

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18890 - L2 Version 1
Chandra X-Ray Center

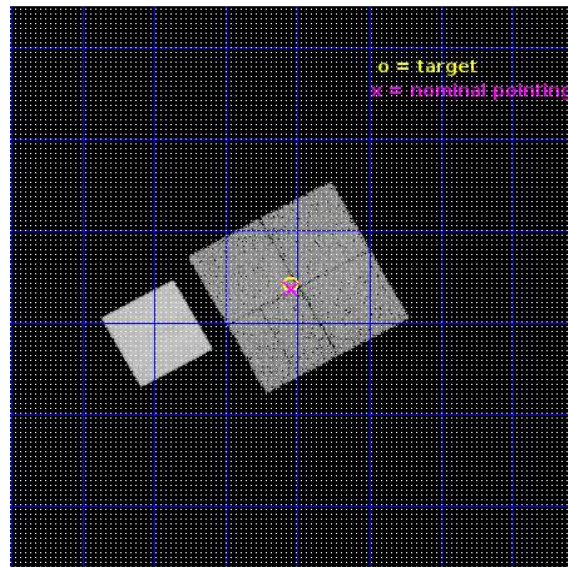
L2 Processing Date : Aug 4 2016

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1 Front

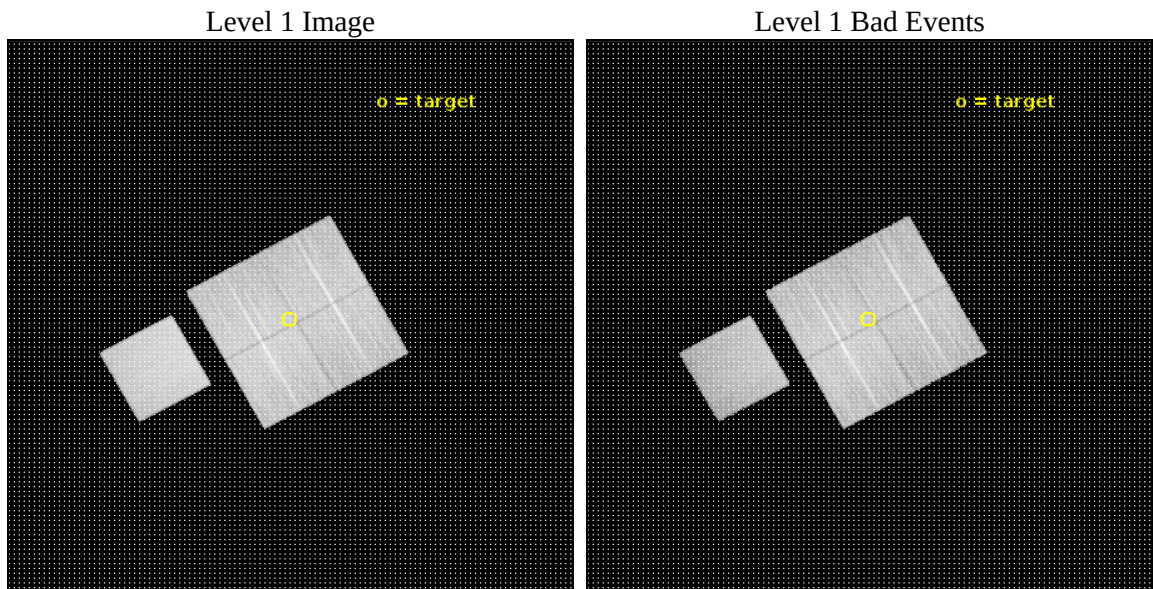
seq_num	201029	Sequence number
obs_id	18890	Observation id
title	Into the Maelstrom of W43	Proposal title
observer	Leisa Townsley	Principal investigator
object	W43 Chimney	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	282.136667	Observer's specified target RA [deg]
