

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12824 - L2 Version 2
Chandra X-Ray Center

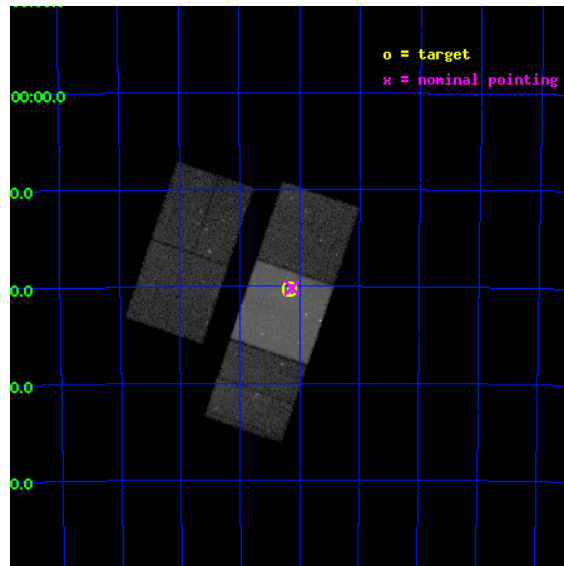
L2 Processing Date : Jul 8 2012

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1 Front

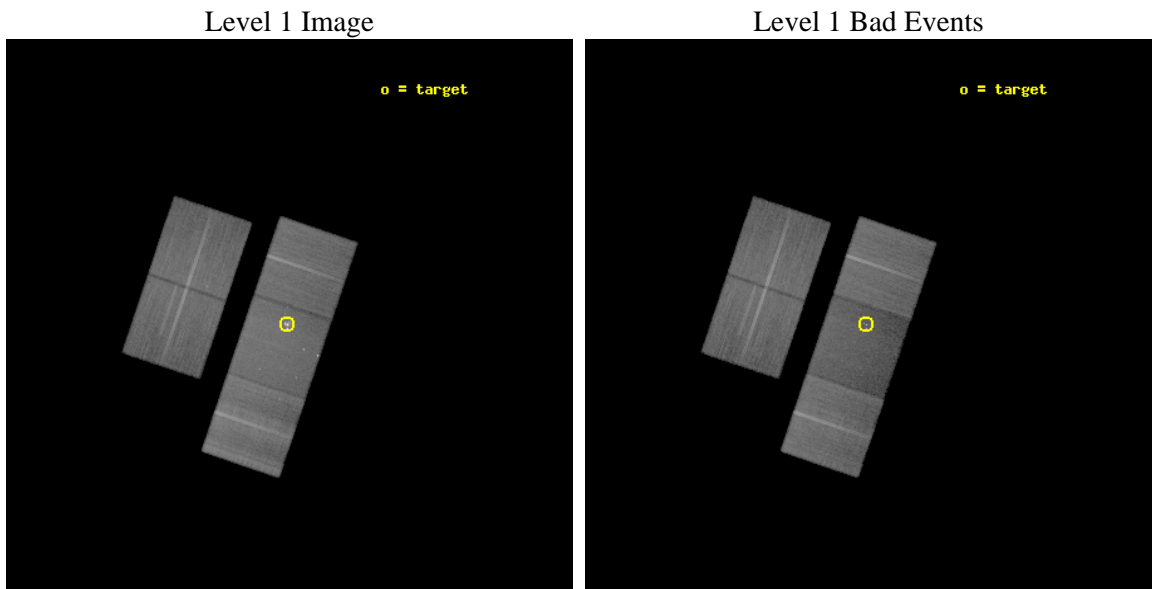
seq_num	702459	Sequence number
obs_id	12824	Observation id
title	The Circinus Galaxy: shedding X-ray light on the energetics of AGN outflows	Proposal title
observer	Miss Beatriz Mingo	Principal investigator
object	Circinus Galaxy	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	213.29125	Observer's specified target RA [deg]
dec_targ	-65.339167	Observer's specified target Dec [deg]
ra_nom	213.28231726939	Nominal RA [deg]
dec_nom	-65.336092933832	Nominal Dec [deg]
roll_nom	108.71025498595	Nominal Roll [deg]
revision	2	Processing version of data
ontime	39402.752998054	Sum of GTIs [s]
livetime	38887.92702225	Livetime [s]
ontime2	39399.447897553	Sum of GTIs [s]
ontime3	39402.670918047	Sum of GTIs [s]
ontime6	39402.711958051	Sum of GTIs [s]
ontime7	39402.752998054	Sum of GTIs [s]
ontime8	39396.347947419	Sum of GTIs [s]
l2events	260693	Number of level 2 events



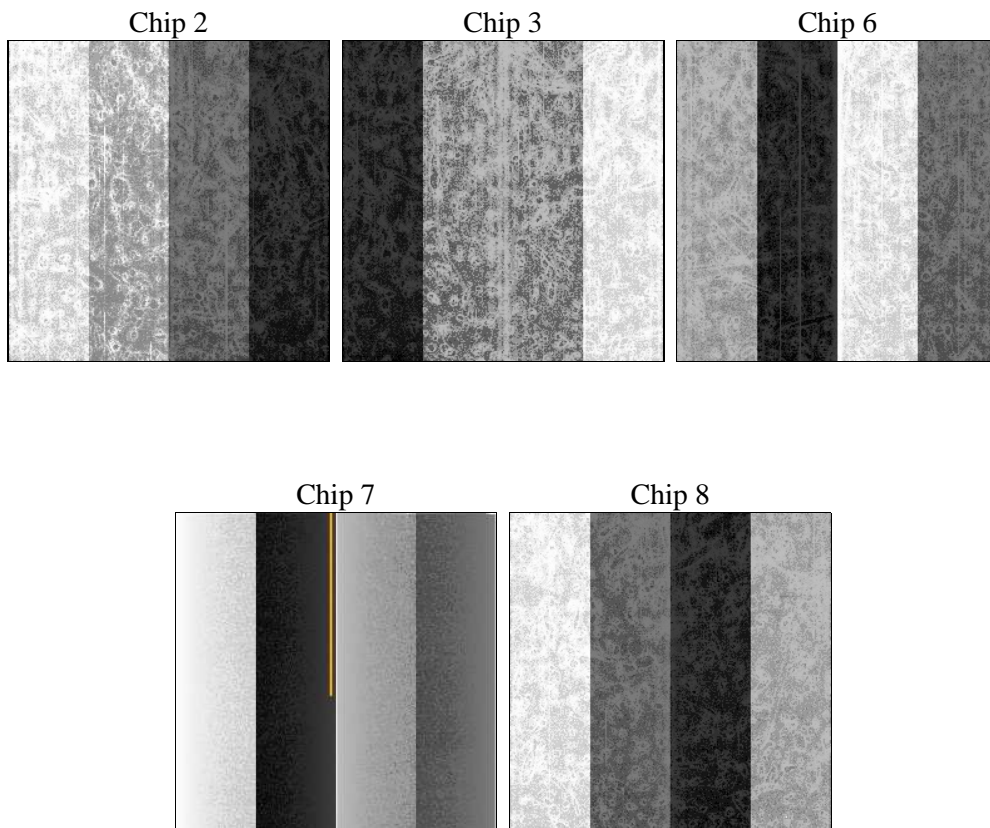
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	39360.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	39402.752998054	Sum of GTIs [s]
caldbver	4.5.0	 	ontime2	39399.447897553	Sum of GTIs [s]
date	2012-07-08T21:17:38	Date and time of file creation	ontime3	39402.670918047	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	39402.711958051	Sum of GTIs [s]
			ontime7	39402.752998054	Sum of GTIs [s]
			ontime8	39396.347947419	Sum of GTIs [s]
			l1events	1404646	Number of level 1 events

