

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22142 - L2 Version 1
Chandra X-Ray Center

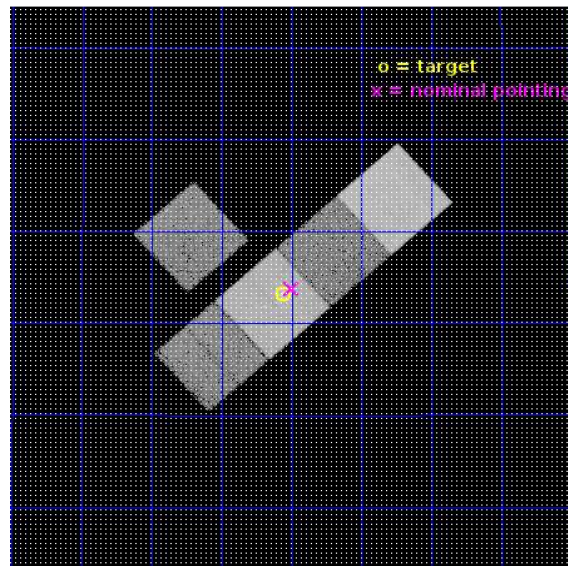
L2 Processing Date : Mar 14 2019

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1 Front

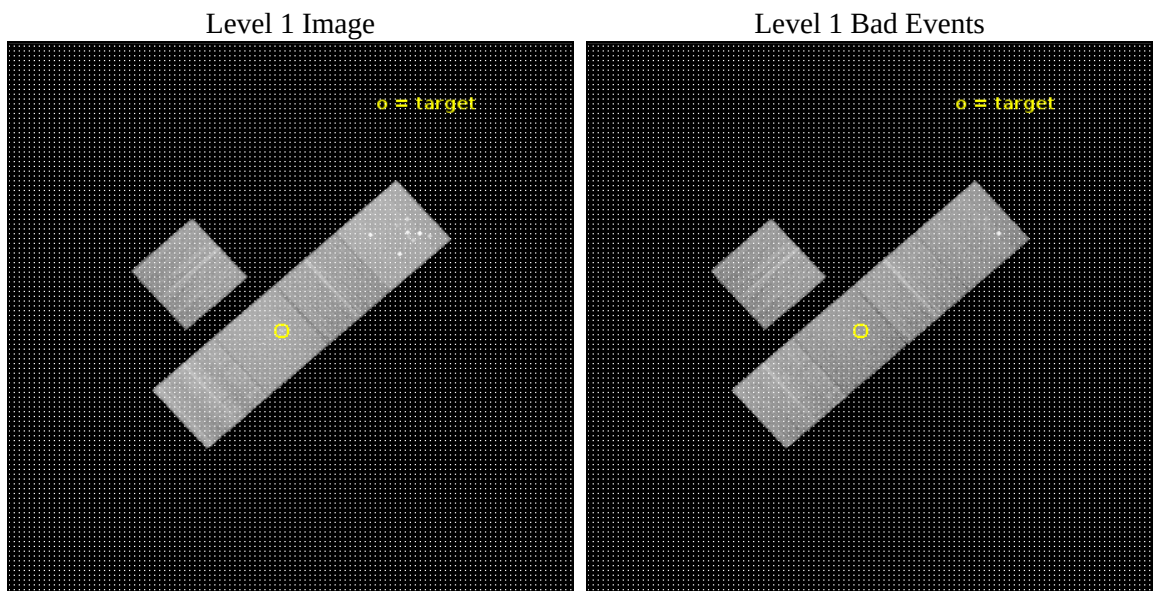
seq_num	801753	Sequence number
obs_id	22142	Observation id
title	Fuelling and self-regulation of AGN feedback at the Bondi radius of M84	Proposal title
observer	Helen Russell	Principal investigator
object	M84	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.265833	Observer's specified target RA [deg]
dec_targ	12.886944	Observer's specified target Dec [deg]
ra_nom	186.25026941508	Nominal RA [deg]
dec_nom	12.89641376644	Nominal Dec [deg]
roll_nom	138.16007901281	Nominal Roll [deg]
revision	1	Processing version of data
ontime	21042.800161958	Sum of GTIs [s]
livetime	20767.860486358	Livetime [s]
ontime3	21039.6591717	Sum of GTIs [s]
ontime5	21042.800161958	Sum of GTIs [s]
ontime6	21042.800161958	Sum of GTIs [s]
ontime7	21042.800161958	Sum of GTIs [s]
ontime8	21042.800161958	Sum of GTIs [s]
l2events	270634	Number of level 2 events



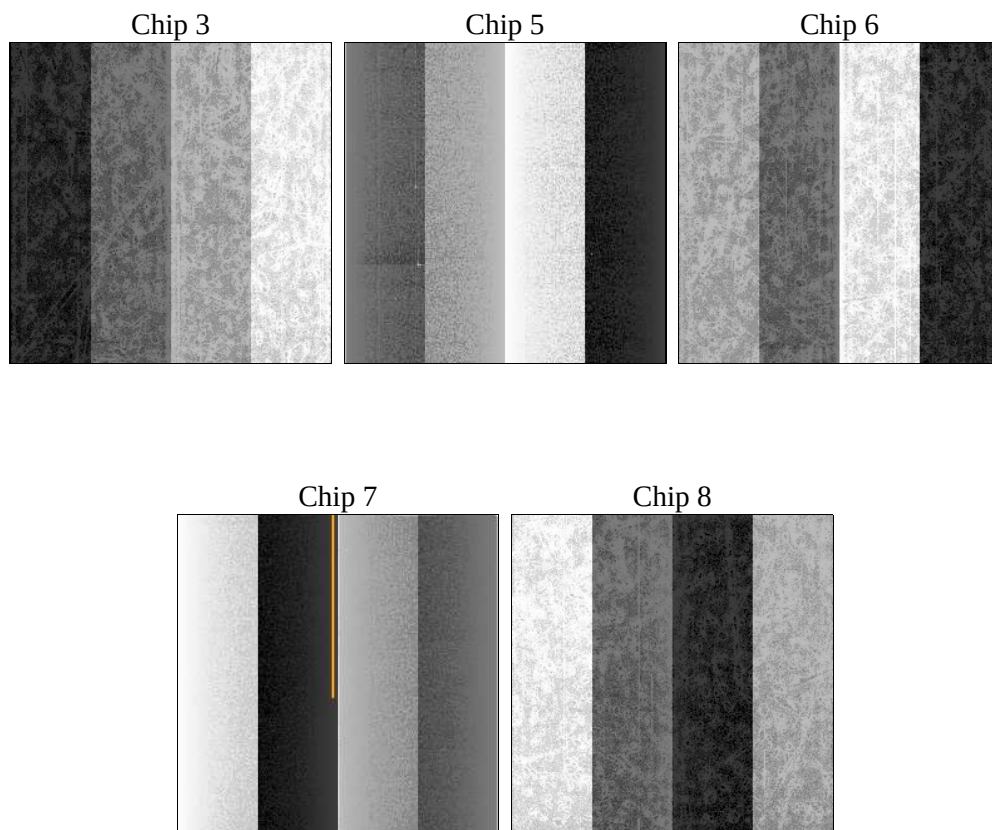
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	21042.800161958	Sum of GTIs [s]
caldsver	4.8.2	 	ontime3	21039.6591717	Sum of GTIs [s]
date	2019-03-14T13:16:46	Date and time of file creation	ontime5	21042.800161958	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	21042.800161958	Sum of GTIs [s]
			ontime7	21042.800161958	Sum of GTIs [s]
			ontime8	21042.800161958	Sum of GTIs [s]
			l1events	1042173	Number of level 1 events

