

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11733 - L2 Version 2
Chandra X-Ray Center

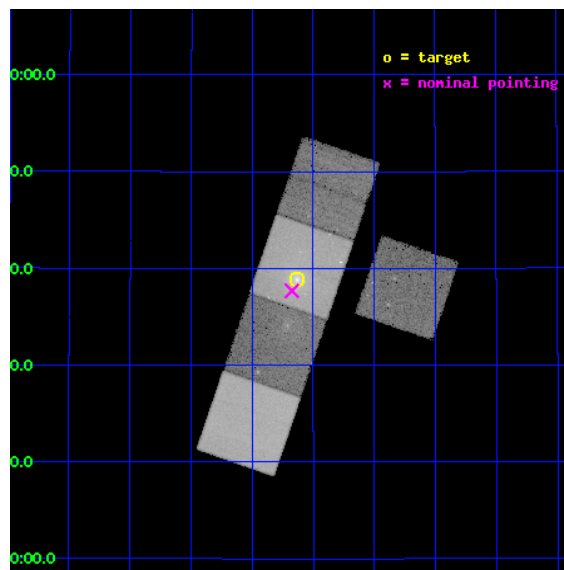
L2 Processing Date : Jul 2 2012

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1 Front

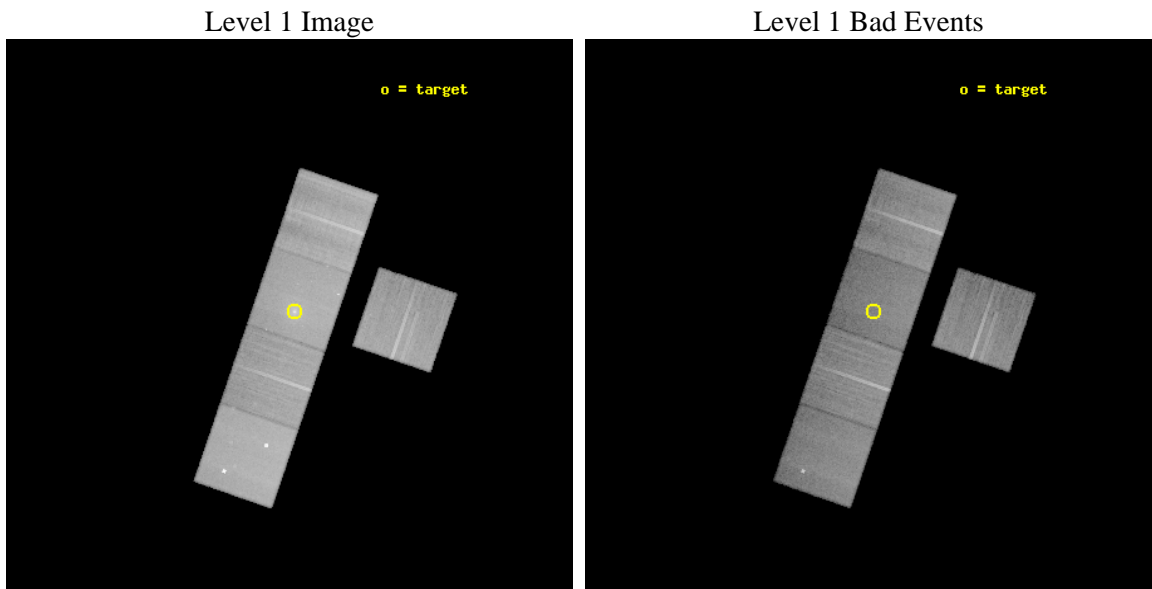
seq_num	800873	Sequence number
obs_id	11733	Observation id
title	Completing the cycle of cooling, star formation and AGN heating in Brightest Cluster Galaxies	Proposal title
observer	Dr Helen Russell	Principal investigator
object	Abell 1930	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	218.157917	Observer's specified target RA [deg]
dec_targ	31.646944	Observer's specified target Dec [deg]
ra_nom	218.1686195811	Nominal RA [deg]
dec_nom	31.628097242014	Nominal Dec [deg]
roll_nom	288.9327563807	Nominal Roll [deg]
revision	2	Processing version of data
ontime	34966.729458809	Sum of GTIs [s]
livetime	34509.863396298	Livetime [s]
ontime3	34966.606338799	Sum of GTIs [s]
ontime5	34966.688418806	Sum of GTIs [s]
ontime6	34960.365398228	Sum of GTIs [s]
ontime7	34966.729458809	Sum of GTIs [s]
ontime8	34966.565298796	Sum of GTIs [s]
l2events	429241	Number of level 2 events



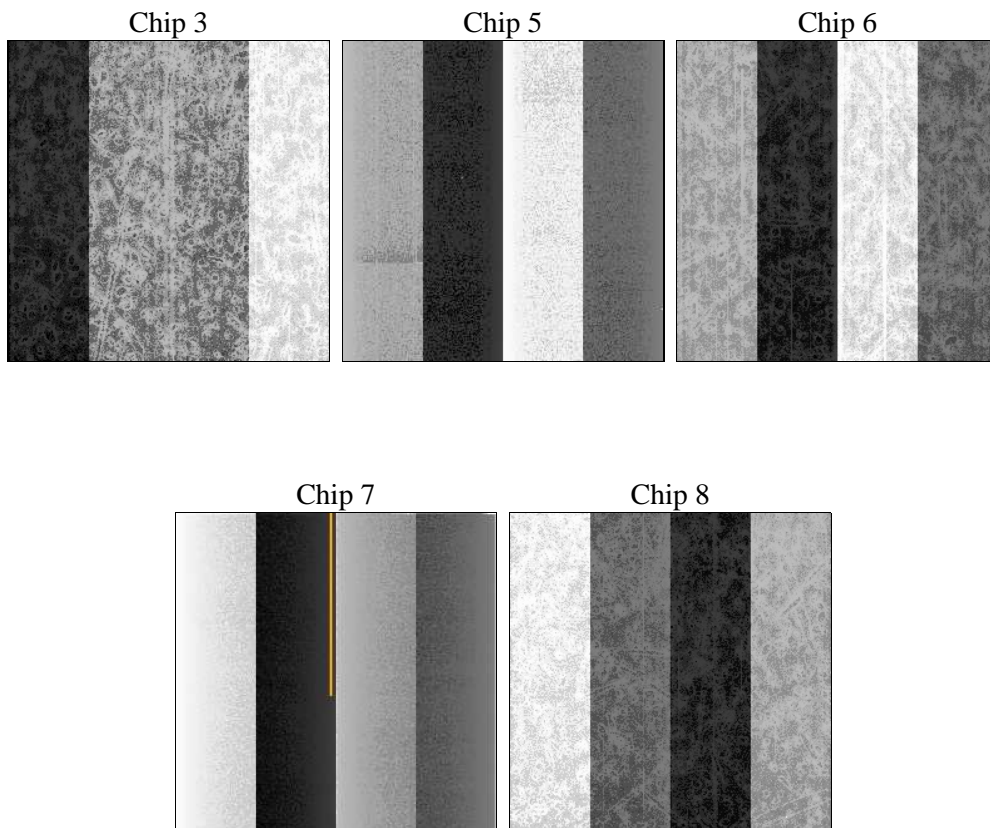
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	34928.160000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	34966.729458809	Sum of GTIs [s]
caldbver	4.5.0	 	ontime3	34966.606338799	Sum of GTIs [s]
date	2012-07-02T21:14:14	Date and time of file creation	ontime5	34966.688418806	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	34960.365398228	Sum of GTIs [s]
			ontime7	34966.729458809	Sum of GTIs [s]
			ontime8	34966.565298796	Sum of GTIs [s]
			l1events	1600078	Number of level 1 events