2.1.4 Events

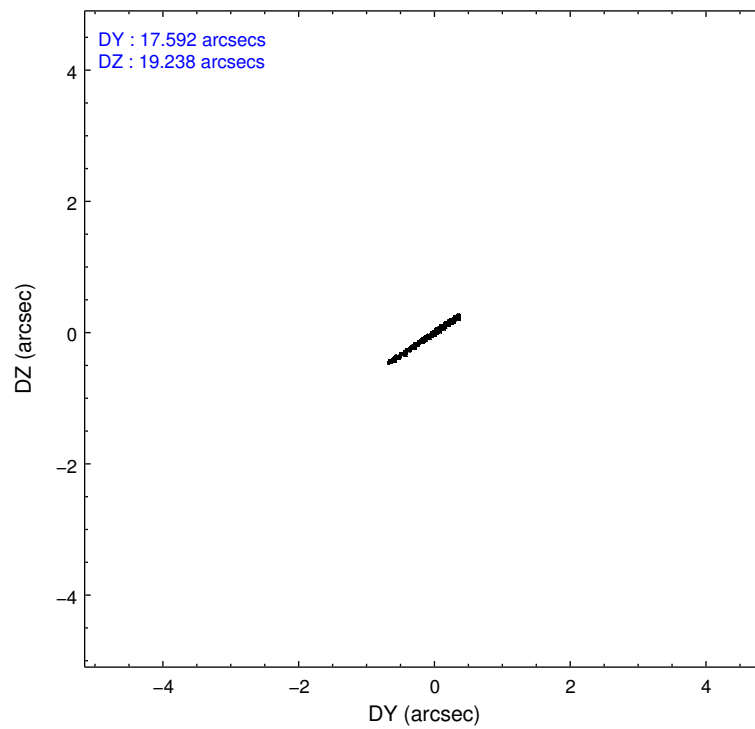
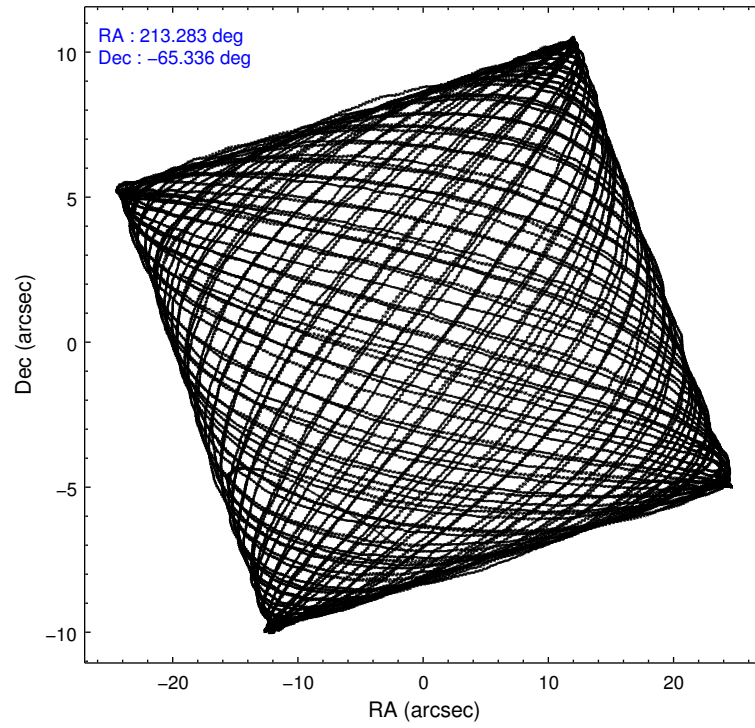
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	253605	248602	268395	303565	330479
rejected events	225218	221795	237534	139799	241440
rejected %	88%	89%	88%	46%	73%

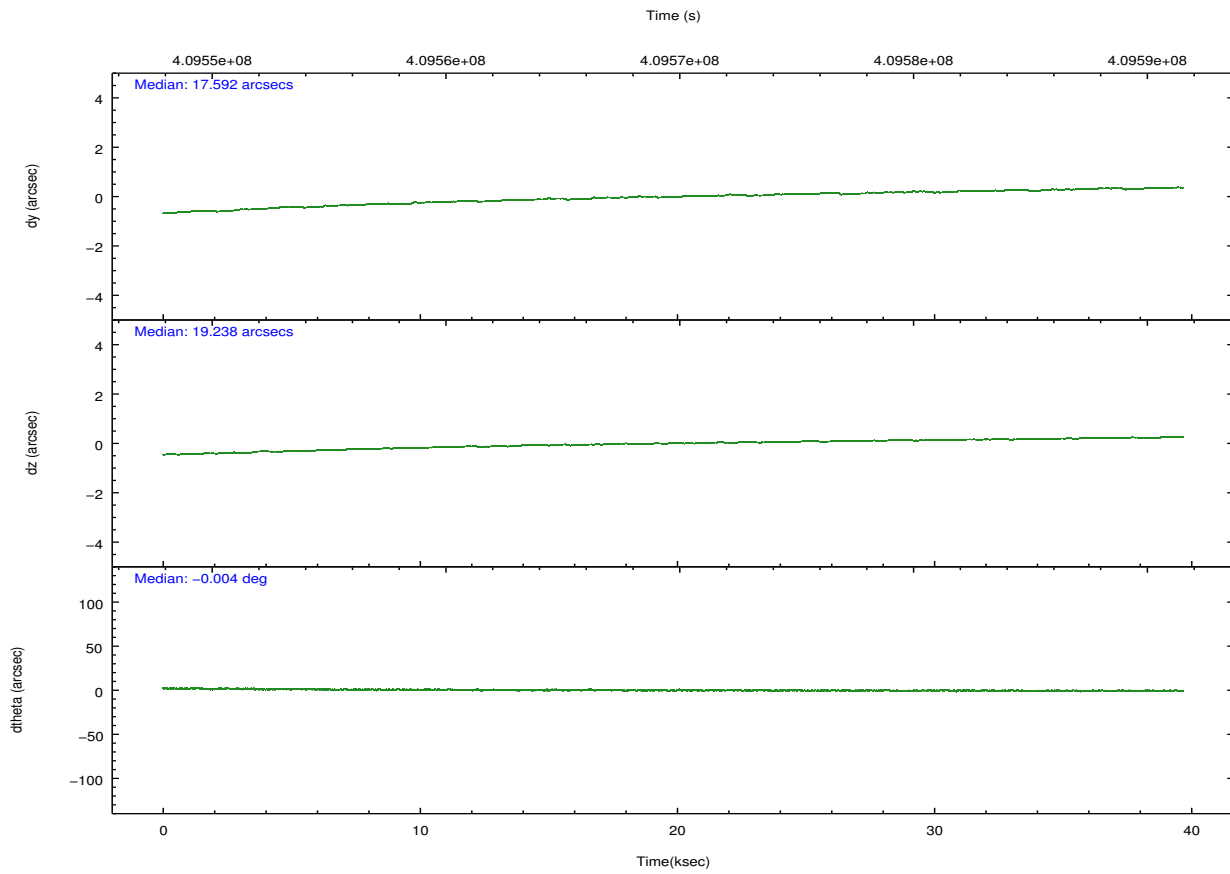
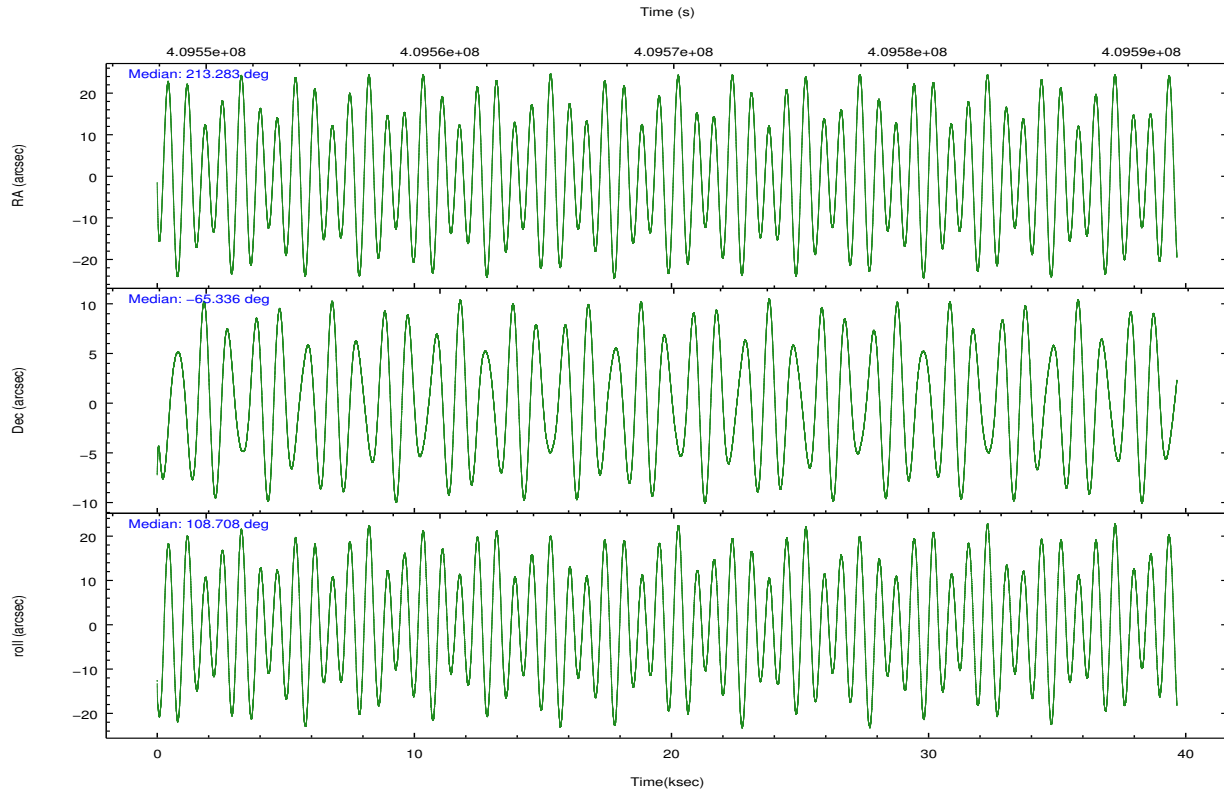
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	11140	10233	11968	20654	24938
	4%	4%	4%	6%	7%
grade 1 events	155	148	156	679	239
	0%	0%	0%	0%	0%
grade 2 events	6767	5929	6780	36431	21760
	2%	2%	2%	12%	6%
grade 3 events	2832	2886	3112	15462	9263
	1%	1%	1%	5%	2%
grade 4 events	2869	2700	3028	15601	8540
	1%	1%	1%	5%	2%
grade 5 events	8161	9968	10162	29847	15365
	3%	4%	3%	9%	4%
grade 6 events	4779	5061	5974	75628	24539
	1%	2%	2%	24%	7%
grade 7 events	216902	211677	227215	109263	225835
	85%	85%	84%	35%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	213.332146	213.2823172693892	CCD I2 on	O2	Y
[deg] Pointing Dec	-65.353818	-65.33609293383209	CCD I3 on	O1	Y
[deg] Pointing Roll	108.598918	108.7102549859458	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	409550186.184000	409549199.90007	CCD S5 on	N	N
Observation start date	2010-12-24T03:55:20	2010-12-24T03:39:59	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	409589546.184000	409590509.45221	On-chip summing requested	N	N
Observation end date	2010-12-24T14:51:20	2010-12-24T15:08:29	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