dec_targ	-2.098417	Observer's specified target Dec [deg]
ra_nom	282.13587332675	Nominal RA [deg]
dec_nom	-2.1051643322206	Nominal Dec [deg]
roll_nom	241.20866363404	Nominal Roll [deg]
revision	1	Processing version of data
ontime	29908.800230145	Sum of GTIs [s]
livetime	29518.0197366	Livetime [s]
ontime0	29908.800230145	Sum of GTIs [s]
ontime1	29908.800230145	Sum of GTIs [s]
ontime2	29902.518129706	Sum of GTIs [s]
ontime3	29908.800230145	Sum of GTIs [s]
ontime7	29908.800230145	Sum of GTIs [s]
l2events	162262	Number of level 2 events



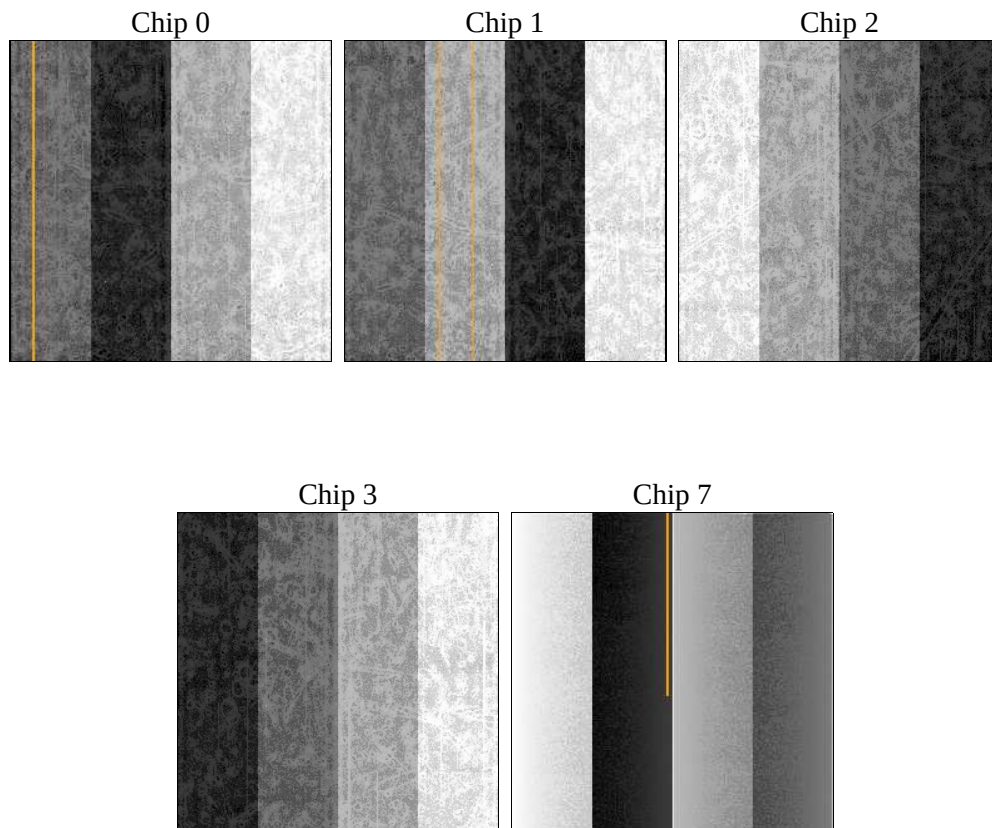
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29849.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	29908.800230145	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	29908.800230145	Sum of GTIs [s]
date	2016-08-05T01:45:14	Date and time of file creation	ontime1	29908.800230145	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	29902.518129706	Sum of GTIs [s]
			ontime3	29908.800230145	Sum of GTIs [s]
			ontime7	29908.800230145	Sum of GTIs [s]