2.1.4 Events

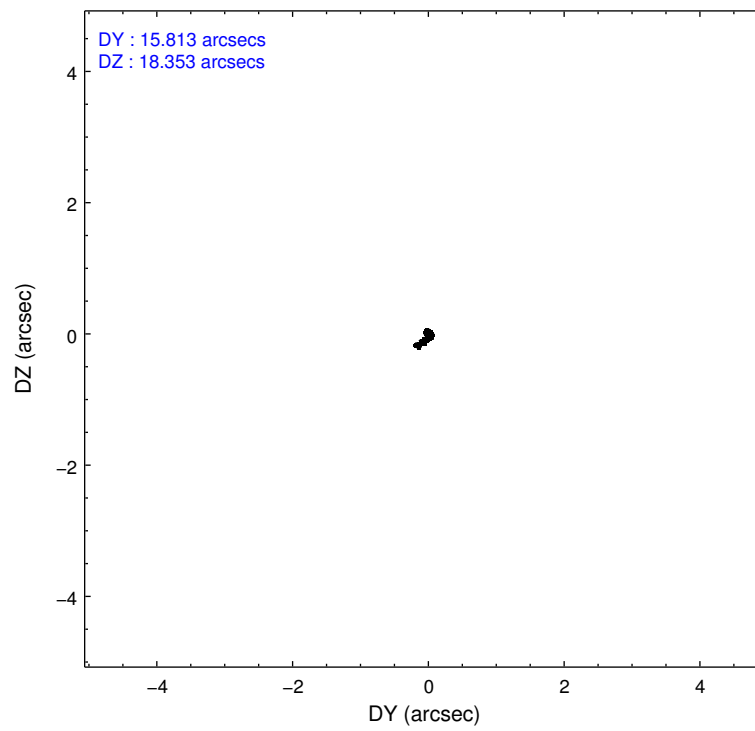
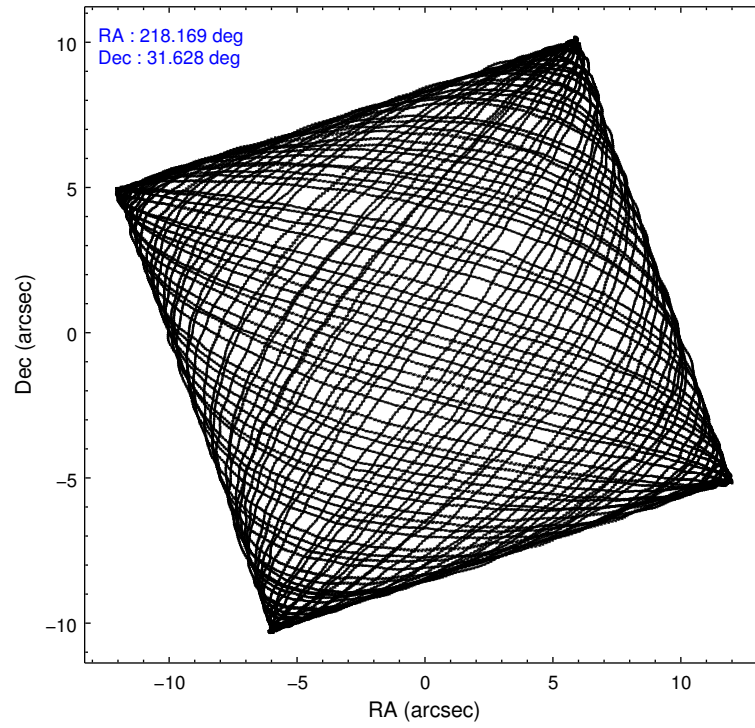
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	248350	399984	265891	343547	342306
rejected events	222036	198719	233890	174636	251558
rejected %	89%	49%	87%	50%	73%

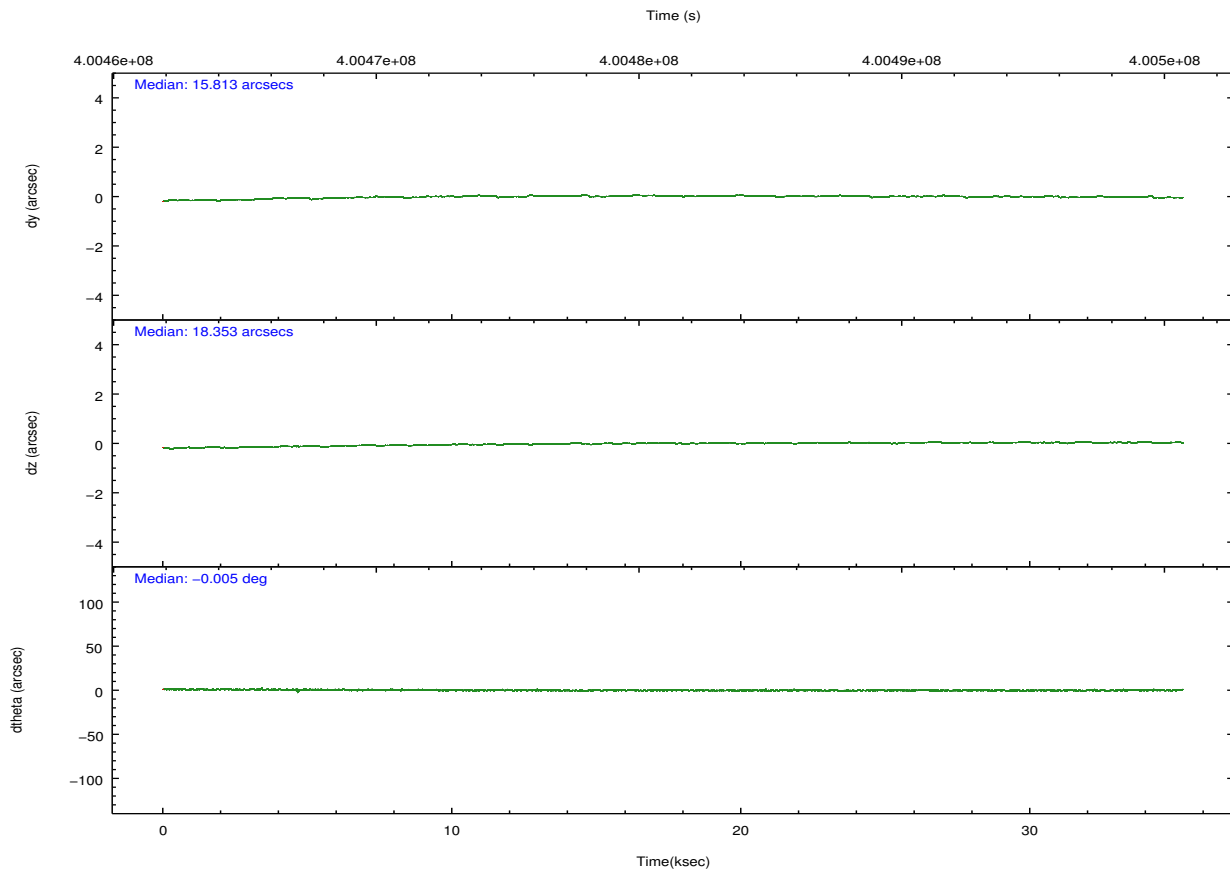
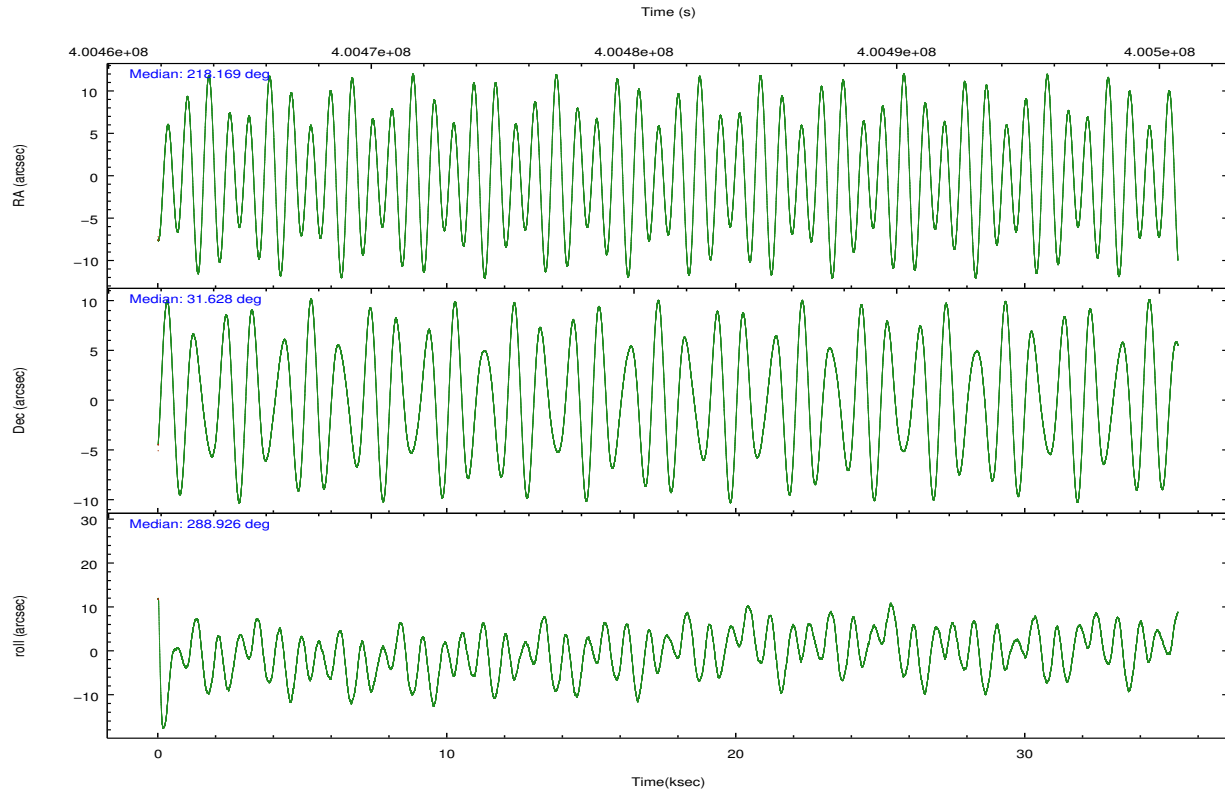
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	9401	24733	12360	21466	27430
	3%	6%	4%	6%	8%
grade 1 events	164	2580	161	409	313
	0%	0%	0%	0%	0%
grade 2 events	5820	59916	6790	36035	21317
	2%	14%	2%	10%	6%
grade 3 events	2979	7842	3258	15664	9527
	1%	1%	1%	4%	2%
grade 4 events	2832	7761	3082	15620	8619
	1%	1%	1%	4%	2%
grade 5 events	11601	30906	11806	33183	17238
	4%	7%	4%	9%	5%
grade 6 events	5288	101044	6519	80158	23872
	2%	25%	2%	23%	6%
grade 7 events	210265	165202	221915	141012	233990
	84%	41%	83%	41%	68%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	218.144122	218.1686195810994	Subarray requested	NONE	NONE
[deg] Pointing Dec	31.645767	31.62809724201394	Alternating exposures requested	N	N
[deg] Pointing Roll	288.788968	288.932756380695	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	400464021.184000	400463003.39495			
Observation start date	2010-09-09T23:59:15	2010-09-09T23:43:23			
[s] Observation end time (MET)	400498949.184000	400499177.1843			
Observation end date	2010-09-10T09:41:23	2010-09-10T09:46:17			
Read mode	TIMED	TIMED			

