

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 20004 - L2 Version 1
Chandra X-Ray Center

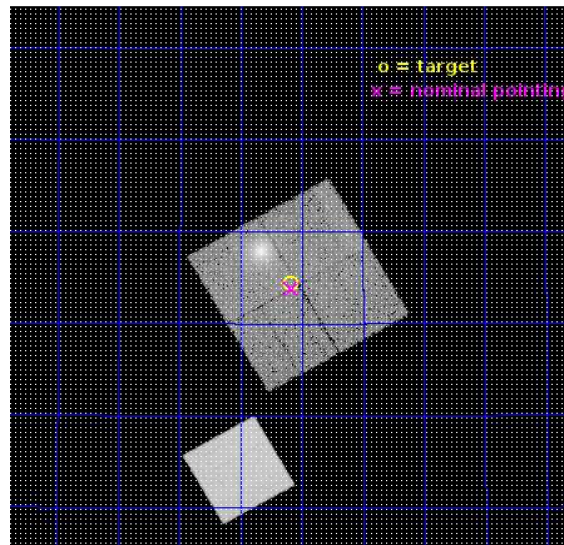
L2 Processing Date : Feb 12 2017

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1 Front

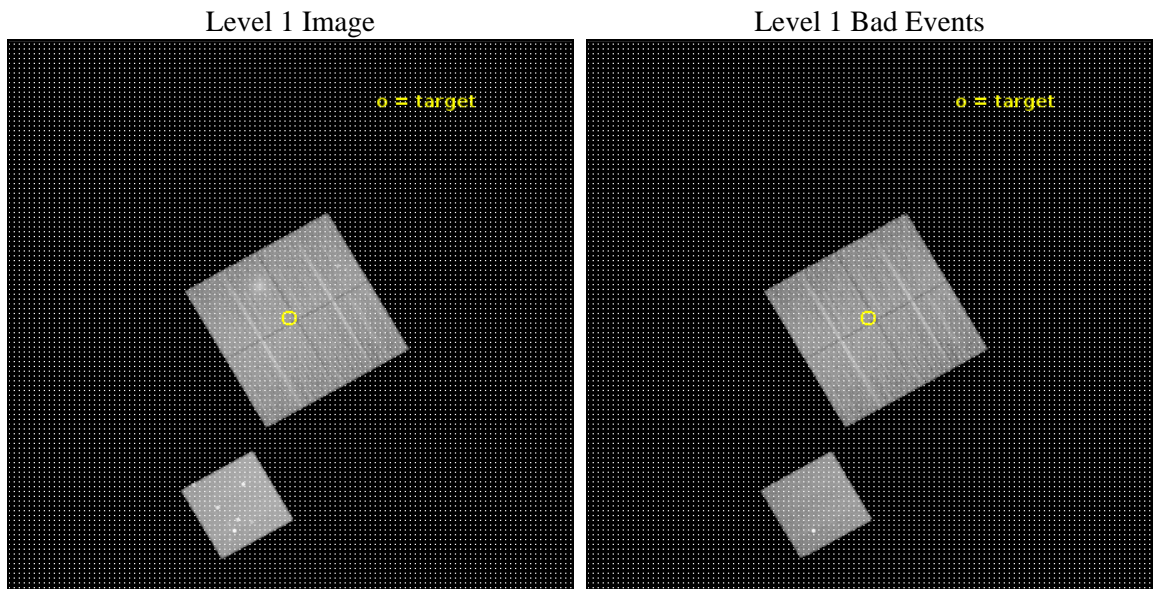
seq_num	801597	Sequence number
obs_id	20004	Observation id
title	Mapping an unusually Relaxed Non-Cool-Core Cluster out to the Viral Radius	Proposal title
observer	Yuanyuan Su	Principal investigator
object	Abell 586	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	113.0225	Observer's specified target RA [deg]
dec_targ	31.57375	Observer's specified target Dec [deg]
ra_nom	113.02122658638	Nominal RA [deg]
dec_nom	31.563451196033	Nominal Dec [deg]
roll_nom	240.20935458819	Nominal Roll [deg]
revision	1	Processing version of data
ontime	26064.772483468	Sum of GTIs [s]
livetime	25724.217042365	Livetime [s]
ontime0	26061.508293152	Sum of GTIs [s]
ontime1	26061.549323201	Sum of GTIs [s]
ontime2	26061.590382814	Sum of GTIs [s]
ontime3	26064.772483468	Sum of GTIs [s]
ontime5	26064.800200582	Sum of GTIs [s]
l2events	224092	Number of level 2 events



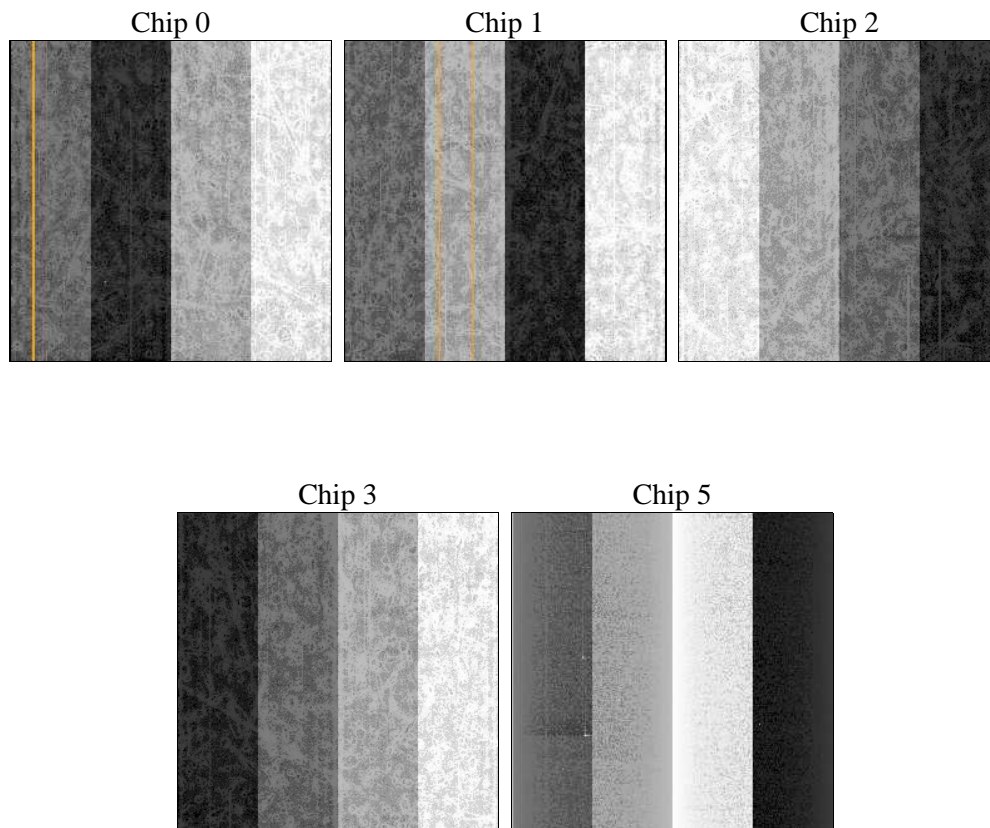
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	26064.772483468	Sum of GTIs [s]
caldbver	4.7.3	 	ontime0	26061.508293152	Sum of GTIs [s]
date	2017-02-12T14:13:40	Date and time of file creation	ontime1	26061.549323201	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	26061.590382814	Sum of GTIs [s]
			ontime3	26064.772483468	Sum of GTIs [s]
			ontime5	26064.800200582	Sum of GTIs [s]
			l1events	1069428	Number of level 1 events