			l1events	900451	Number of level 1 events

2.1.4 Events

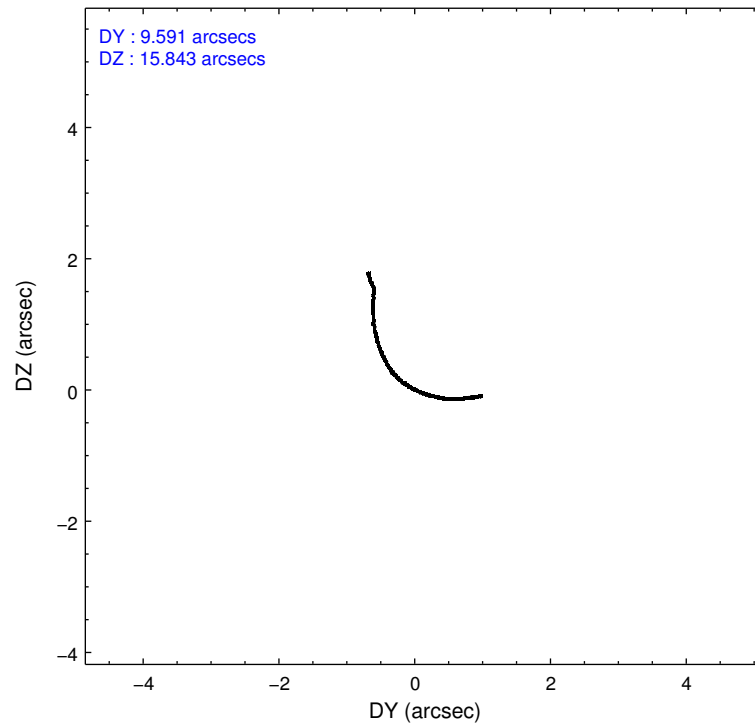
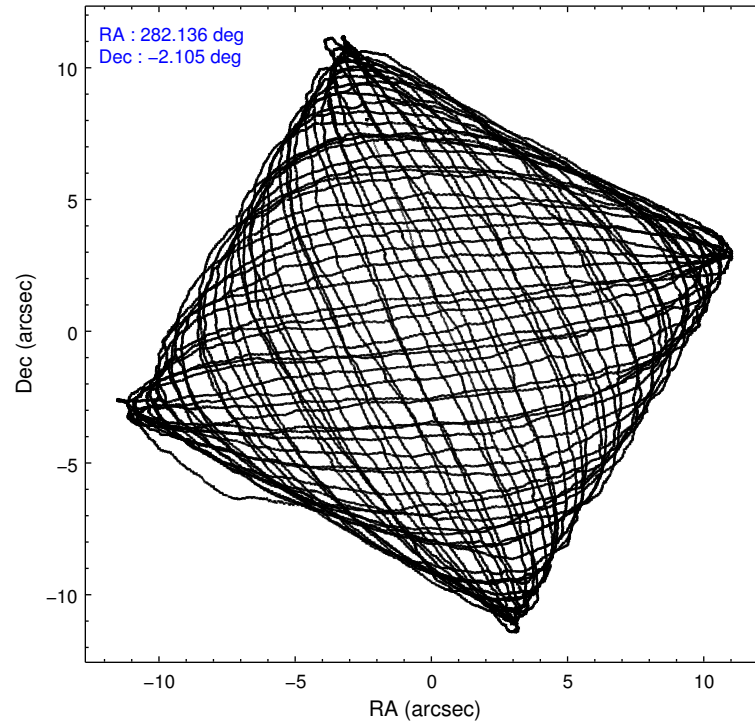
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	163040	165685	189281	176909	205536
rejected events	141660	144071	168889	157627	108910
rejected %	86%	86%	89%	89%	52%

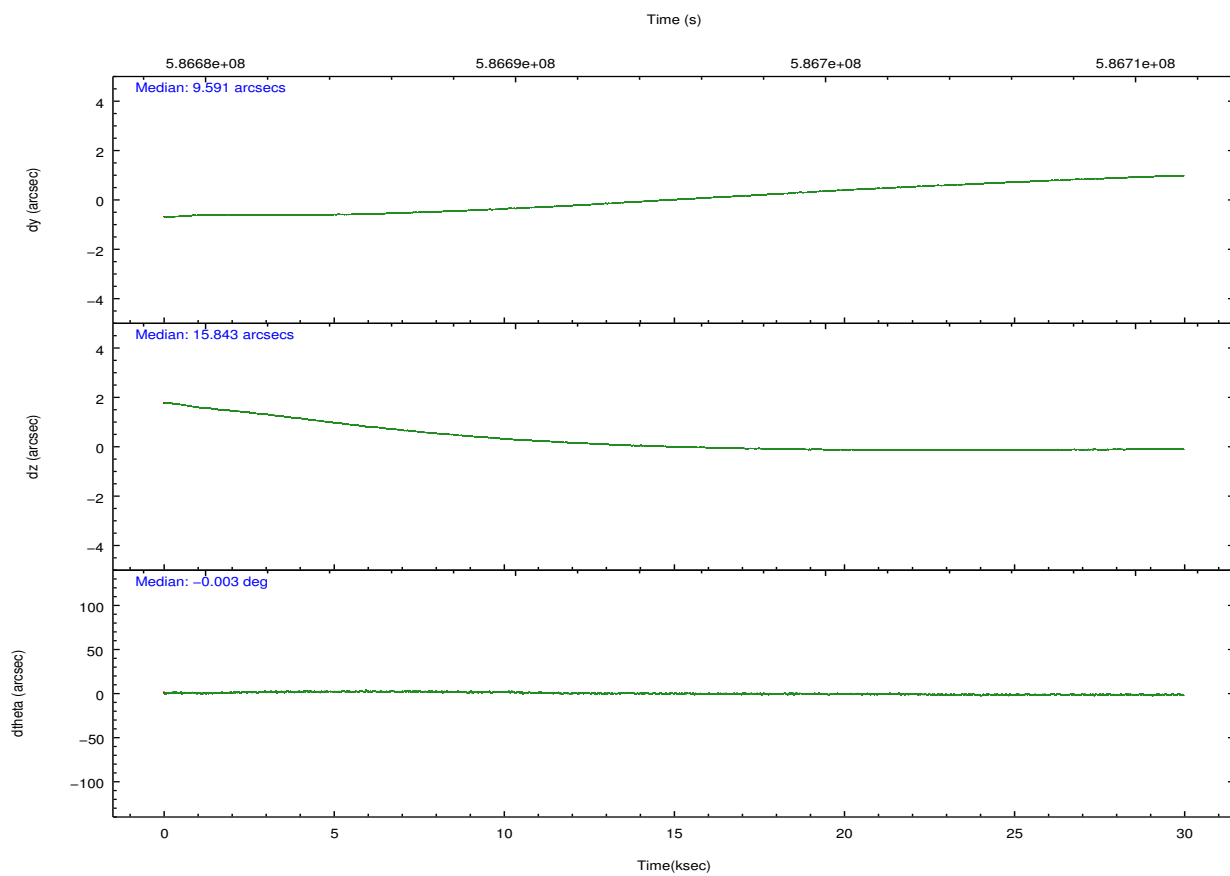
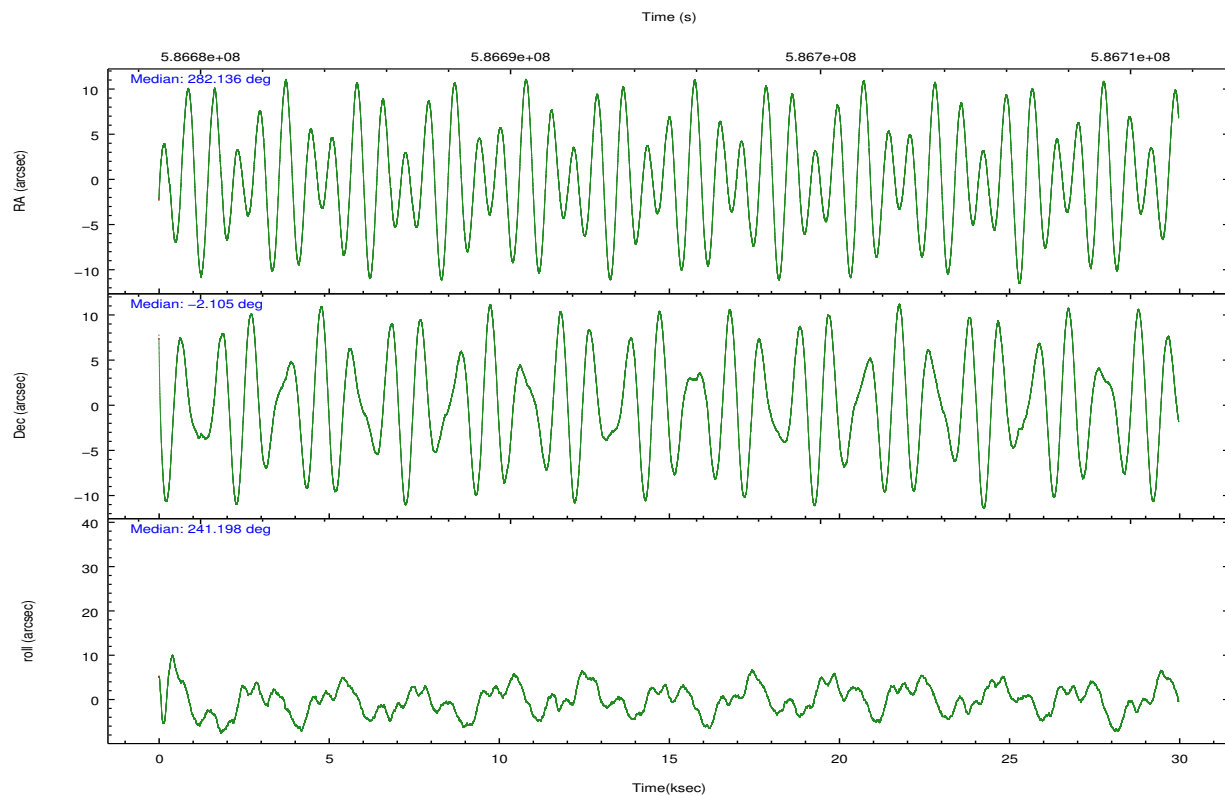
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	8150	7608	7688	7165	9145
	4%	4%	4%	4%	4%
grade 1 events	117	93	104	97	351
	0%	0%	0%	0%	0%
grade 2 events	5245	5155	5078	4351	21212