2.3 Aspect





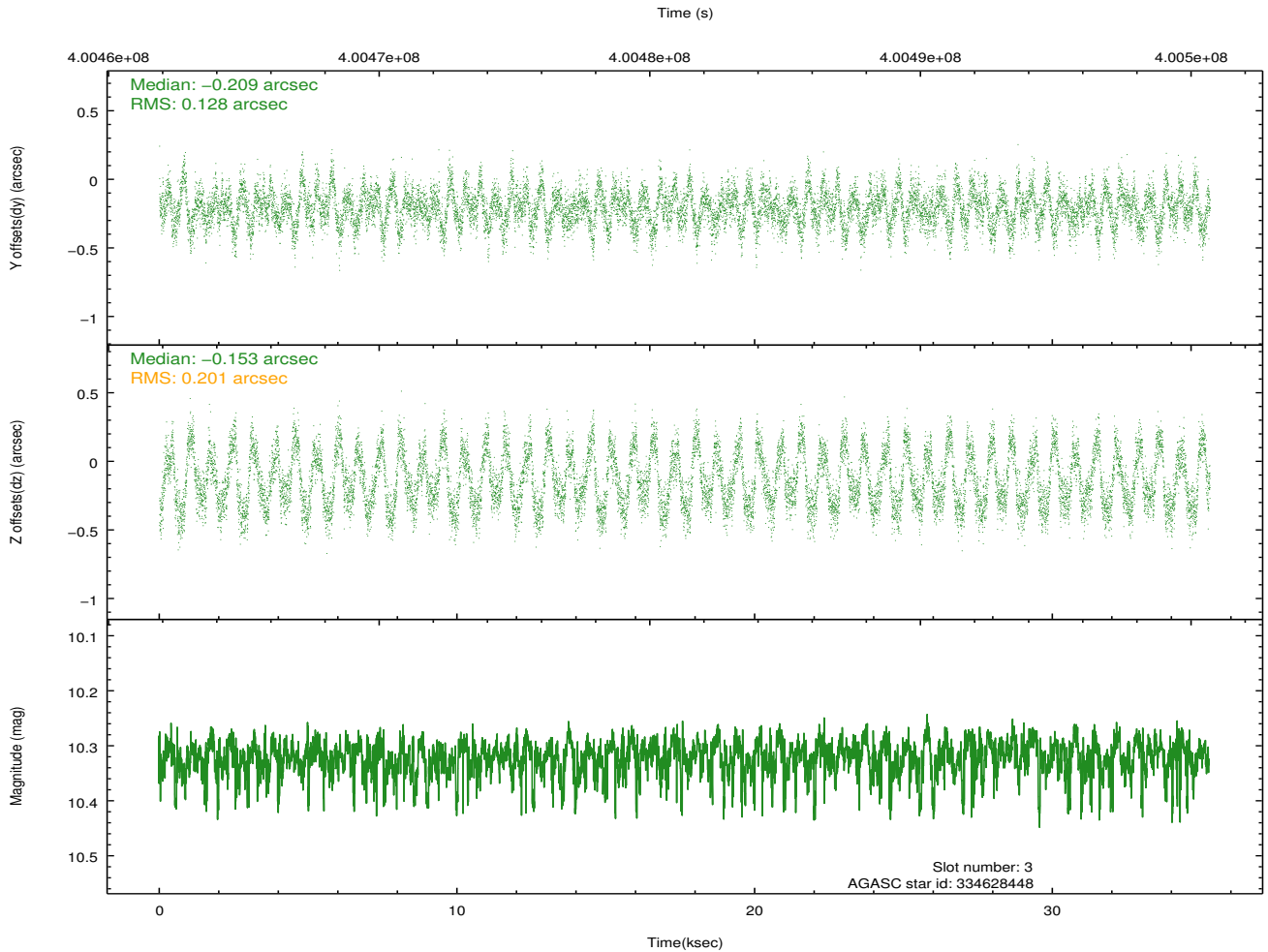
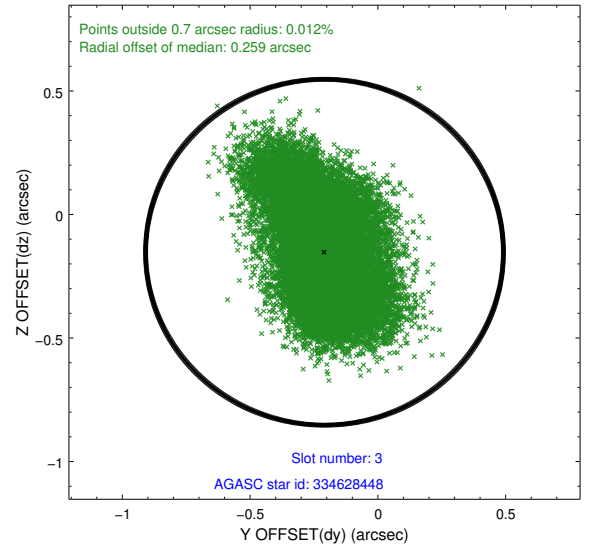
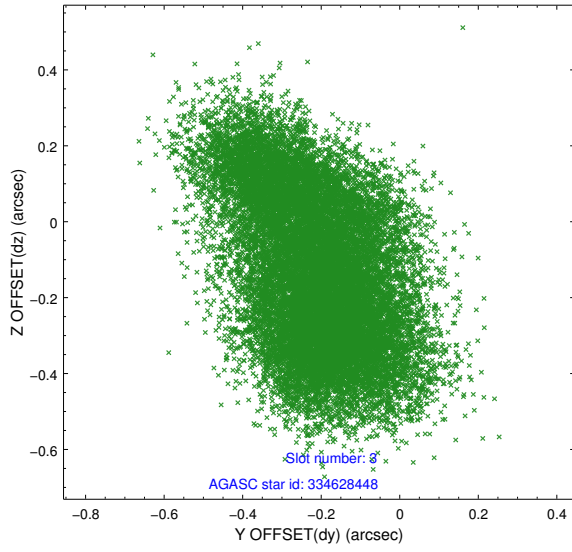
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.95	8605	0.088	-0.025	0.007	0.012	0.000000	0.000000	927.32	-1735.41
1	FID	ACIS-S-5	6.99	8607	-0.124	0.072	0.006	0.010	0.000000	0.000000	-1821.85	162.23
2	FID	ACIS-S-6	7.11	8607	0.015	-0.035	0.007	0.011	0.000000	0.000000	392.79	806.11
3	GUIDE	334628448	10.32	17157	-0.209	-0.153	0.257	0.407	218.514038	32.100683	-1188.91	1596.08
4	GUIDE	334629976	9.95	17180	0.037	0.176	0.139	0.225	217.912342	31.982896	-1377.07	-278.74
5	GUIDE	334631496	8.35	17202	0.040	0.009	0.077	0.121	217.952830	31.321076	917.01	-933.03
6	GUIDE	334632896	9.64	17164	0.064	0.087	0.151	0.247	217.366197	31.879526	-1569.35	-1977.28
7	GUIDE	334633984	9.27	17198	0.075	-0.150	0.121	0.186	218.362497	31.122969	1997.94	31.10