2.1.4 Events

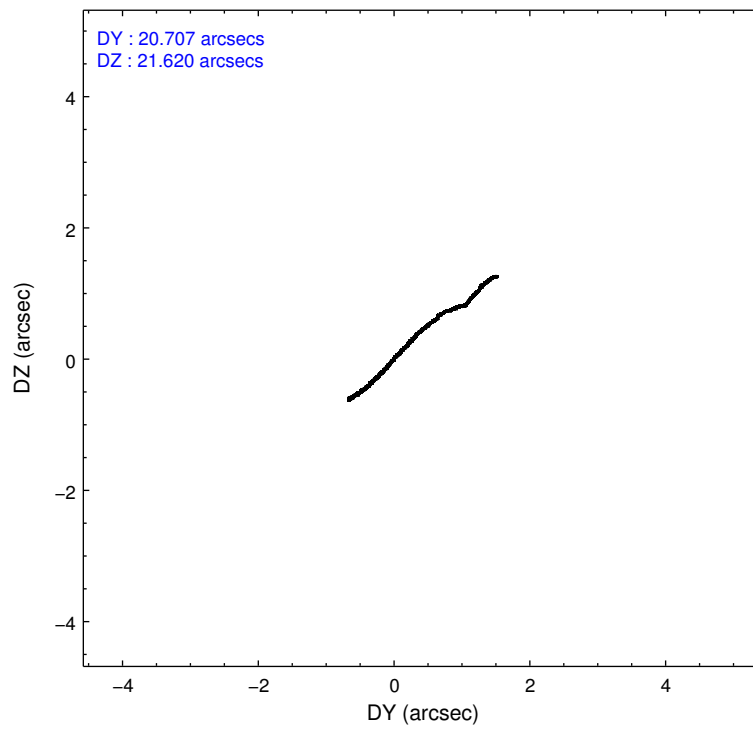
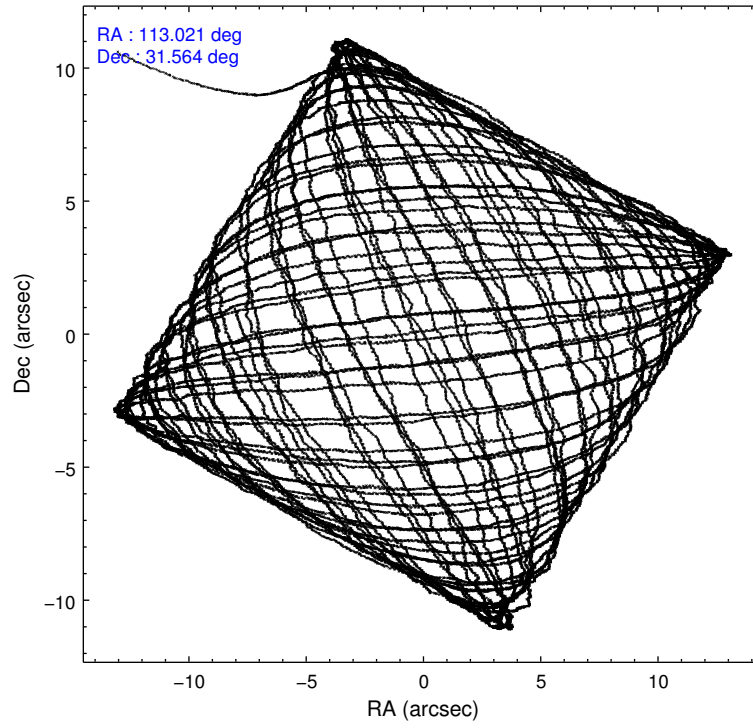
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5
level 1 events	173478	182486	191041	198076	324347
rejected events	152930	157051	170886	161568	162789
rejected %	88%	86%	89%	81%	50%

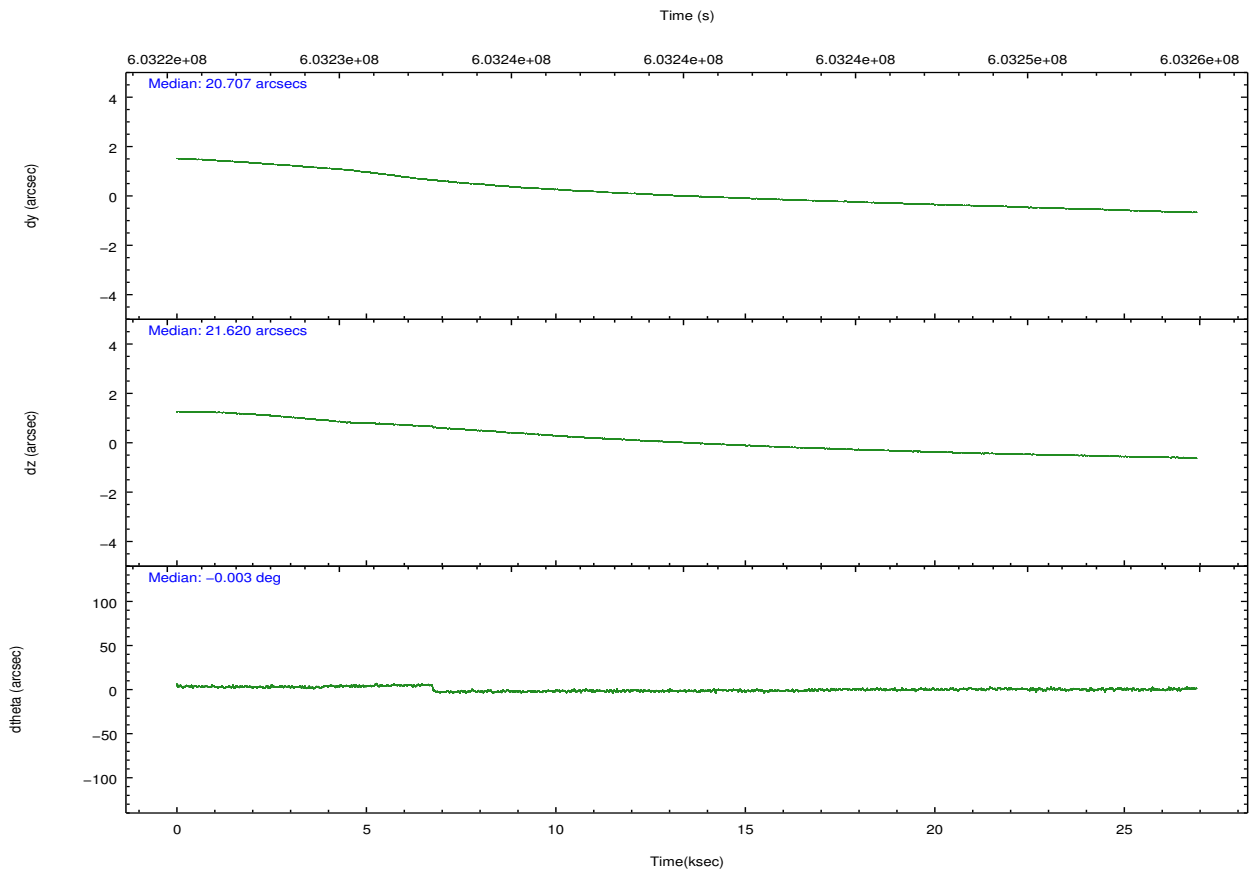
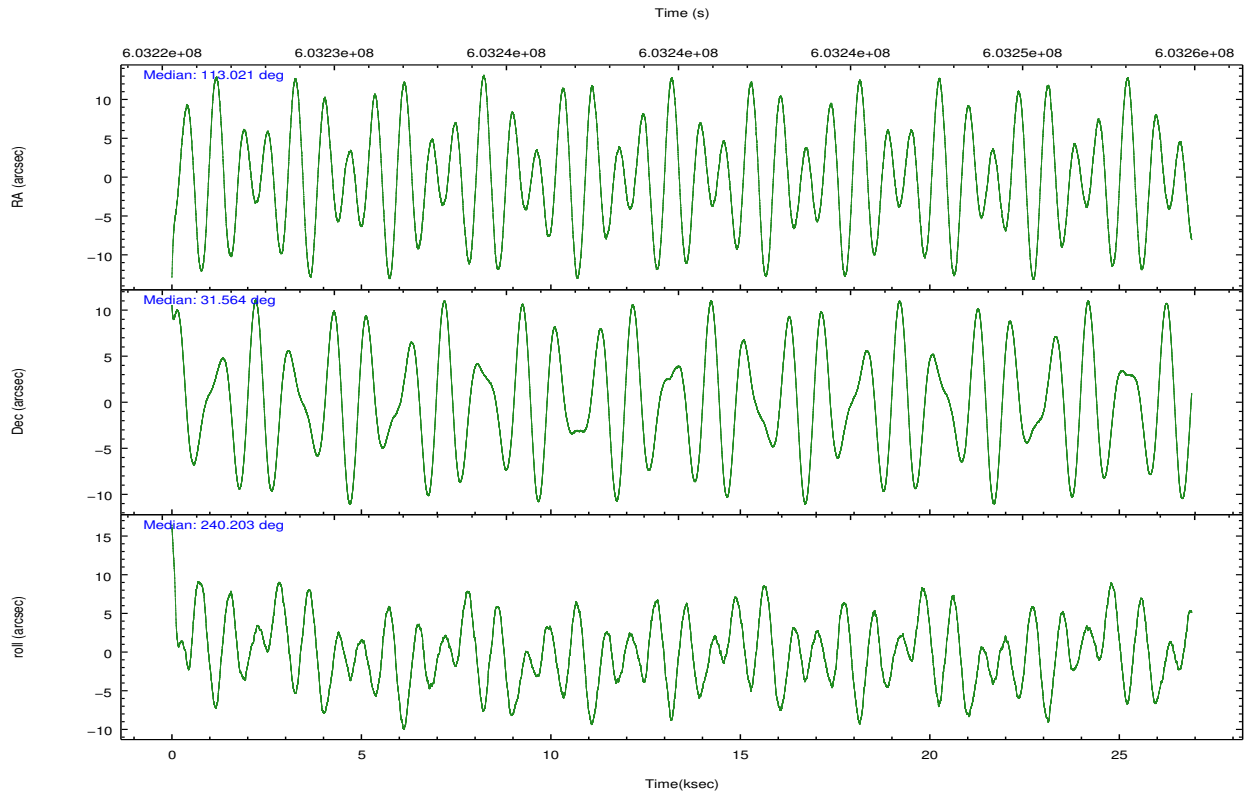
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5
grade 0 events	6938	9784	7127	20378	25551
	3%	5%	3%	10%	7%
grade 1 events	110	119	102	158	712
	0%	0%	0%	0%	0%
grade 2 events	5284	5846	5057	6120	47118
	3%	3%	2%	3%	14%
grade 3 events	2149	2322	1950	2650	5254
	1%	1%	1%	1%	1%
grade 4 events	2047	2234	2060	2710	5125
	1%	1%	1%	1%	1%
grade 5 events	7983	8526	7180	9152	21761
	4%	4%	3%	4%	6%
grade 6 events	4136	5253	3967	4656	78546
	2%	2%	2%	2%	24%
grade 7 events	144831	148402	163598	152252	140280
	83%	81%	85%	76%	43%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01235	ACIS-01235	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	113.020993	113.0212265863814	CCD I2 on	Y	Y
[deg] Pointing Dec	31.591053	31.56345119603344	CCD I3 on	Y	Y
[deg] Pointing Roll	240.000791	240.2093545881947	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	603227547.184000	603225480.10987	CCD S5 on	N	N
Observation start date	2017-02-11T19:11:18	2017-02-11T18:38:00	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	603253547.184000	603254764.36156	On-chip summing requested	N	N
Observation end date	2017-02-12T02:24:38	2017-02-12T02:46:04	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





