

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18471 - L2 Version 1
Chandra X-Ray Center

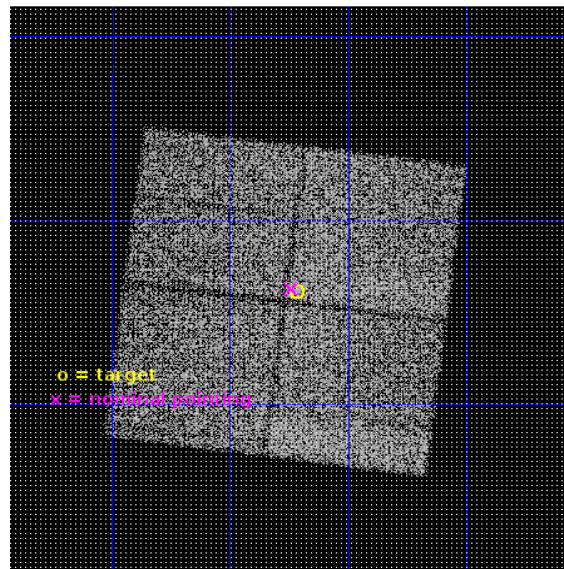
L2 Processing Date : Nov 12 2016

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1 Front

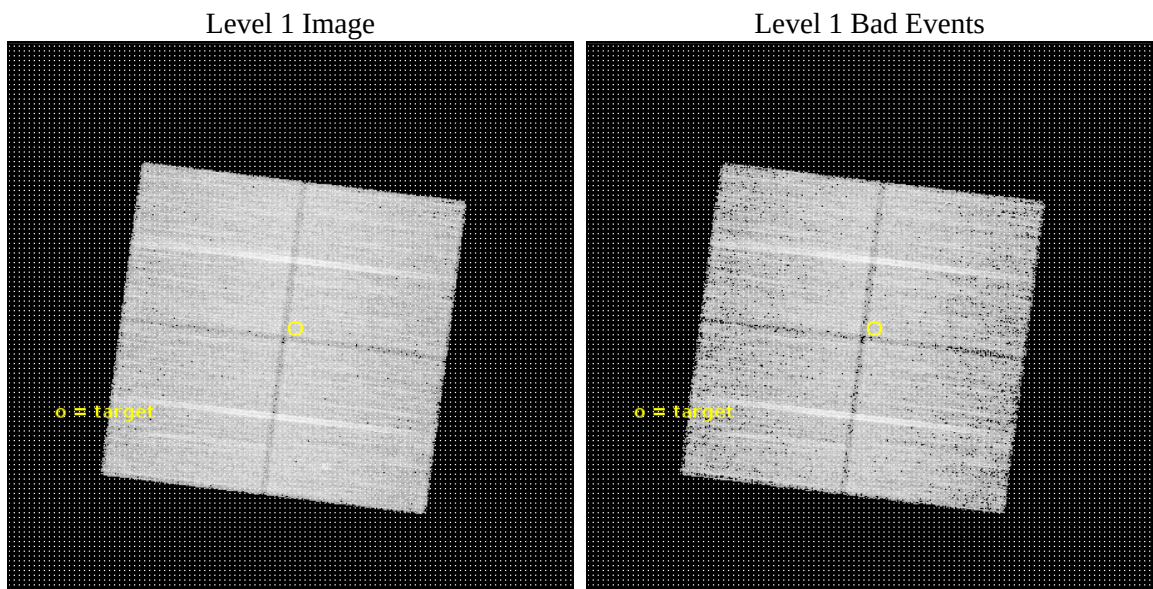
seq_num	901204	Sequence number
obs_id	18471	Observation id
title	An extended moderate-depth contiguous layer of the Chandra Bootes field	Proposal title
observer	Ralph Kraft	Principal investigator
object	Bootes Cy17-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.67904	Observer's specified target RA [deg]
dec_targ	34.435444	Observer's specified target Dec [deg]
ra_nom	216.68498981685	Nominal RA [deg]
dec_nom	34.43815220698	Nominal Dec [deg]
roll_nom	7.2052930434249	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24573.354362011	Sum of GTIs [s]
livetime	24252.285396631	Livetime [s]
ontime0	24570.090301633	Sum of GTIs [s]
ontime1	24576.413262248	Sum of GTIs [s]
ontime2	24576.454302311	Sum of GTIs [s]
ontime3	24573.354362011	Sum of GTIs [s]
l2events	62890	Number of level 2 events



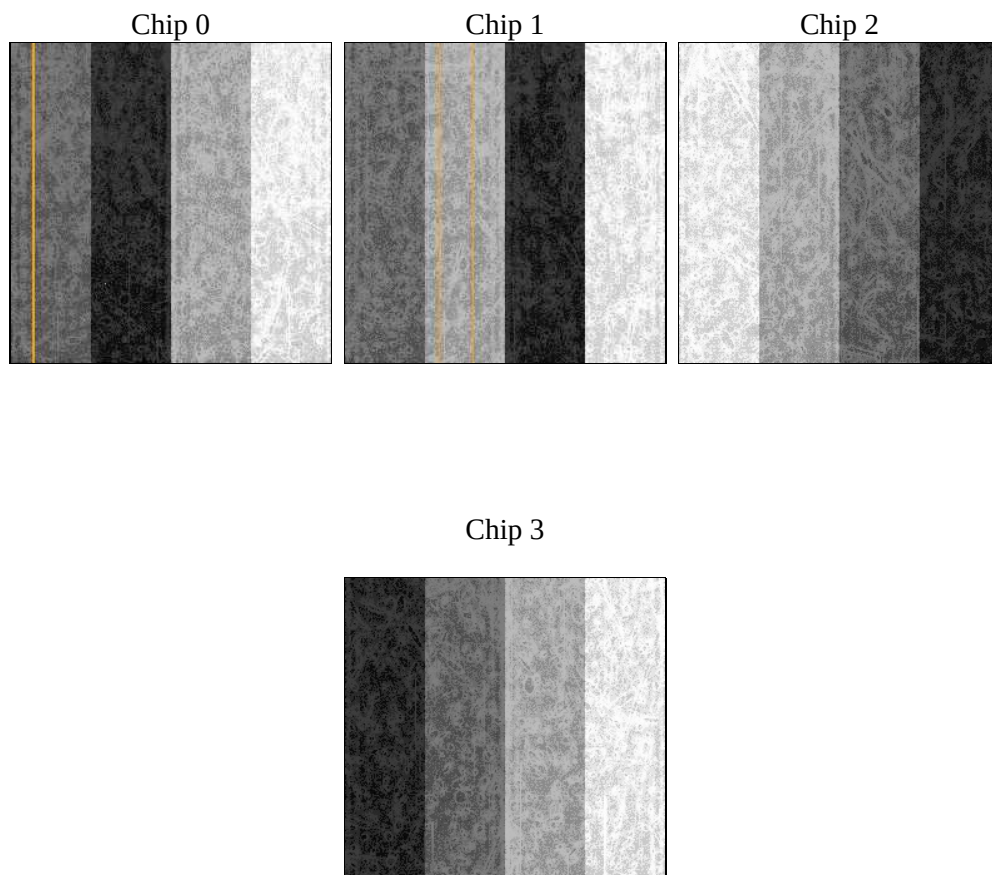
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24500.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	24573.354362011	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	24570.090301633	Sum of GTIs [s]
date	2016-11-12T19:14:45	Date and time of file creation	ontime1	24576.413262248	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	24576.454302311	Sum of GTIs [s]
			ontime3	24573.354362011	Sum of GTIs [s]
			l1events	646062	Number of level 1 events