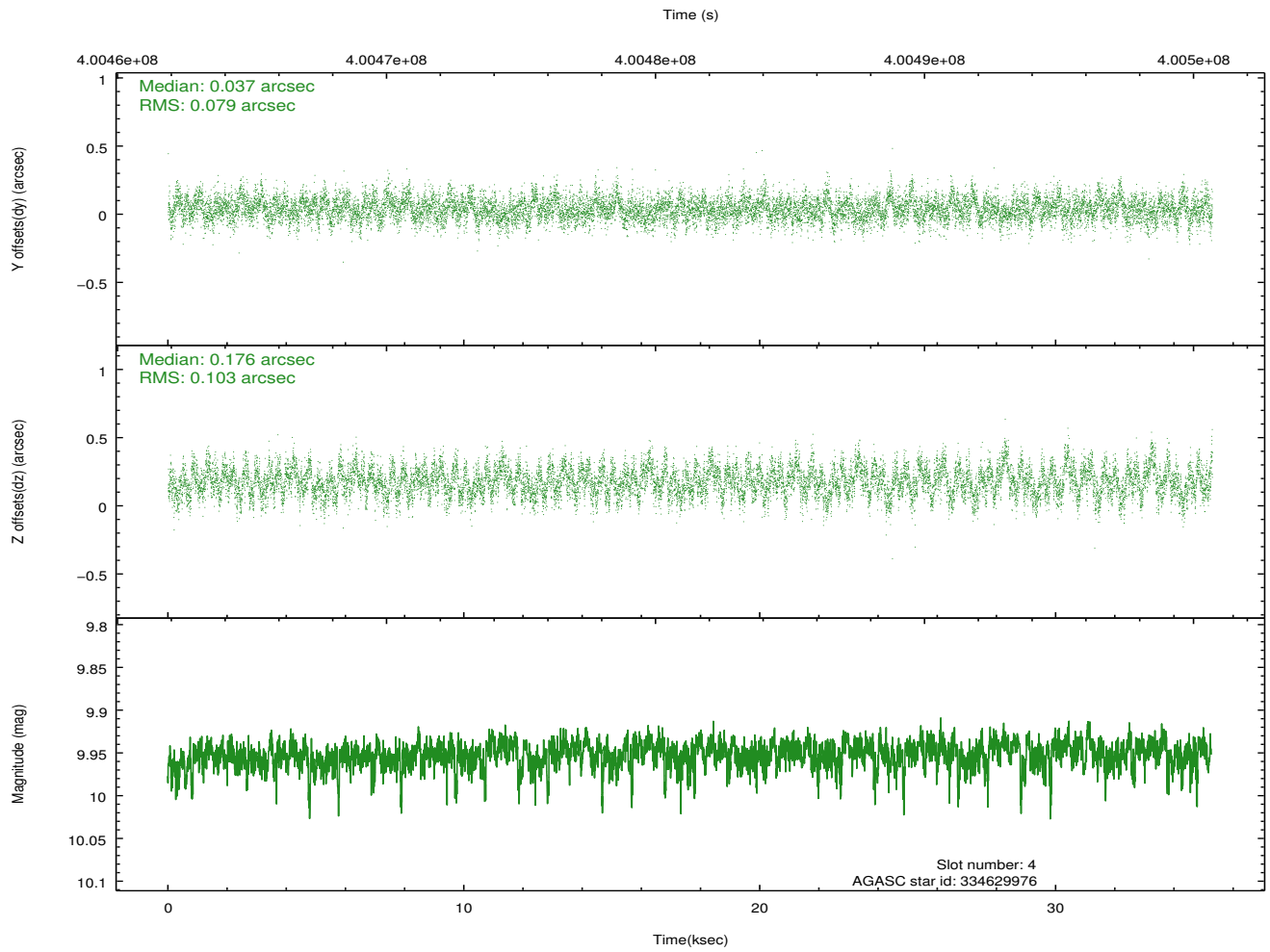
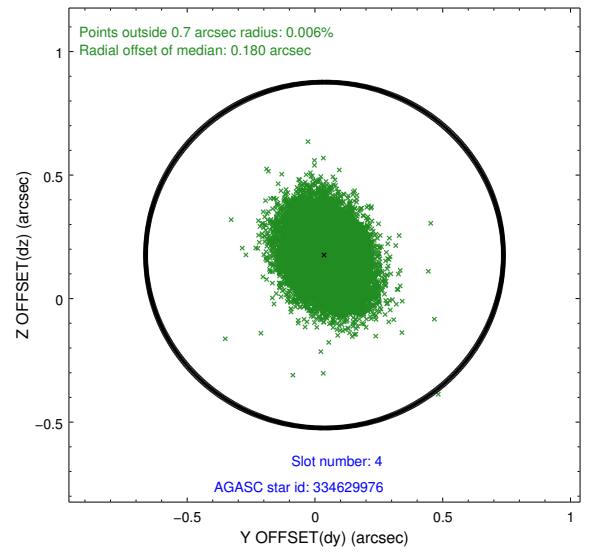
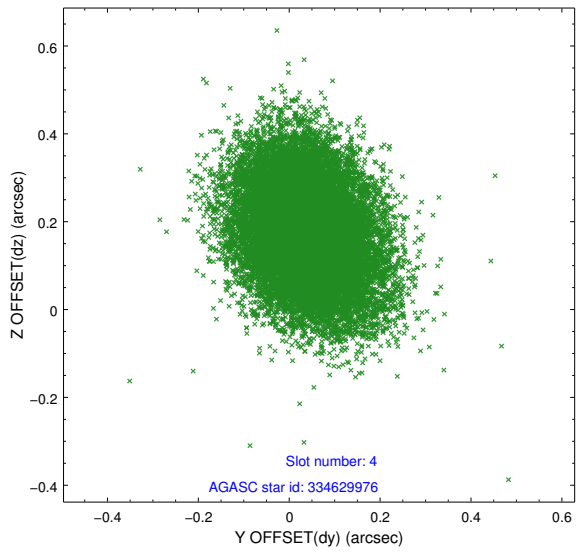
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2.4 Star Slots