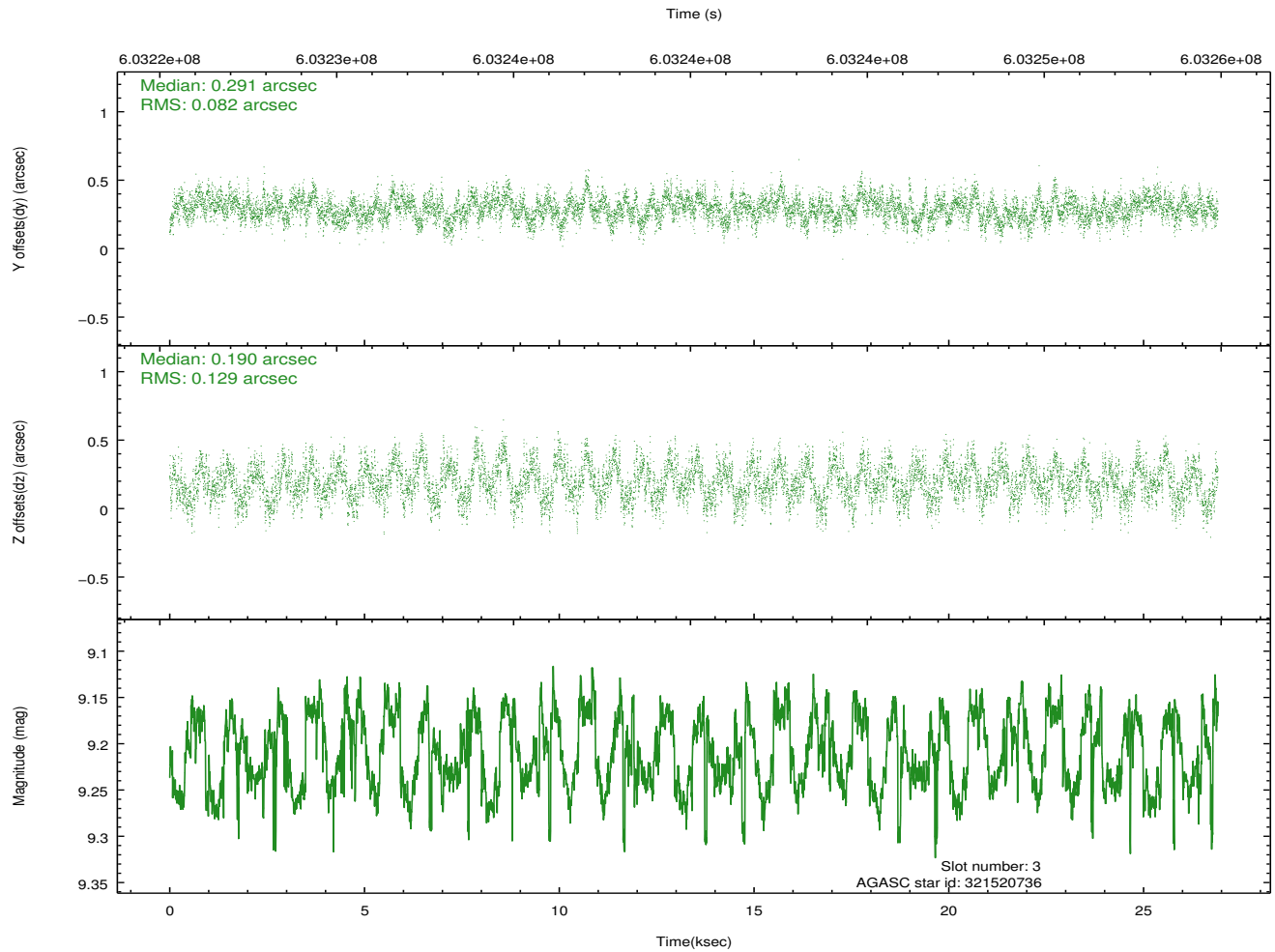
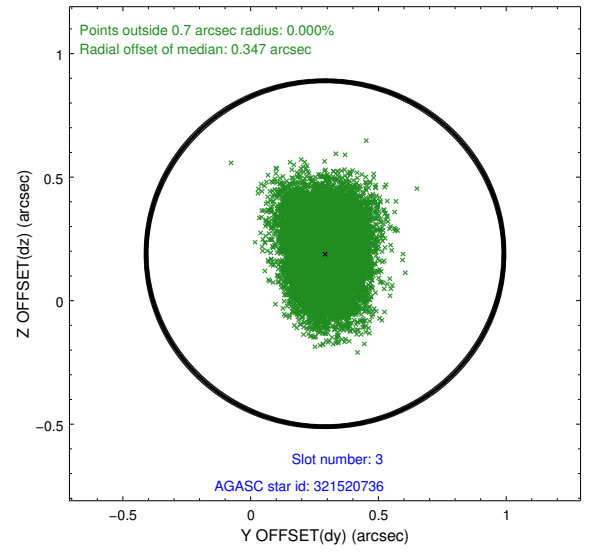
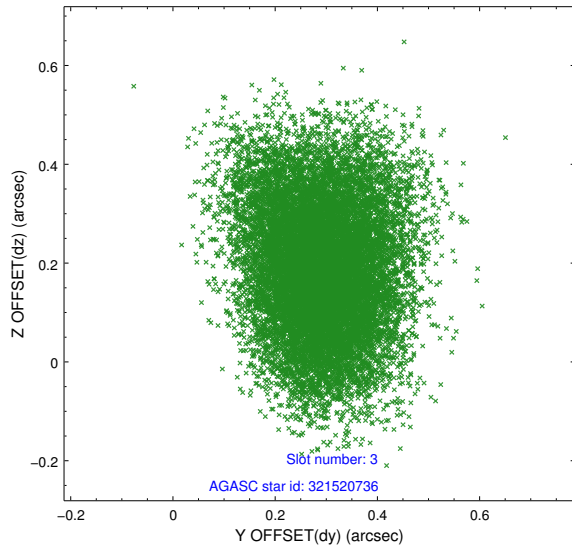
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	6.97	6564	-0.359	-0.197	0.011	0.021	0.000000	0.000000	-776.12	-852.10
1	FID		ACIS-I-4	7.03	6564	0.281	0.232	0.022	0.075	0.000000	0.000000	2138.54	1054.46
2	FID		ACIS-I-6	7.09	6564	-0.021	0.029	0.021	0.081	0.000000	0.000000	384.39	1696.55
3	GUIDE	used	321520736	9.21	13118	0.291	0.190	0.163	0.264	113.387072	31.695033	-885.84	783.23
4	GUIDE	used	321527936	8.02	13125	-0.072	0.074	0.099	0.161	112.604277	31.145118	2030.87	-310.06
5	GUIDE	used	321533568	8.81	13114	0.040	-0.017	0.124	0.204	112.684501	31.559166	614.84	-837.17
6	GUIDE	used	322050952	8.37	13123	0.148	0.180	0.121	0.187	112.842649	31.961208	-881.35	-1138.10
7	GUIDE	used	321528936	7.84	13125	-0.409	-0.413	0.106	0.184	113.393387	30.858982	1705.05	2313.26