2.1.4 Events

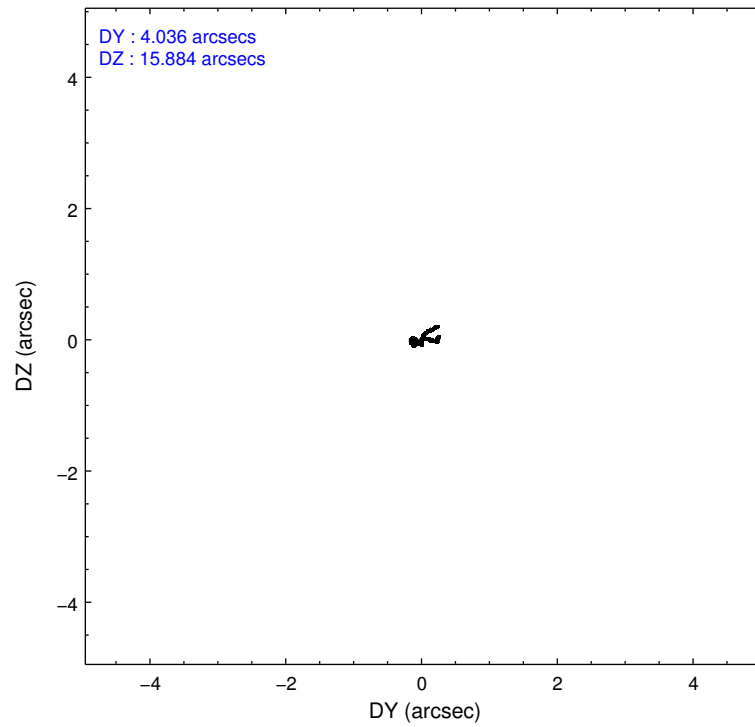
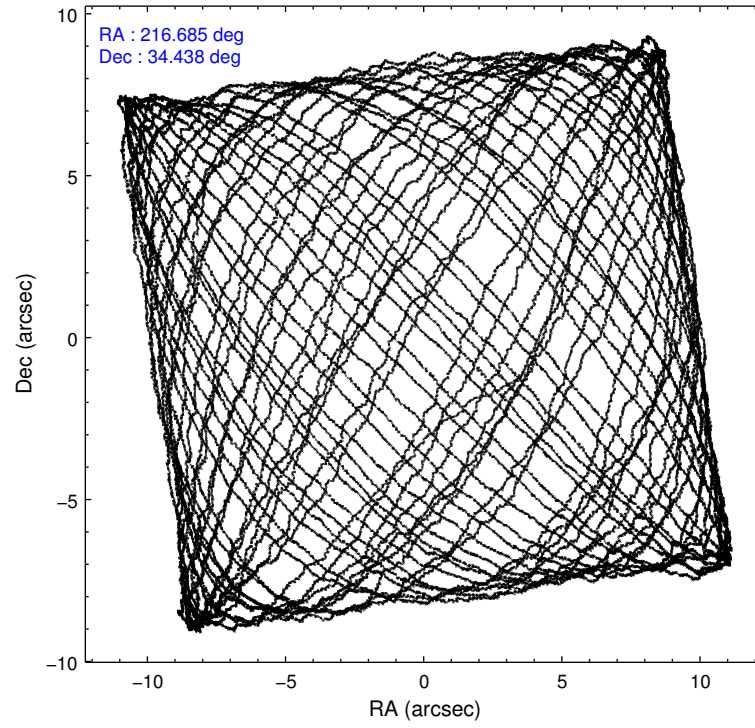
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	153598	158716	170846	162902
rejected events	135074	137549	152683	144796
rejected %	87%	86%	89%	88%

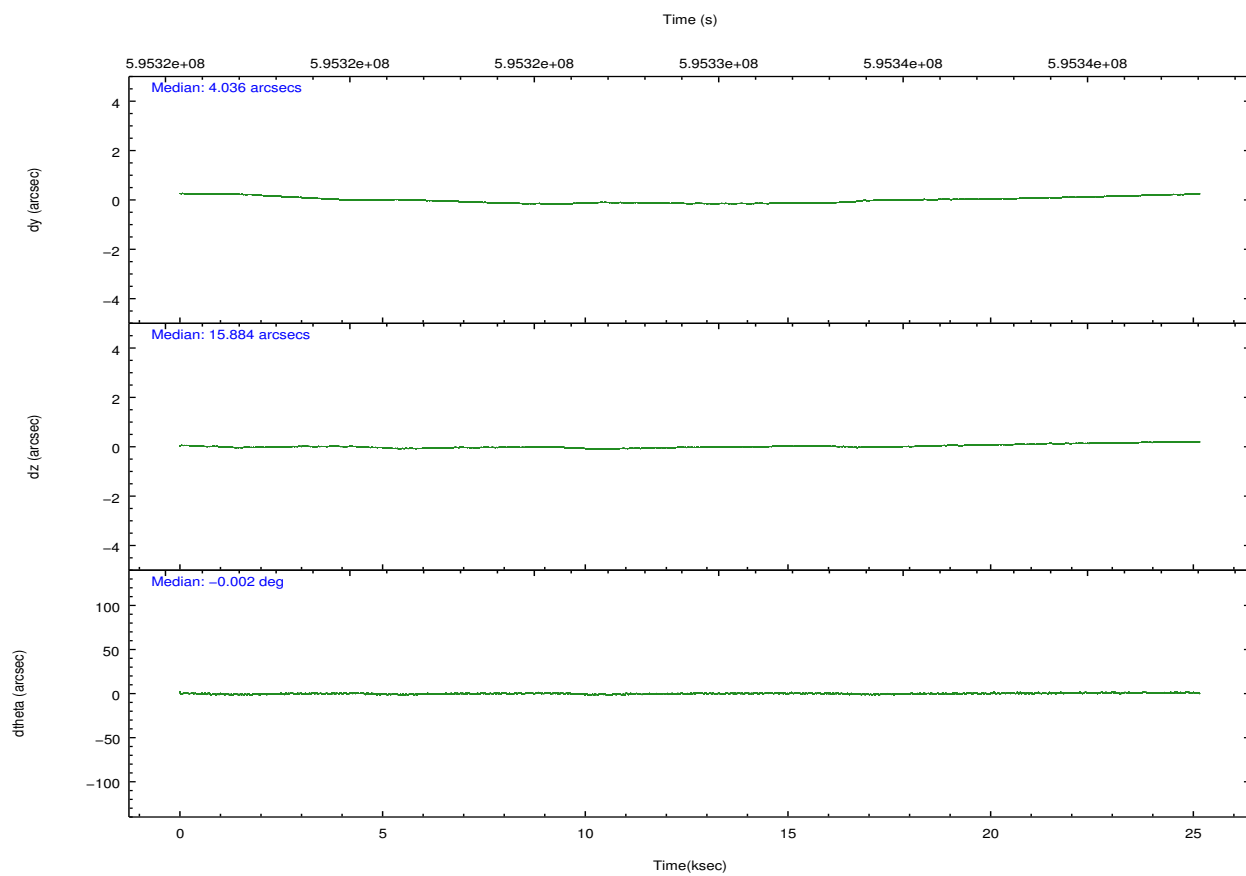
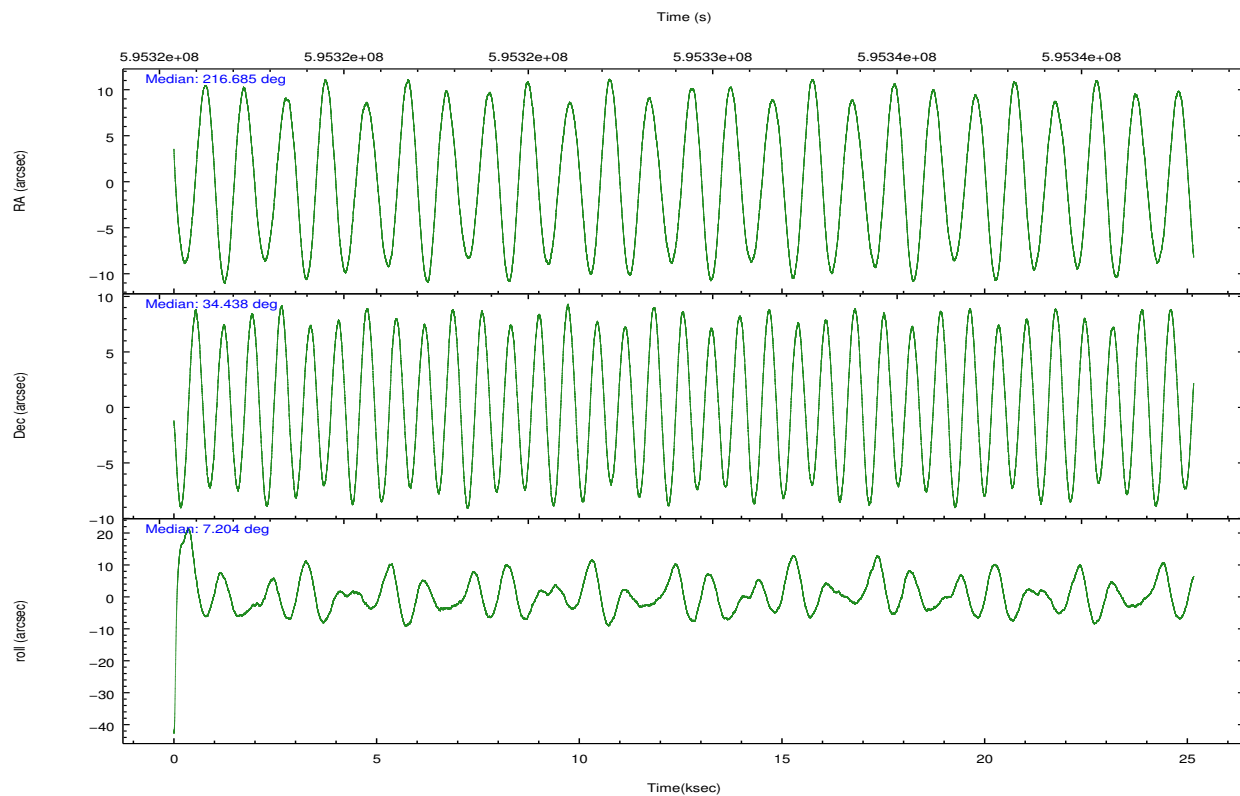
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	6471	7427	6447	6913
	4%	4%	3%	4%
grade 1 events	87	95	92	95
	0%	0%	0%	0%
grade 2 events	4871	5306	4672	3859
	3%	3%	2%	2%
grade 3 events	1850	1988	1702	1821
	1%	1%	0%	1%
grade 4 events	1715	2050	1831	1836
	1%	1%	1%	1%
grade 5 events	7041	7685	6381	8085
	4%	4%	3%	4%
grade 6 events	3622	4398	3519	3681
	2%	2%	2%	2%
grade 7 events	127941	129767	146202	136612
	83%	81%	85%	83%