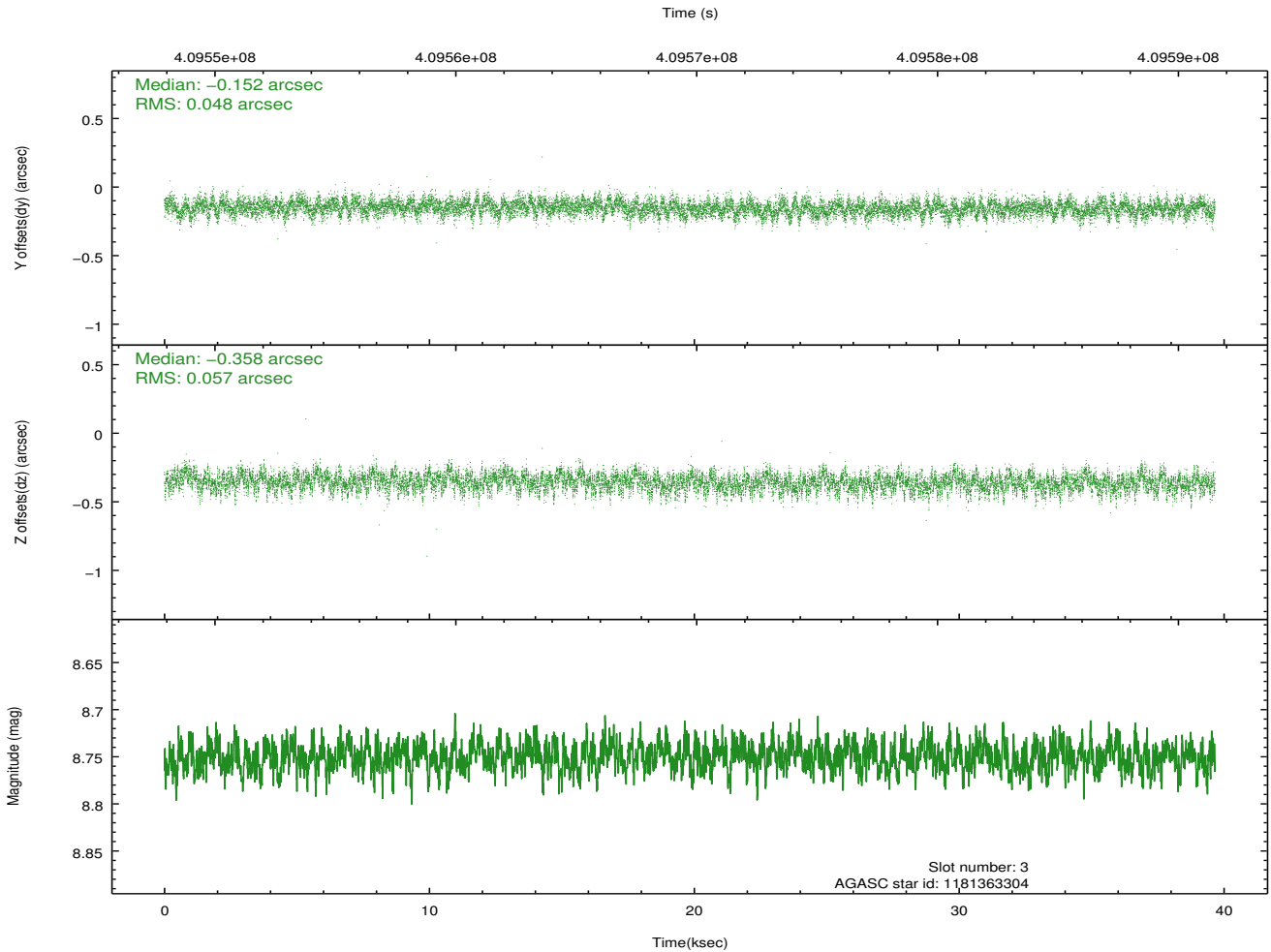
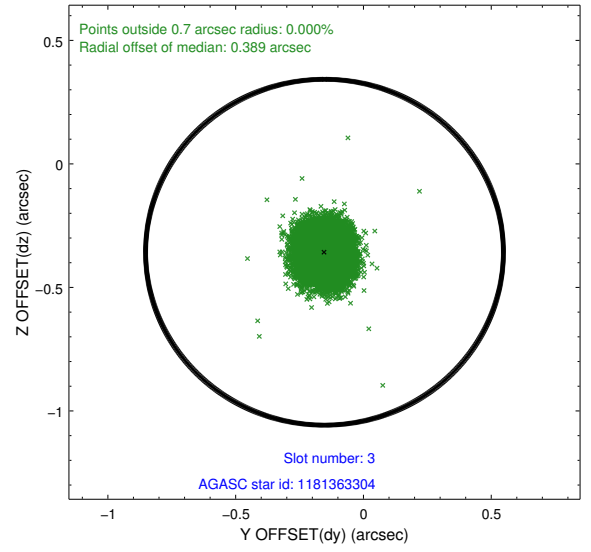
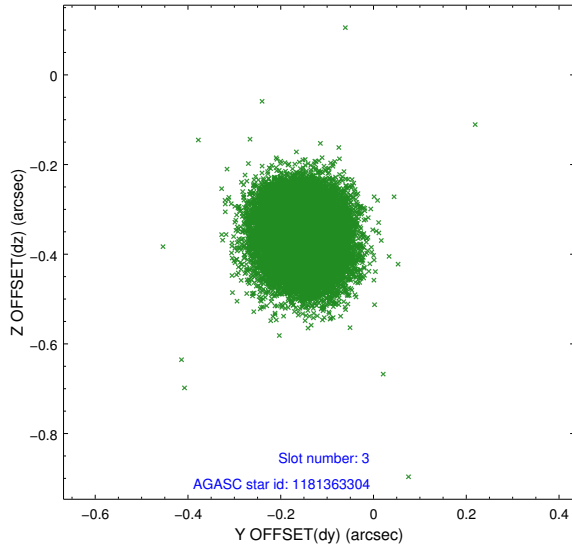
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.89	9674	-0.081	-0.036	0.012	0.017	0.000000	0.000000	-770.67	-1740.73
1	FID	ACIS-S-4	6.97	9673	0.189	0.049	0.010	0.017	0.000000	0.000000	2142.87	167.81
2	FID	ACIS-S-5	7.00	9674	-0.139	-0.005	0.012	0.018	0.000000	0.000000	-1823.54	161.46
3	GUIDE	1181363304	8.75	19340	-0.152	-0.358	0.079	0.127	212.741873	-65.071033	1246.89	526.03
4	GUIDE	1181492072	9.19	19267	0.064	0.113	0.103	0.165	214.479575	-65.592809	-1373.94	-1338.00
5	GUIDE	1181492872	9.09	19331	0.092	0.126	0.118	0.184	214.965330	-65.517798	-1365.99	-2110.29
6	GUIDE	1181888328	9.11	19335	0.101	-0.066	0.088	0.145	213.100875	-66.006078	-2117.73	1070.15
7	GUIDE	1181356824	8.93	19267	-0.108	0.183	0.095	0.154	213.100076	-64.682630	2403.66	-431.26