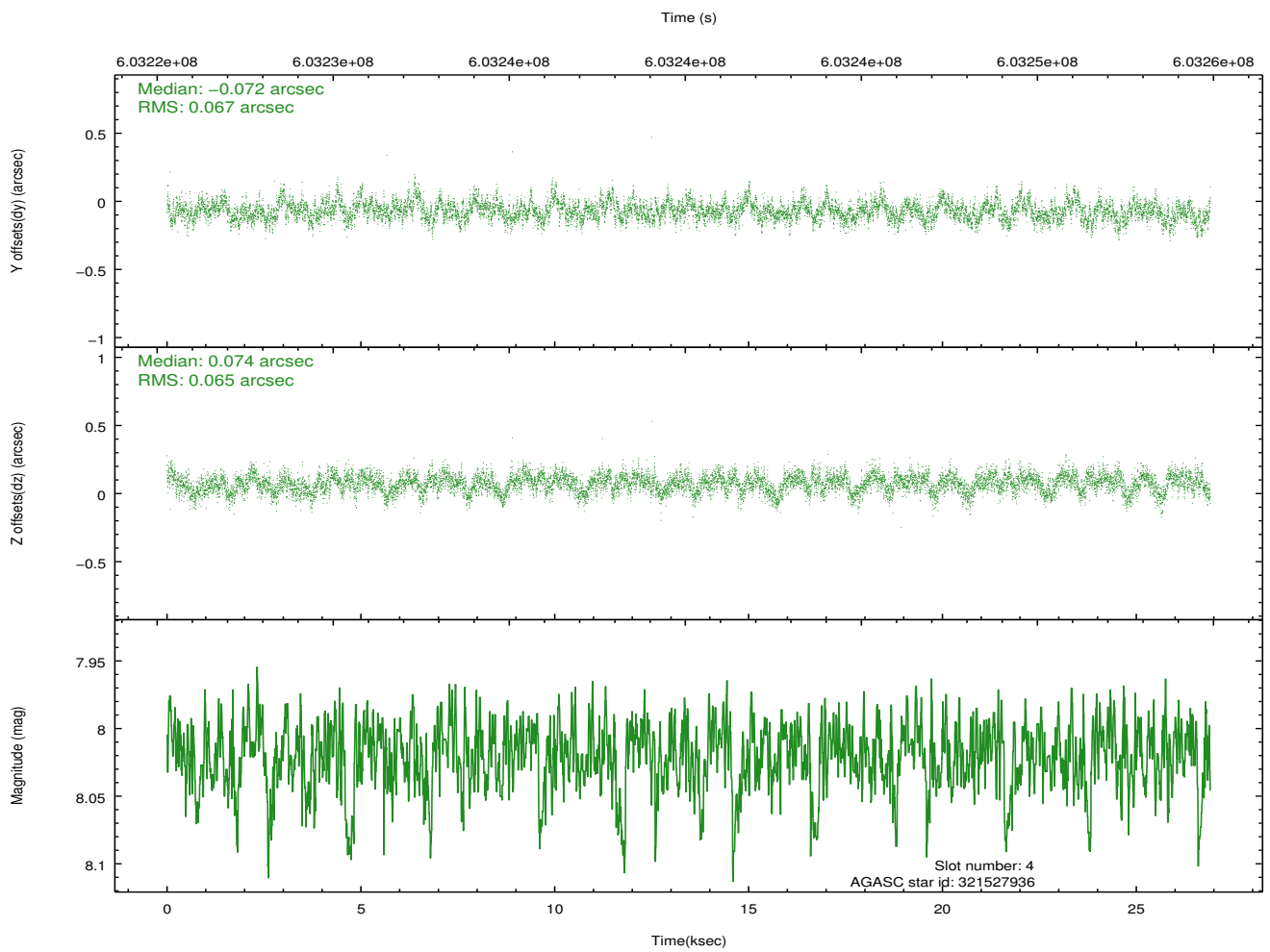
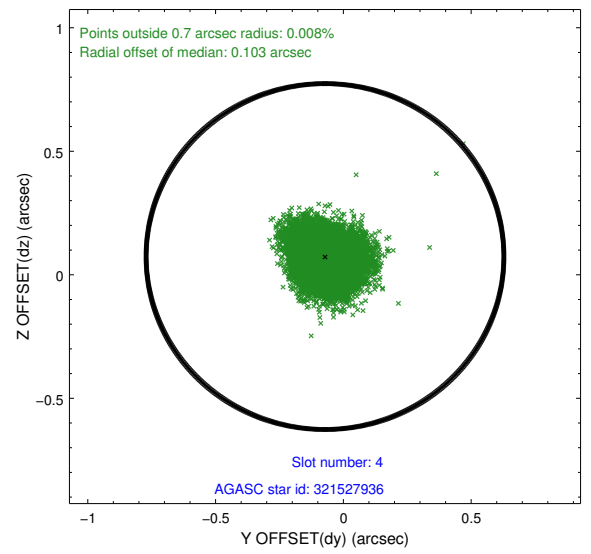
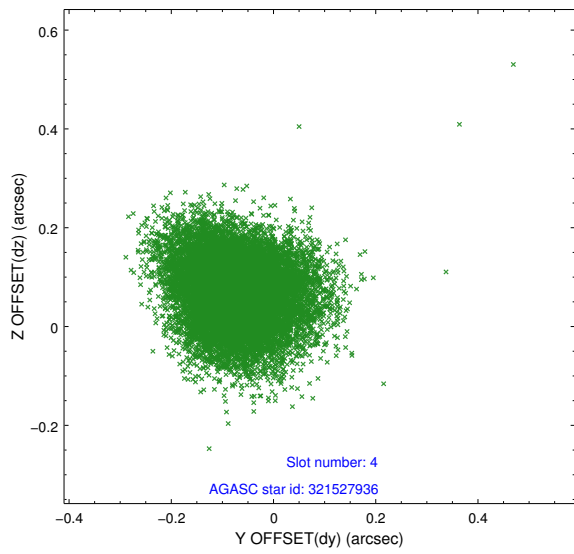
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2.4 Star Slots