2.1.4 Events

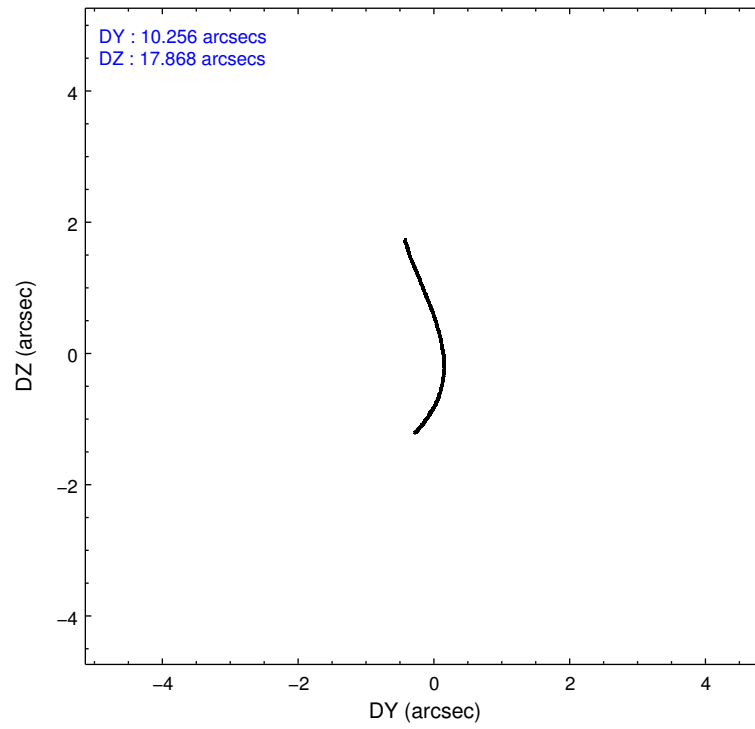
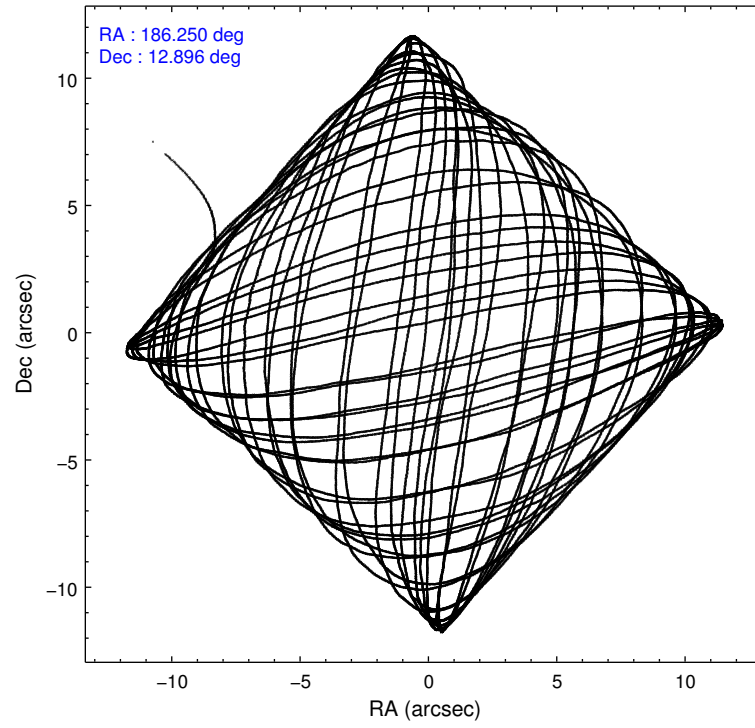
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	161172	285339	168512	213895	213255
rejected events	138932	138763	148563	117643	154305
rejected %	86%	48%	88%	55%	72%

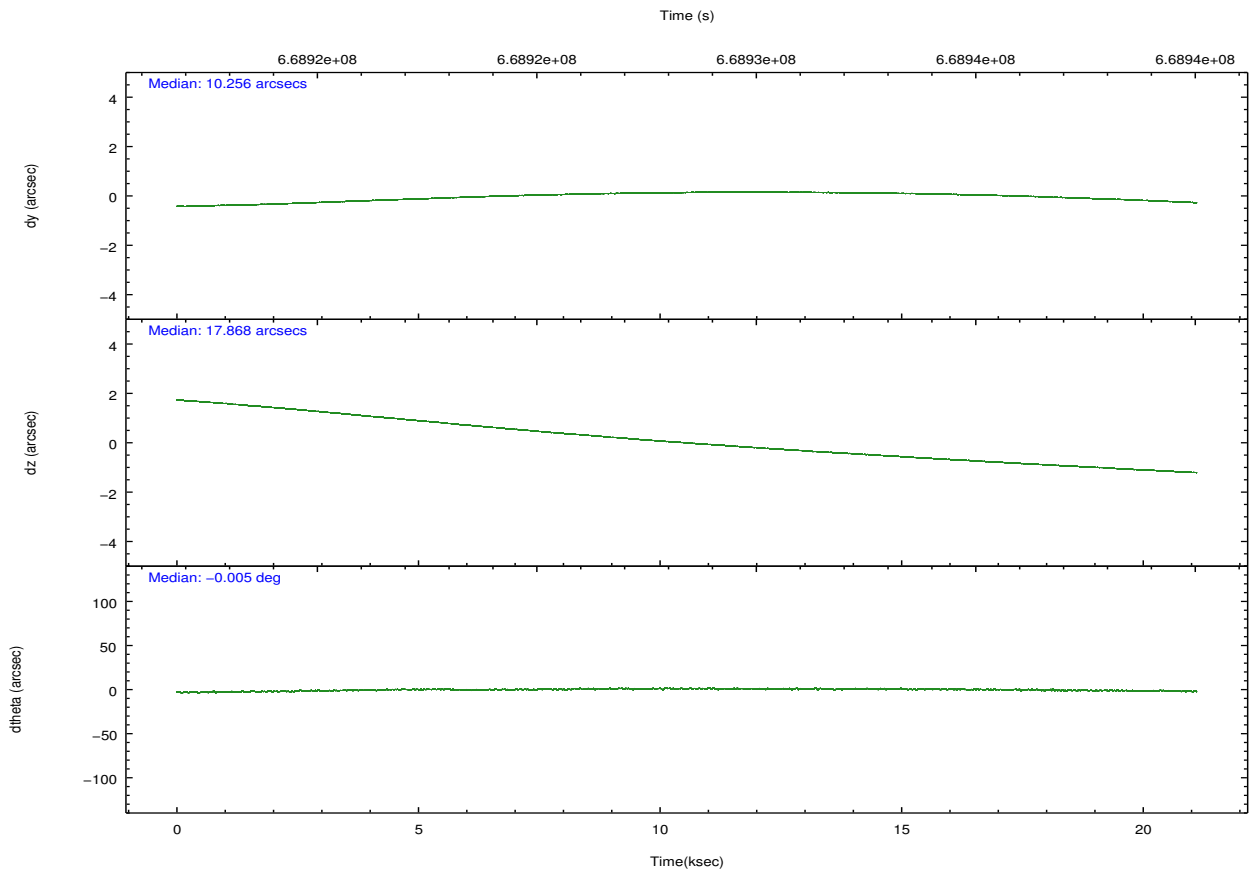
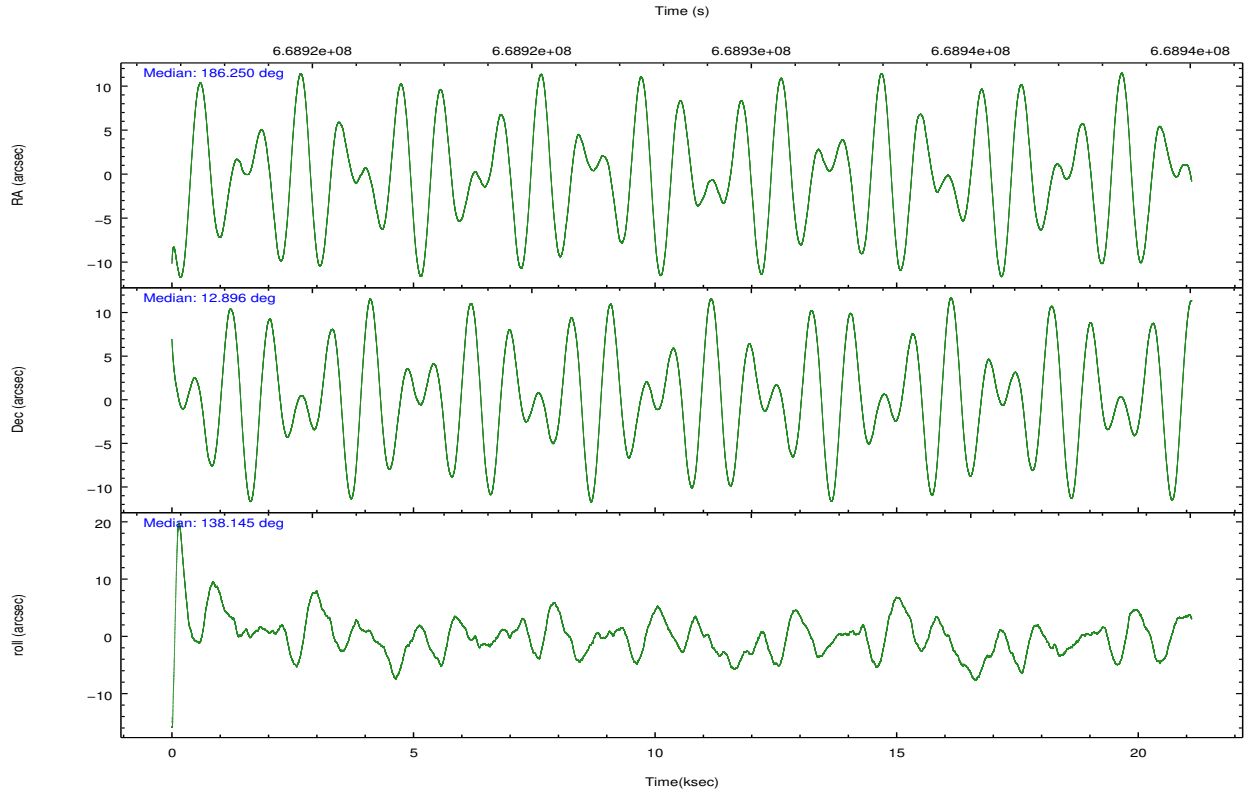
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	10700	25676	7367	9563	18008
	6%	8%	4%	4%	8%
grade 1 events	115	636	101	326	180
	0%	0%	0%	0%	0%
grade 2 events	4162	44944	4637	21042	14207
	2%	15%	2%	9%	6%
grade 3 events	1845	4203	1753	7774	5896
	1%	1%	1%	3%	2%
grade 4 events	1988	3823	1788	7578	5579
	1%	1%	1%	3%	2%
grade 5 events	7456	18088	7408	20218	11477
	4%	6%	4%	9%	5%
grade 6 events	3555	68010	4414	50327	15270
	2%	23%	2%	23%	7%
grade 7 events	131351	119959	141044	97067	142638
	81%	42%	83%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	186.277914	186.2502694150787	CCD I2 on	O1	N
[deg] Pointing Dec	12.891146	12.89641376643999	CCD I3 on	Y	Y
[deg] Pointing Roll	137.997303	138.1600790128061	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O2	Y
[s] Observation start time (MET)	668917989.184000	668916663.44678	CCD S5 on	N	N
Observation start date	2019-03-14T02:32:00	2019-03-14T02:11:03	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	668938989.184000	668939765.92316	On-chip summing requested	N	N
Observation end date	2019-03-14T08:22:00	2019-03-14T08:36:05	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



