

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17438 - L2 Version 1
Chandra X-Ray Center

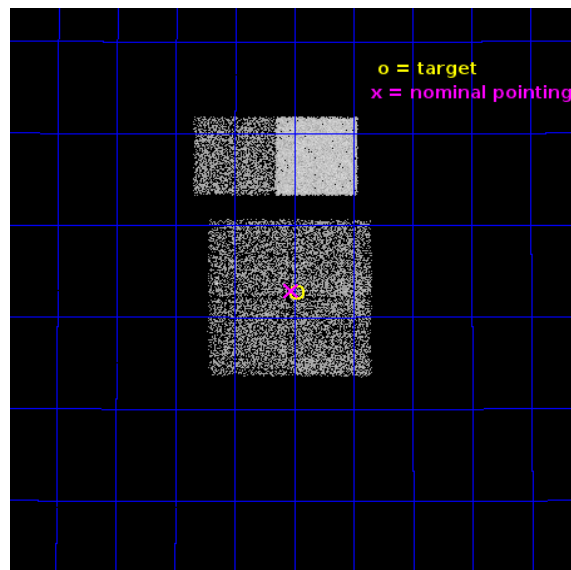
L2 Processing Date : Nov 5 2015

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1 Front

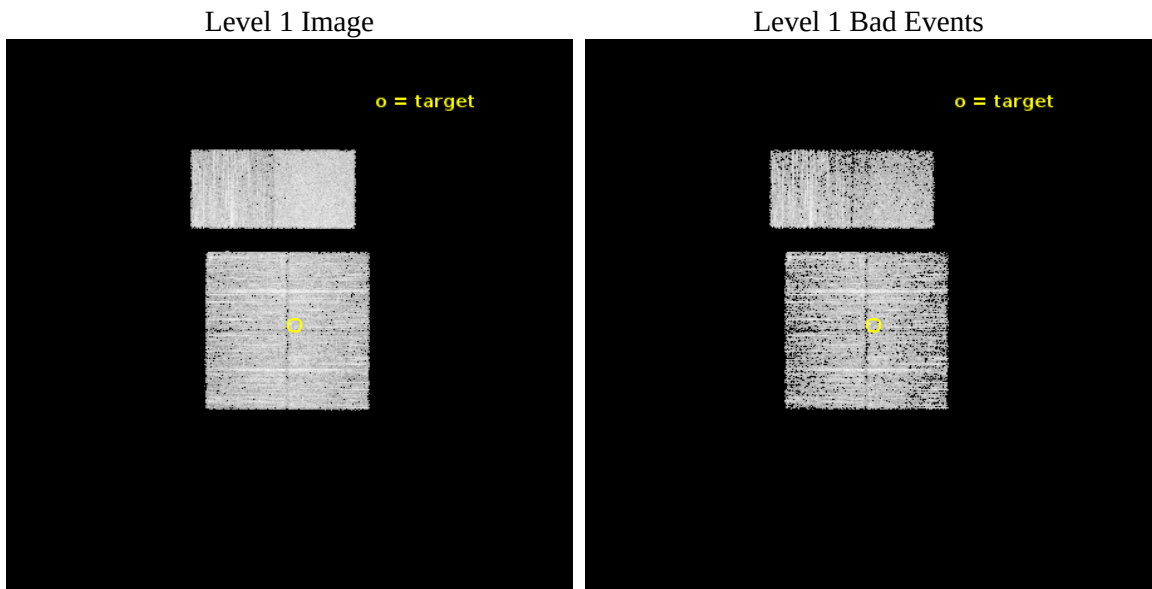
seq_num	901185	Sequence number
obs_id	17438	Observation id
title	A new moderate-depth contiguous layer of the Chandra Bootes field	
observer	Dr. Stephen Murray	Principal investigator
object	Bootes mod depth 4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.869167	Observer's specified target RA [deg]
dec_targ	34.211528	Observer's specified target Dec [deg]
ra_nom	216.8805626124	Nominal RA [deg]
dec_nom	34.214846369778	Nominal Dec [deg]
roll_nom	0.20227648758823	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6009.60008955	Sum of GTIs [s]
livetime	5933.5029146694	Livetime [s]
ontime0	6009.60008955	Sum of GTIs [s]
ontime1	6009.60008955	Sum of GTIs [s]
ontime2	6009.60008955	Sum of GTIs [s]
ontime3	6009.60008955	Sum of GTIs [s]
ontime6	6003.1181589365	Sum of GTIs [s]
ontime7	6009.60008955	Sum of GTIs [s]
l2events	34258	Number of level 2 events



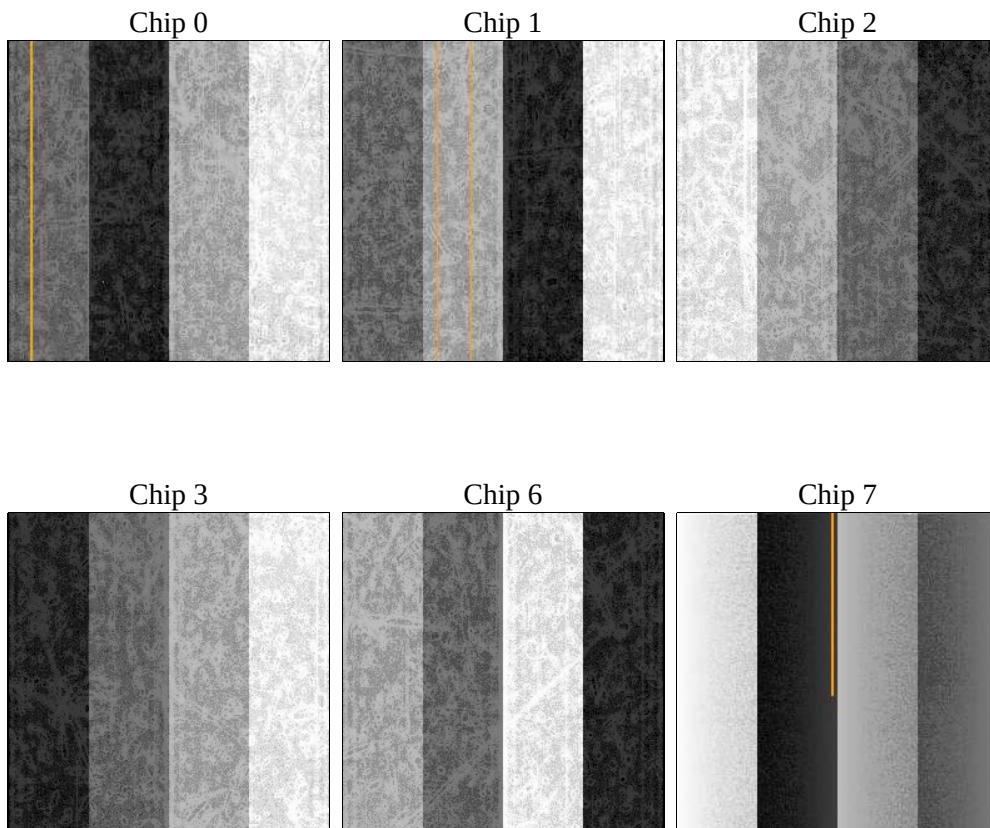
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6250.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	6009.60008955	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	6009.60008955	Sum of GTIs [s]
date	2015-11-05T14:28:00	Date and time of file creation	ontime1	6009.60008955	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6009.60008955	Sum of GTIs [s]
			ontime3	6009.60008955	Sum of GTIs [s]
			ontime6	6003.1181589365	Sum of GTIs [s]
			ontime7	6009.60008955	Sum of GTIs [s]
			l1events	199306	Number of level 1 events