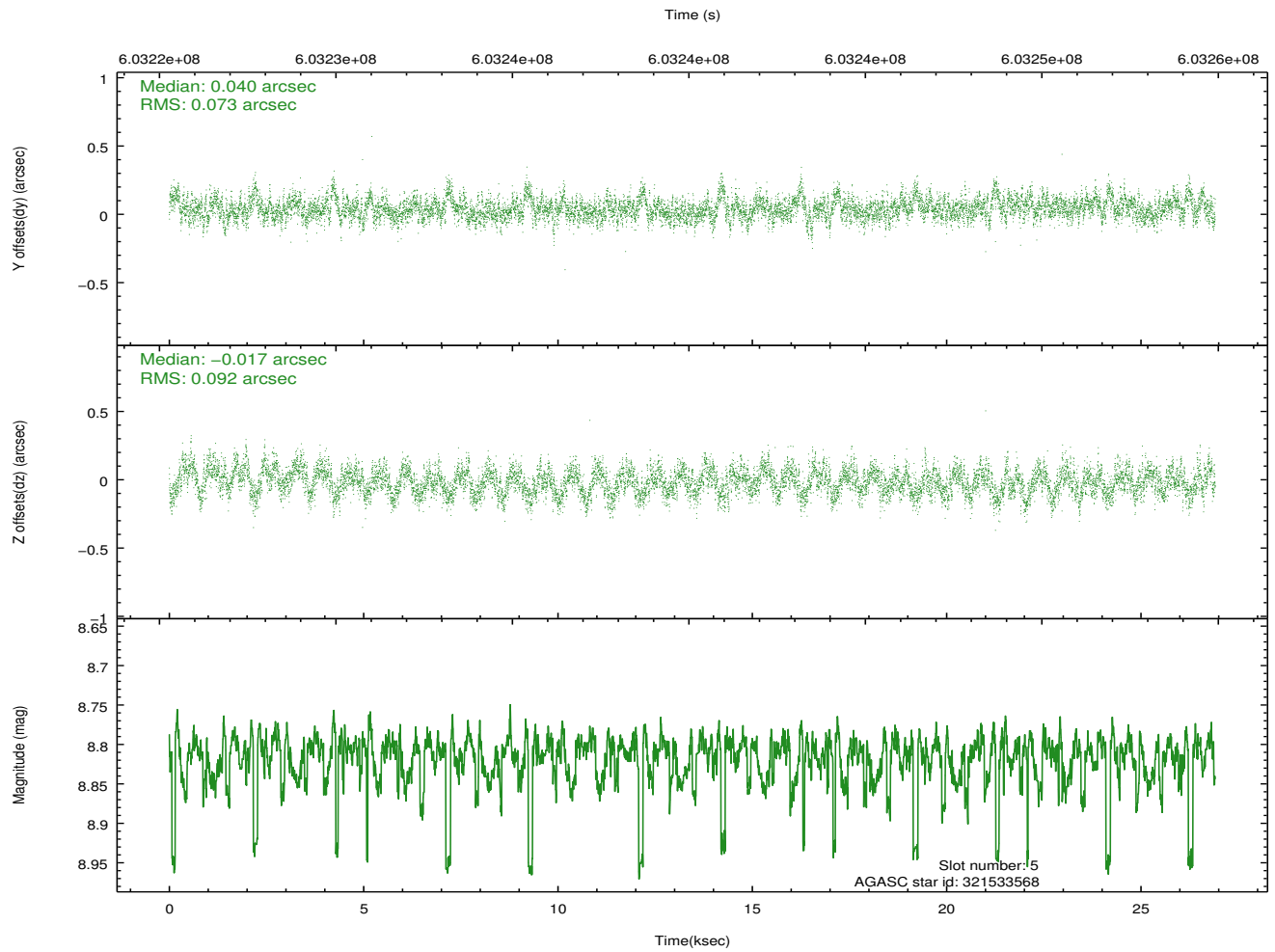
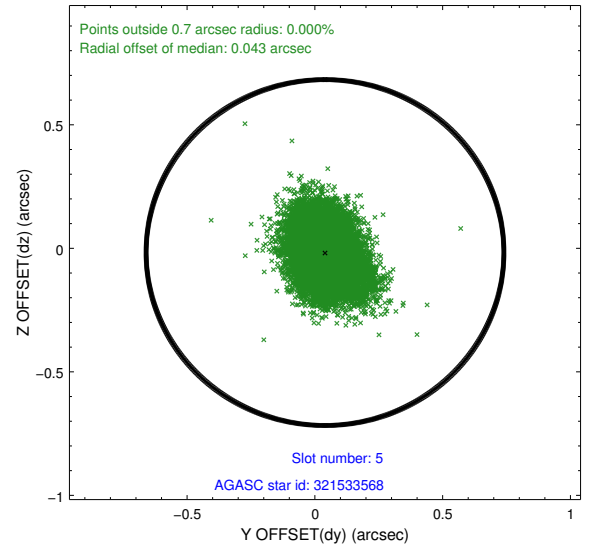
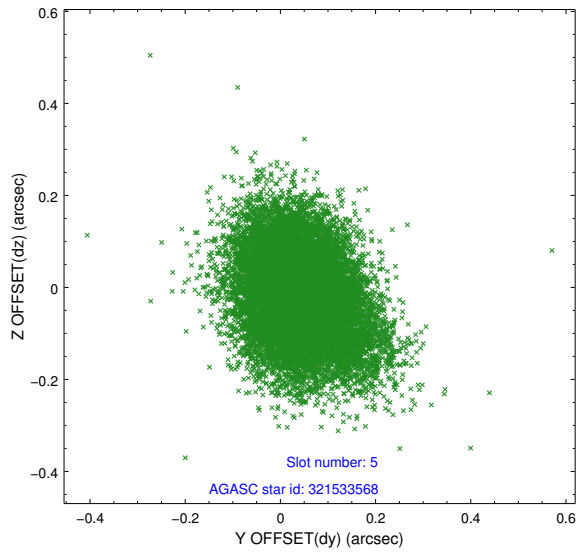
2.4.1 Slot 3



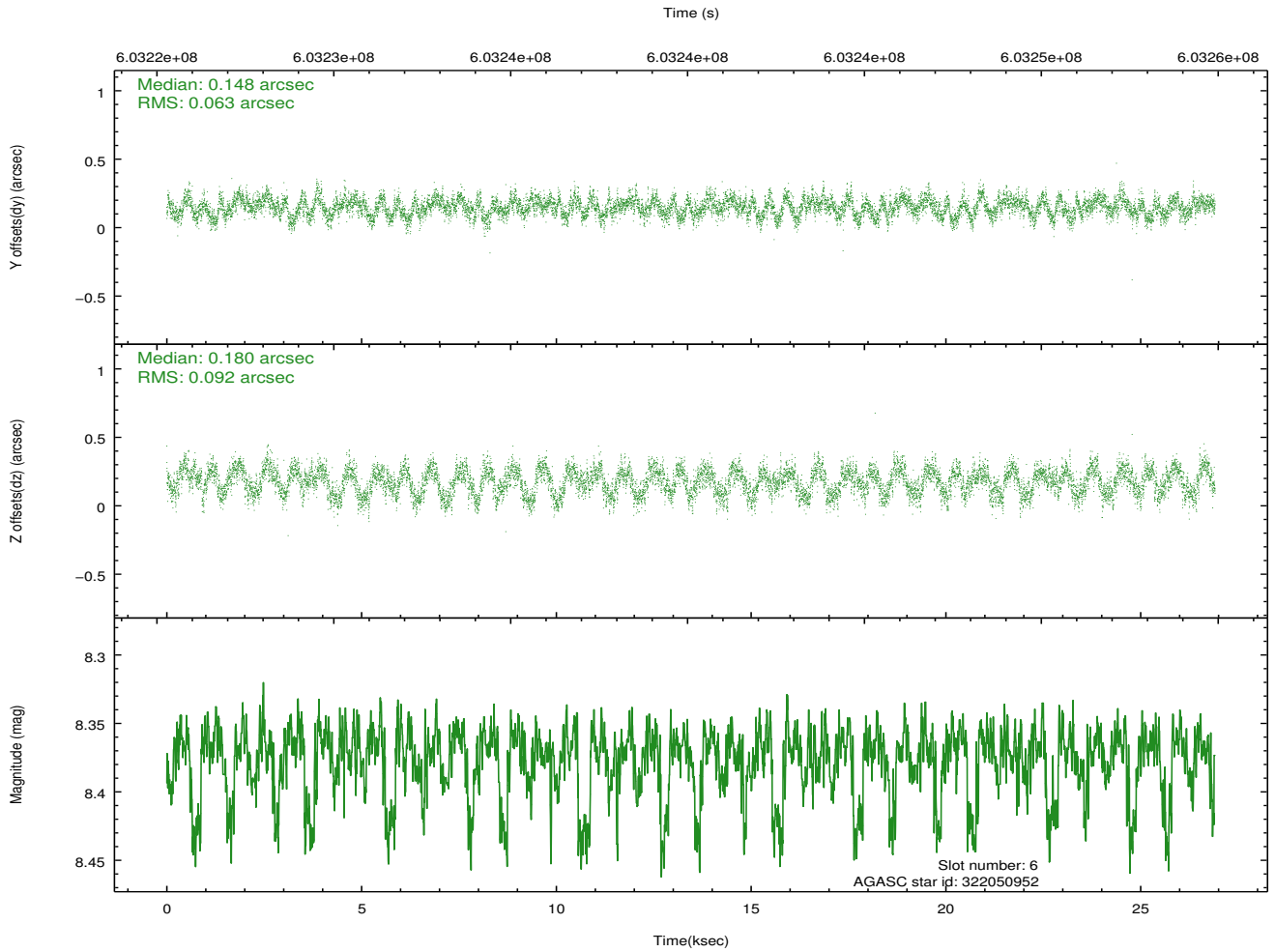
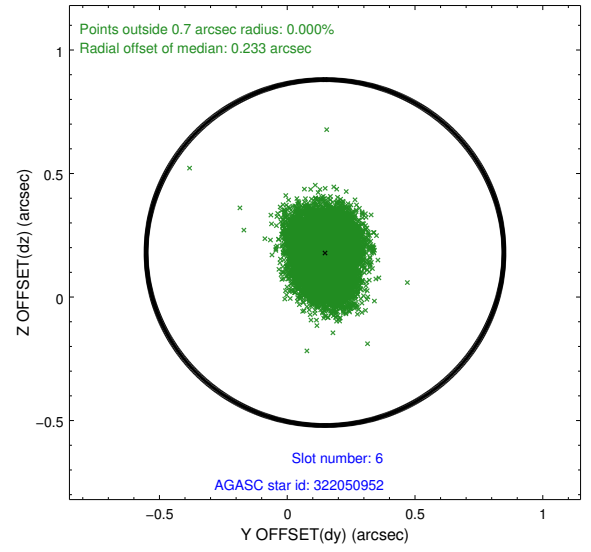
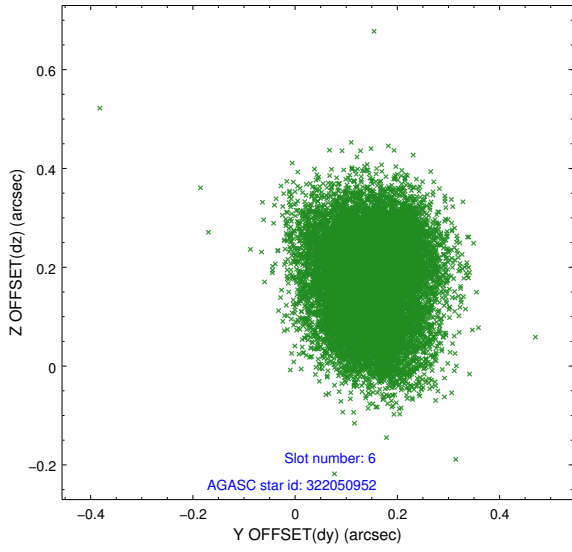
2.4.2 Slot 4