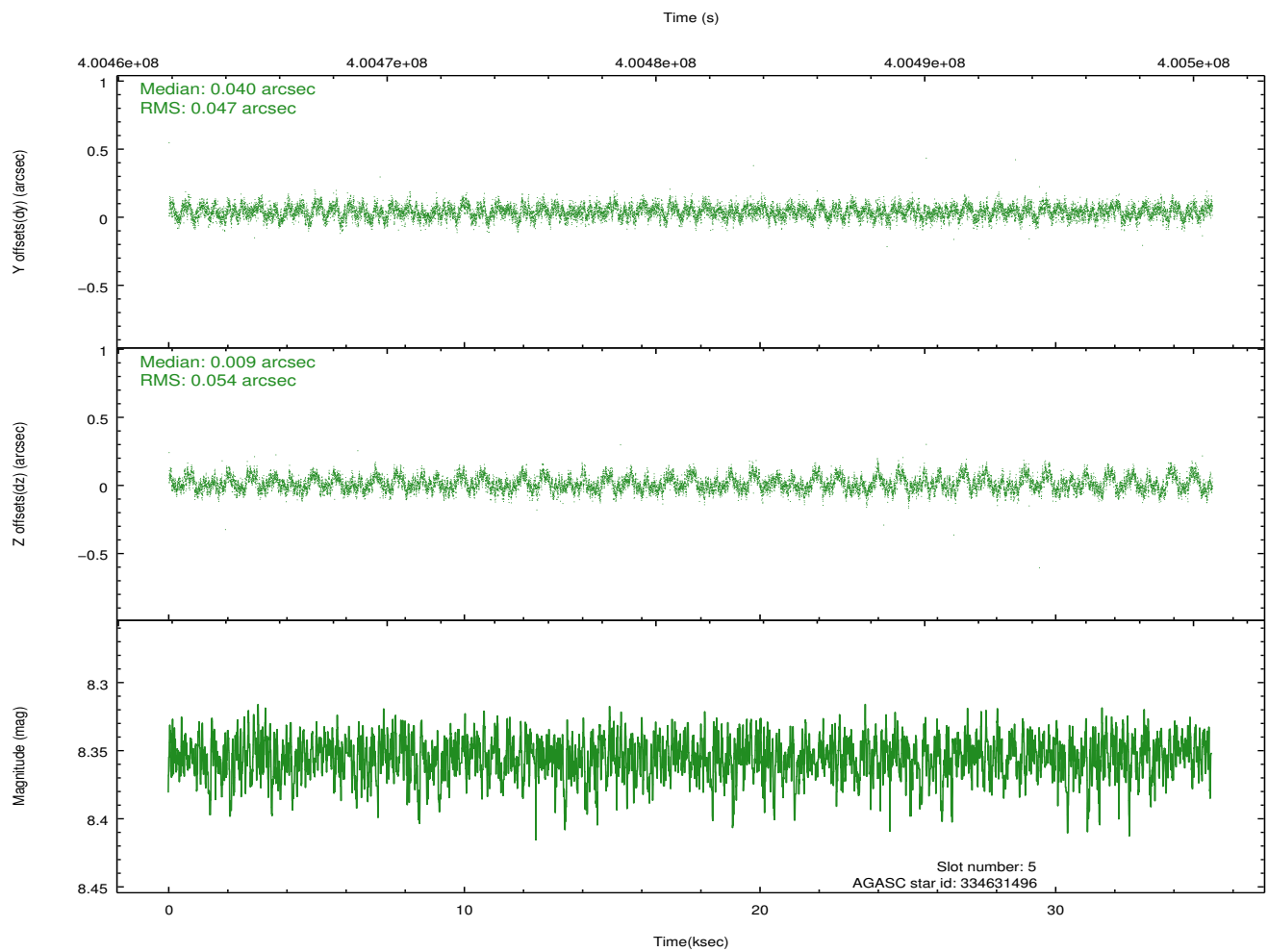
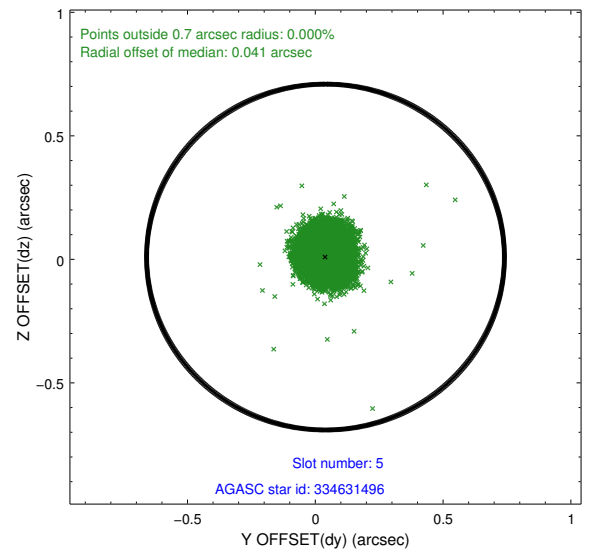
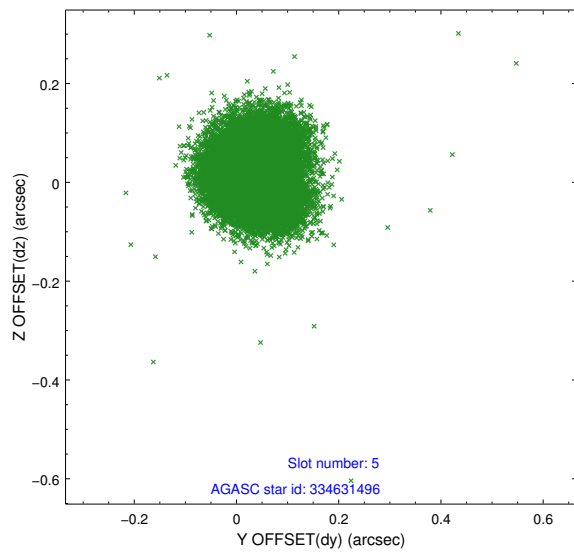
2.4.1 Slot 3



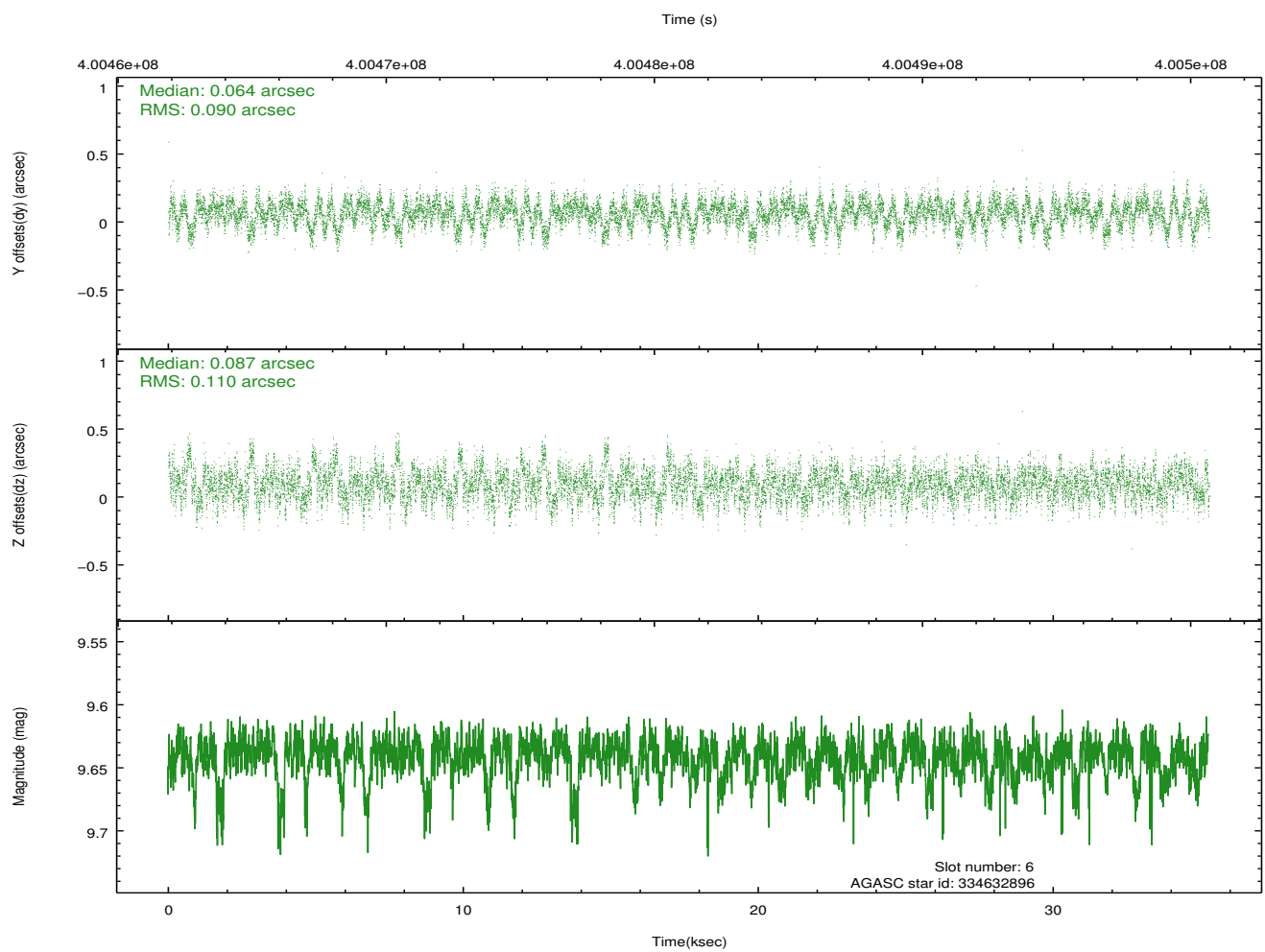
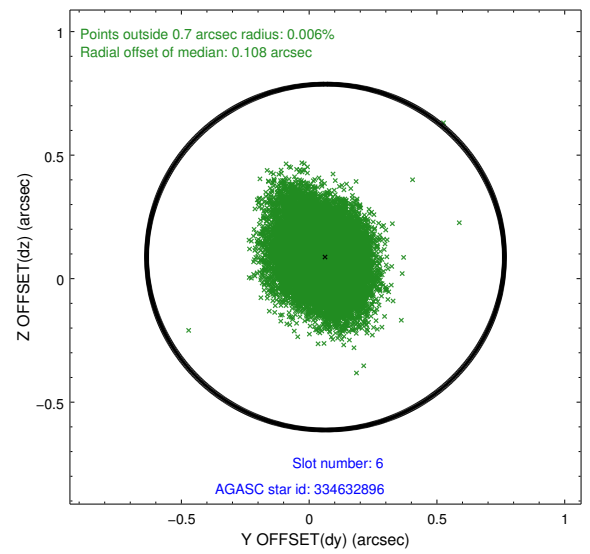
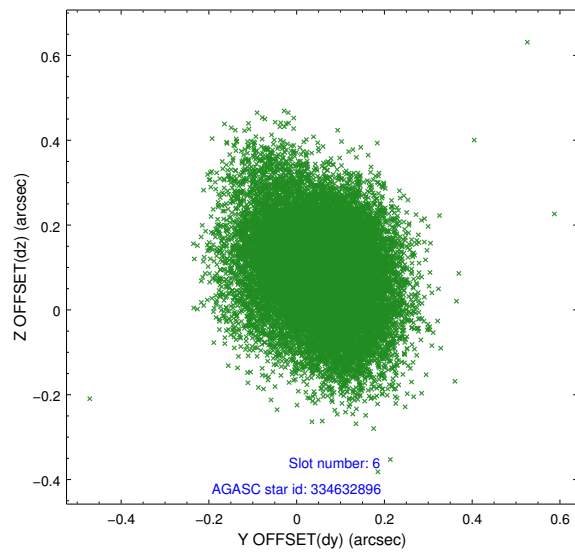
2.4.2 Slot 4