	3%	3%	2%	2%	10%
grade 3 events	2090	2142	1972	1869	8314
	1%	1%	1%	1%	4%
grade 4 events	1957	2202	2039	1988	8116
	1%	1%	1%	1%	3%
grade 5 events	6572	7183	6260	7635	21283
	4%	4%	3%	4%	10%
grade 6 events	3943	4513	3618	3912	49860
	2%	2%	1%	2%	24%
grade 7 events	134966	136789	162522	149892	87255
	82%	82%	85%	84%	42%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	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	282.135176	282.1358733267475	CCD I2 on	Y	Y
[deg] Pointing Dec	-2.077565	-2.10516433222059	CCD I3 on	Y	Y
[deg] Pointing Roll	240.999955	241.2086636340381	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	O1	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	586680251.184000	586679059.95513	CCD S5 on	N	N
Observation start date	2016-08-04T06:43:03	2016-08-04T06:24:19	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	586710100.184000	586711090.18197	On-chip summing requested	N	N
Observation end date	2016-08-04T15:00:32	2016-08-04T15:18:10	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



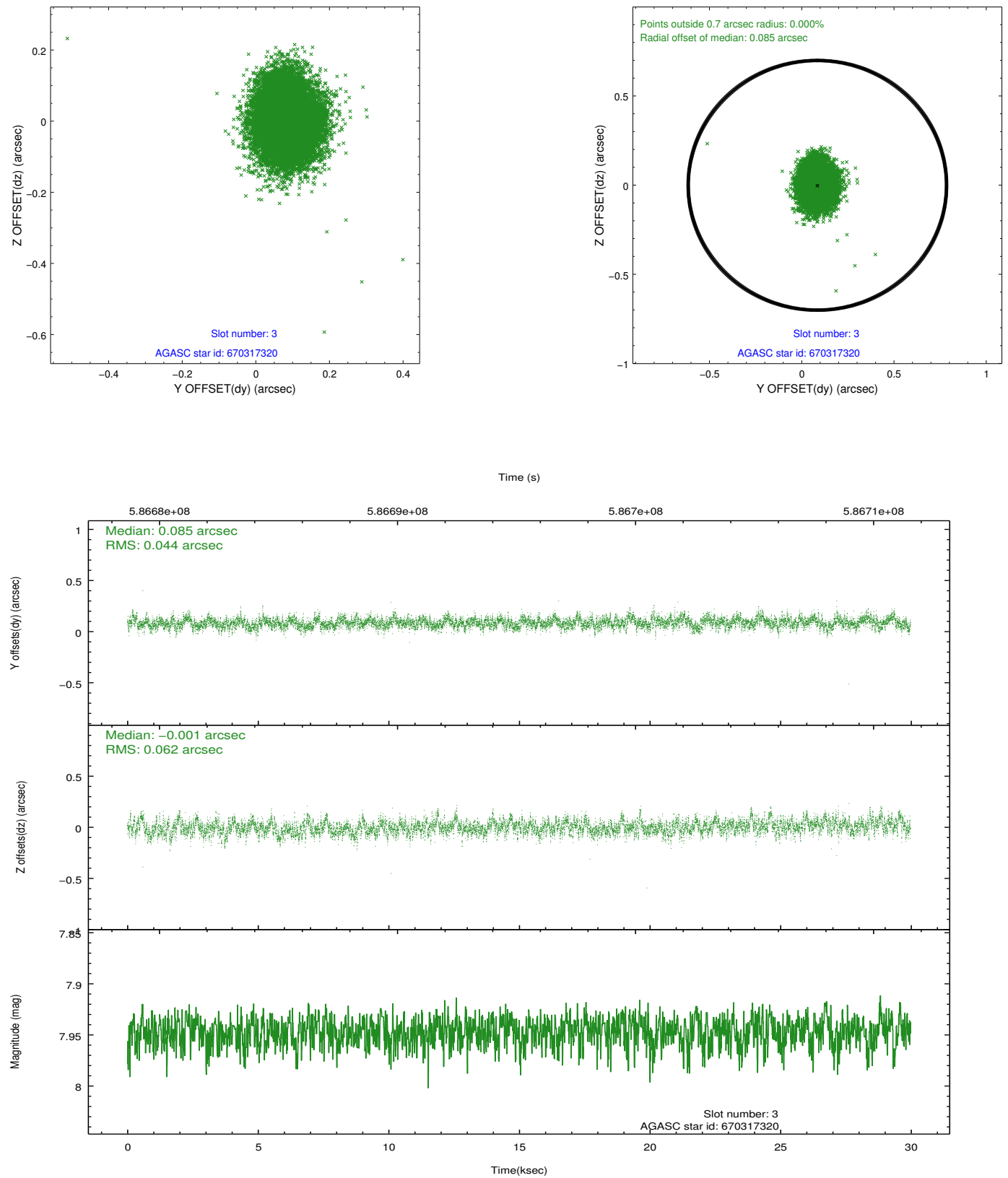