2.1.4 Events

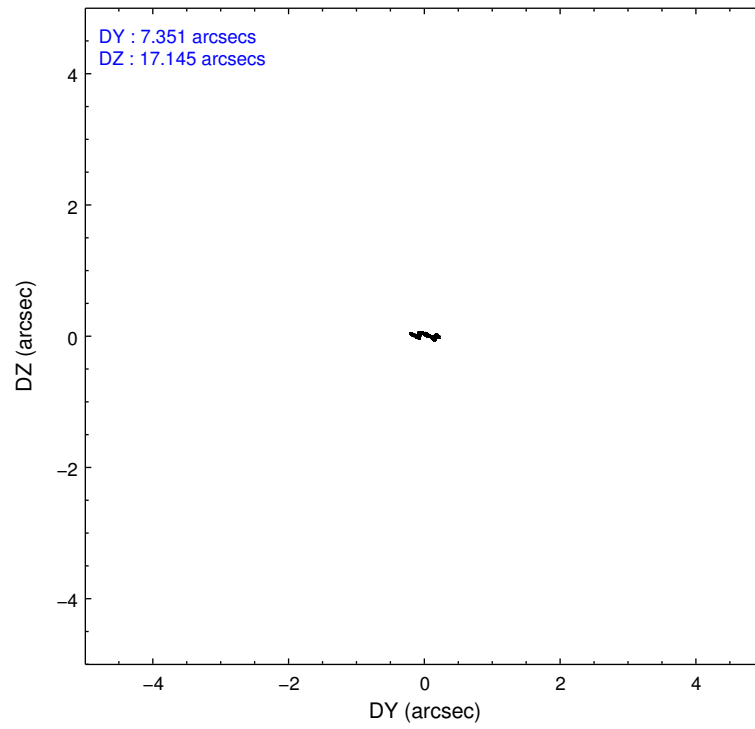
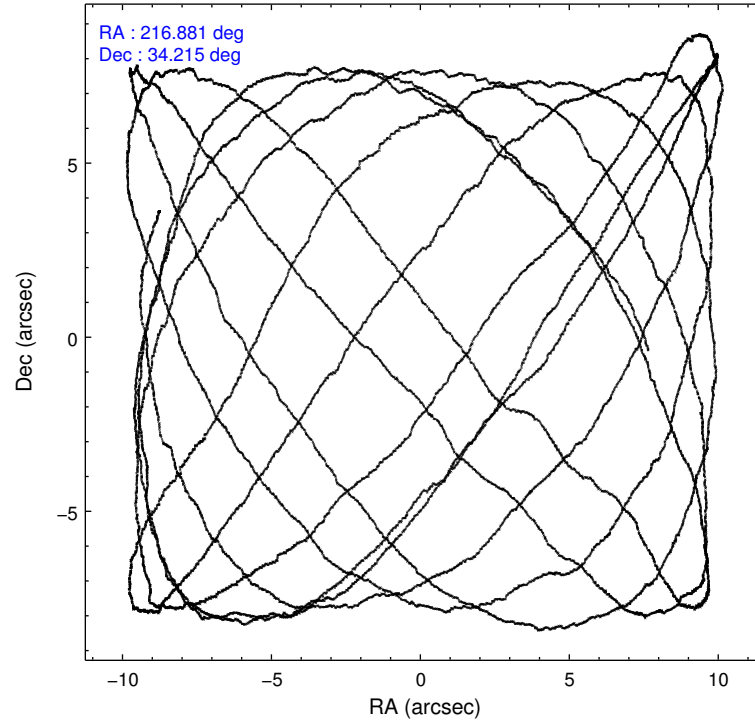
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	29016	30063	32149	31485	34002	42591	grade 0 events	1292	1465	1311	1455	1338	1577
rejected events	25335	25863	28456	27735	30138	24107		4%	4%	4%	4%	3%	3%
rejected %	87%	86%	88%	88%	88%	56%	grade 1 events	15	17	14	15	19	48
								0%	0%	0%	0%	0%	0%
							grade 2 events	913	1016	844	799	857	3880
								3%	3%	2%	2%	2%	9%
							grade 3 events	386	402	379	393	373	1528
								1%	1%	1%	1%	1%	3%
							grade 4 events	342	405	395	365	376	1482
								1%	1%	1%	1%	1%	3%
							grade 5 events	1435	1538	1300	1660	1687	4411
								4%	5%	4%	5%	4%	10%
							grade 6 events	760	914	764	741	920	10017
								2%	3%	2%	2%	2%	23%
							grade 7 events	23873	24306	27142	26057	28432	19648
								82%	80%	84%	82%	83%	46%

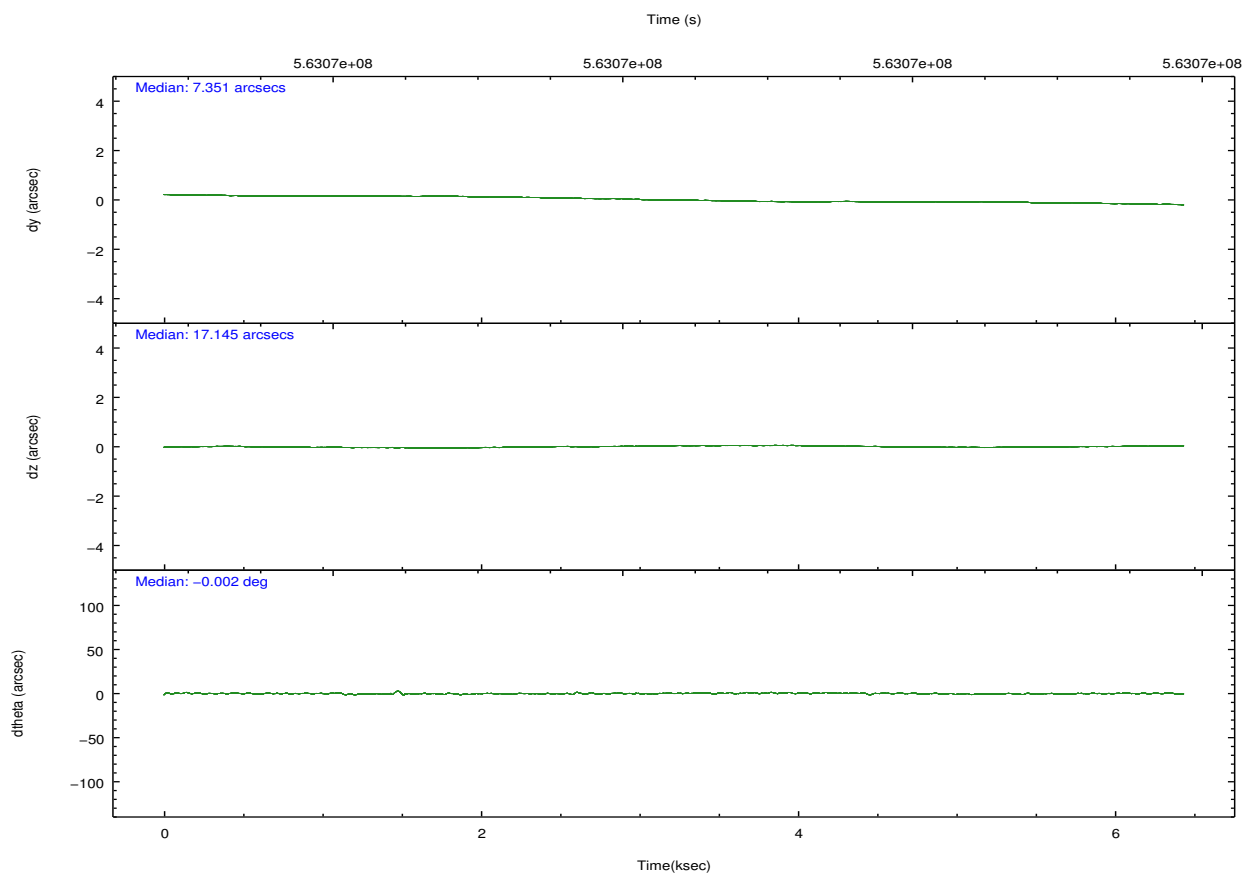
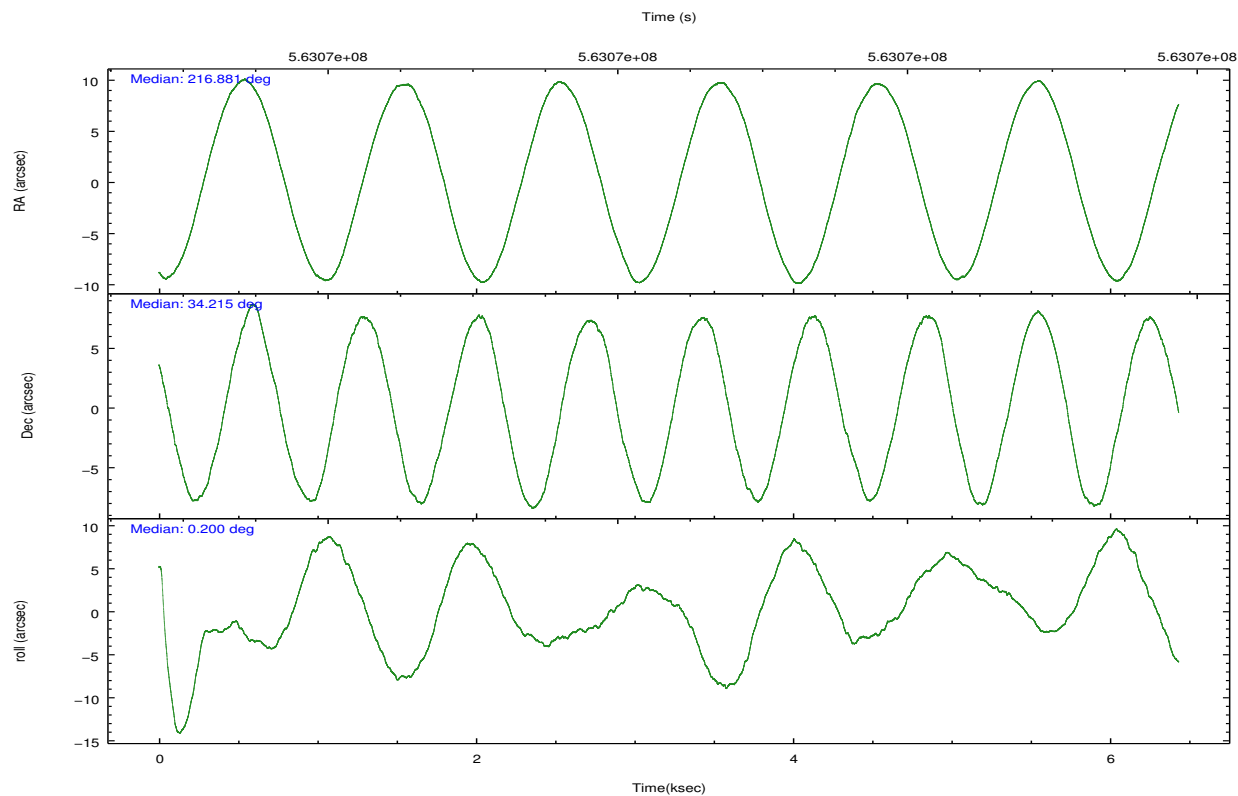
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	216.851838	216.8805626123977
[deg] Pointing Dec	34.200858	34.21484636977807
[deg] Pointing Roll	0.009742	0.202276487588225
[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)	563065332.184000	563064955.94804
Observation start date	2015-11-04T23:01:04	2015-11-04T22:55:55
[s] Observation end time (MET)	563071582.184000	563072270.3484499
Observation end date	2015-11-05T00:45:14	2015-11-05T00:57:50
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O2	Y
CCD S3 on	O1	Y
CCD S4 on	N	N
CCD S5 on	N	N
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	3.2