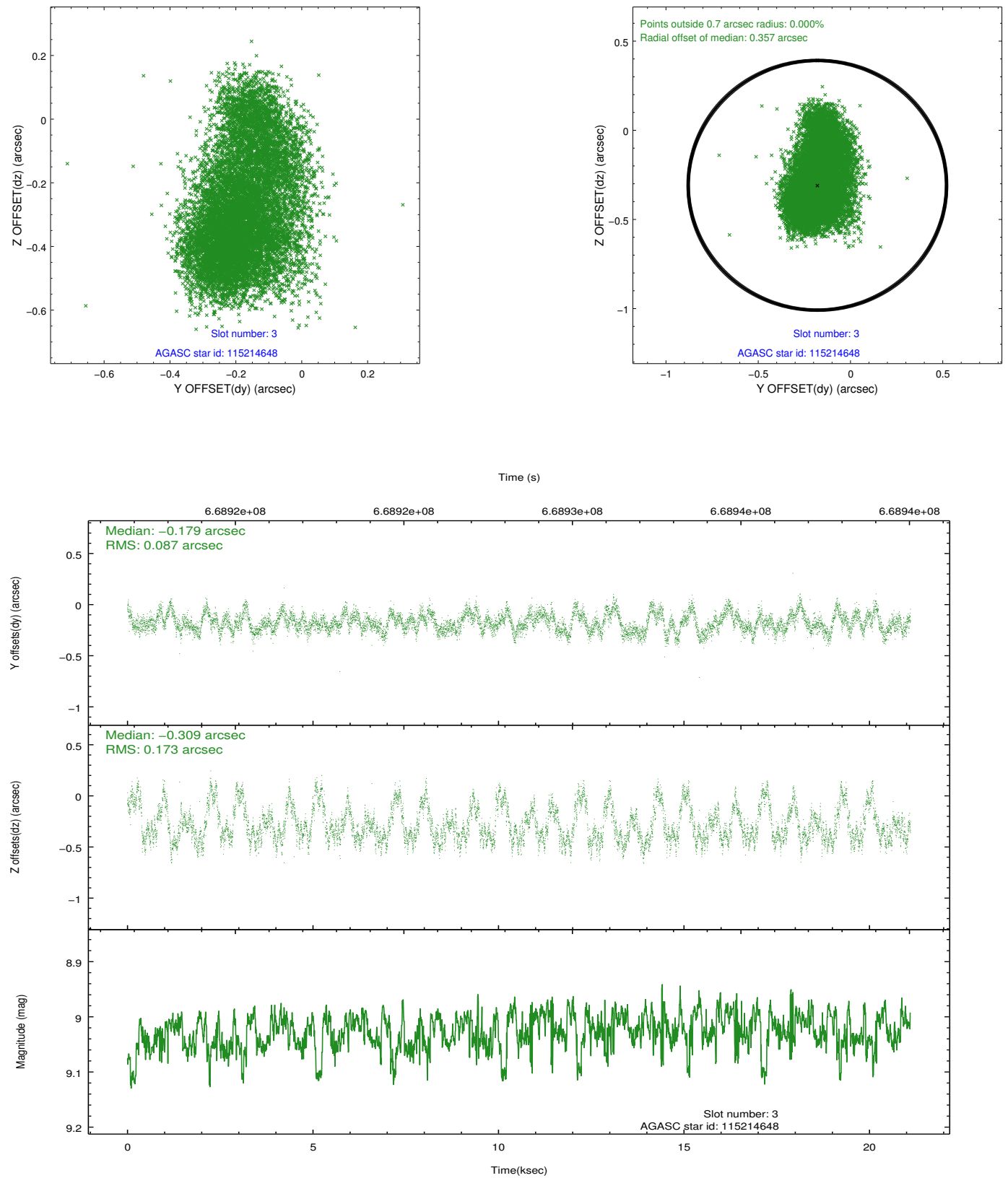


Slot Statistics

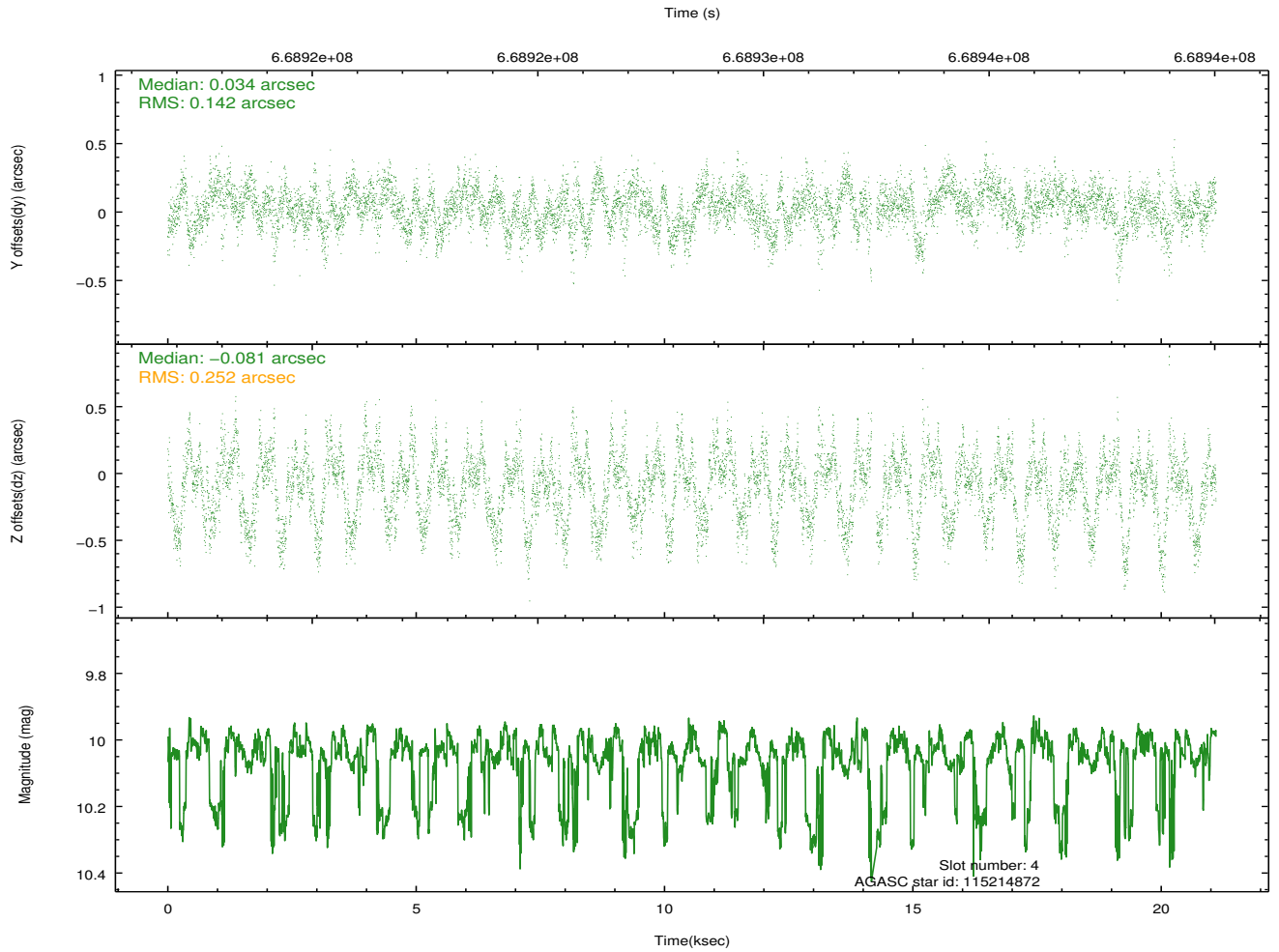
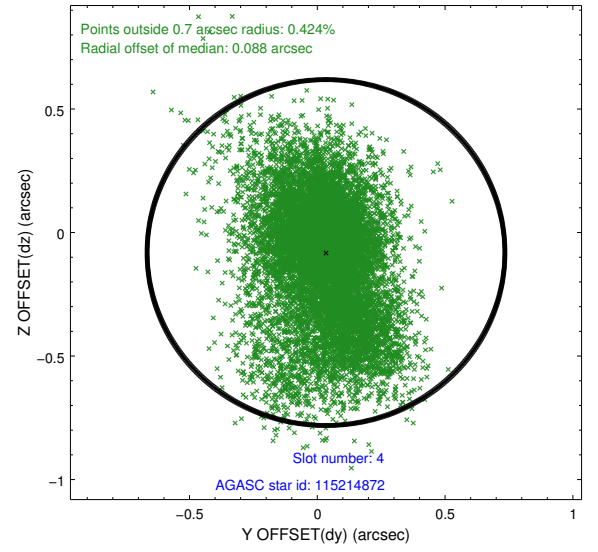
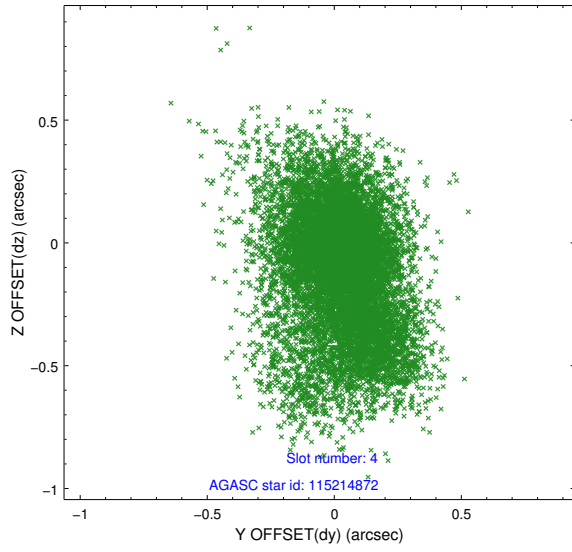
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.02	5148	1.000	-0.270	-0.157	0.015	0.047	0.000000	0.000000	-763.29	-1739
1	FID		ACIS-S-4	7.15	5147	1.000	0.641	0.172	0.008	0.015	0.000000	0.000000	2150.79	169
2	FID		ACIS-S-5	7.14	5147	1.000	-0.404	-0.006	0.014	0.055	0.000000	0.000000	-1816.07	162
3	GUIDE	used	115214648	9.03	10278	1.000	-0.179	-0.309	0.201	0.352	185.771147	12.685188	828.19	1741
4	GUIDE	used	115214872	10.04	10148	1.000	0.034	-0.081	0.303	0.529	185.840719	12.668185	605.13	1623
5	GUIDE	used	115215984	9.96	10202	1.000	-0.045	0.064	0.217	0.340	186.134733	12.875031	334.79	379
6	GUIDE	used	115216184	9.64	10110	1.000	0.112	-0.194	0.192	0.344	185.973150	12.580247	44.69	1549
7	GUIDE	used	115347480	9.17	10280	1.000	0.083	0.520	0.189	0.301	186.668576	13.310410	-5.09	-2037