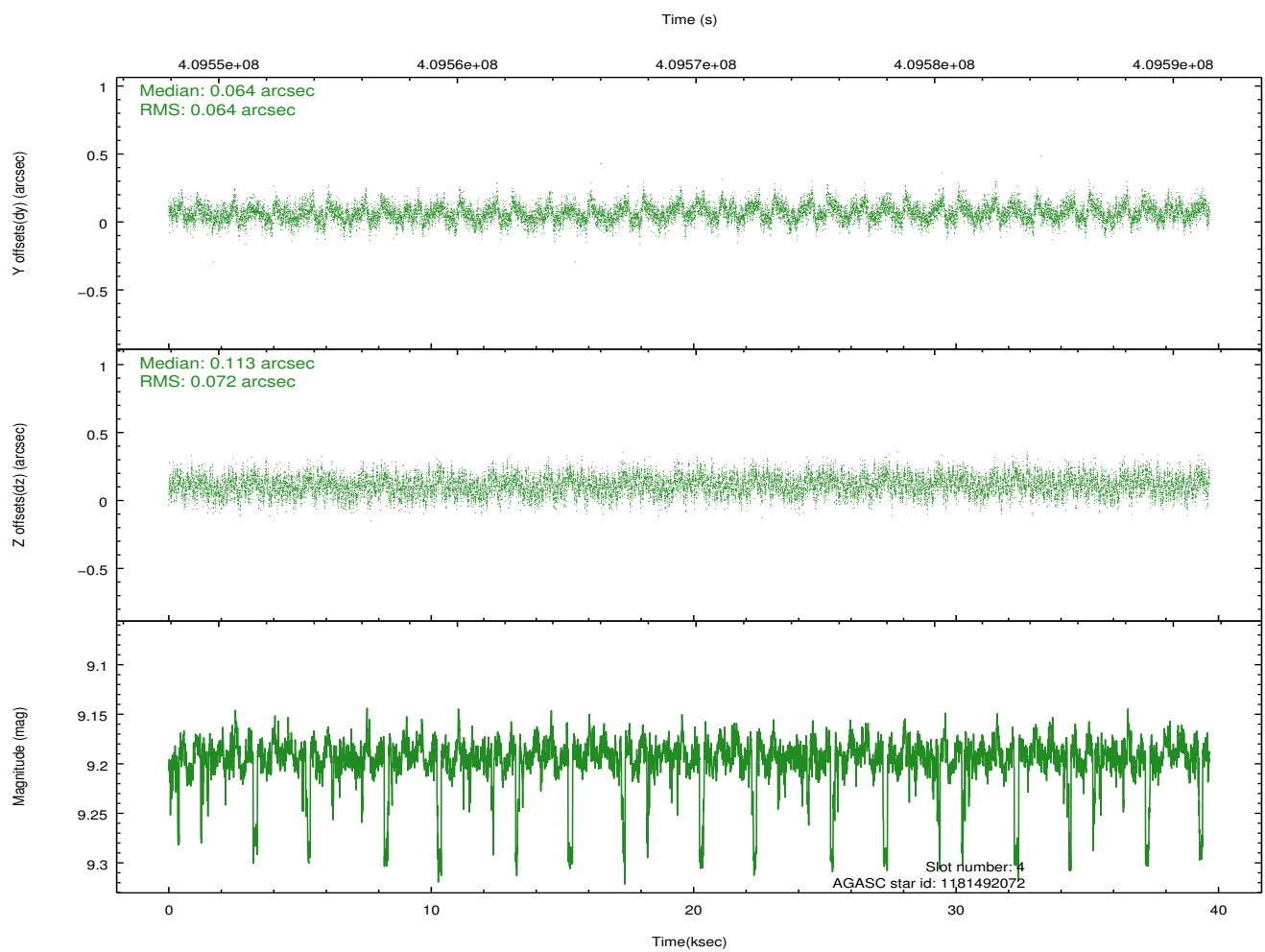
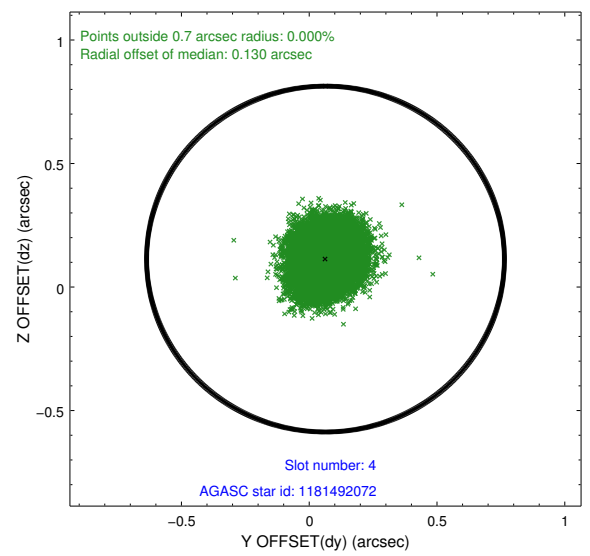
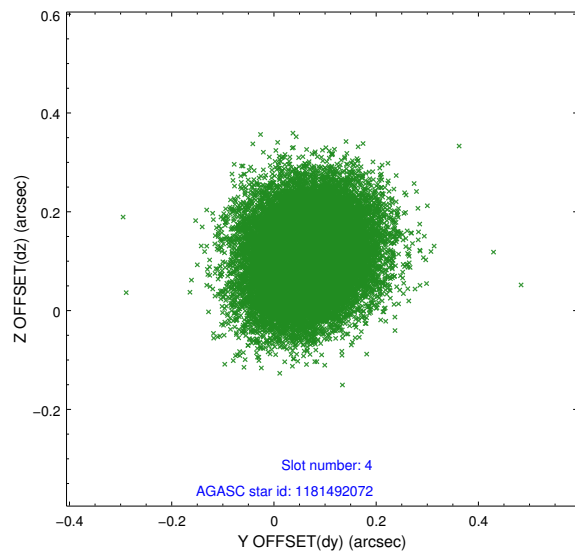
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2.4 Star Slots