2.3 Aspect



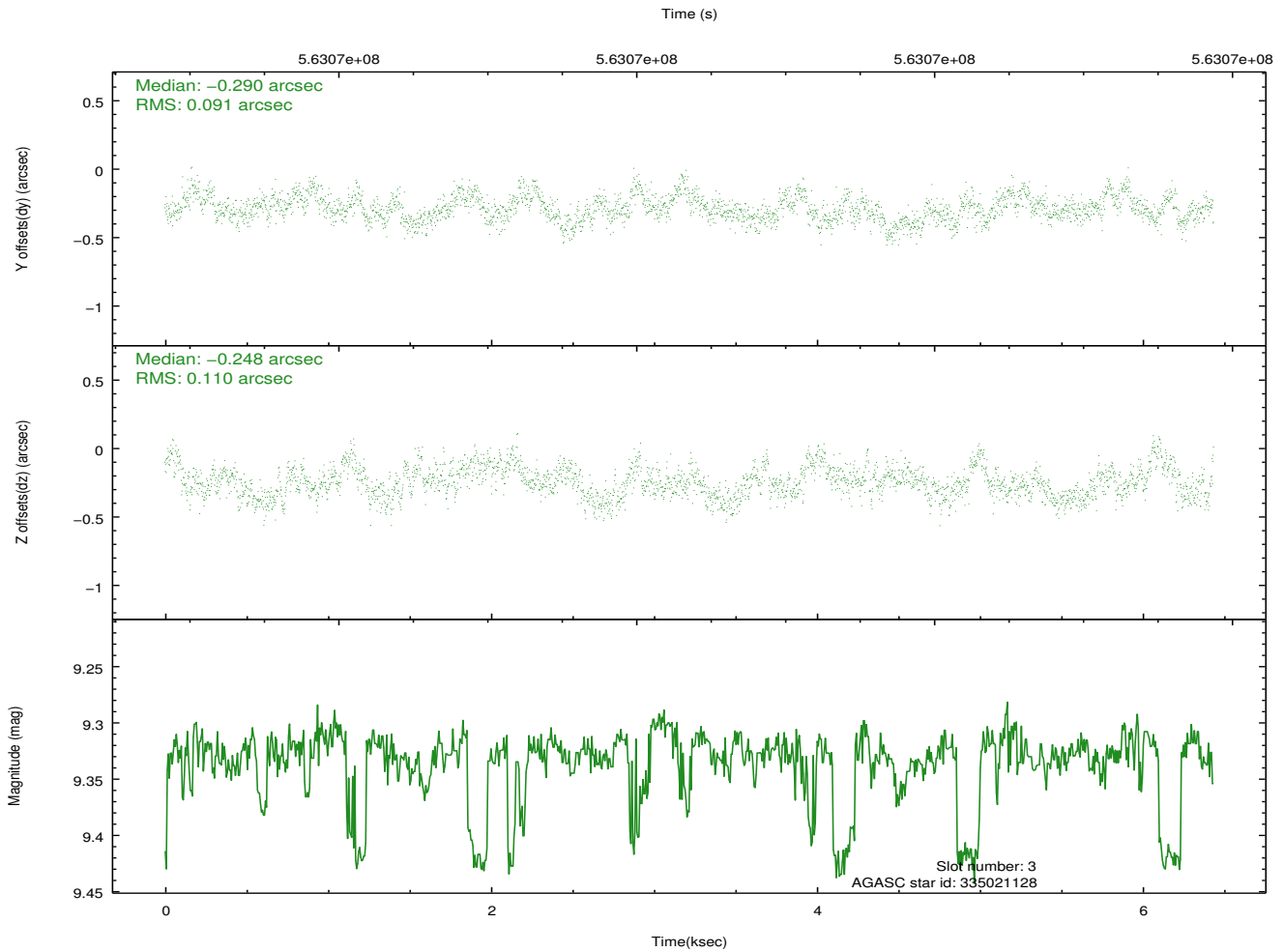
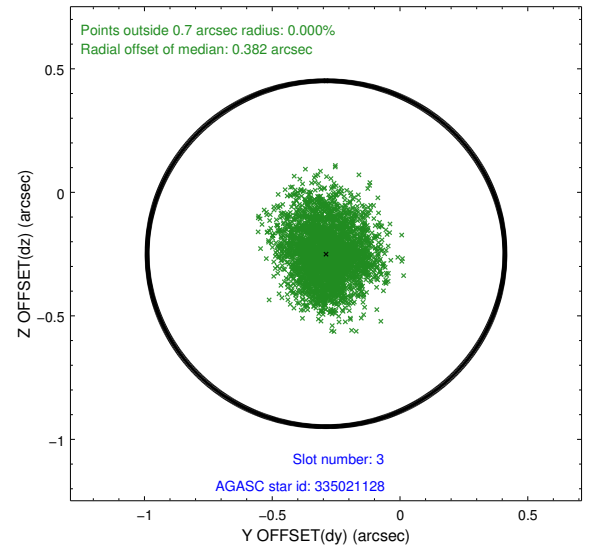
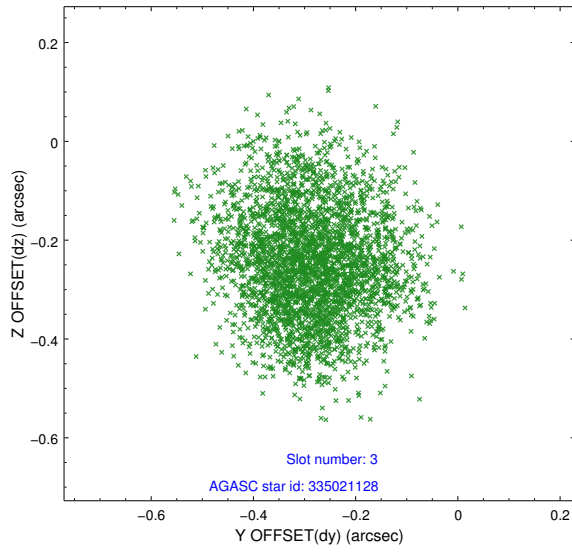