2.4 Star Slots

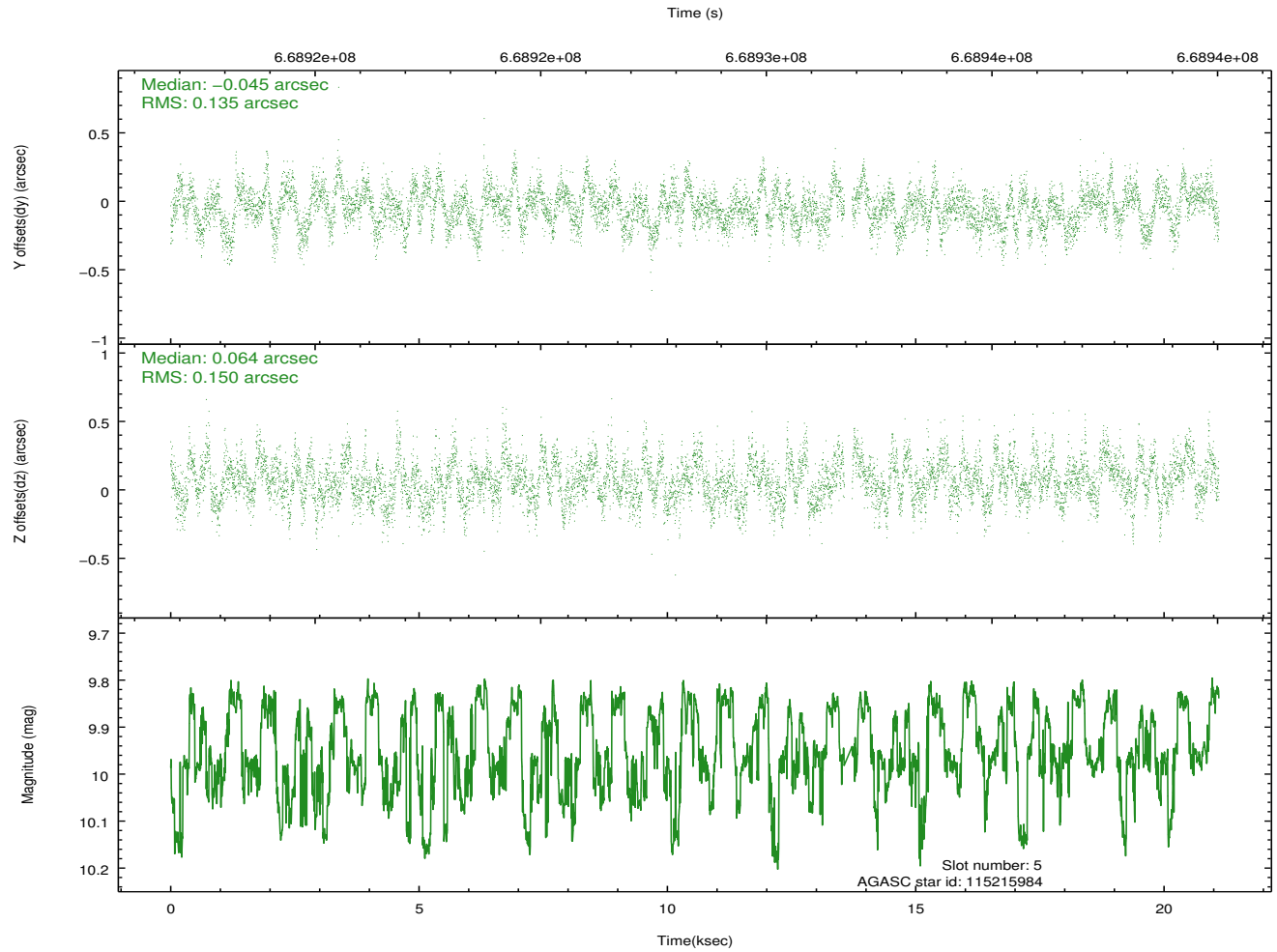
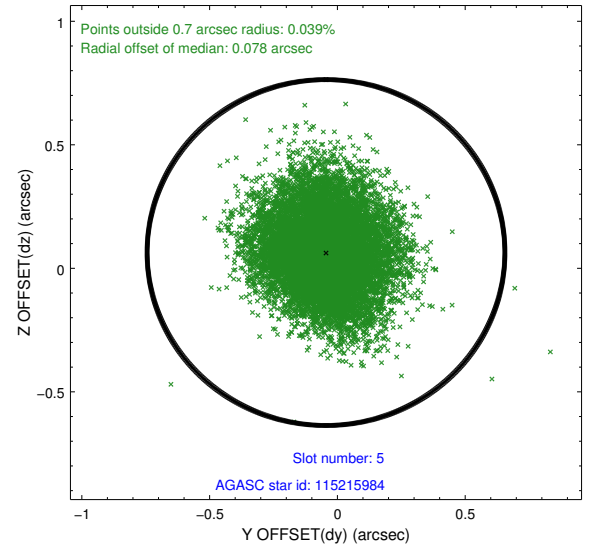
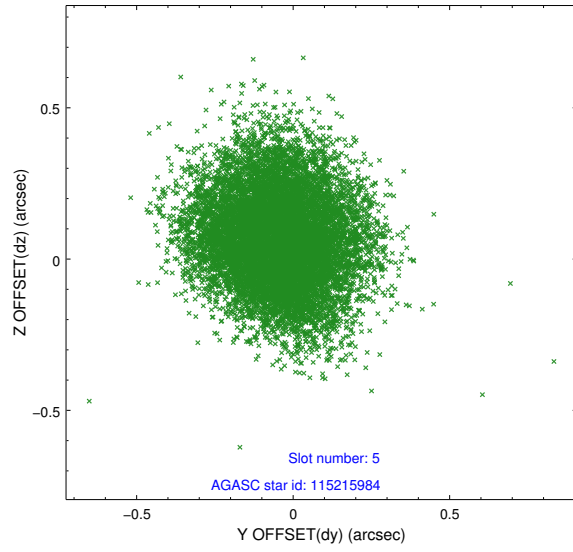
2.4.1 Slot 3