Slot Statistics

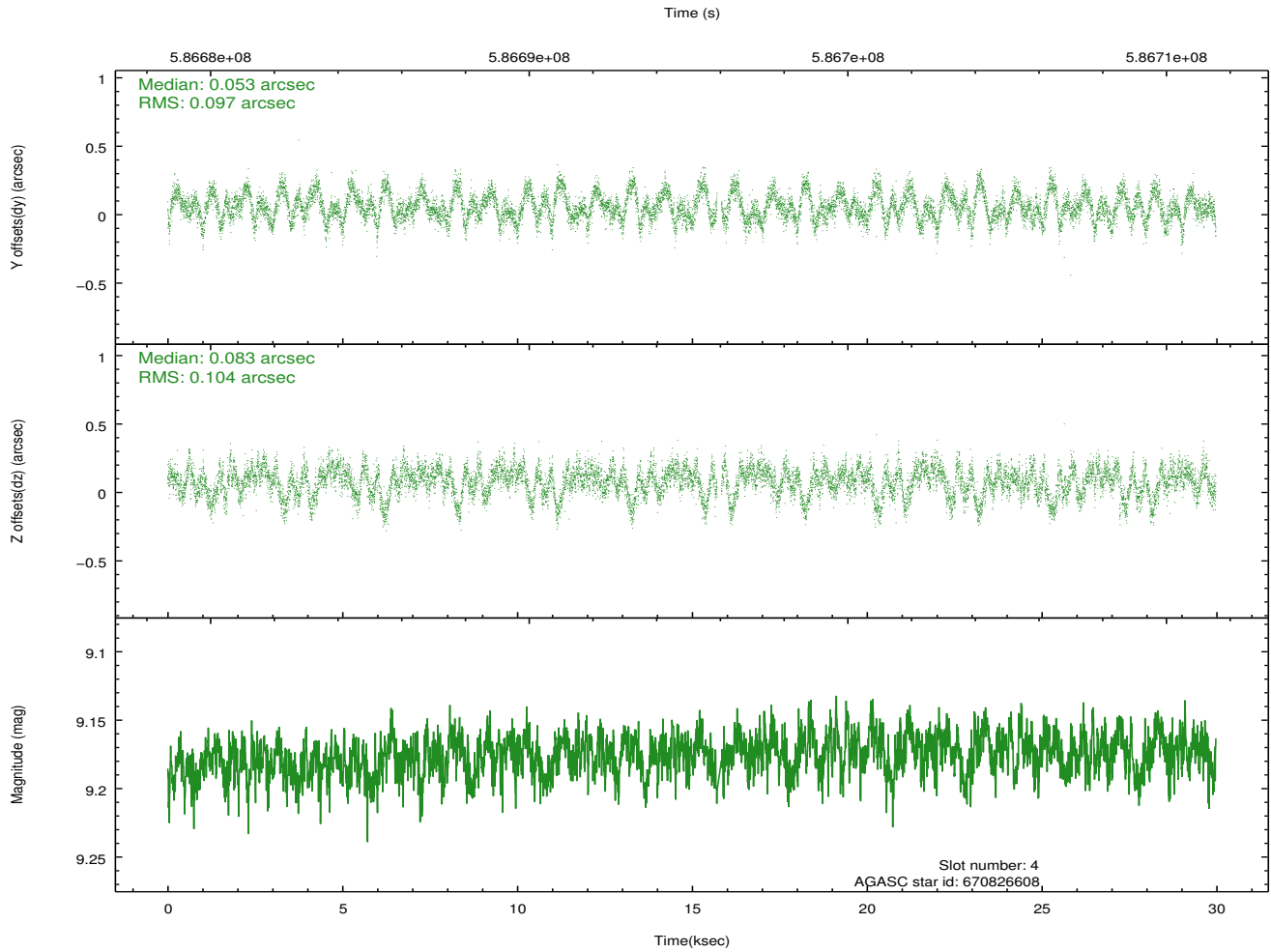
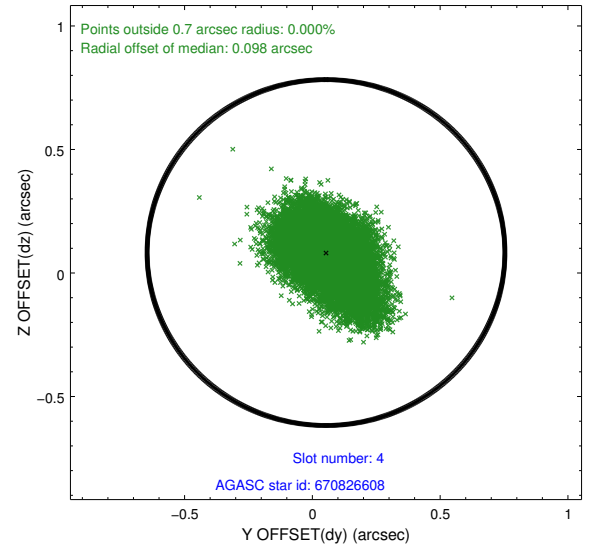
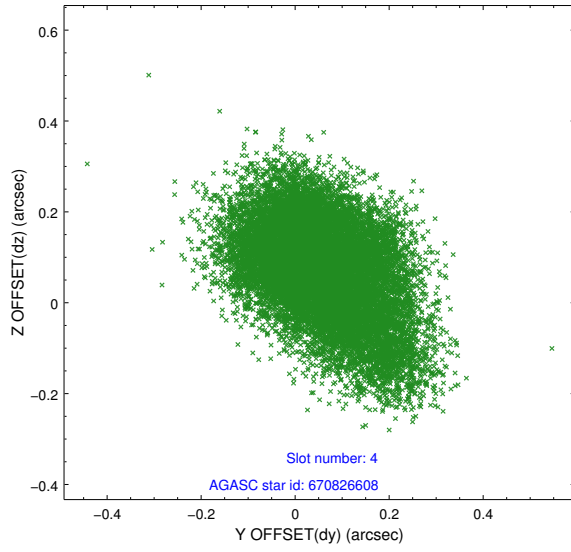
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.11	7311	0.085	-0.082	0.028	0.039	0.000000	0.000000	930.06	-839.85
1	FID		ACIS-I-5	7.09	7311	-0.287	0.056	0.023	0.035	0.000000	0.000000	-1818.40	1057.71
2	FID		ACIS-I-6	7.10	7311	0.111	0.097	0.015	0.063	0.000000	0.000000	395.52	1702.35
3	GUIDE	used	670317320	7.95	14621	0.085	-0.001	0.079	0.131	281.764311	-1.843342	-89.77	-1575.52