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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	216.658417	216.6849898168493	CCD I2 on	Y	Y
[deg] Pointing Dec	34.421400	34.43815220697955	CCD I3 on	Y	Y
[deg] Pointing Roll	7.011666	7.205293043424852	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	595317293.184000	595316177.85243	CCD S5 on	N	N
Observation start date	2016-11-12T05:53:45	2016-11-12T05:36:17	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	595341793.184000	595342572.62895	On-chip summing requested	N	N
Observation end date	2016-11-12T12:42:05	2016-11-12T12:56:12	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



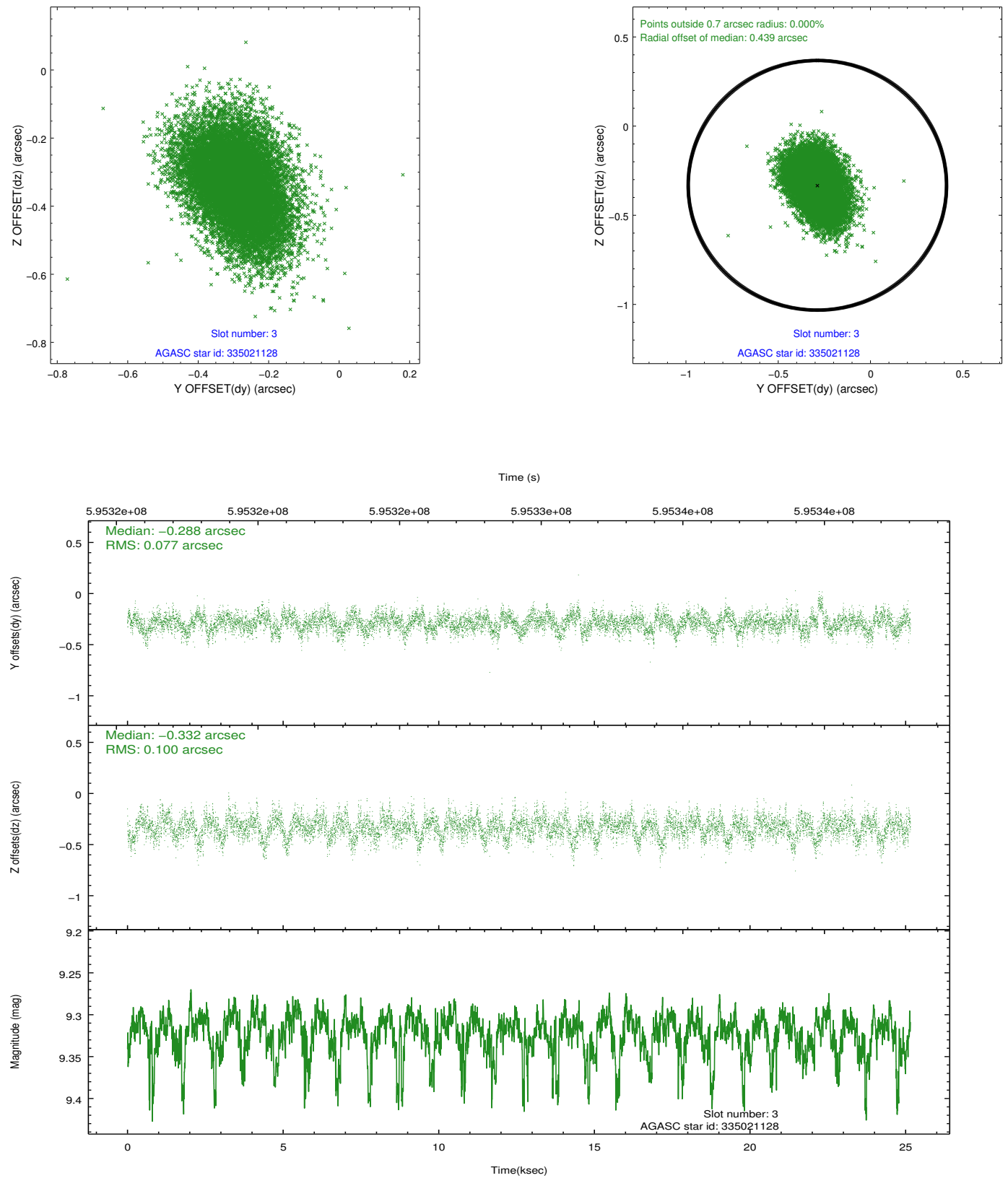


Slot Statistics

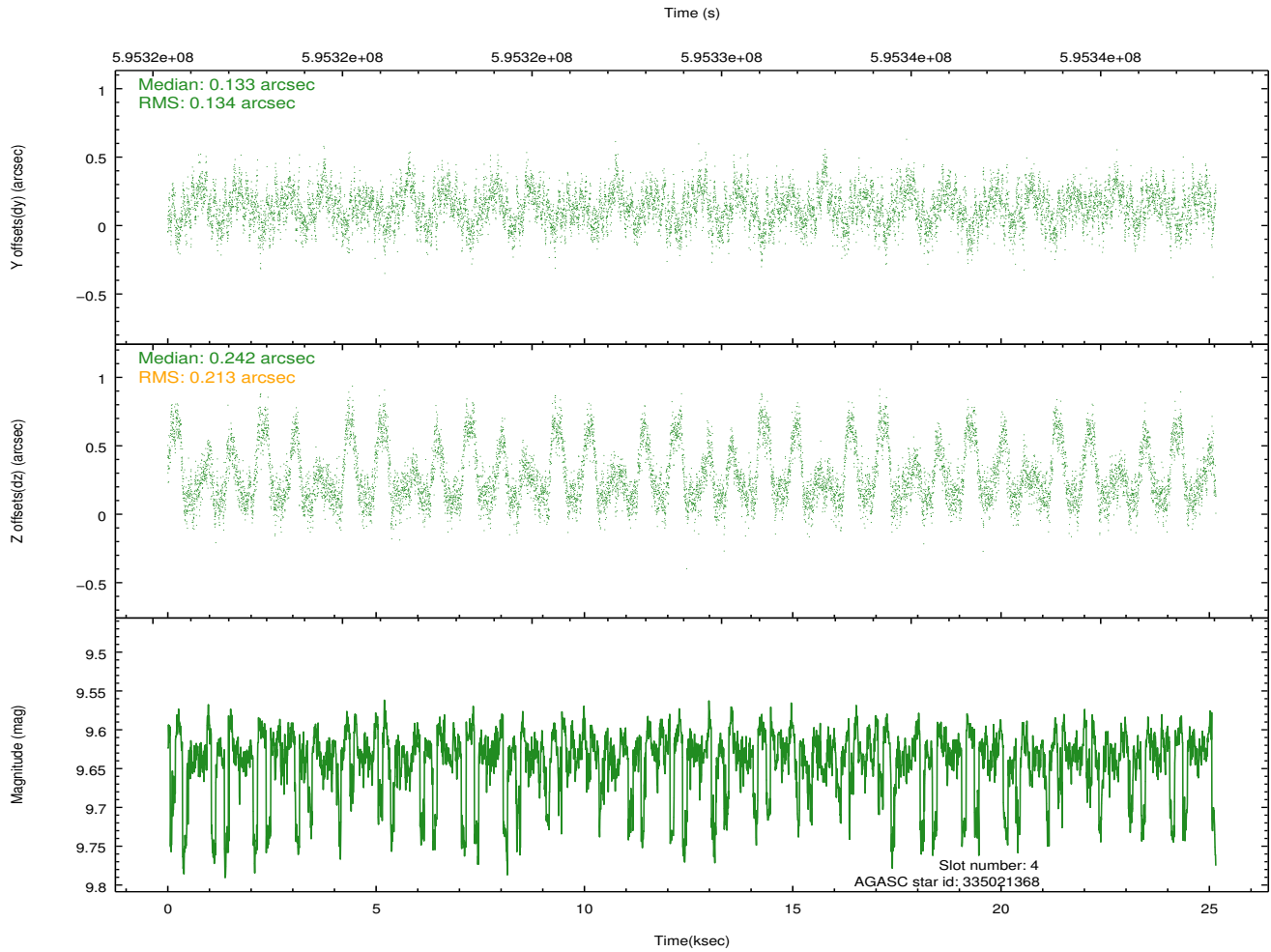
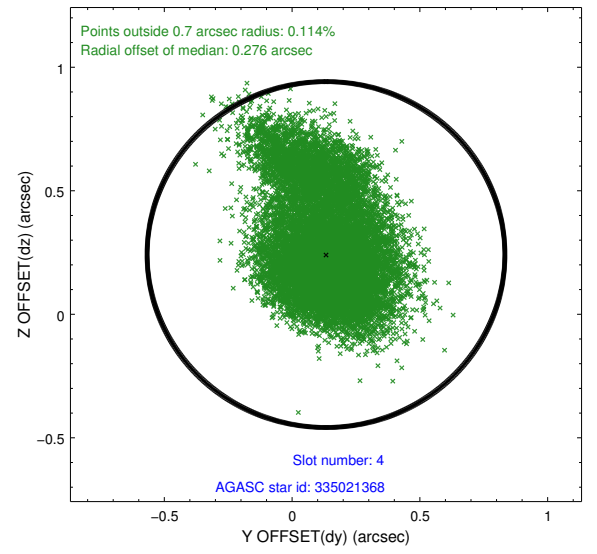
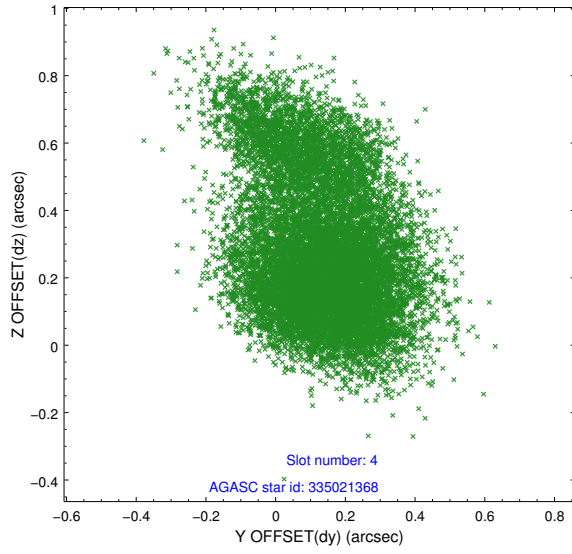
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.12	6136	0.101	-0.083	0.007	0.013	0.000000	0.000000	935.83	-839.61
1	FID		ACIS-I-5	7.09	6136	-0.248	0.086	0.006	0.011	0.000000	0.000000	-1812.58	1057.96
2	FID		ACIS-I-6	7.10	6135	0.056	0.067	0.007	0.013	0.000000	0.000000	401.17	1702.60
3	GUIDE	used	335021128	9.32	12258	-0.288	-0.332	0.132	0.225	216.159551	34.422539	-1469.95	188.39
4	GUIDE	used	335021368	9.63	12255	0.133	0.242	0.257	0.457	217.529643	33.934817	2370.13	-2044.73
5	GUIDE	used	335028696	9.18	12255	-0.417	0.352	0.126	0.217	217.260519	33.844112	1533.42	-2276.80
6	GUIDE	used	335030384	8.80	12192	0.525	-0.151	0.128	0.208	216.806407	34.722197	567.20	1021.52
7	GUIDE	used	335417968	9.32	12252	0.051	-0.147	0.183	0.270	217.358149	35.055285	2326.01	2020.57