Slot Statistics

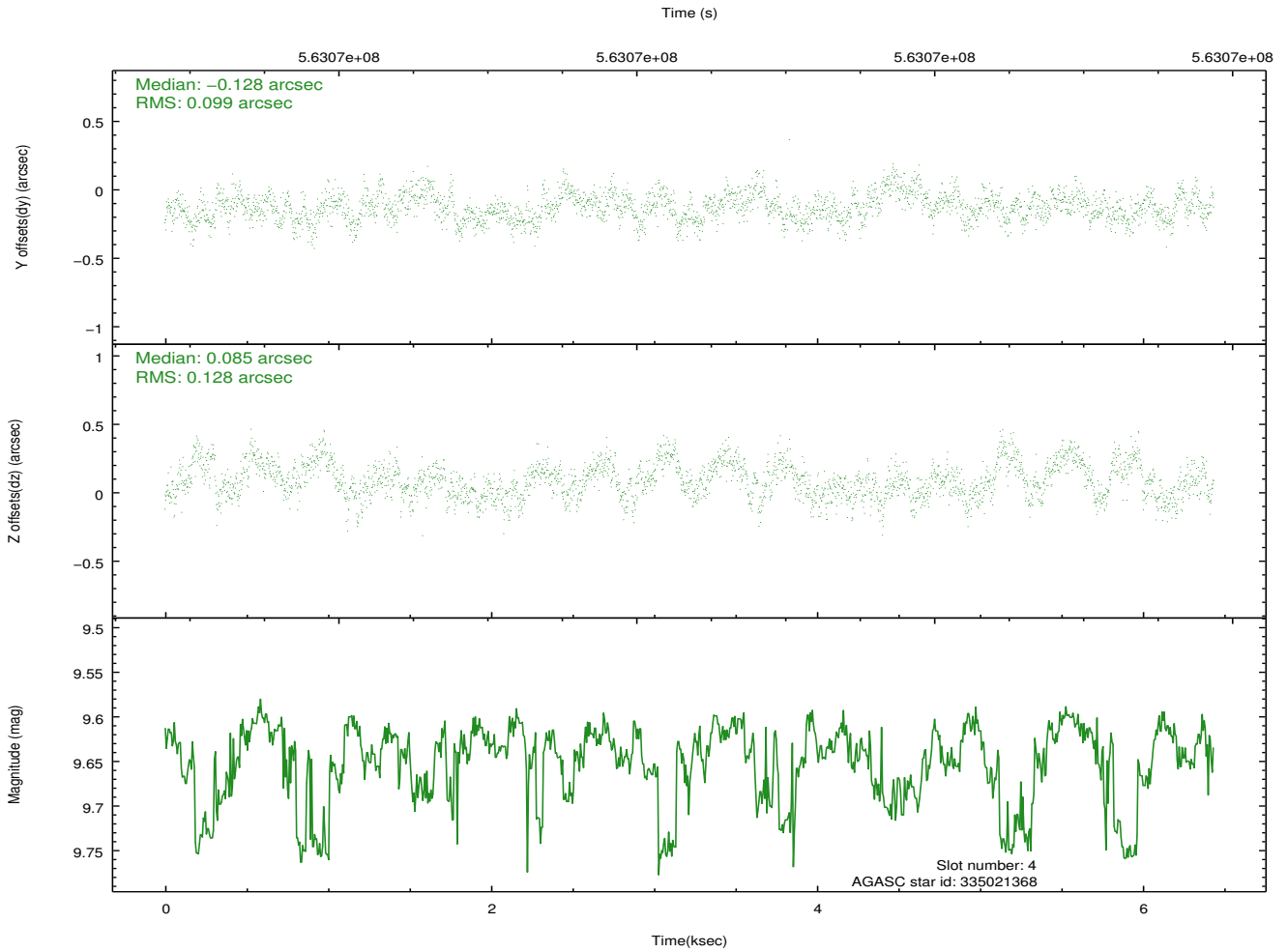
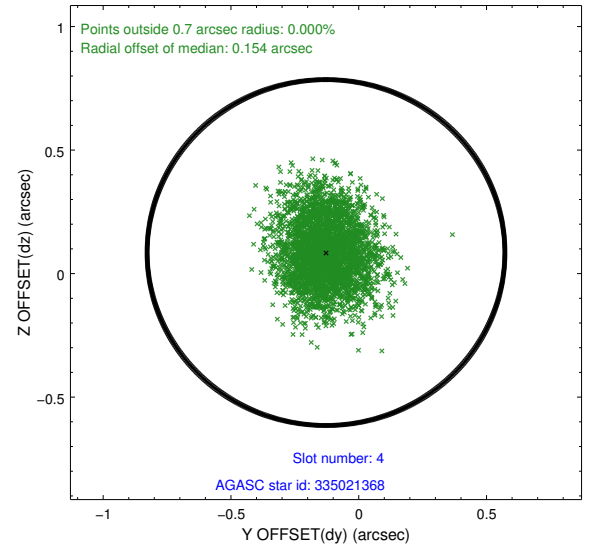
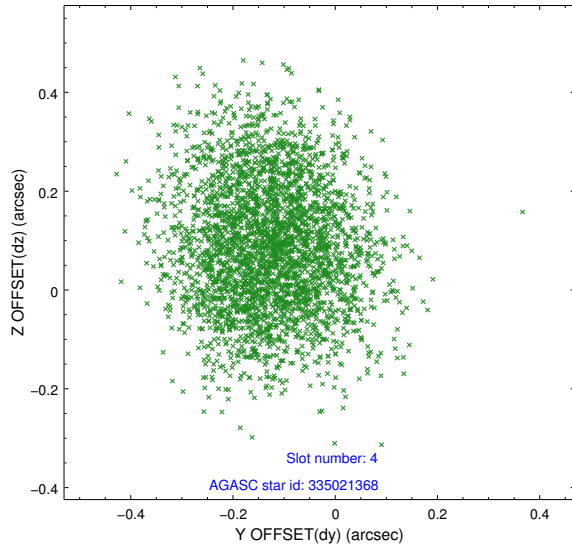
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	1570	0.125	-0.086	0.011	0.019	0.000000	0.000000	932.43	-840.89
1	FID		ACIS-I-5	7.23	1570	-0.292	0.101	0.008	0.015	0.000000	0.000000	-1815.60	1056.31
2	FID		ACIS-I-6	7.23	1570	0.075	0.055	0.008	0.014	0.000000	0.000000	396.92	1701.81
3	GUIDE	used	335021128	9.33	3134	-0.290	-0.248	0.155	0.240	216.159551	34.422539	-2055.97	805.15
4	GUIDE	used	335021368	9.64	3135	-0.128	0.085	0.173	0.274	217.529643	33.934817	2023.59	-950.97
5	GUIDE	used	335025848	9.68	3137	0.313	0.224	0.138	0.226	217.530531	33.778292	2031.66	-1514.87
6	GUIDE	used	335028696	9.21	3137	-0.532	0.103	0.142	0.234	217.260519	33.844112	1221.93	-1282.36
7	GUIDE	used	335030384	8.81	3139	0.627	-0.179	0.140	0.221	216.806407	34.722197	-133.13	1876.32