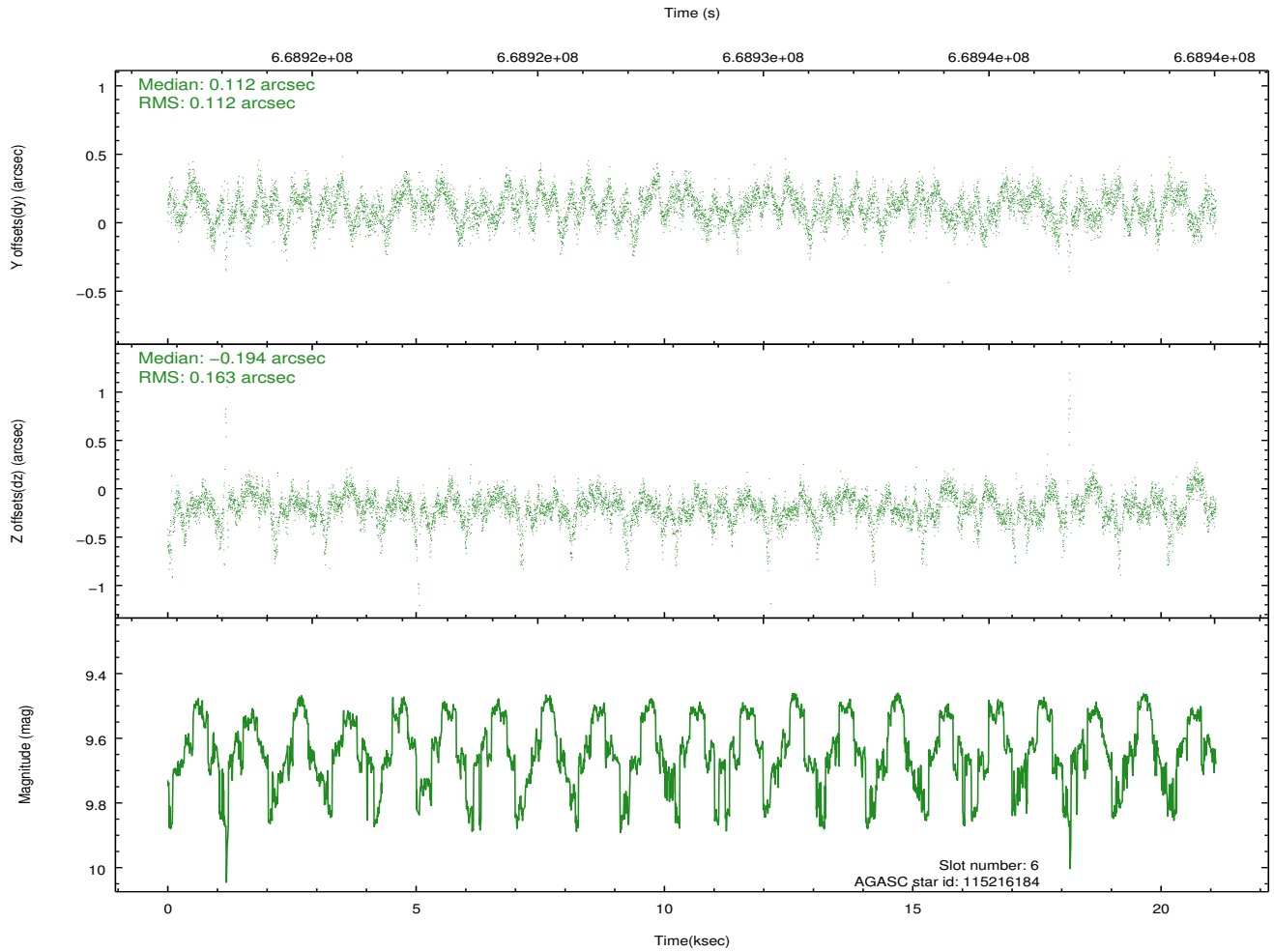
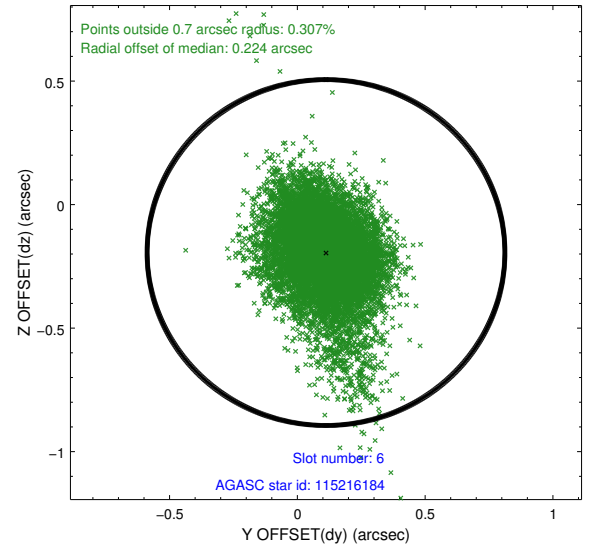
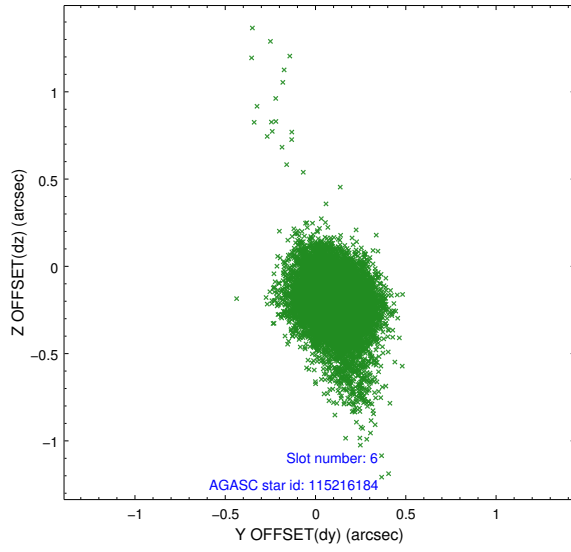
2.4.2 Slot 4