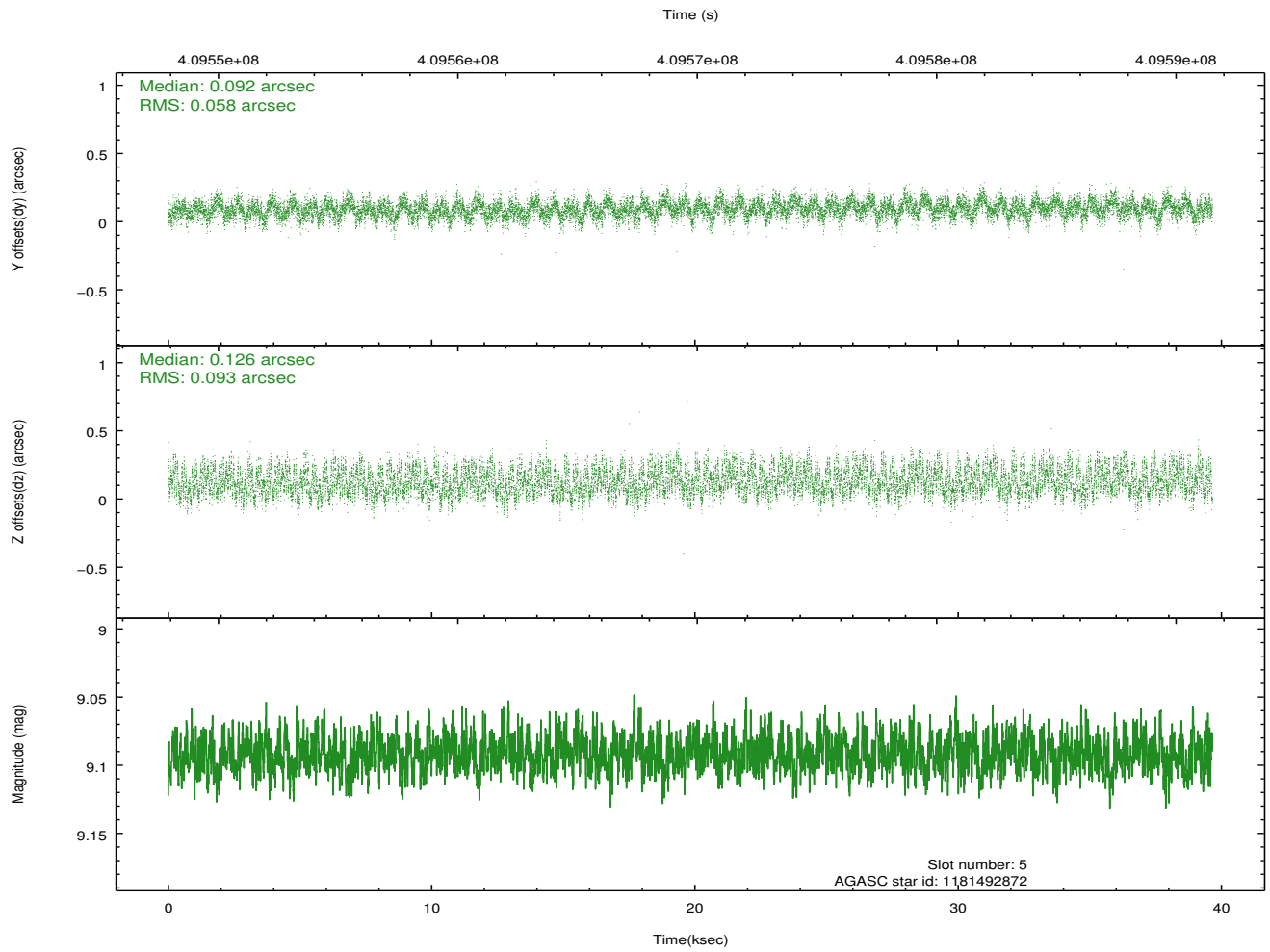
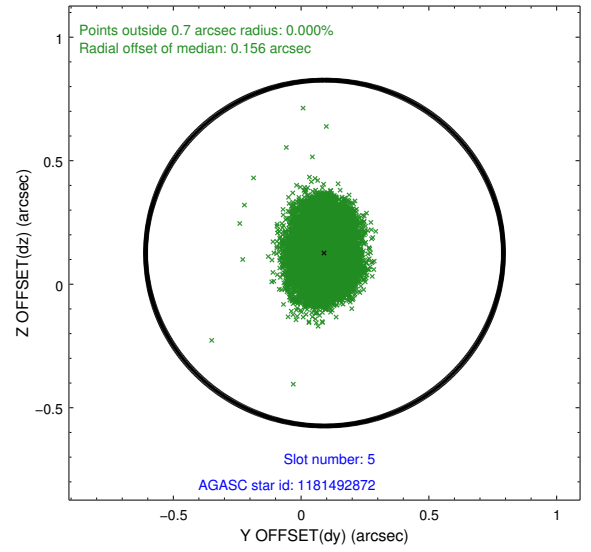
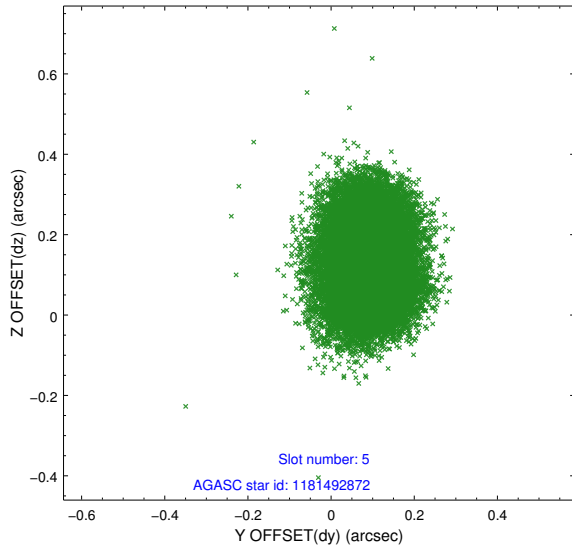
2.4.1 Slot 3



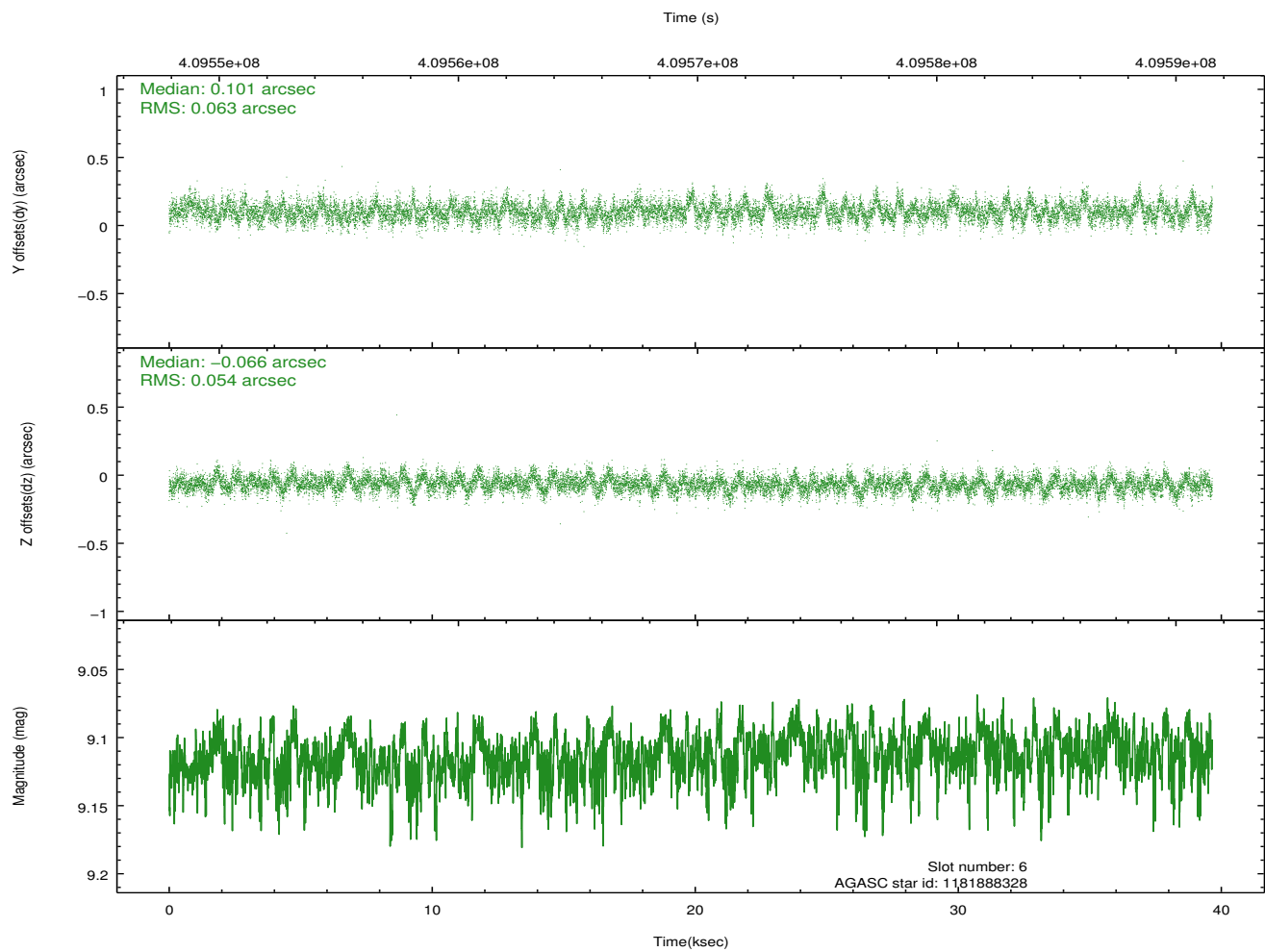
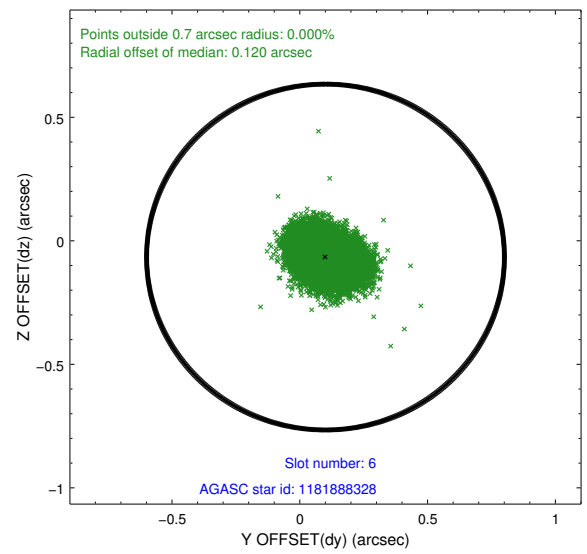
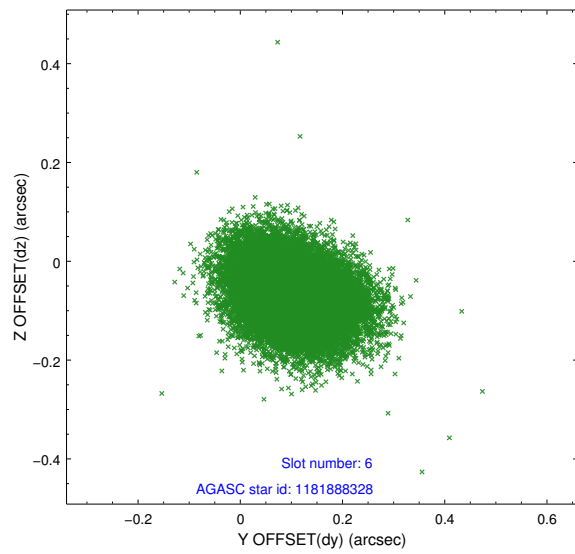
2.4.2 Slot 4