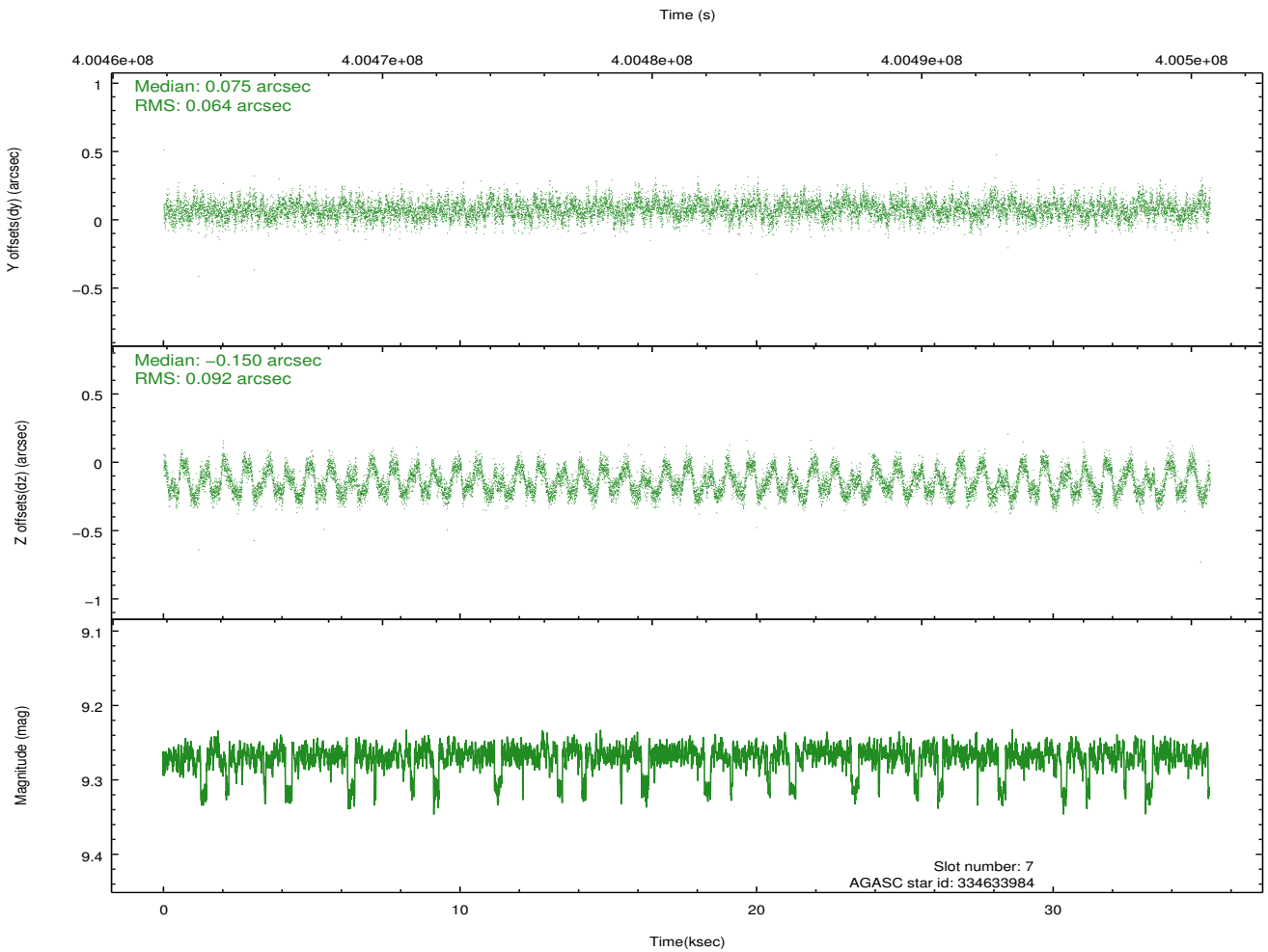
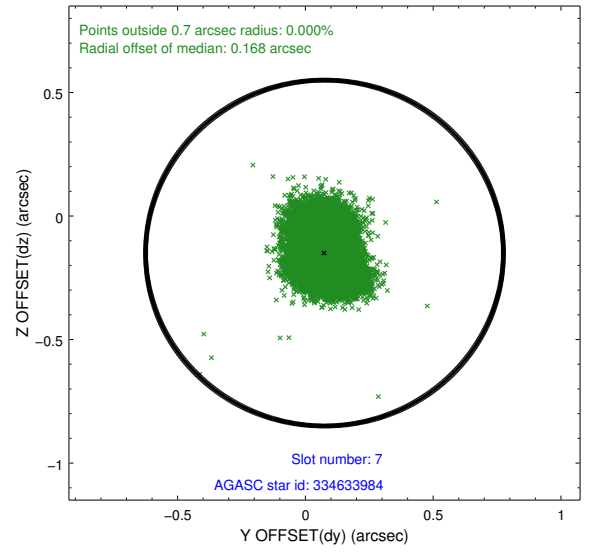
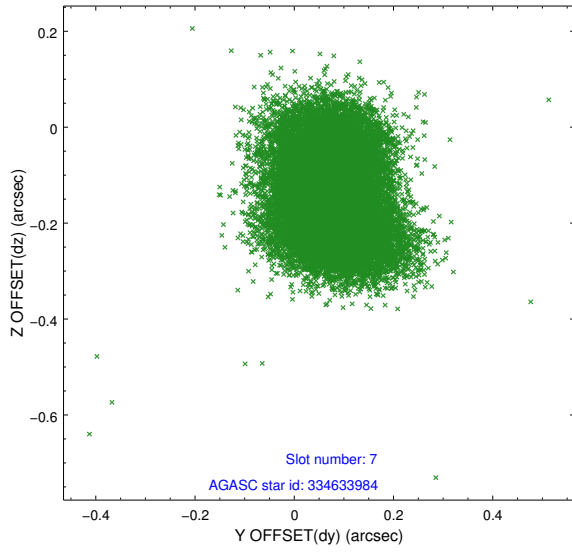
2.4.3 Slot 5