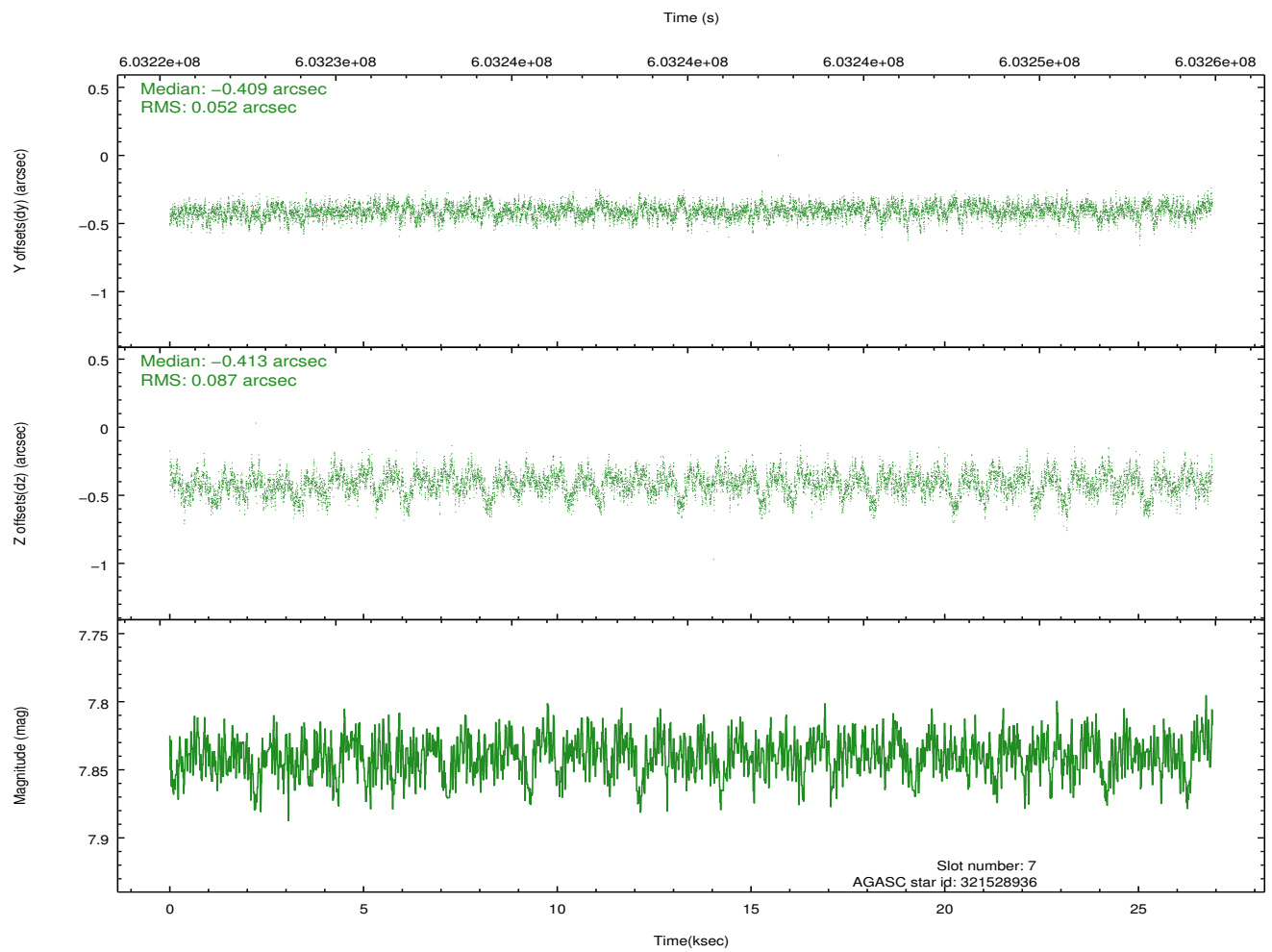
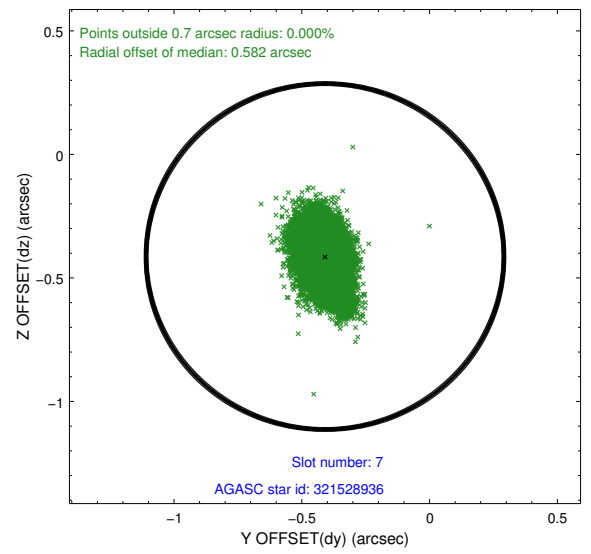
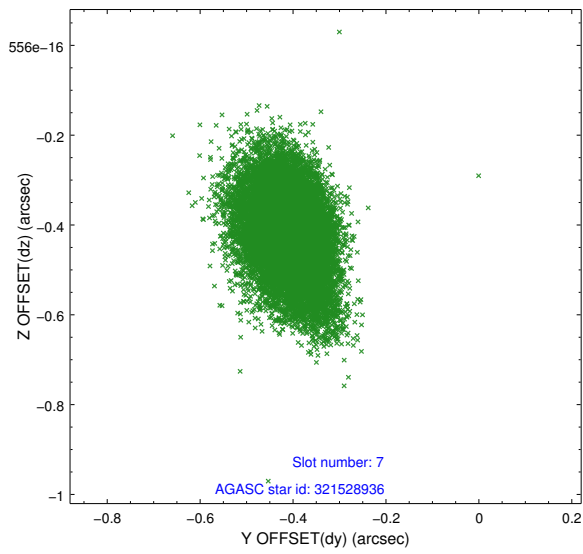
2.4.3 Slot 5