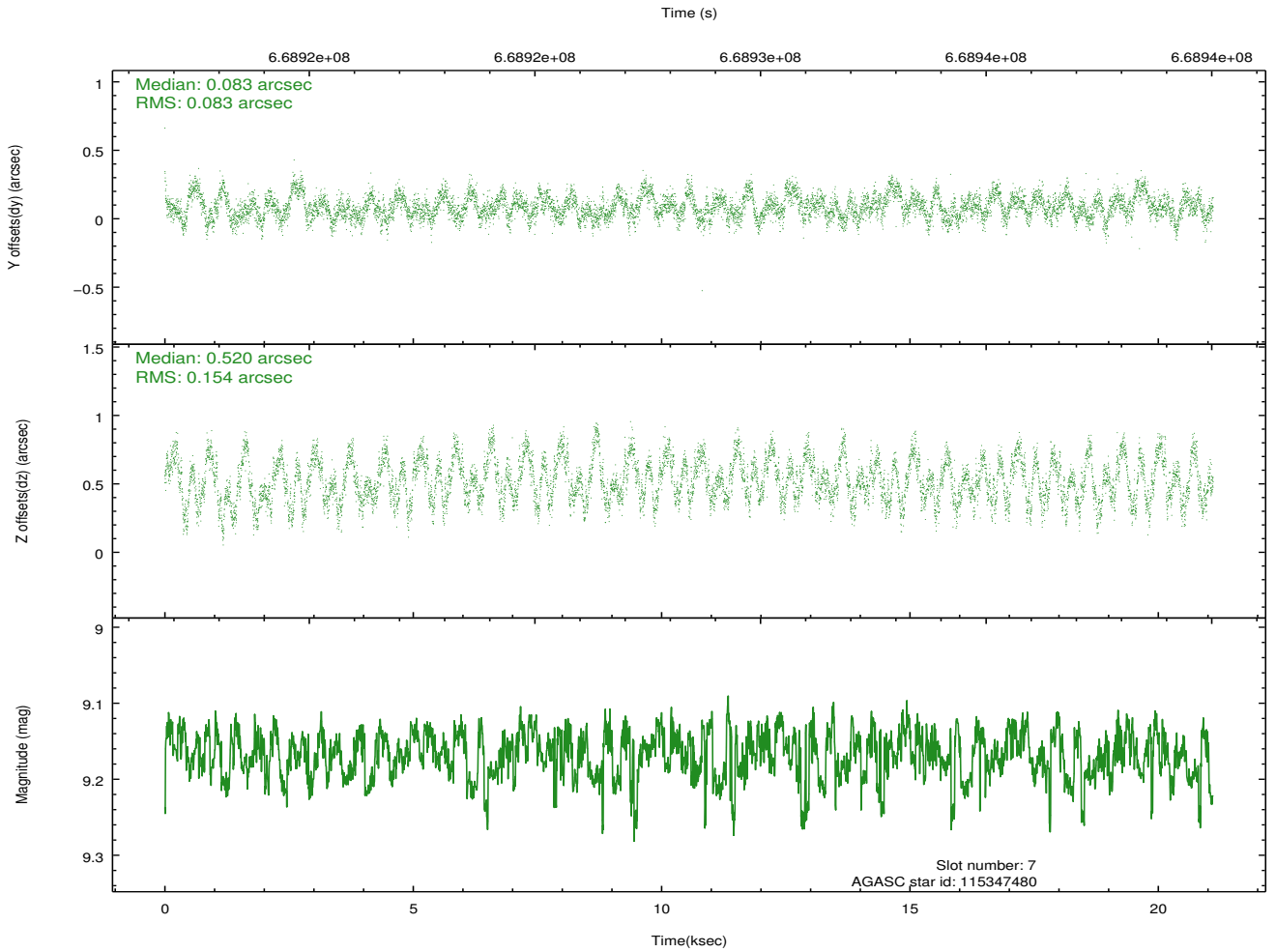
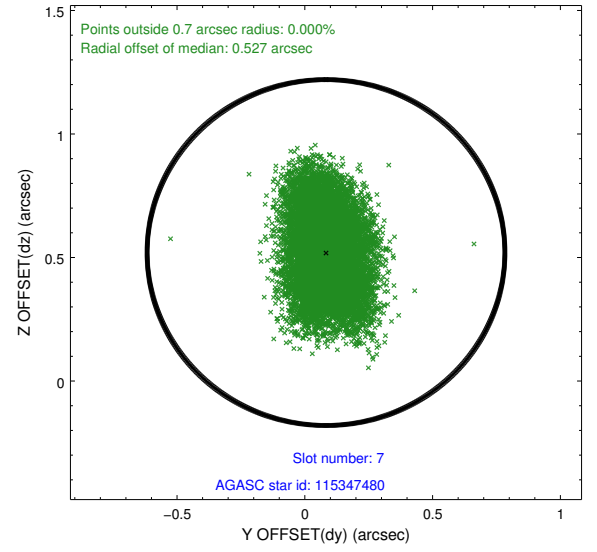
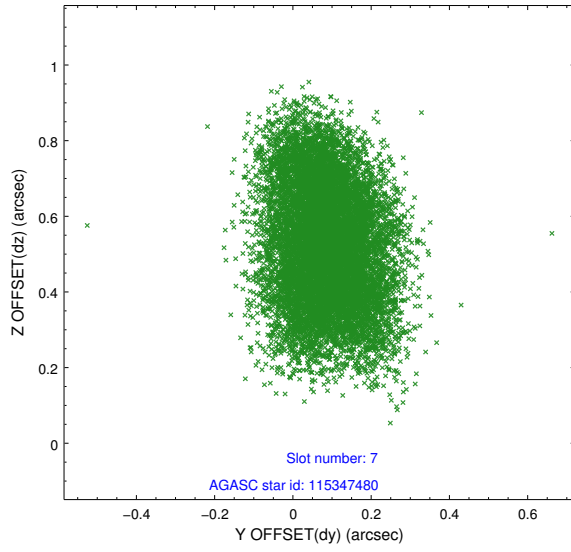
2.4.3 Slot 5