2.4.4 Slot 6

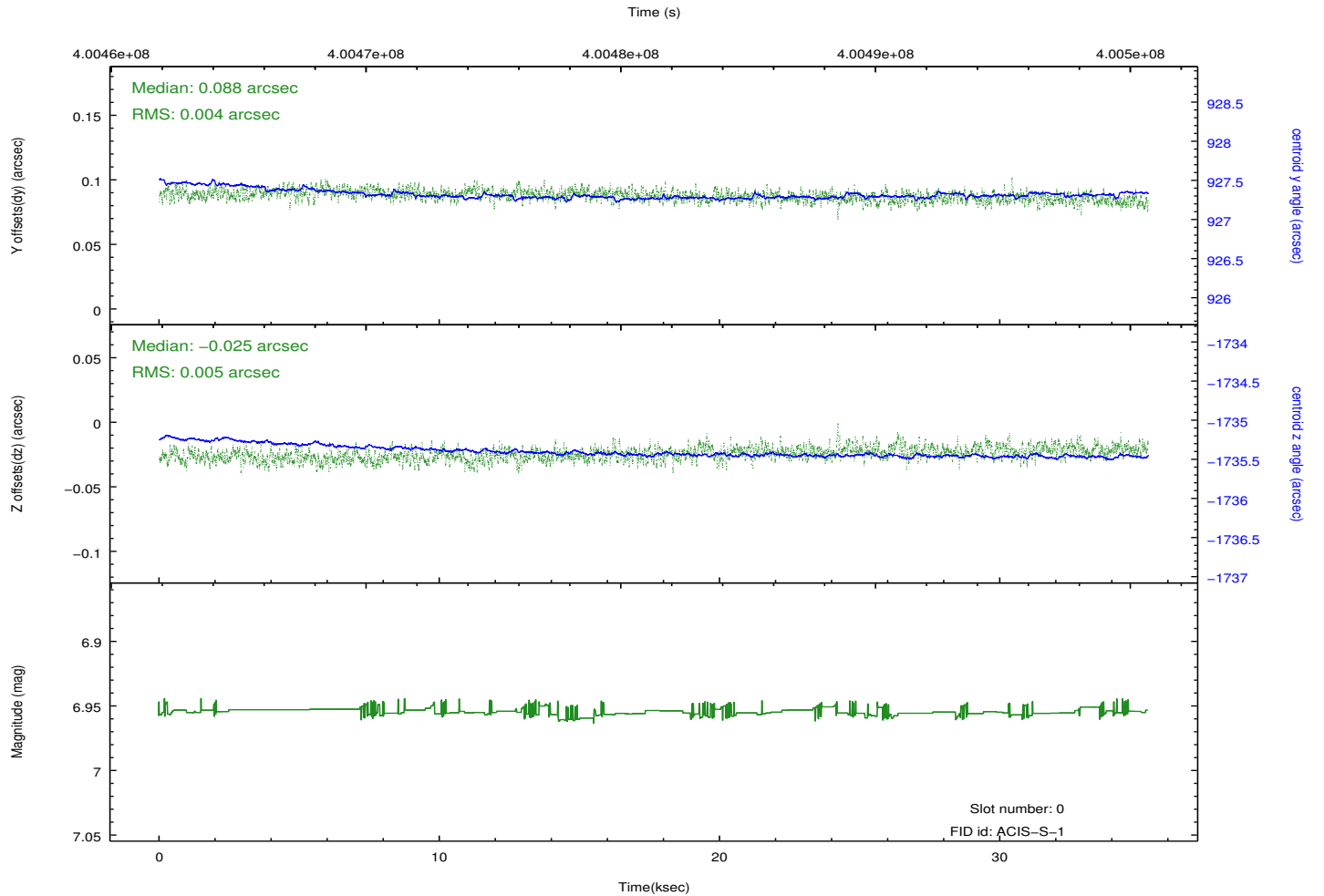
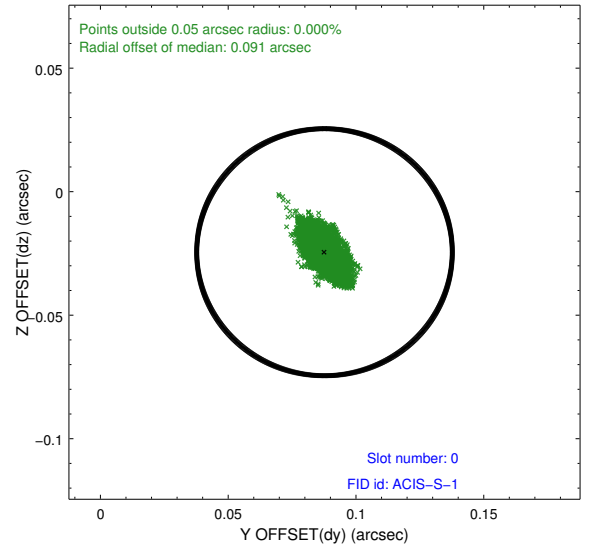
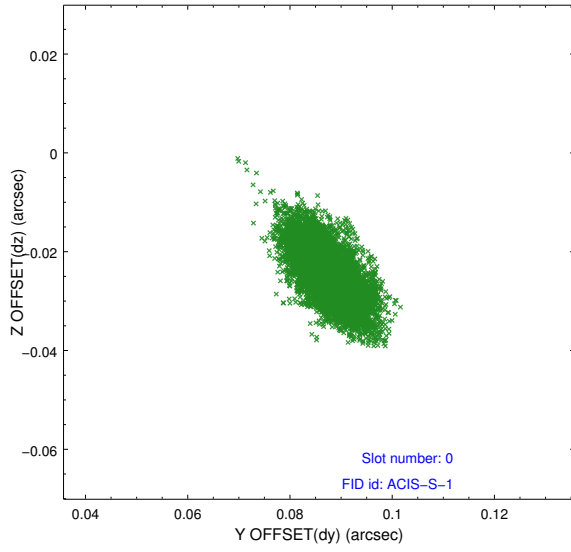


2.4.5 Slot 7

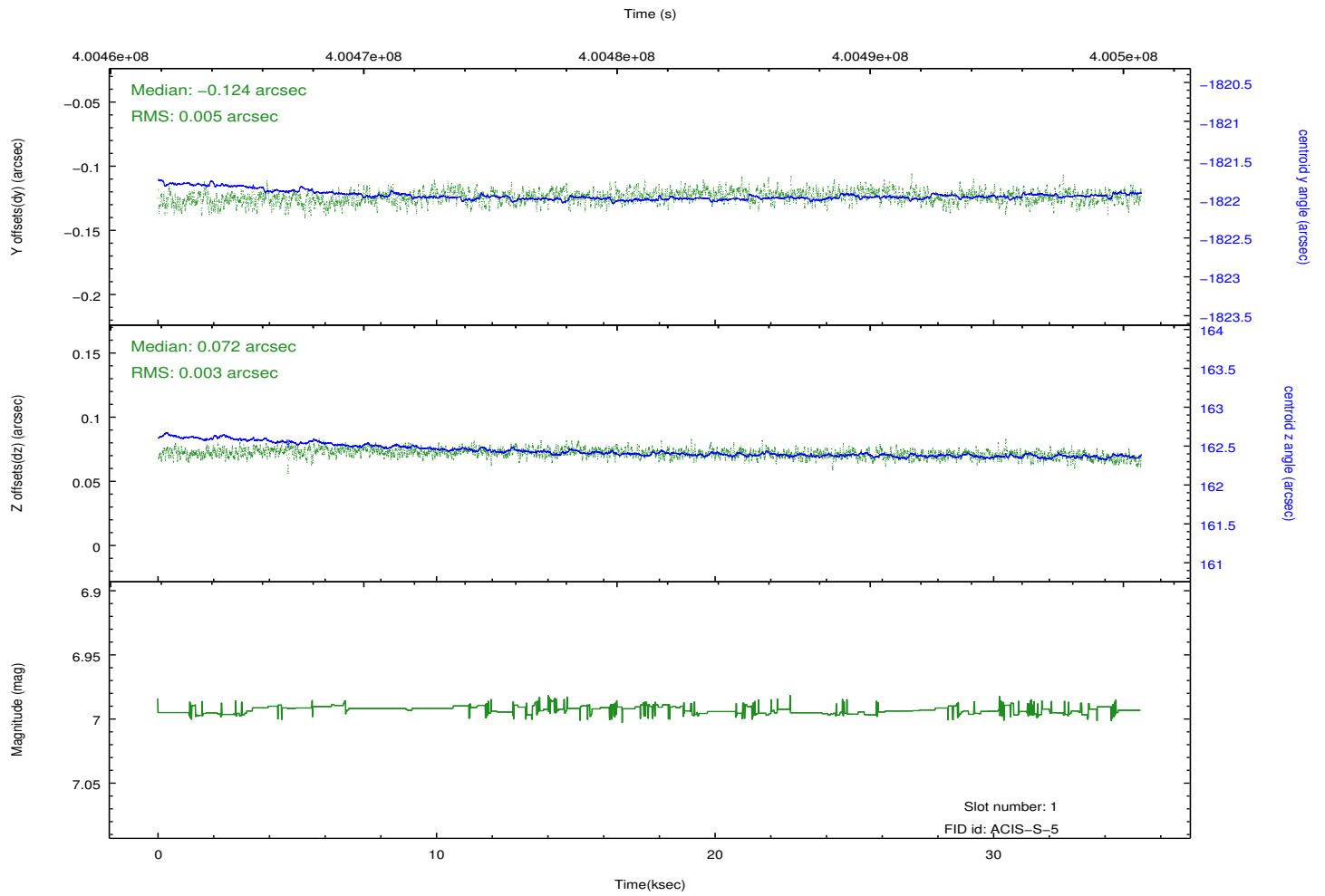
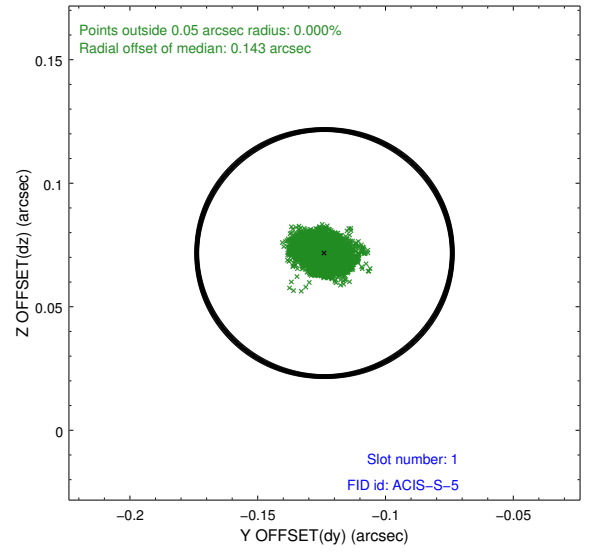
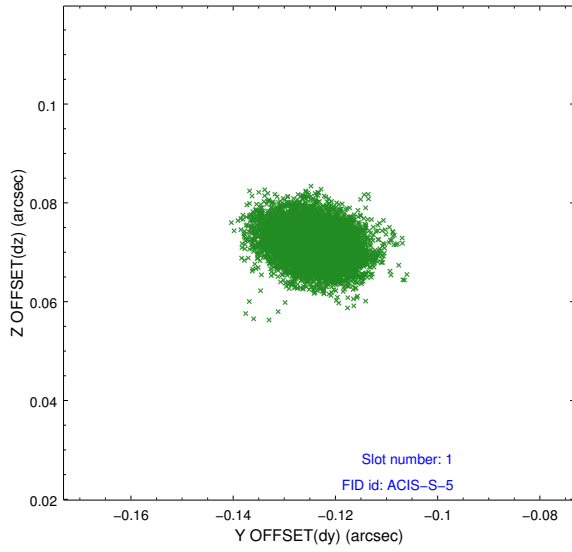