2.4.4 Slot 6

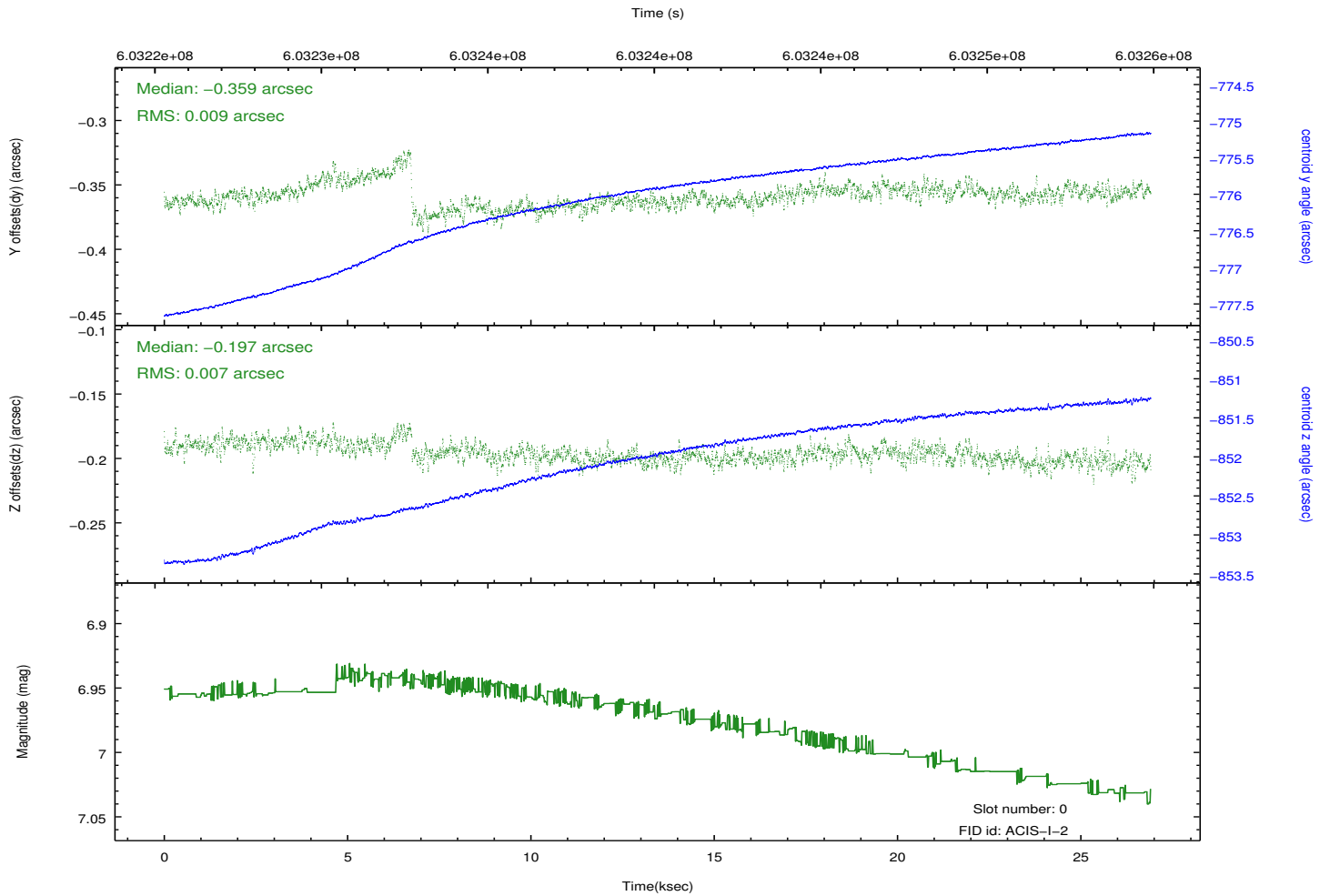
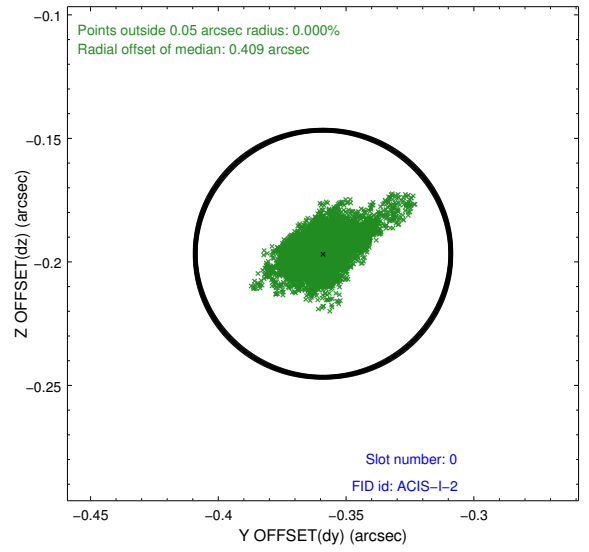
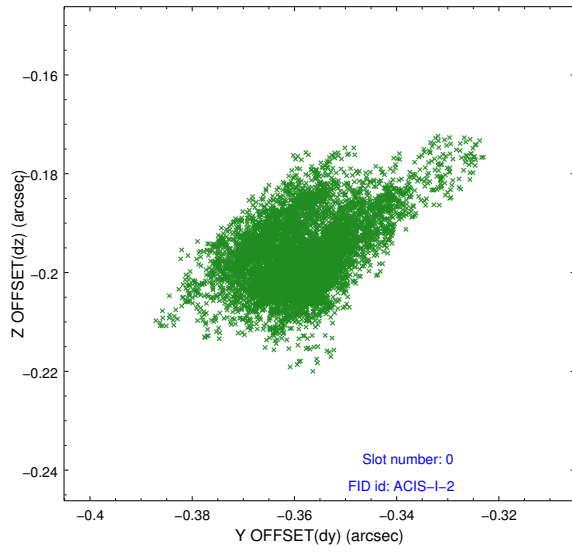


2.4.5 Slot 7

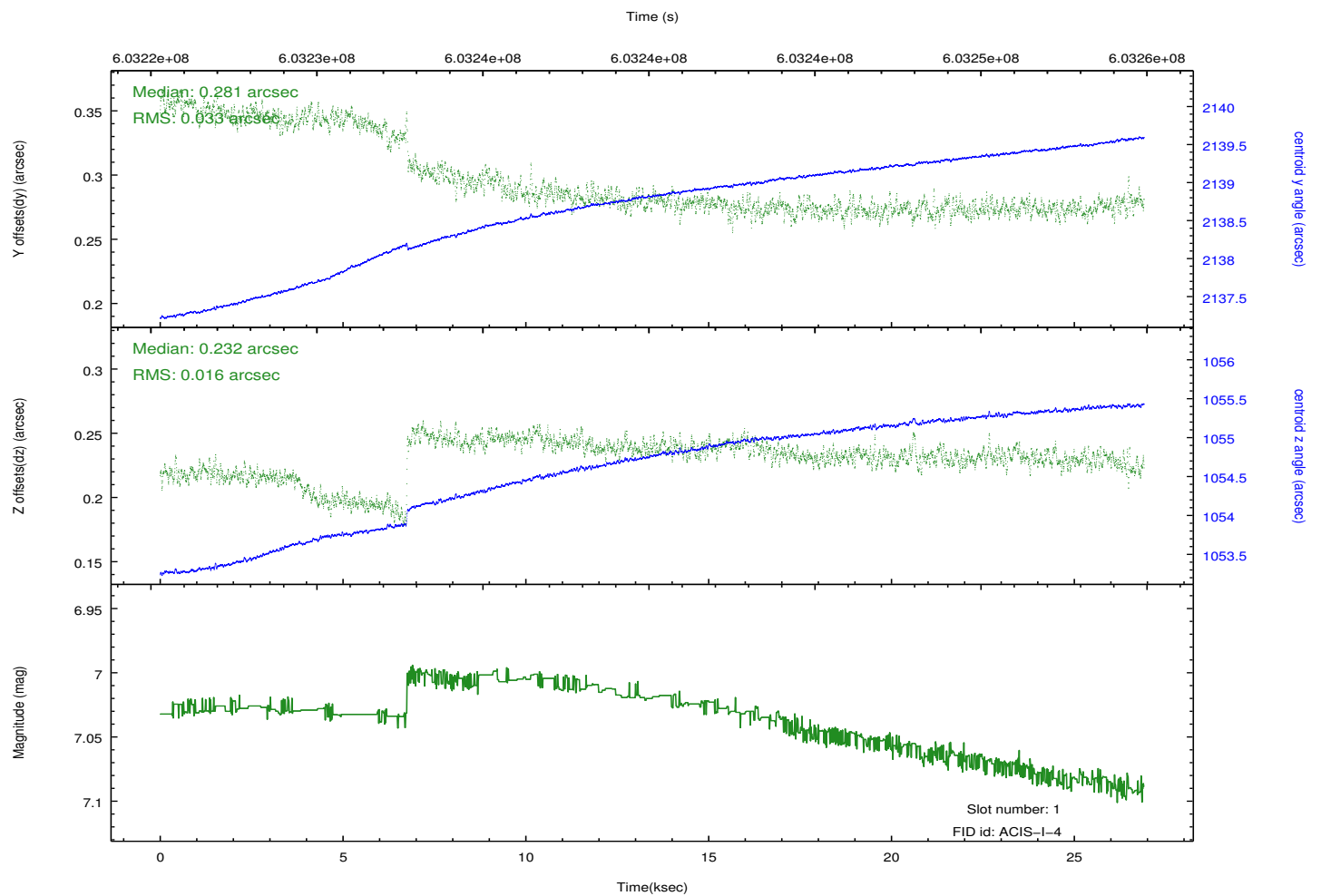
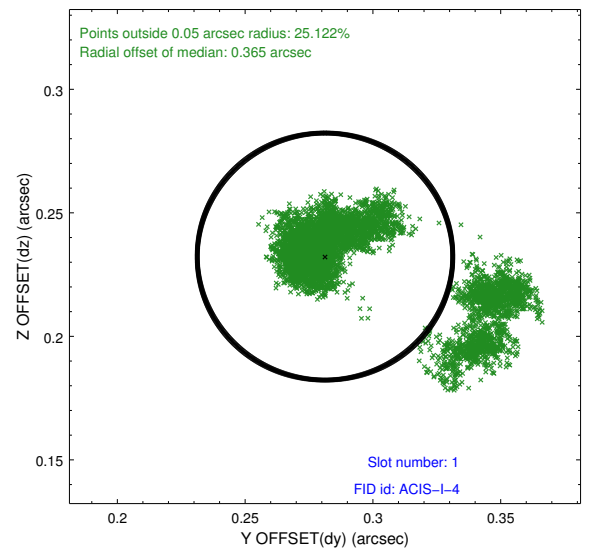
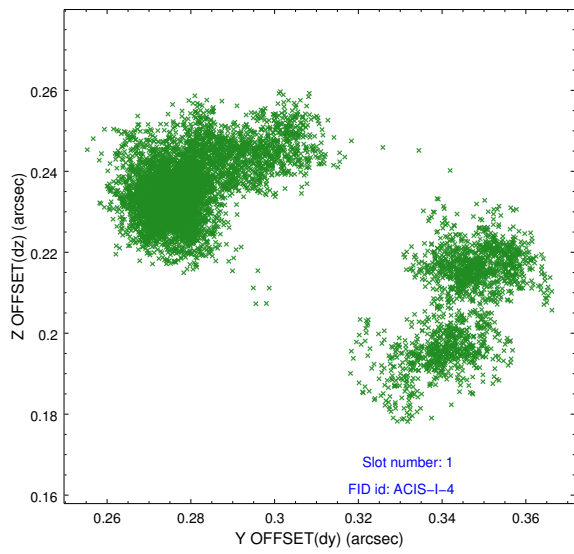