2.4.4 Slot 6

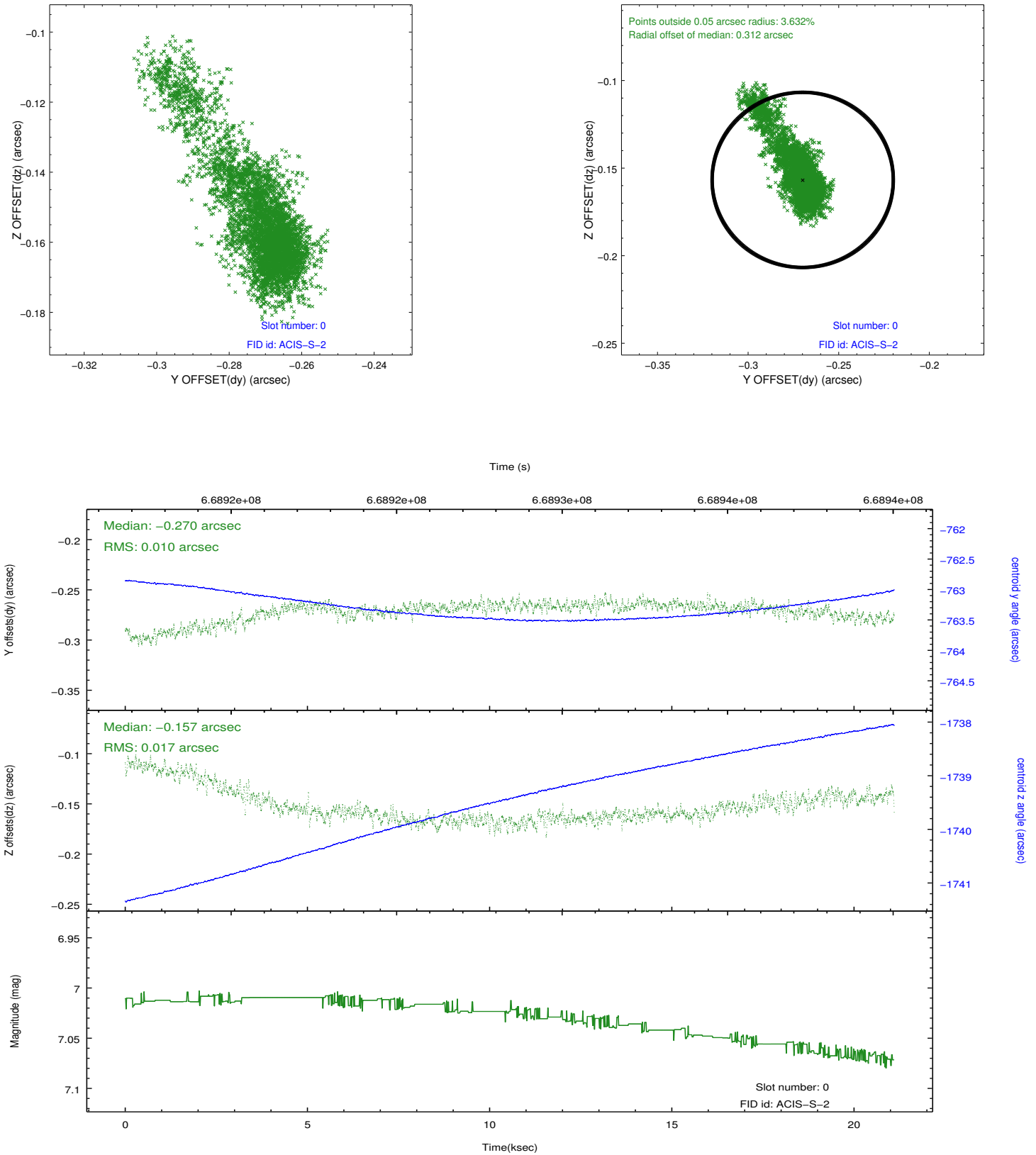


2.4.5 Slot 7

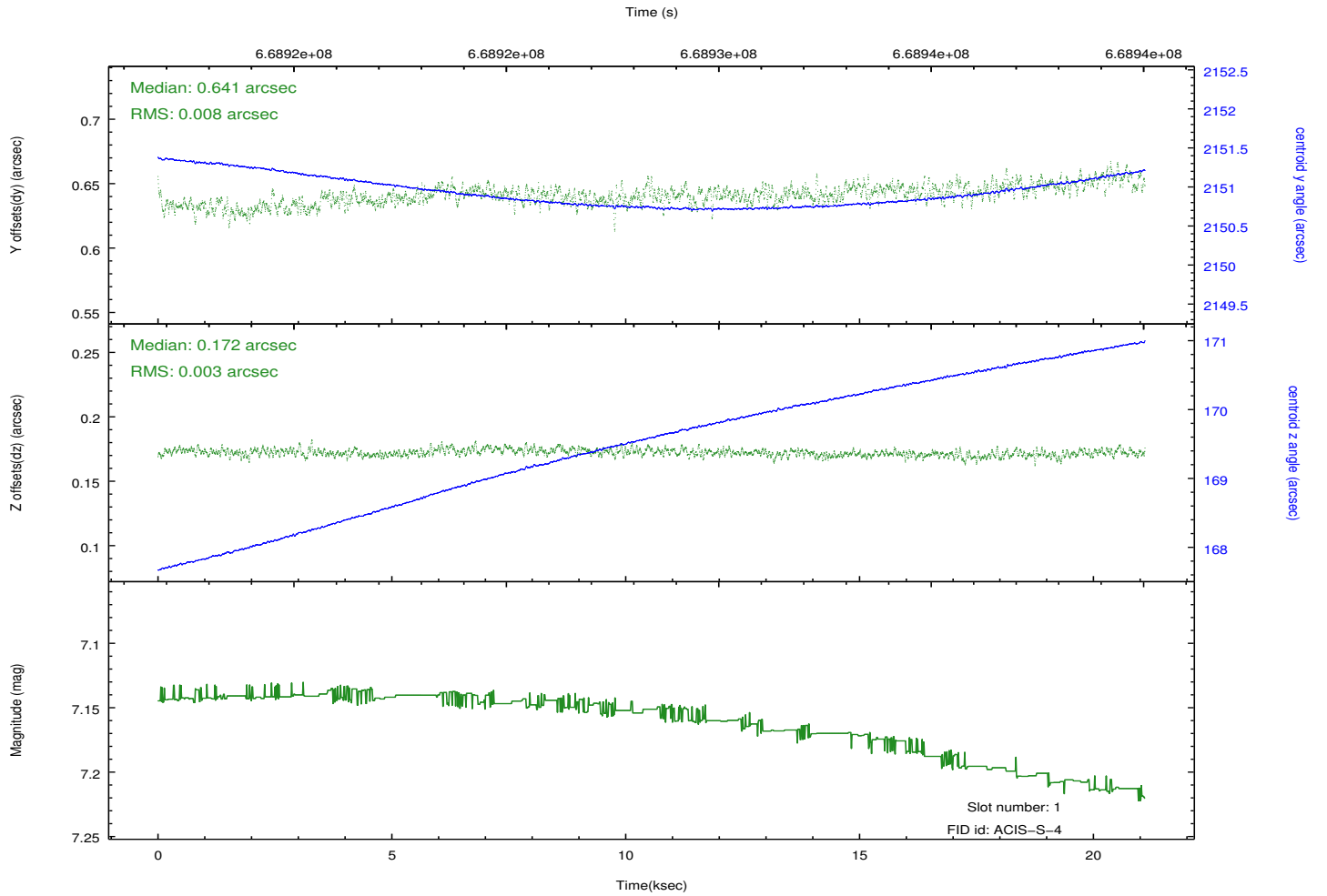
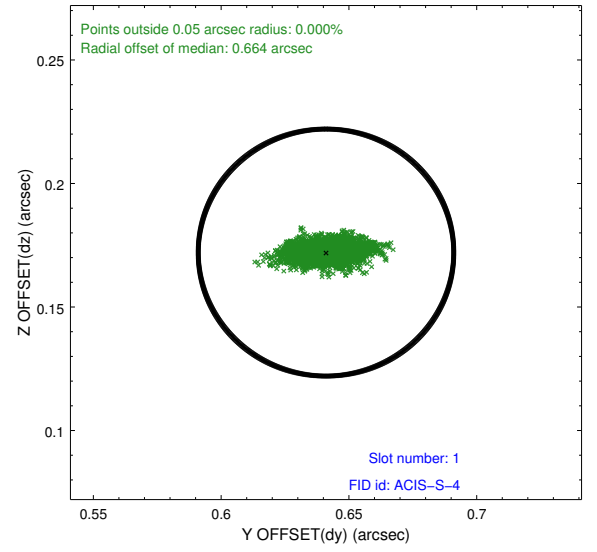
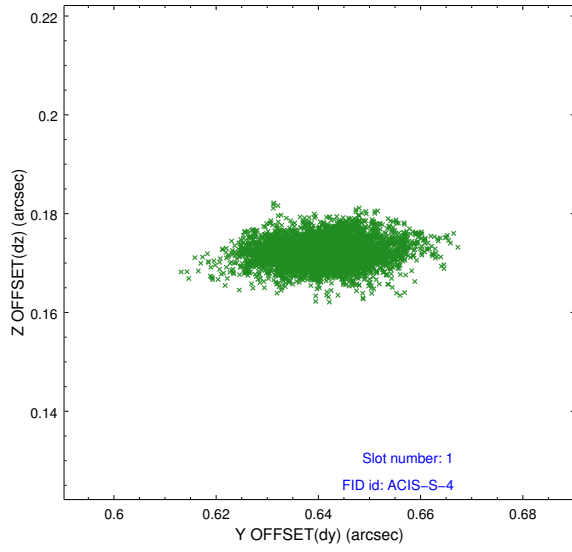


2.5 FID Slots