2.5 FID Slots

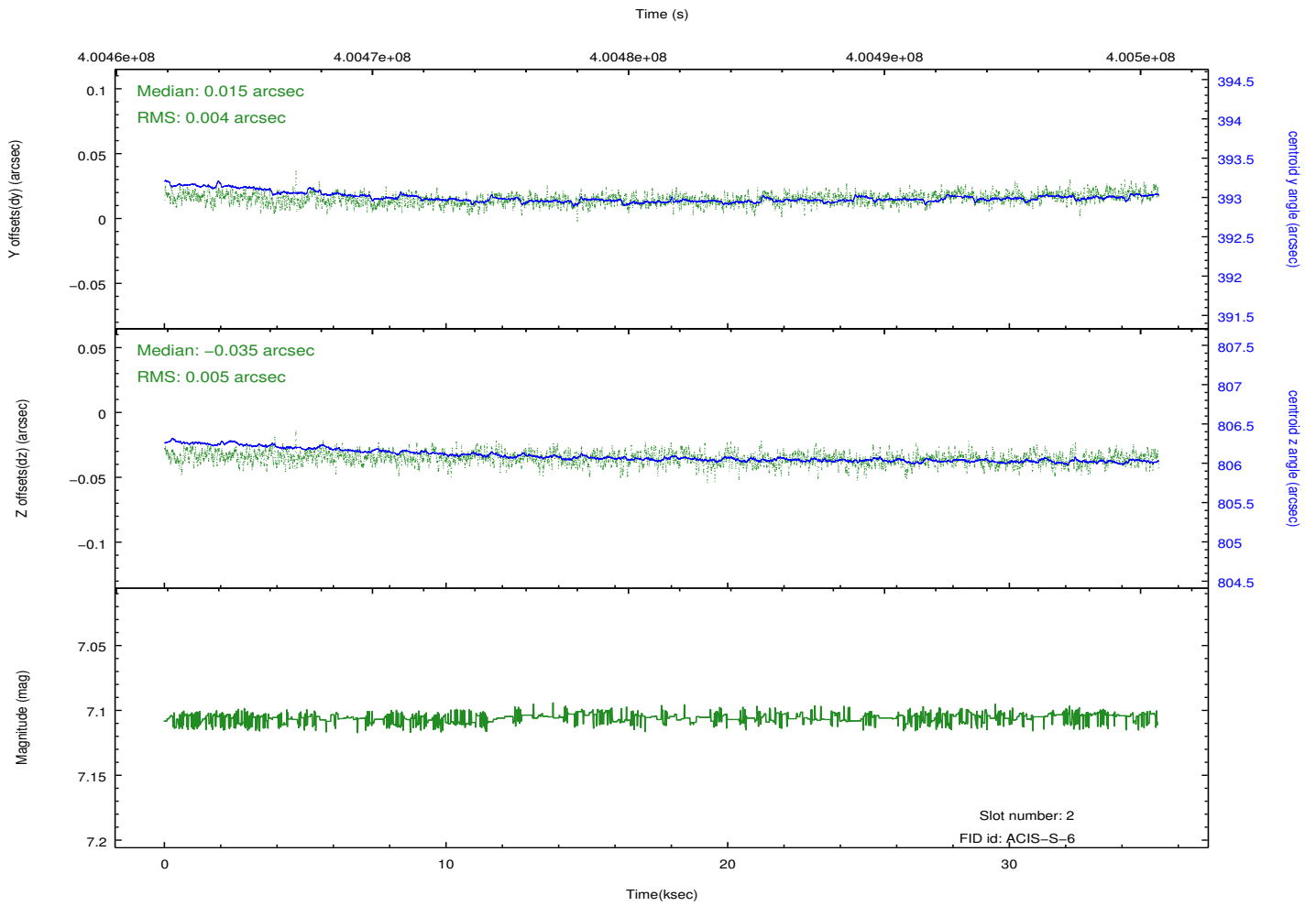
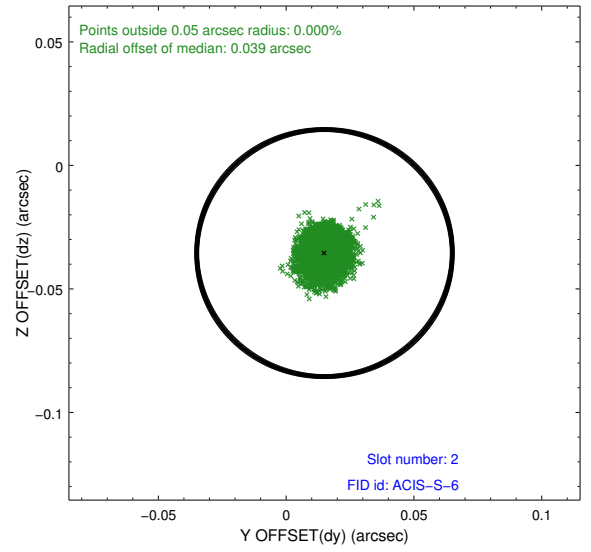
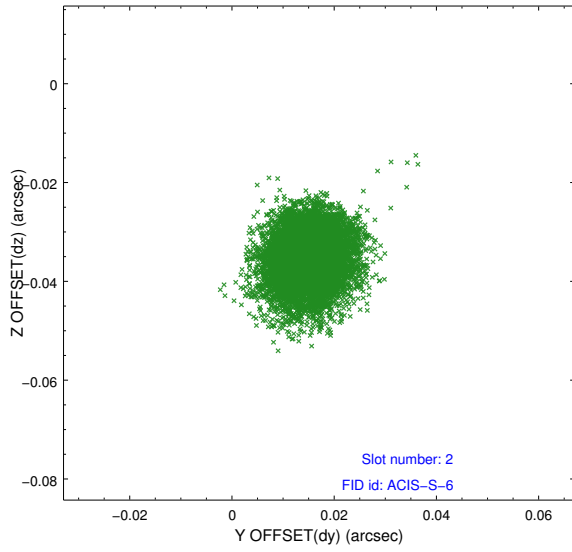
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.07.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.966729456067

A.2 Comments