2.4 Star Slots

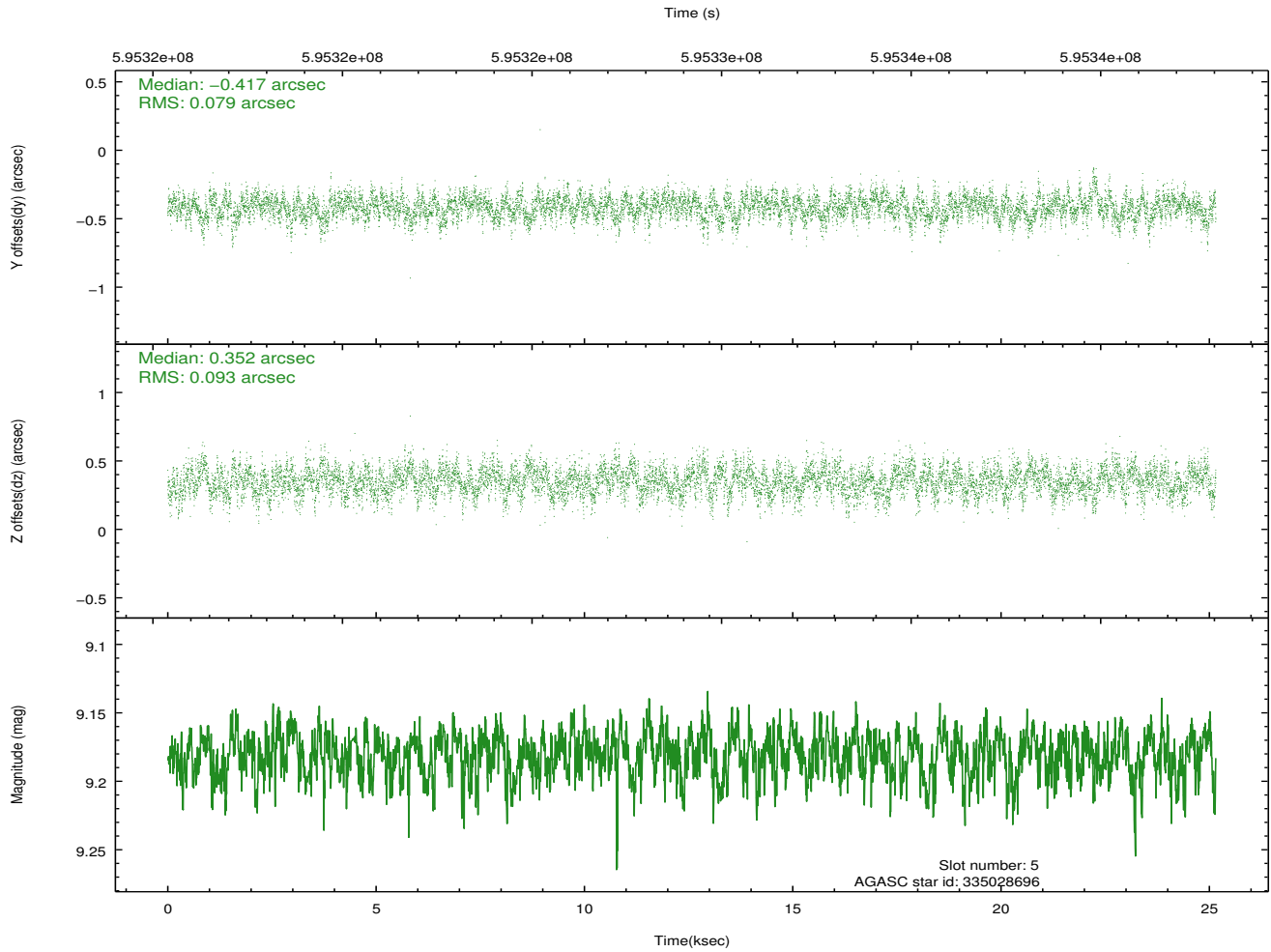
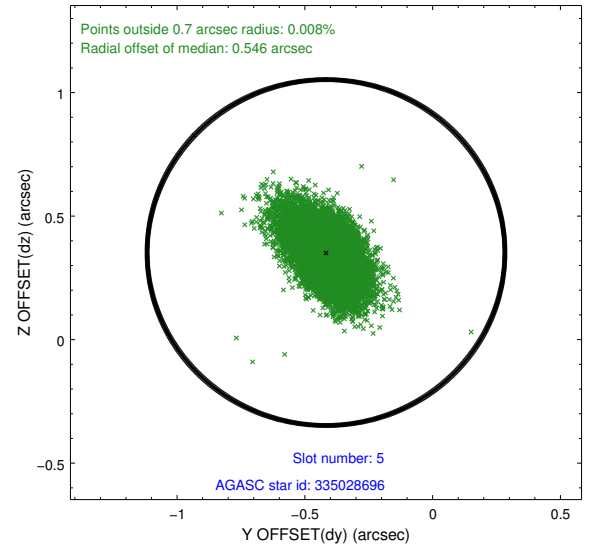
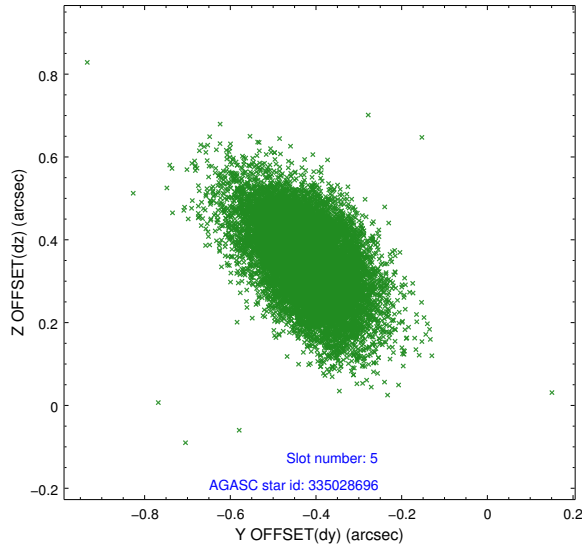
2.4.1 Slot 3