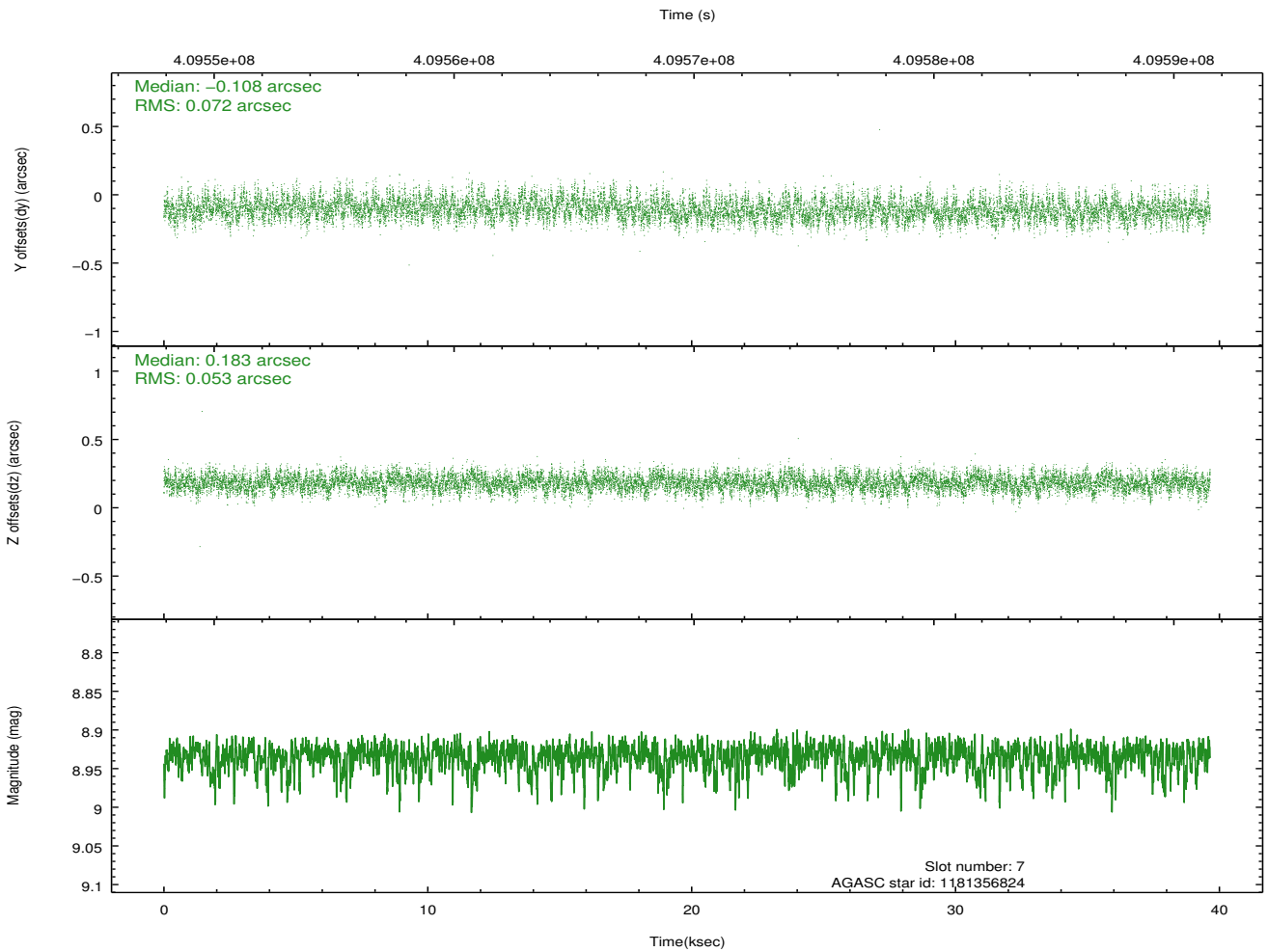
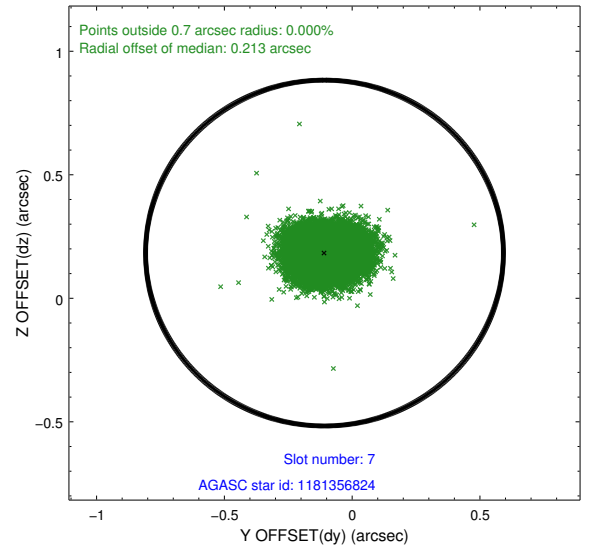
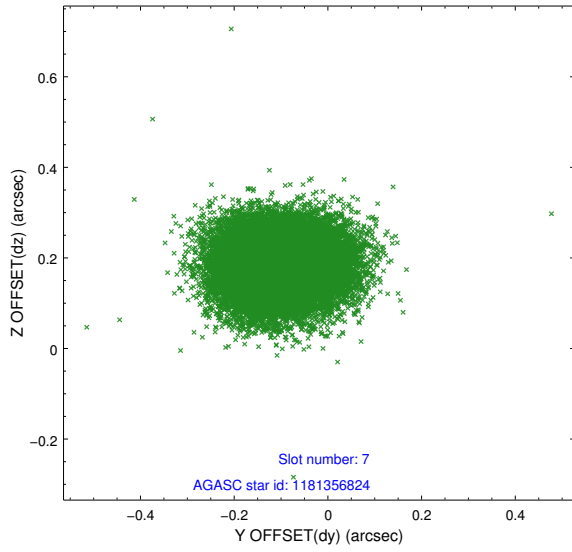
2.4.3 Slot 5