2.5 FID Slots

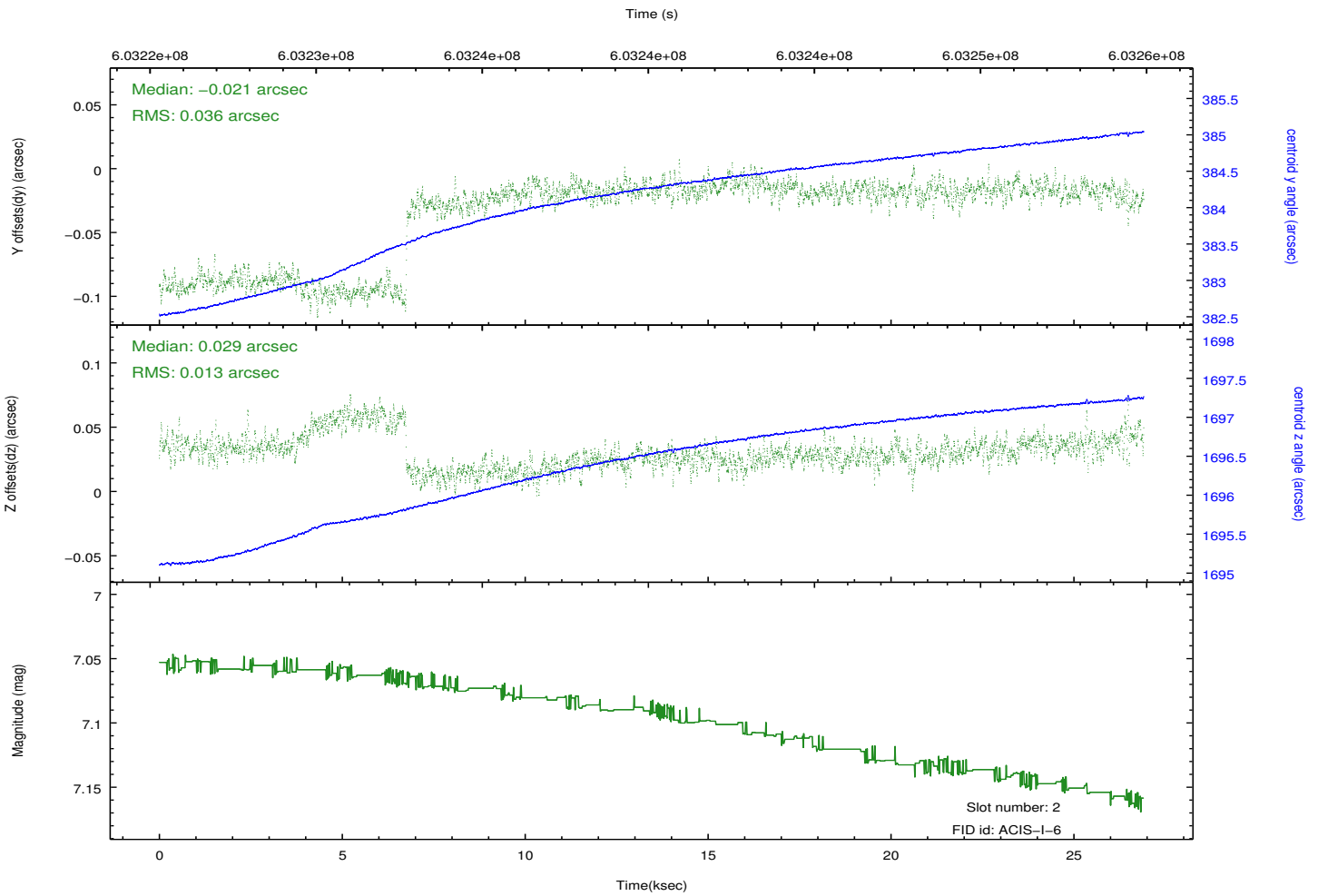
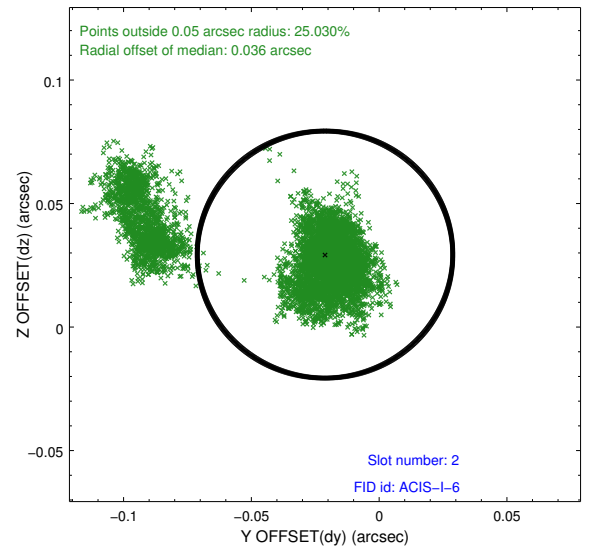
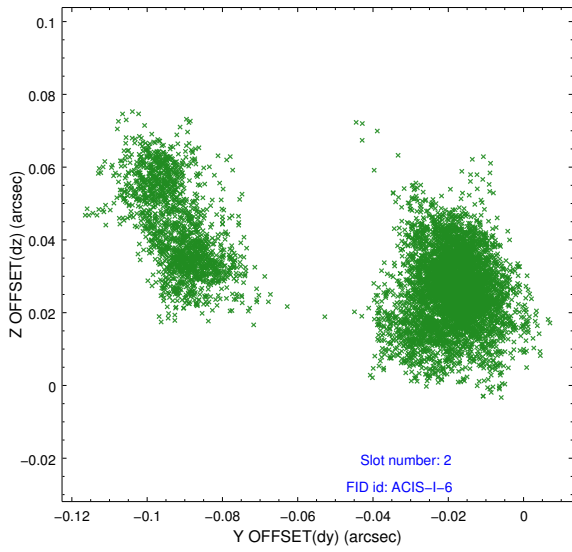
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.02.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.064772483468

A.2 Comments

One optional chip was dropped.