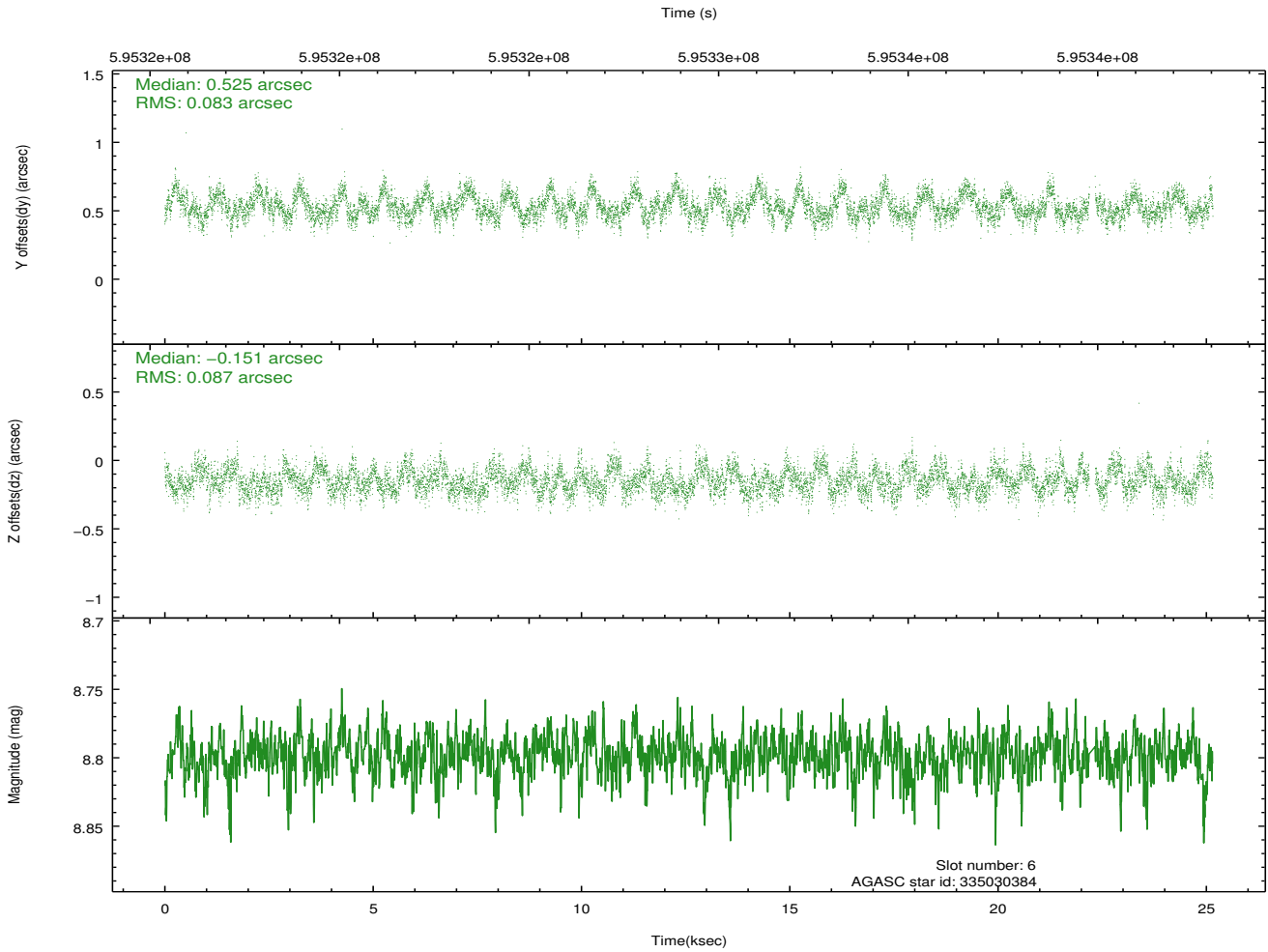
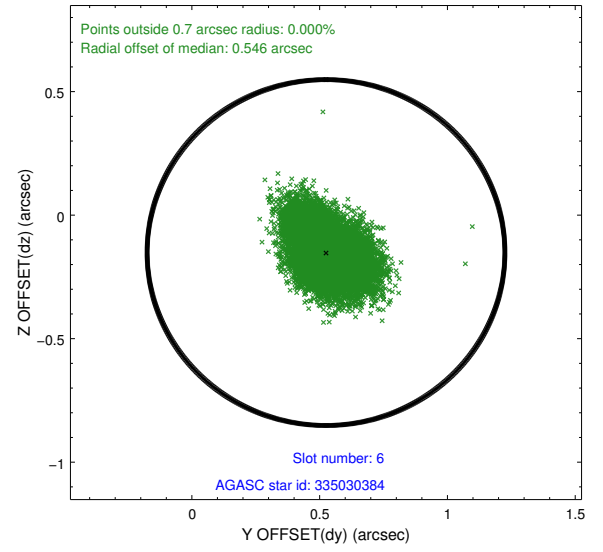
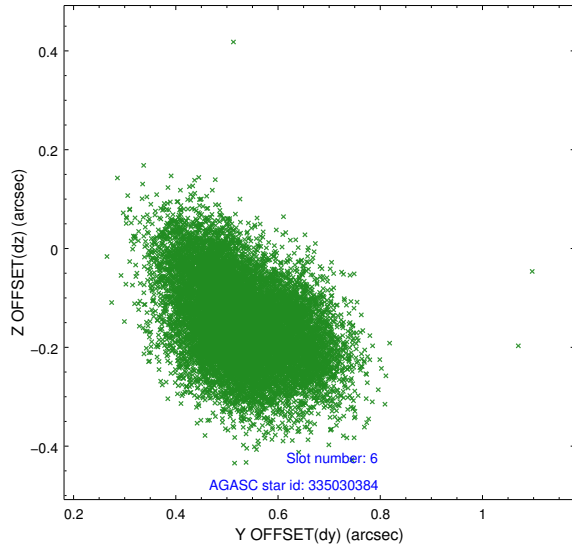
2.4.2 Slot 4



