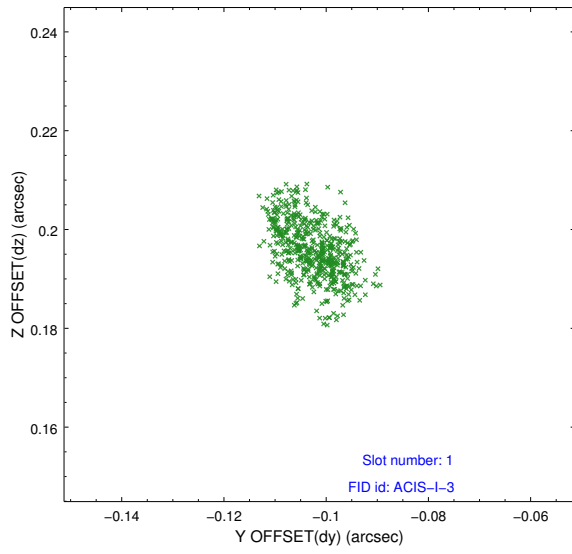


2.5 FID Slots

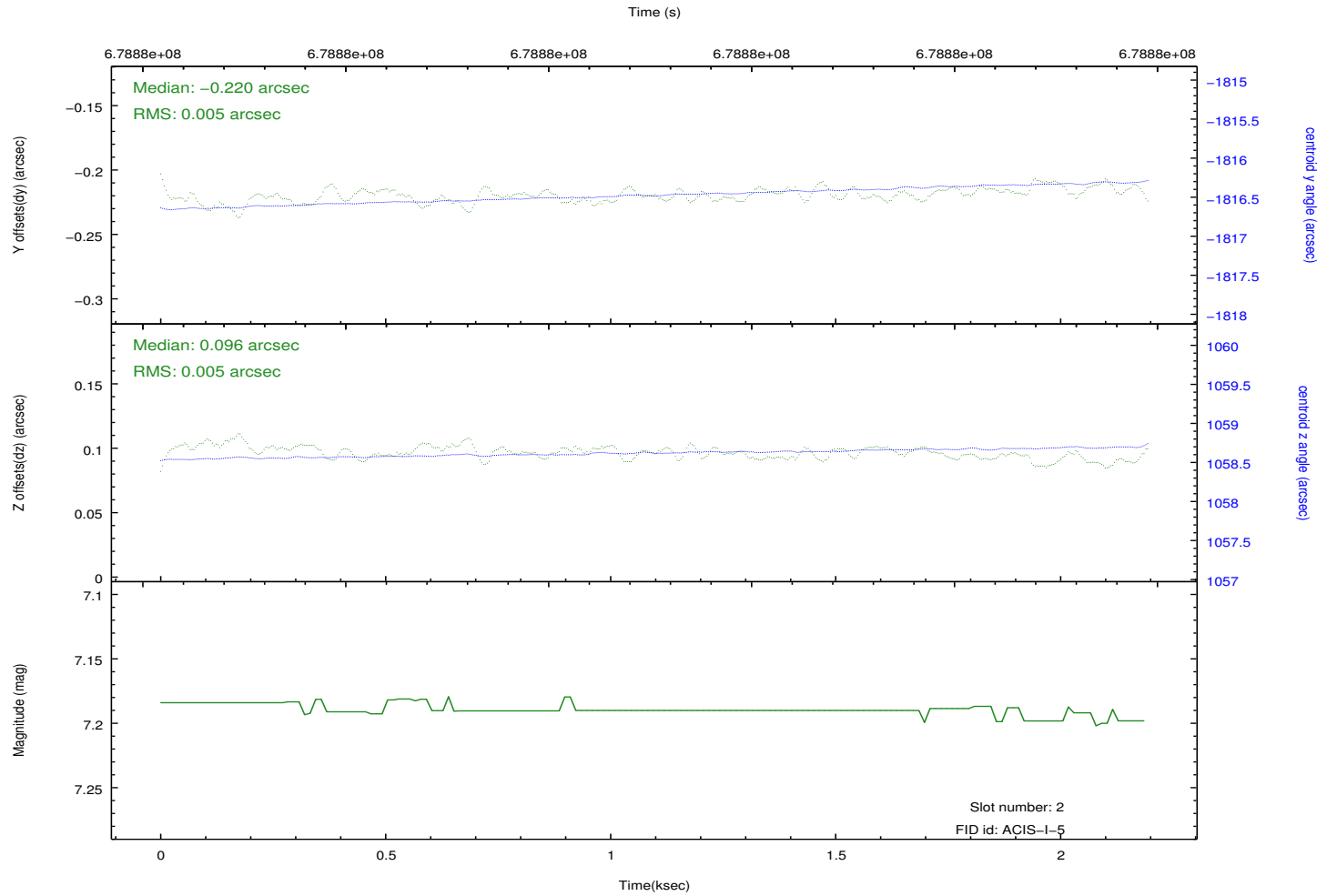
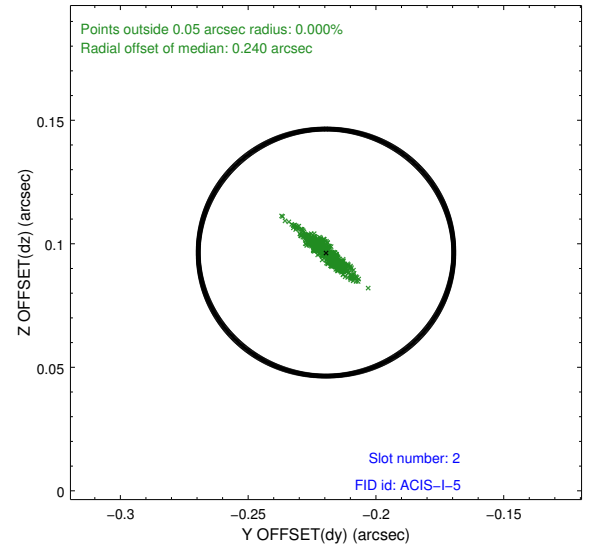
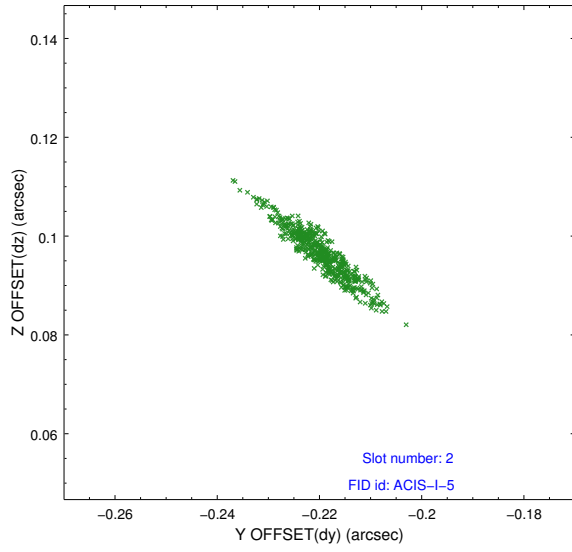
2.5.1 Slot 0



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	1.9089968316555

A.2 Comments