2.4.4 Slot 6

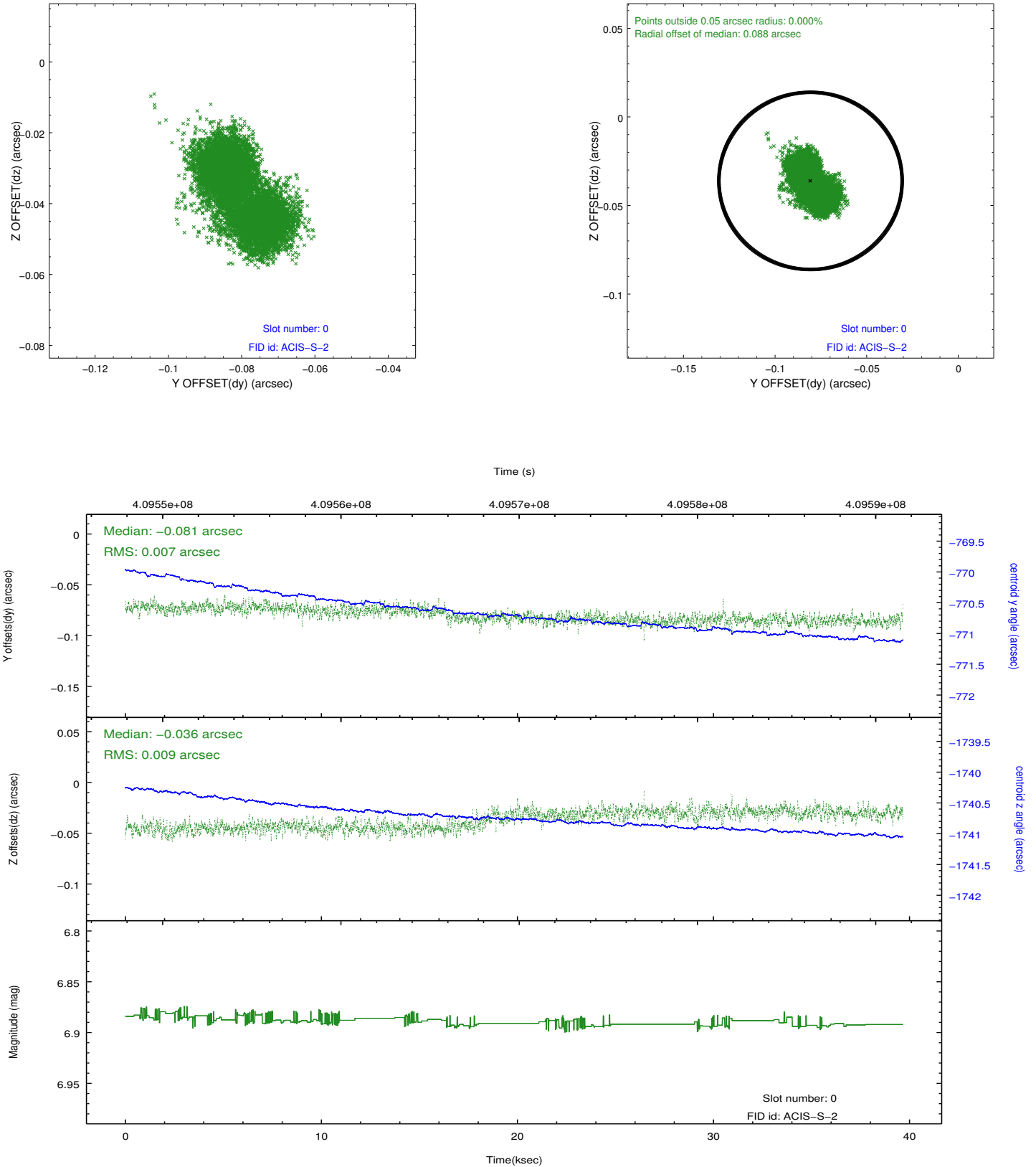


2.4.5 Slot 7

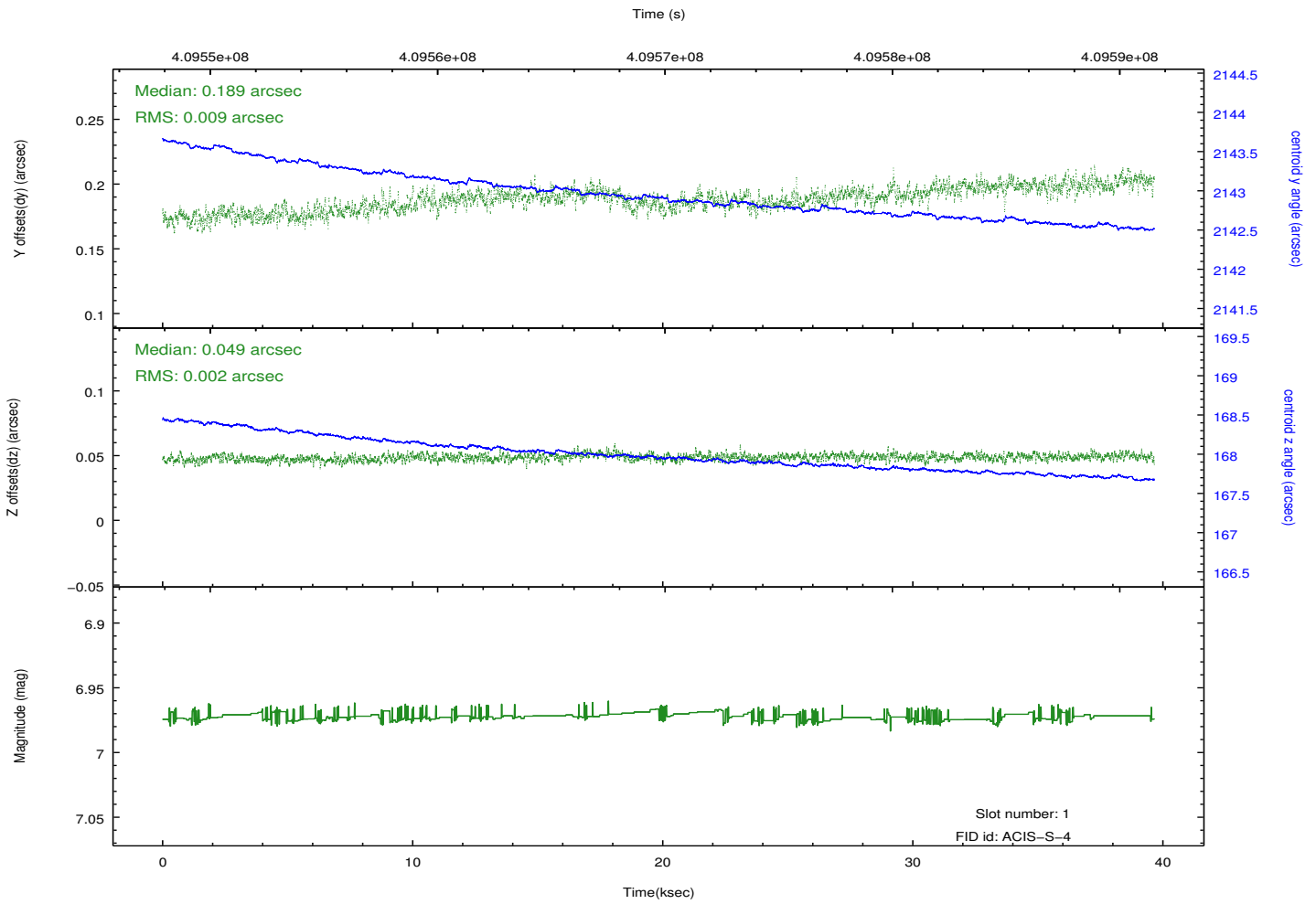
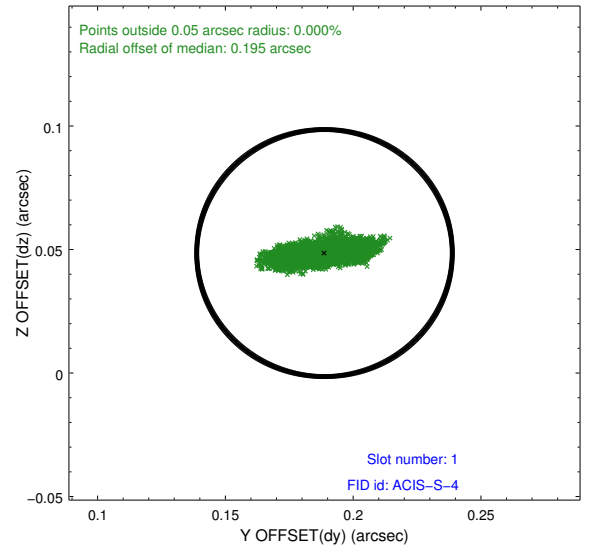
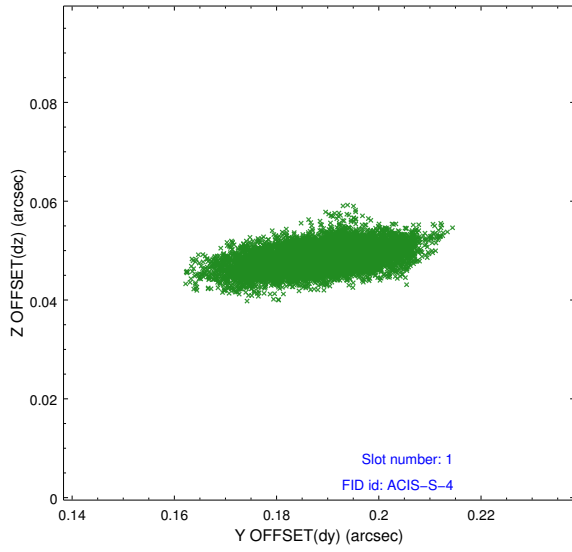