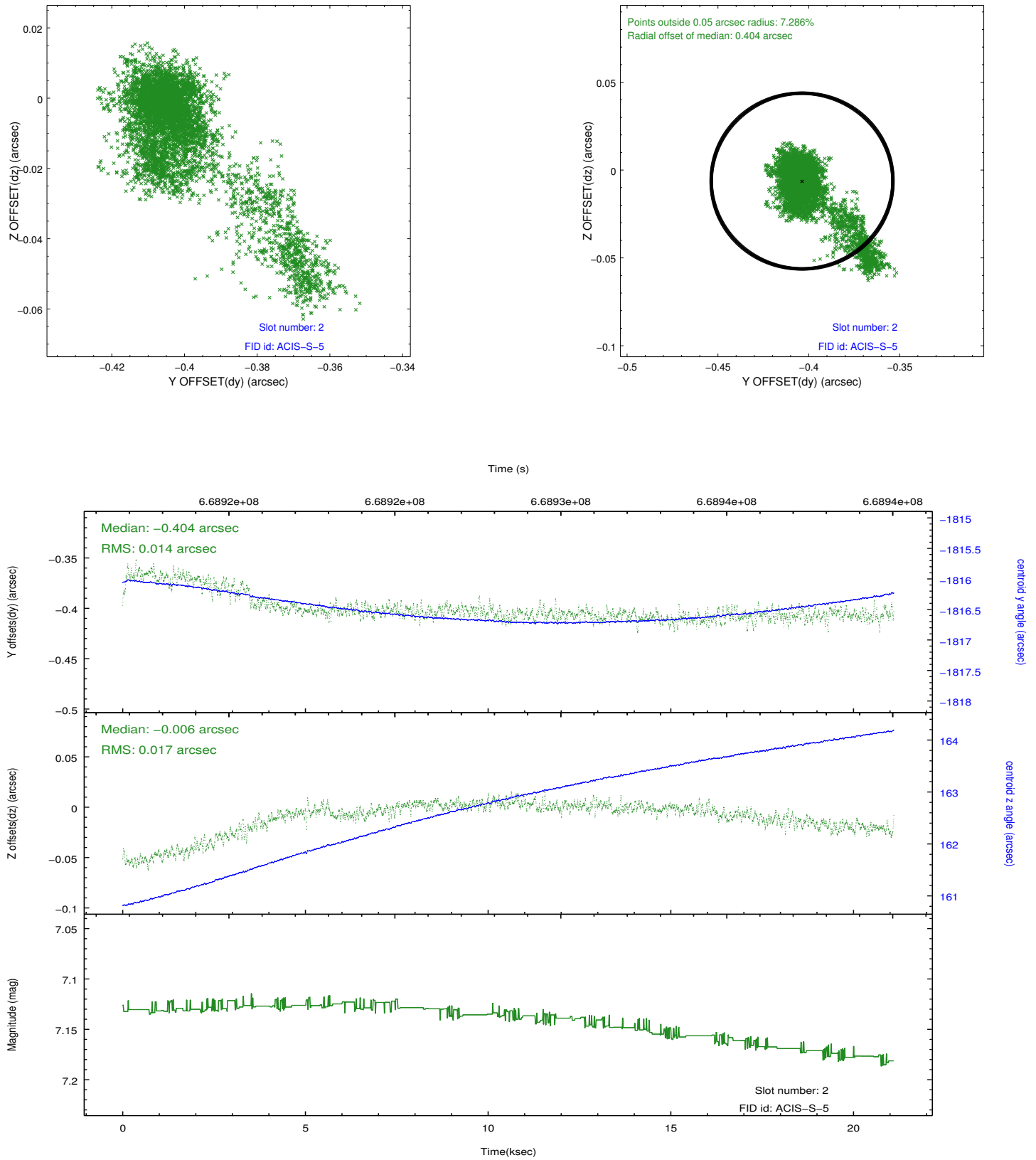
2.5.1 Slot 0



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)	2019.03.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.042800161958

A.2 Comments

Optional chip I2 not included.