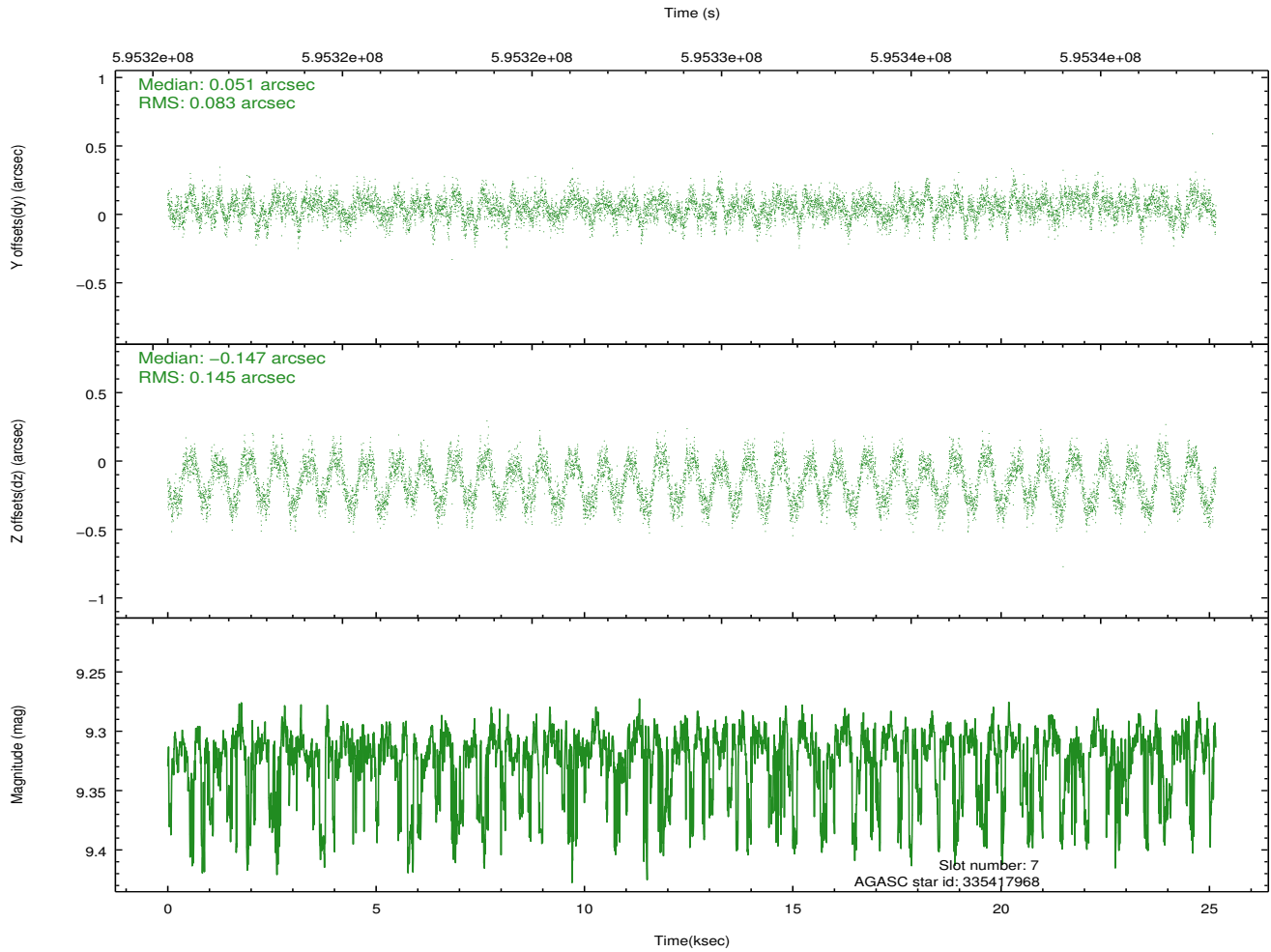
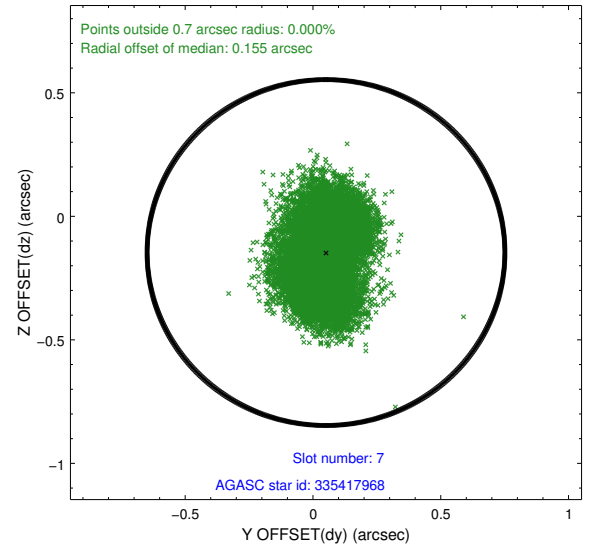
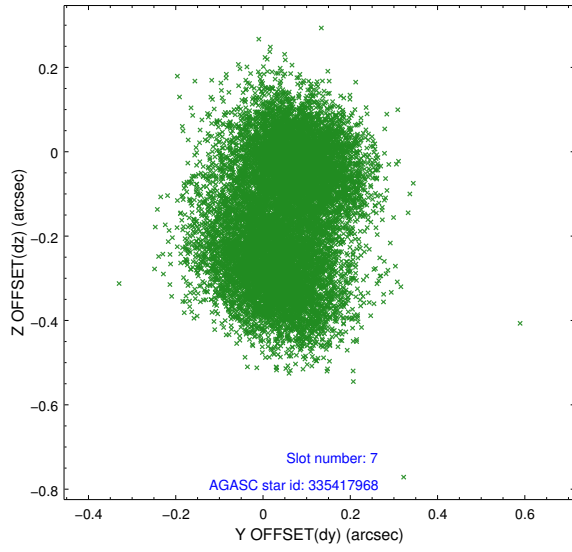
2.4.3 Slot 5