2.4 Star Slots

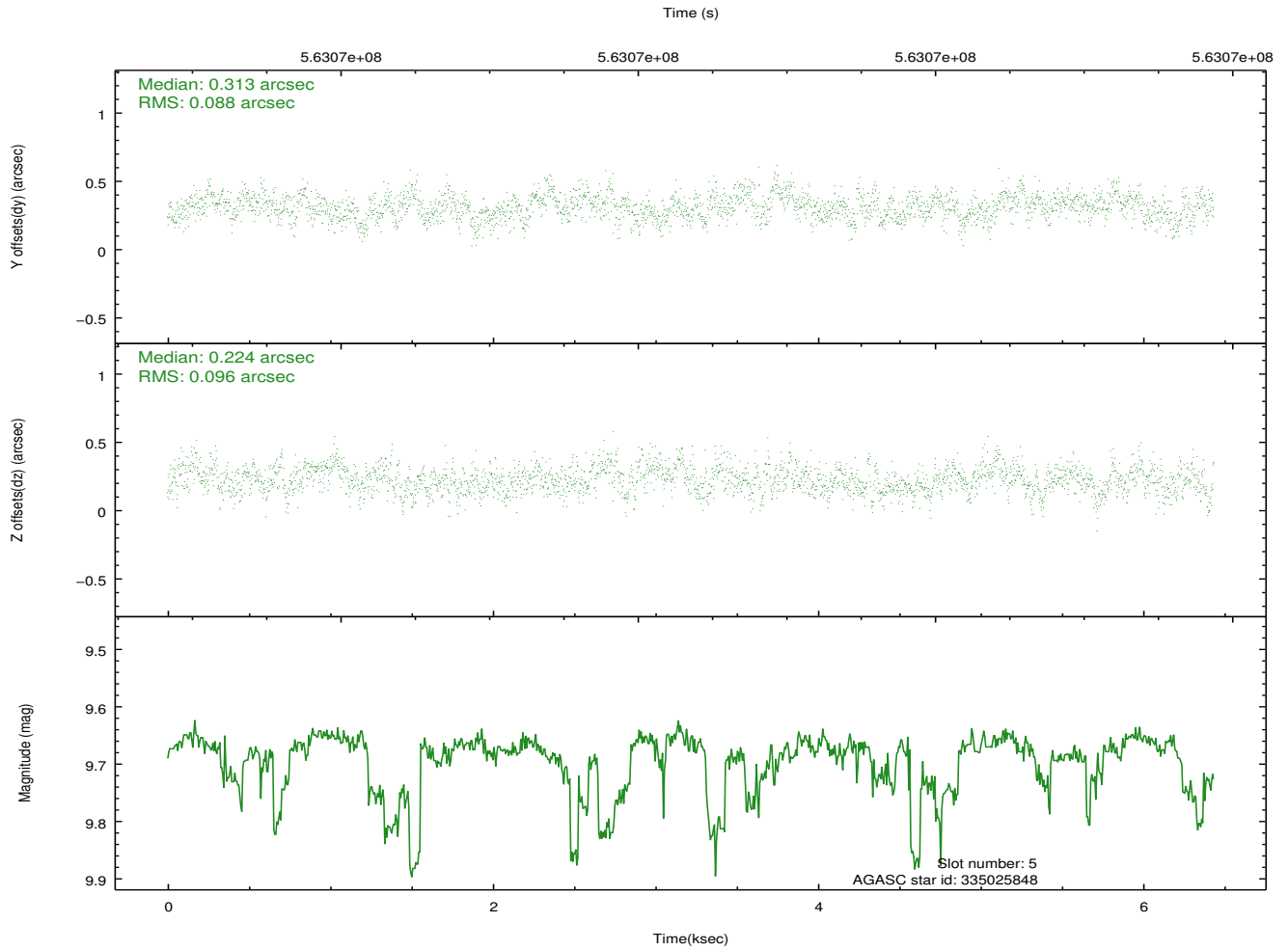
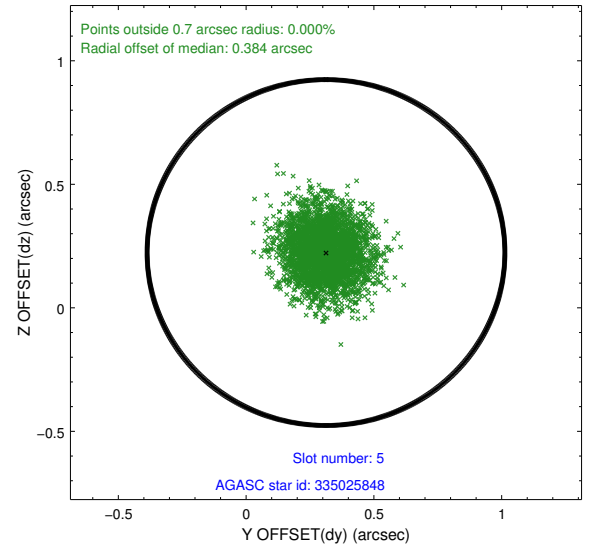
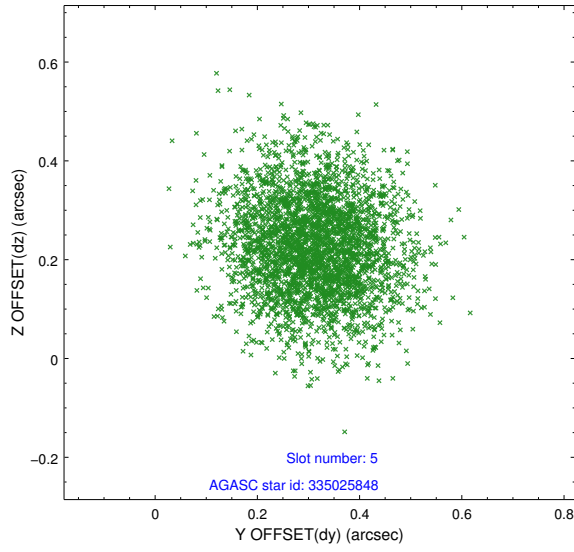
2.4.1 Slot 3