2.5 FID Slots

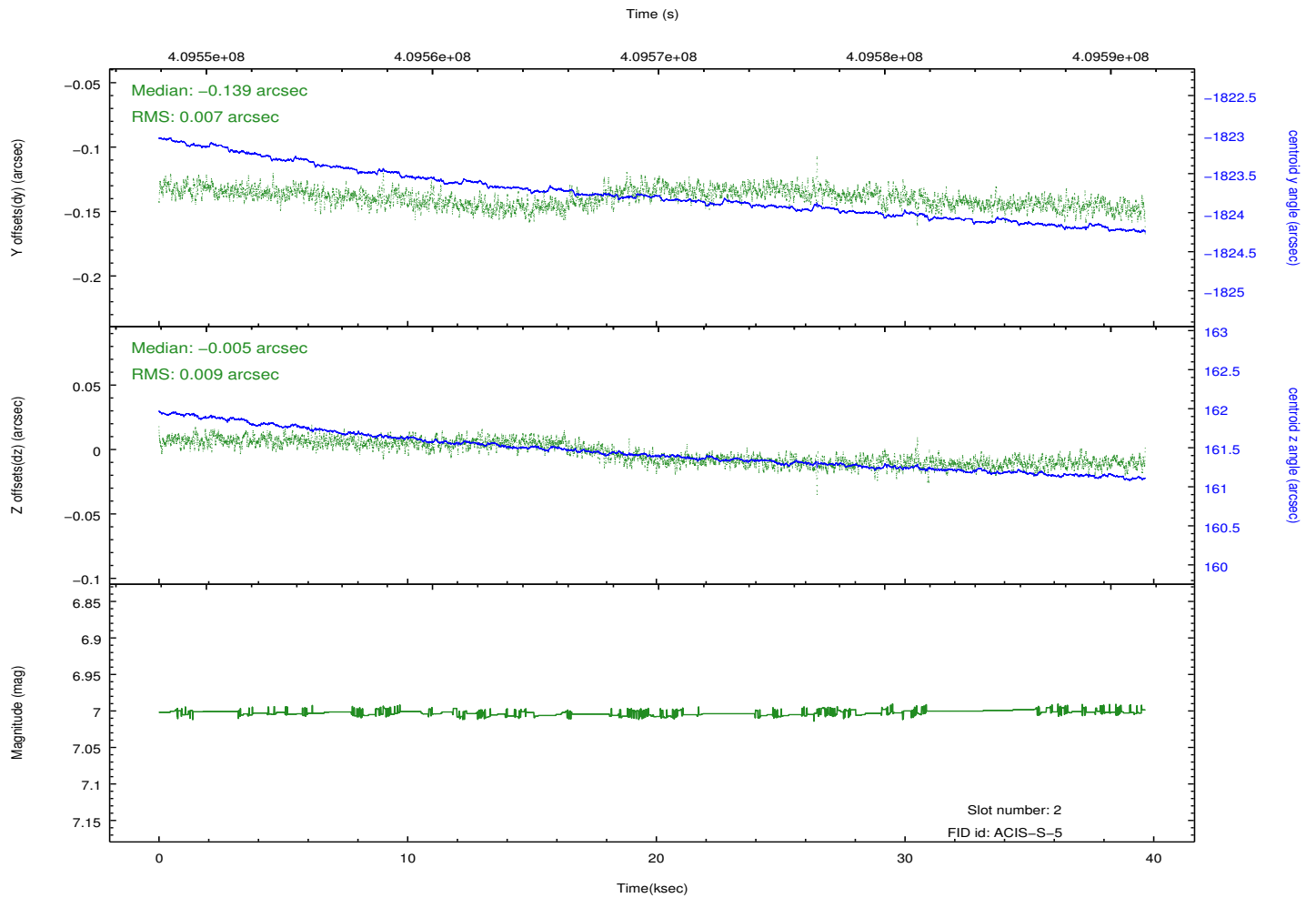
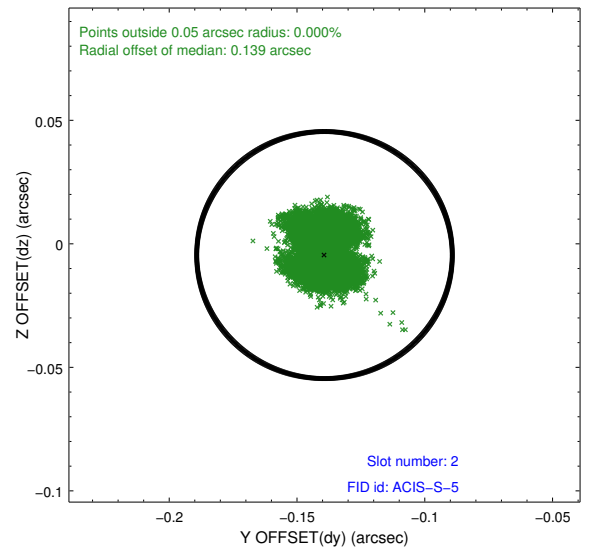
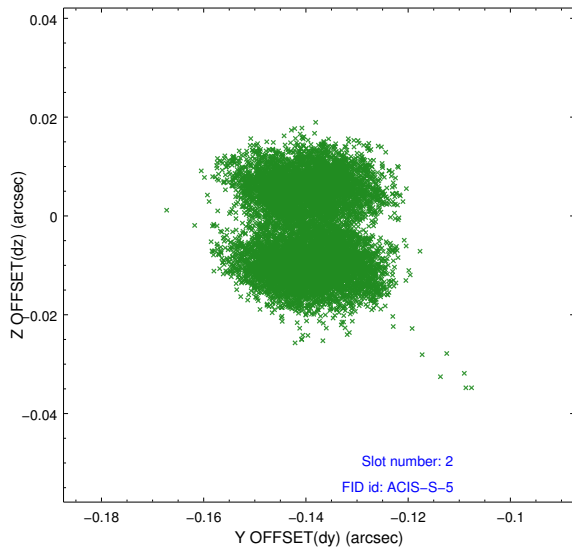
2.5.1 Slot 0



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)	2012.07.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.402752997994

A.2 Comments

Roll preference met.