2.4.4 Slot 6

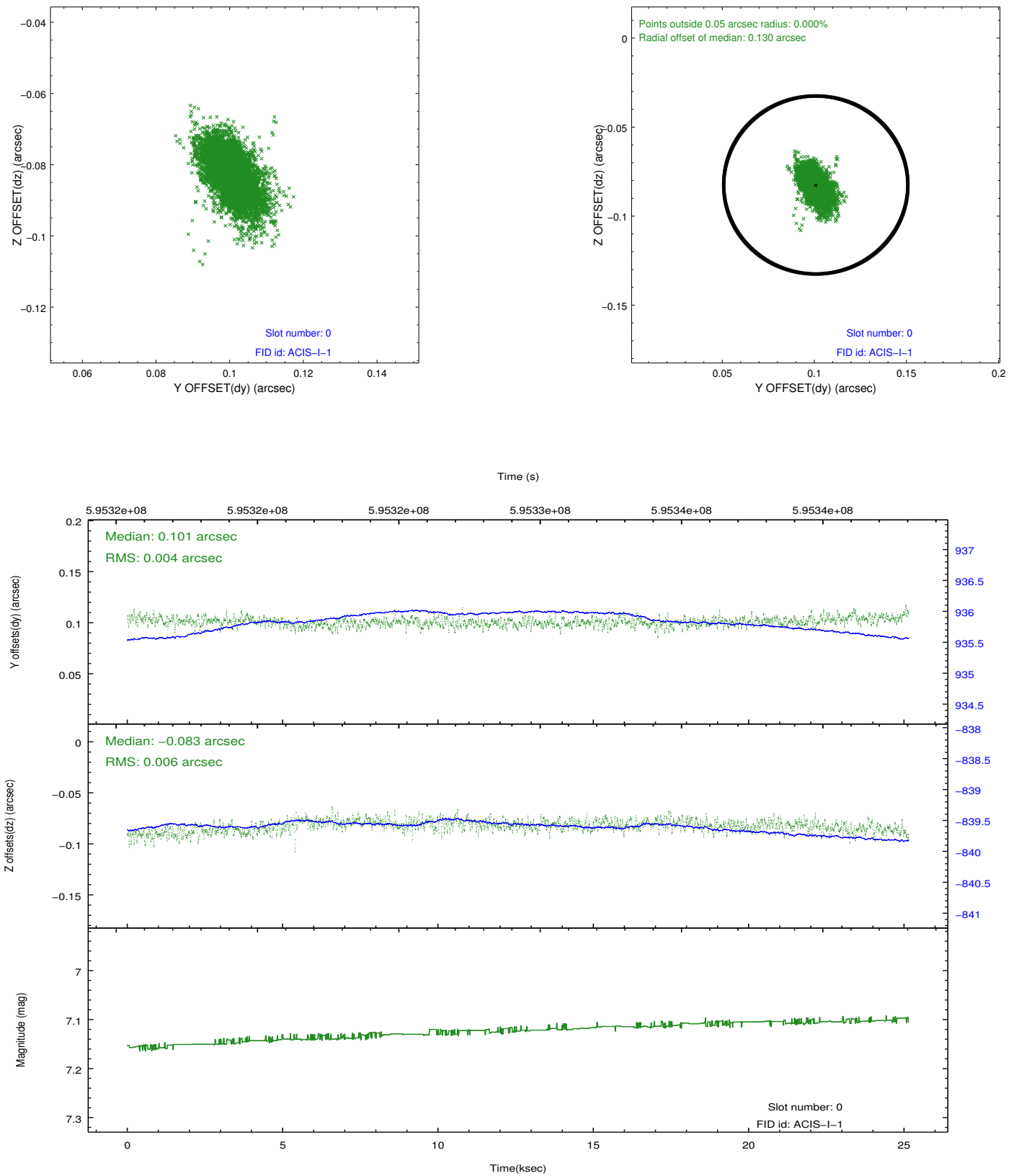


2.4.5 Slot 7

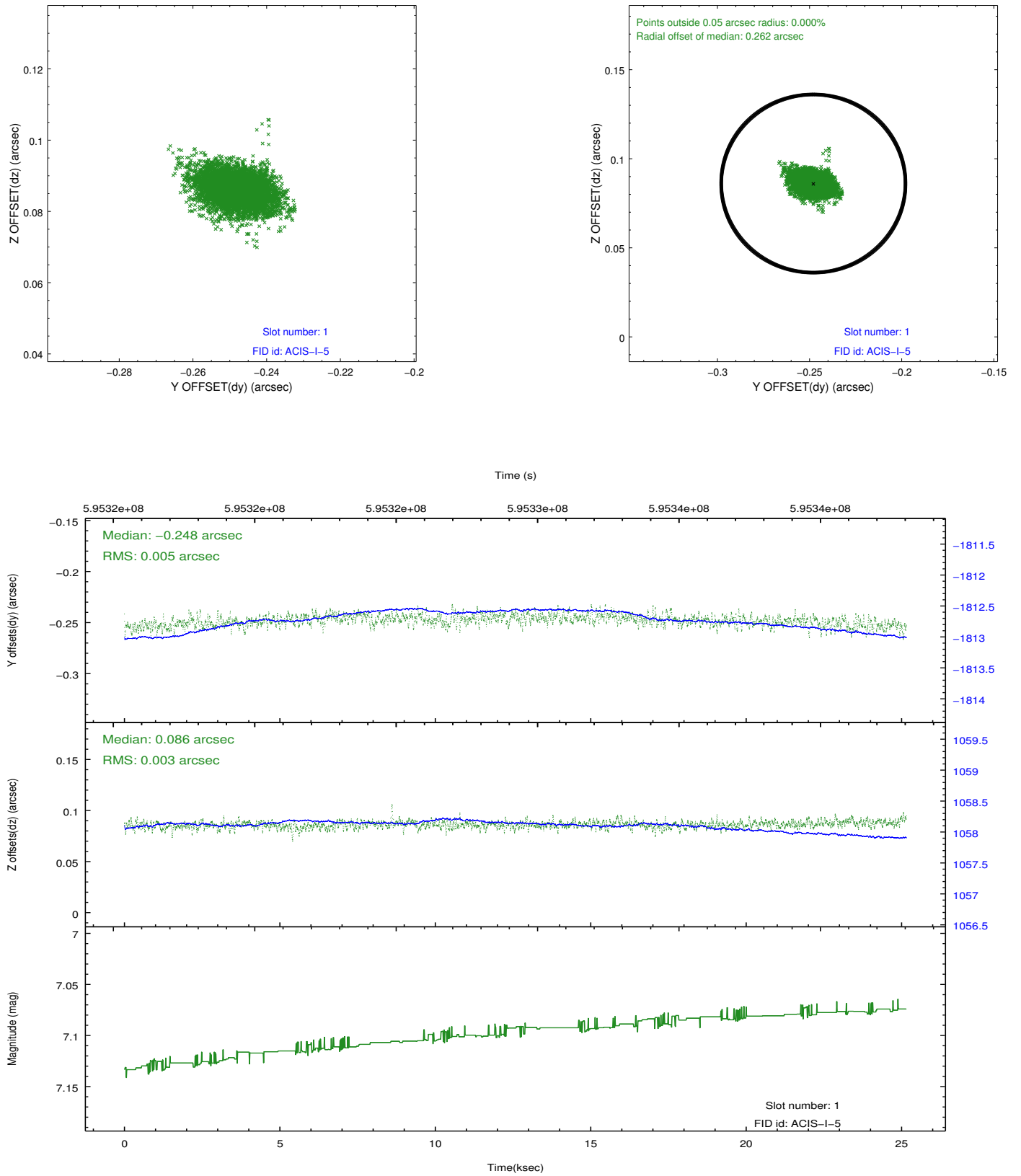


2.5 FID Slots

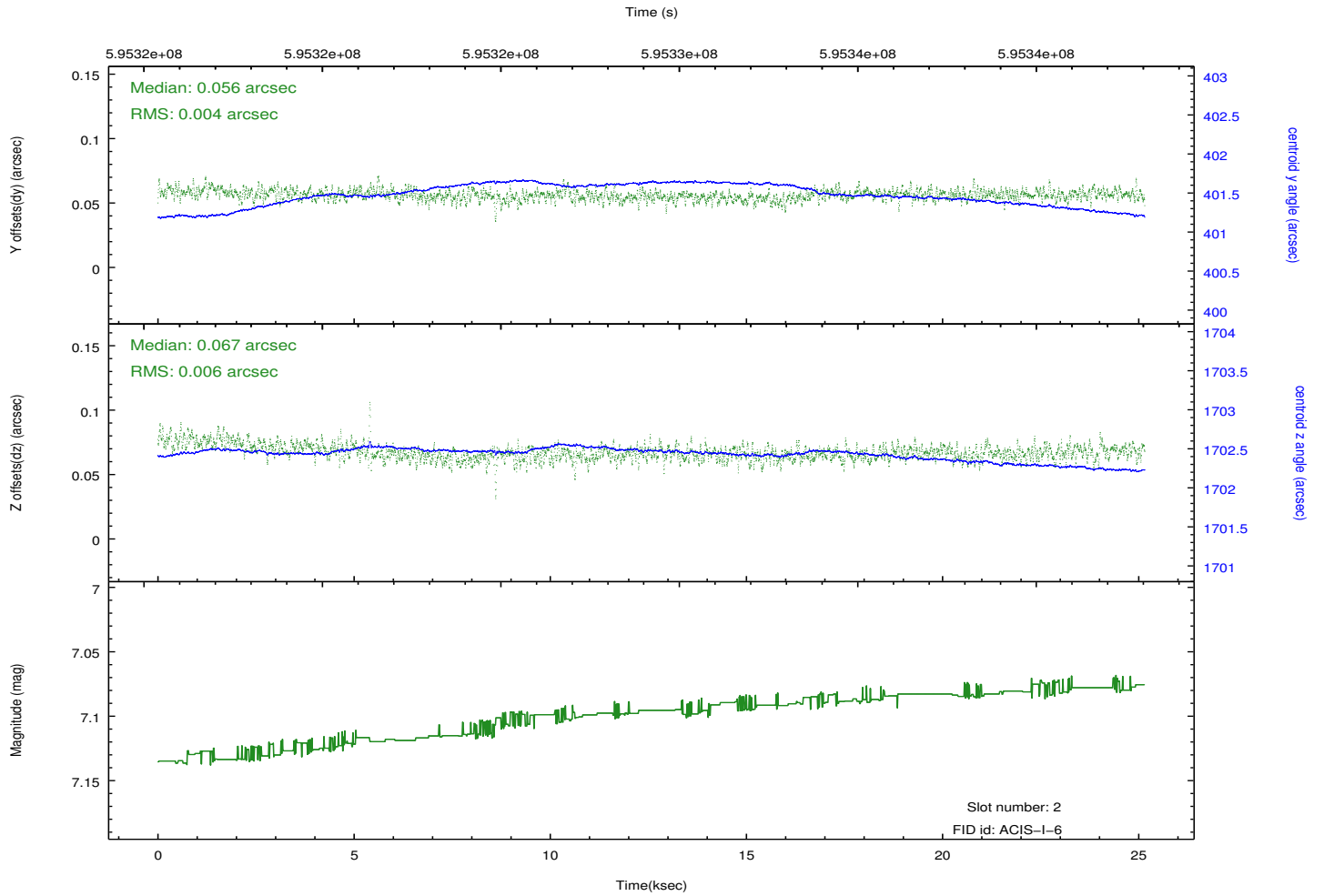
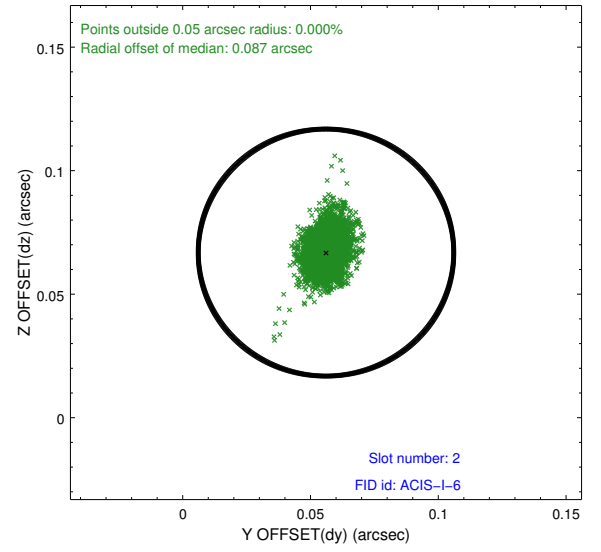
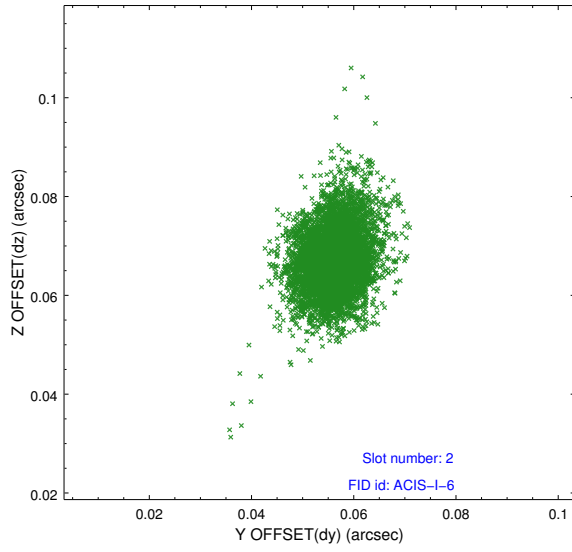
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.11.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.573354362011

A.2 Comments

Optional chips S2 and S3 were dropped.