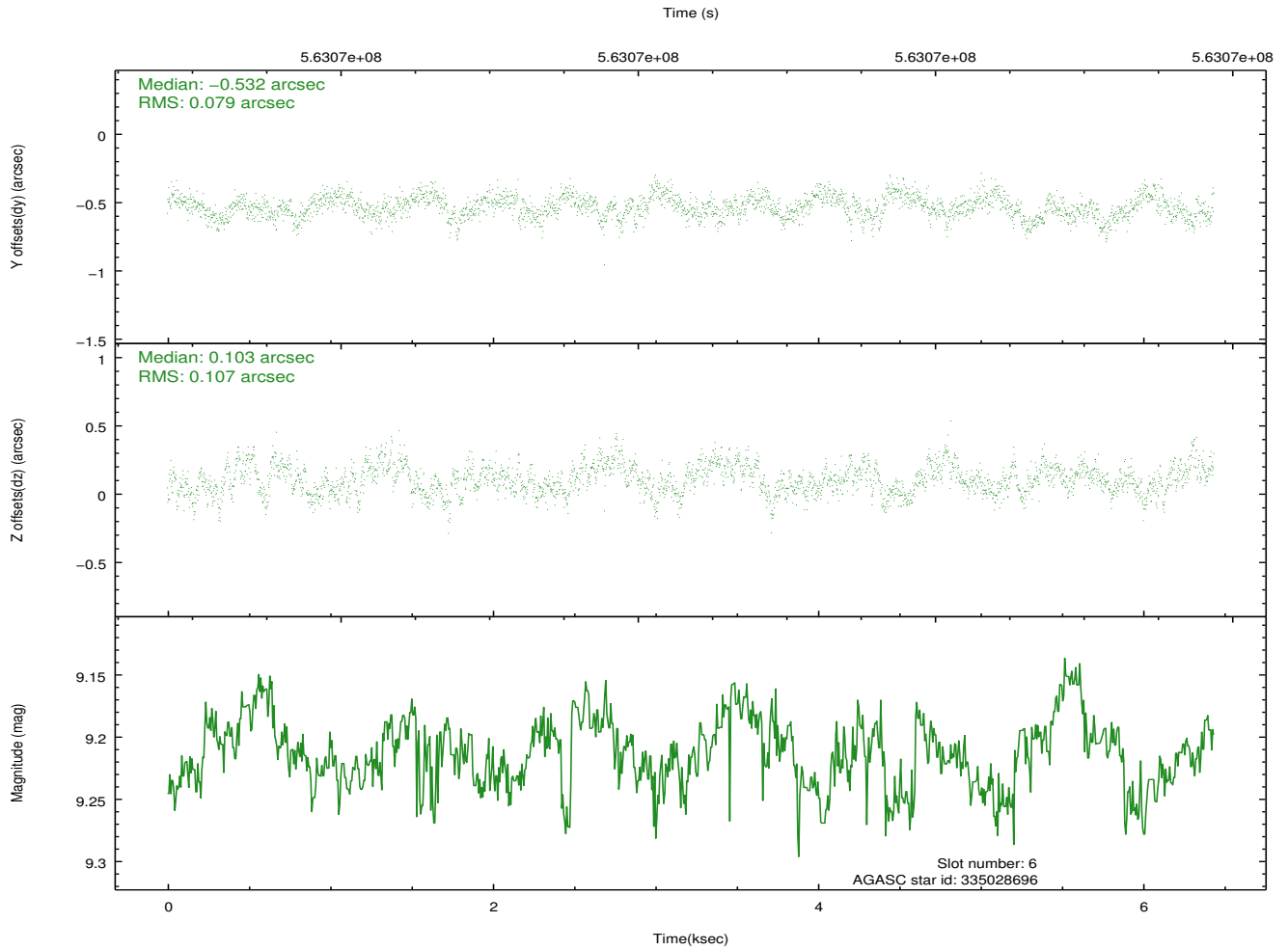
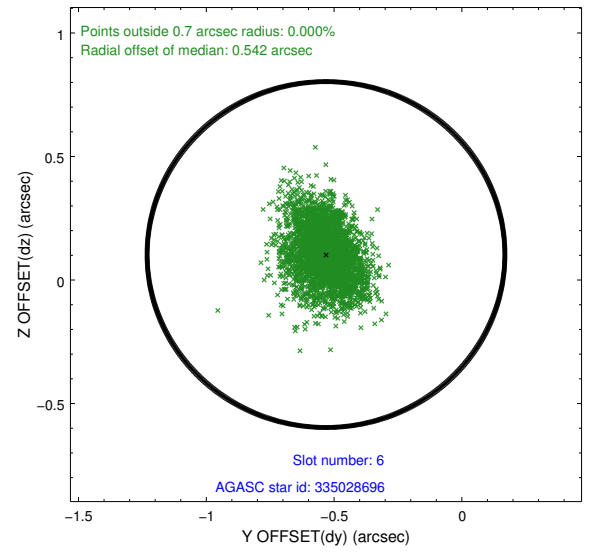
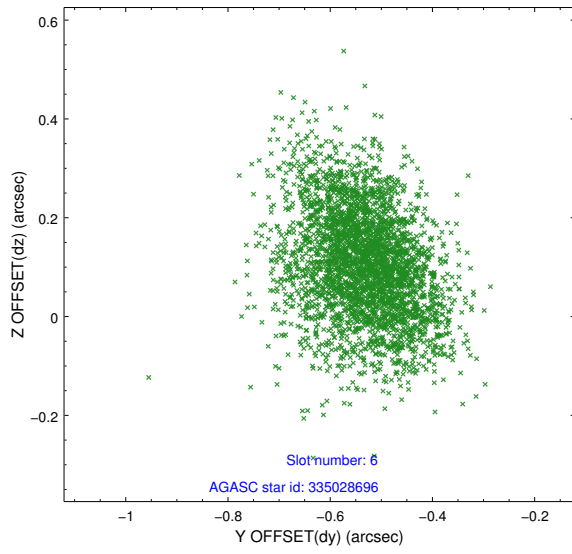
2.4.2 Slot 4



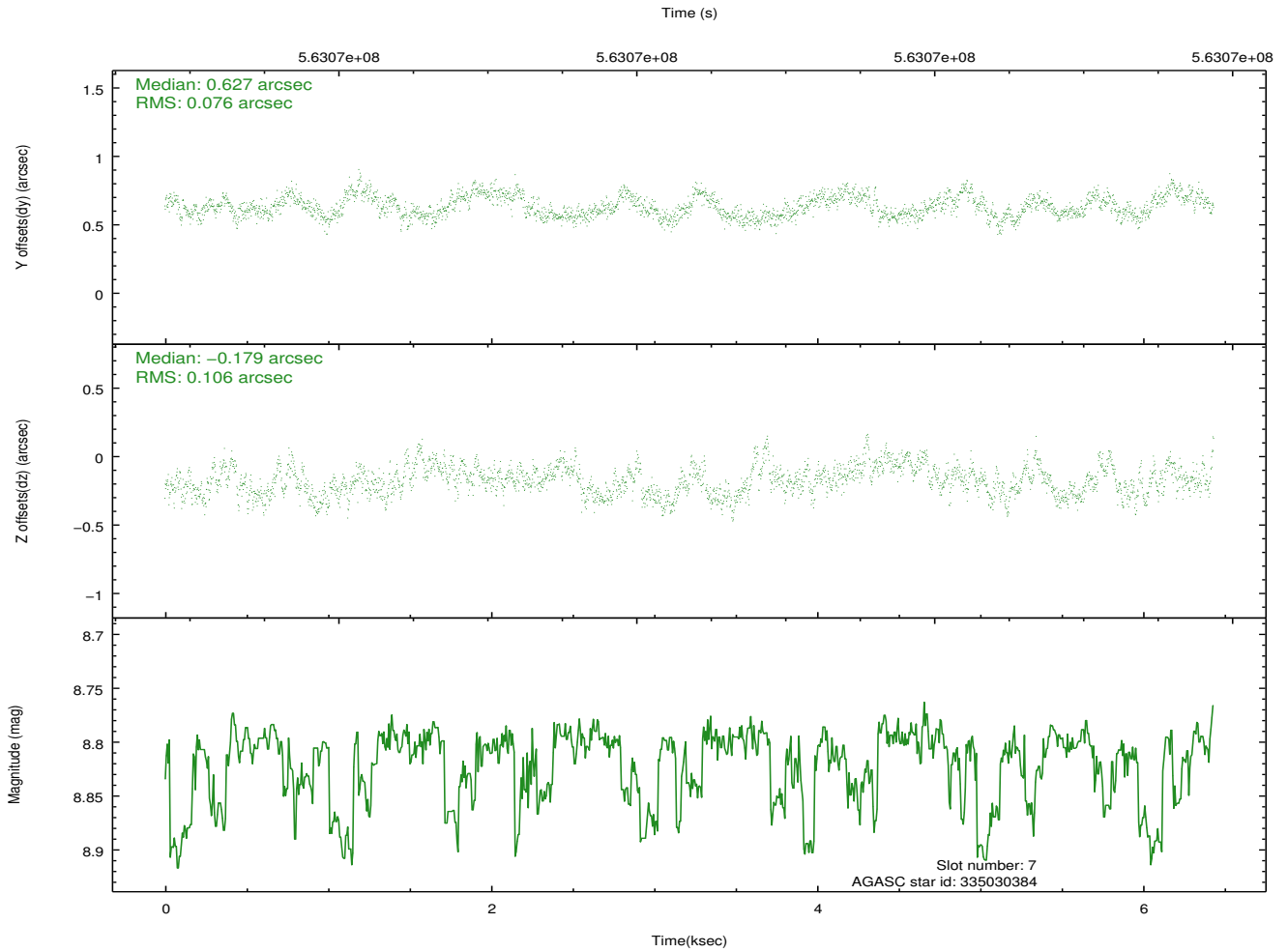
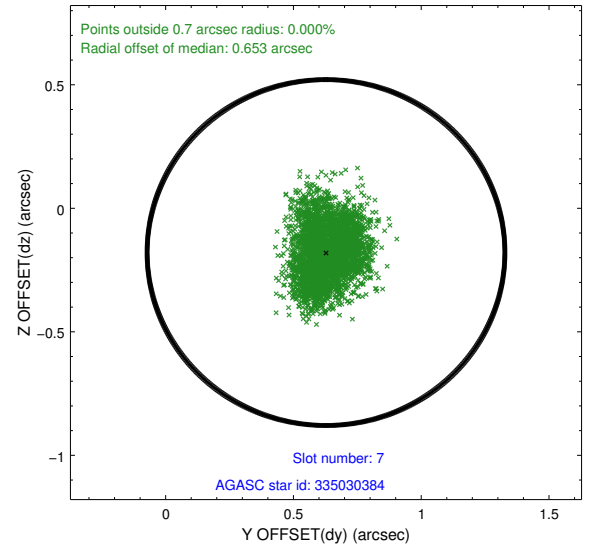
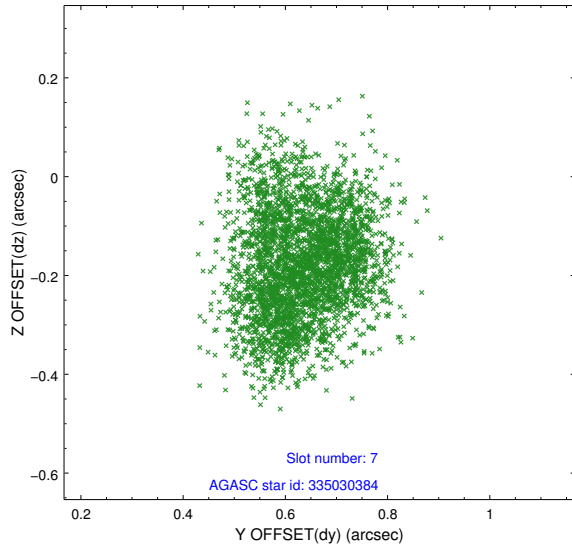
2.4.3 Slot 5



2.4.4 Slot 6

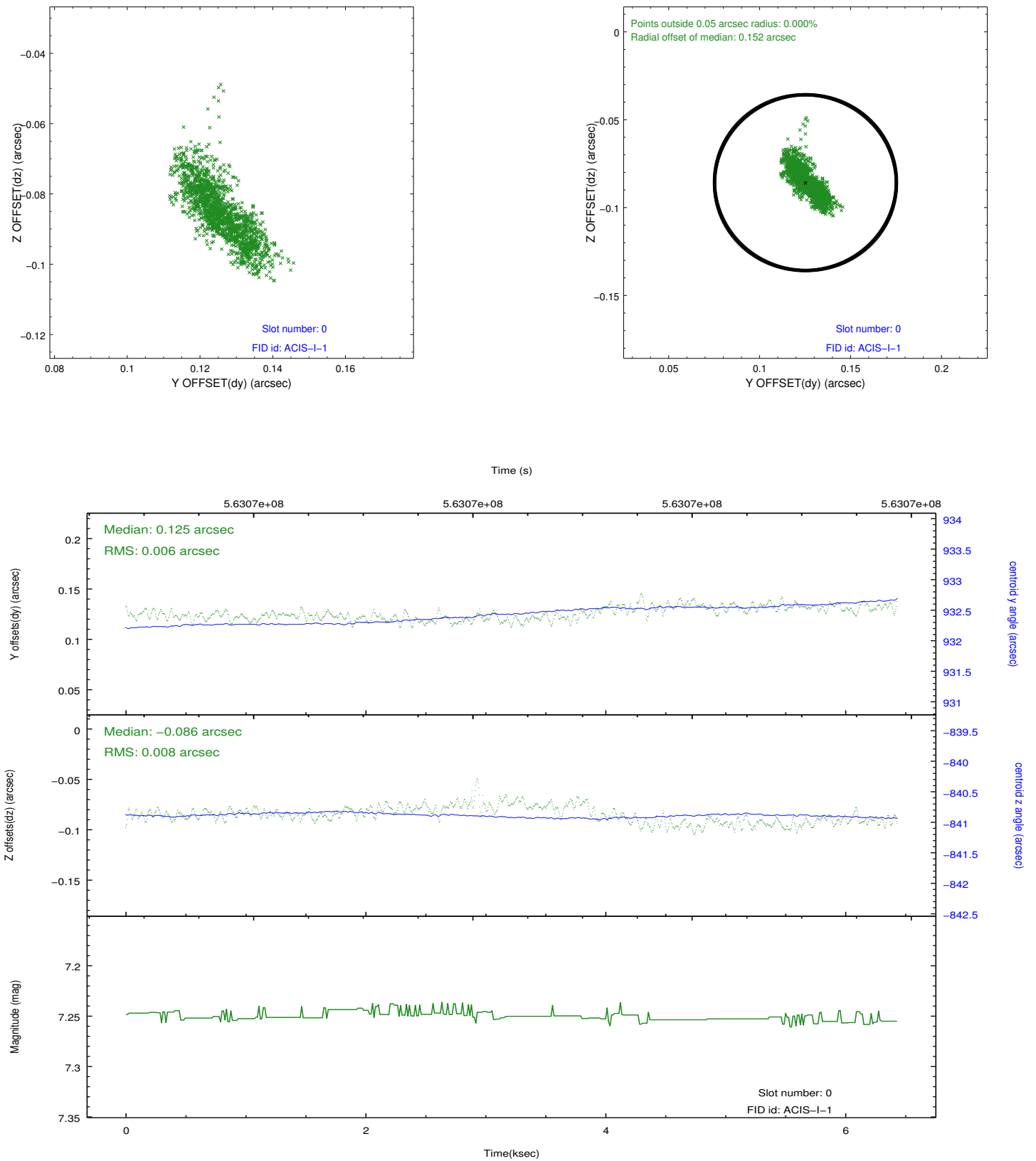


2.4.5 Slot 7

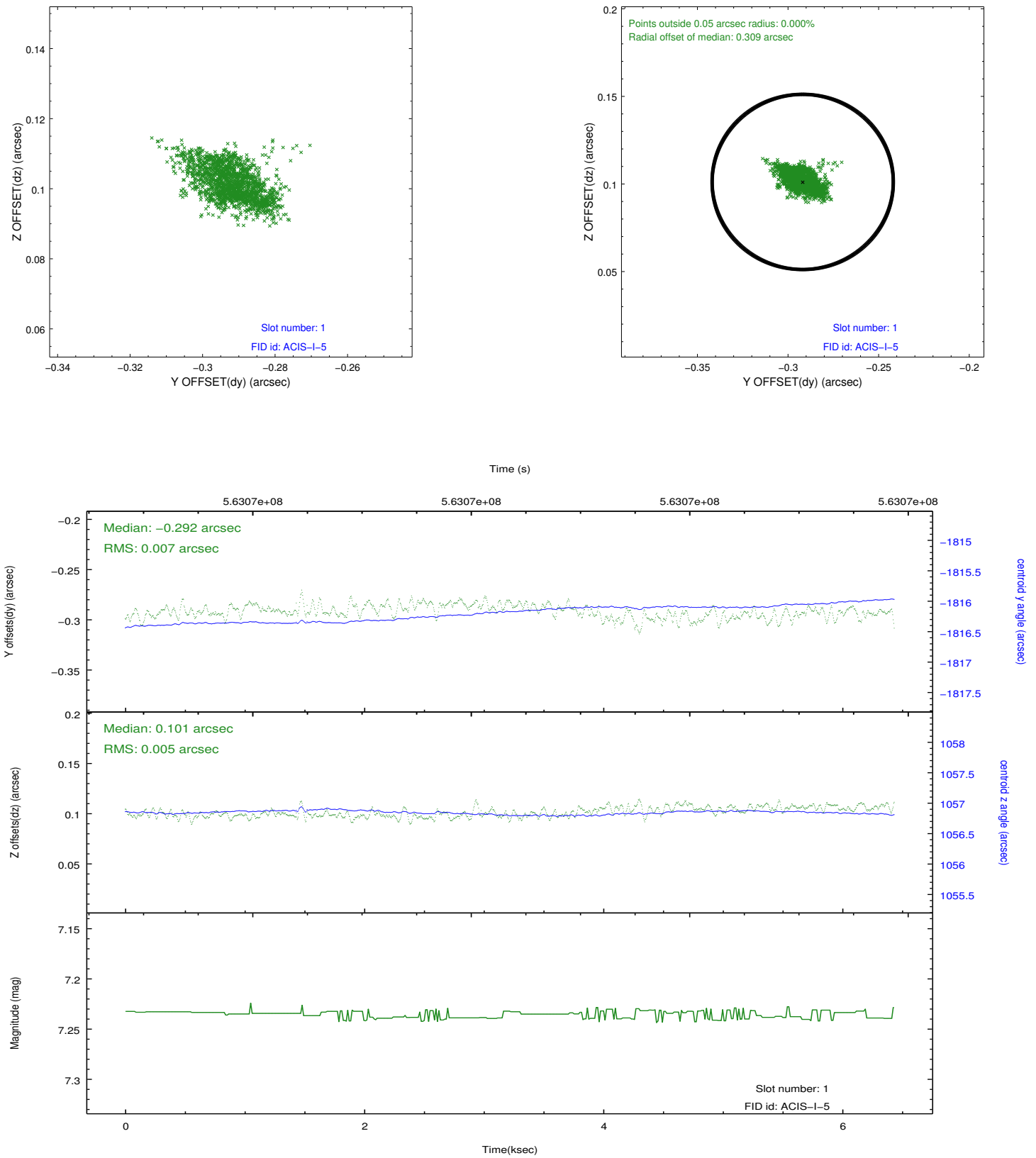


2.5 FID Slots

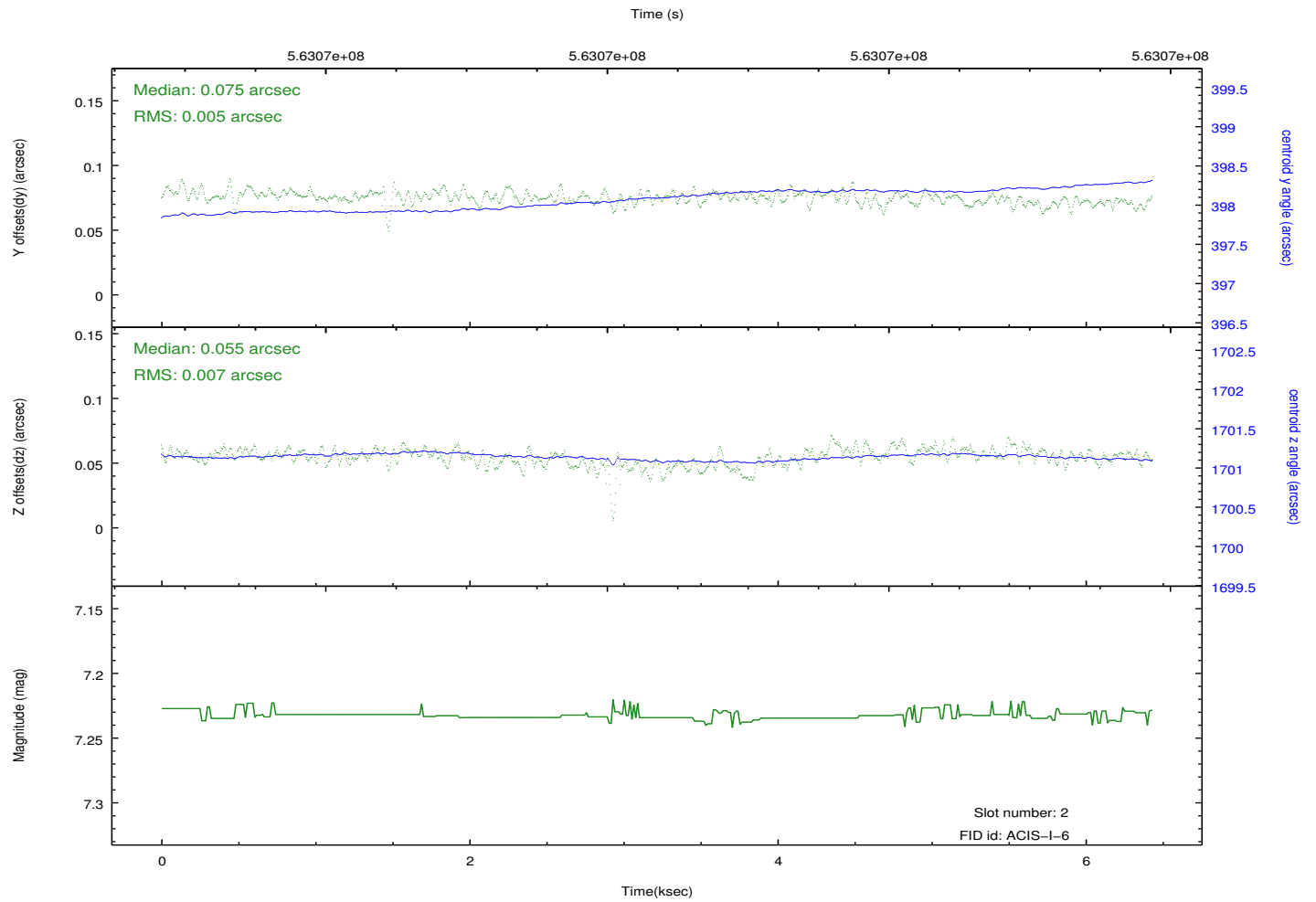
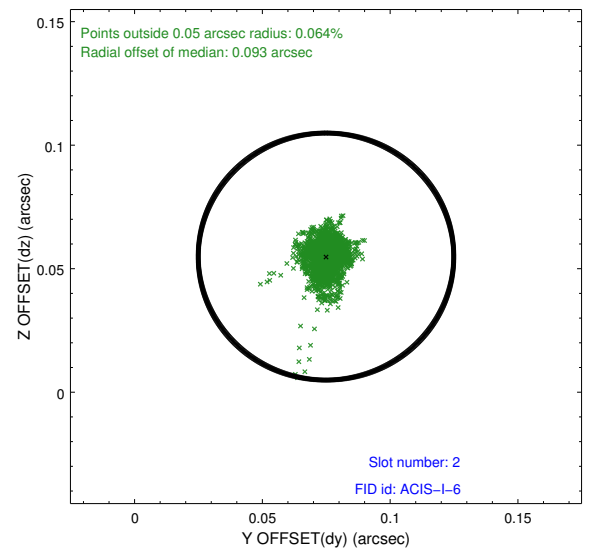
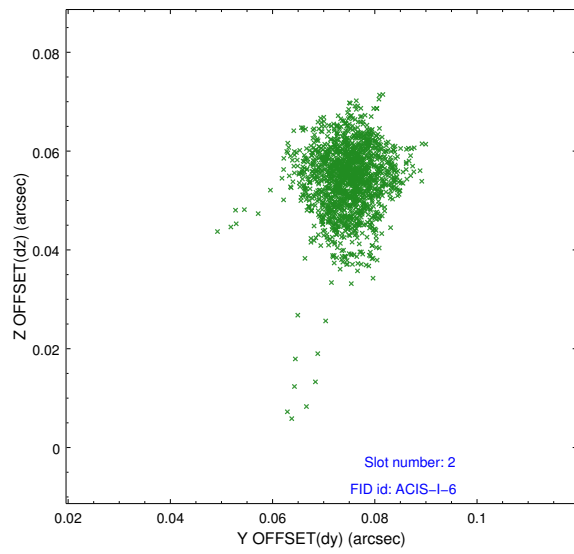
2.5.1 Slot 0



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)	2015.11.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.00960008955

A.2 Comments

Roll preference met.