4	GUIDE	used	670826608	9.18	14550	0.053	0.083	0.149	0.254	282.595495	-2.141533	-601.26	1560.34
5	GUIDE	used	670826680	9.22	14604	-0.222	-0.091	0.149	0.235	282.619566	-2.432067	271.36	2143.05
6	GUIDE	used	670827280	9.41	14607	0.049	-0.180	0.137	0.228	281.434708	-1.976010	904.85	-2380.72
7	GUIDE	used	670826944	9.48	14604	0.036	0.199	0.151	0.247	282.910417	-1.982160	-1652.19	2273.40

2.4 Star Slots

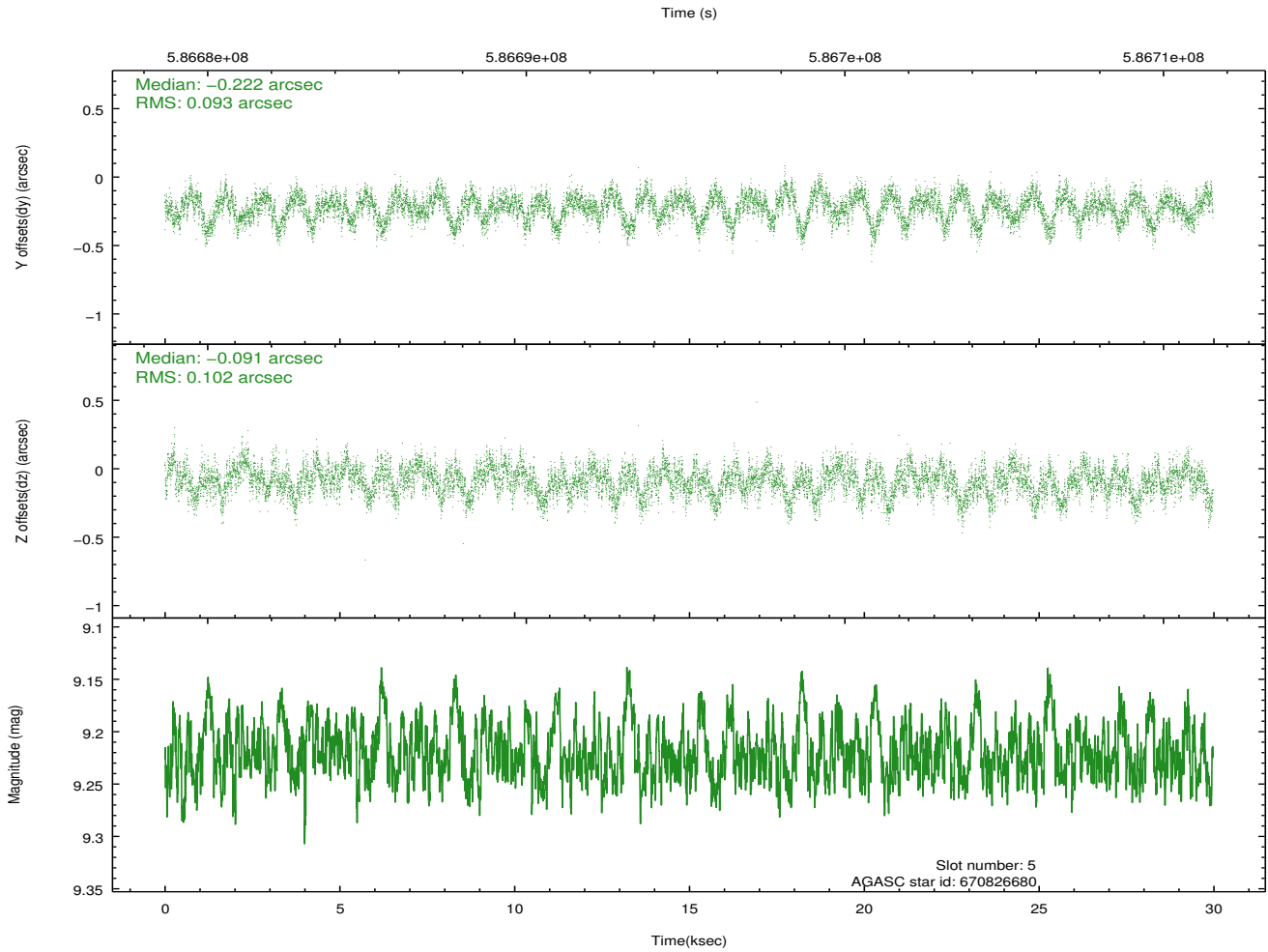
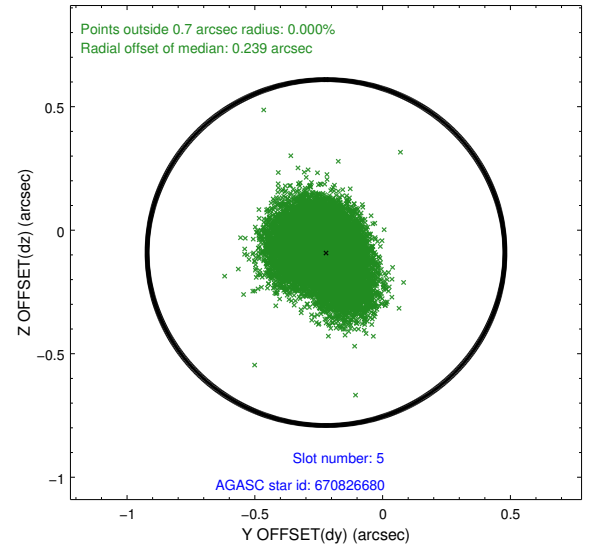
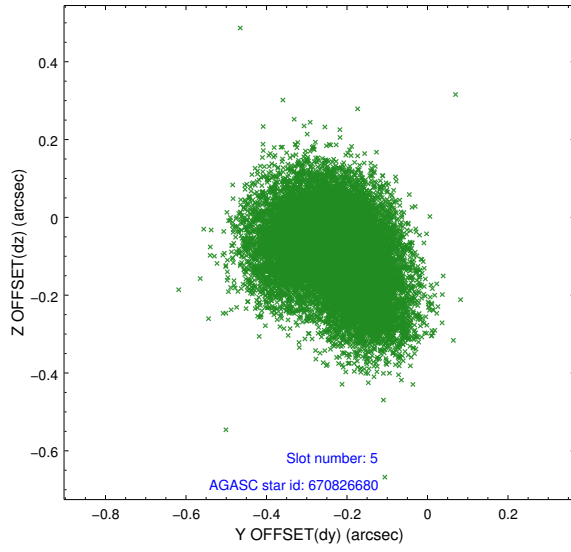
2.4.1 Slot 3



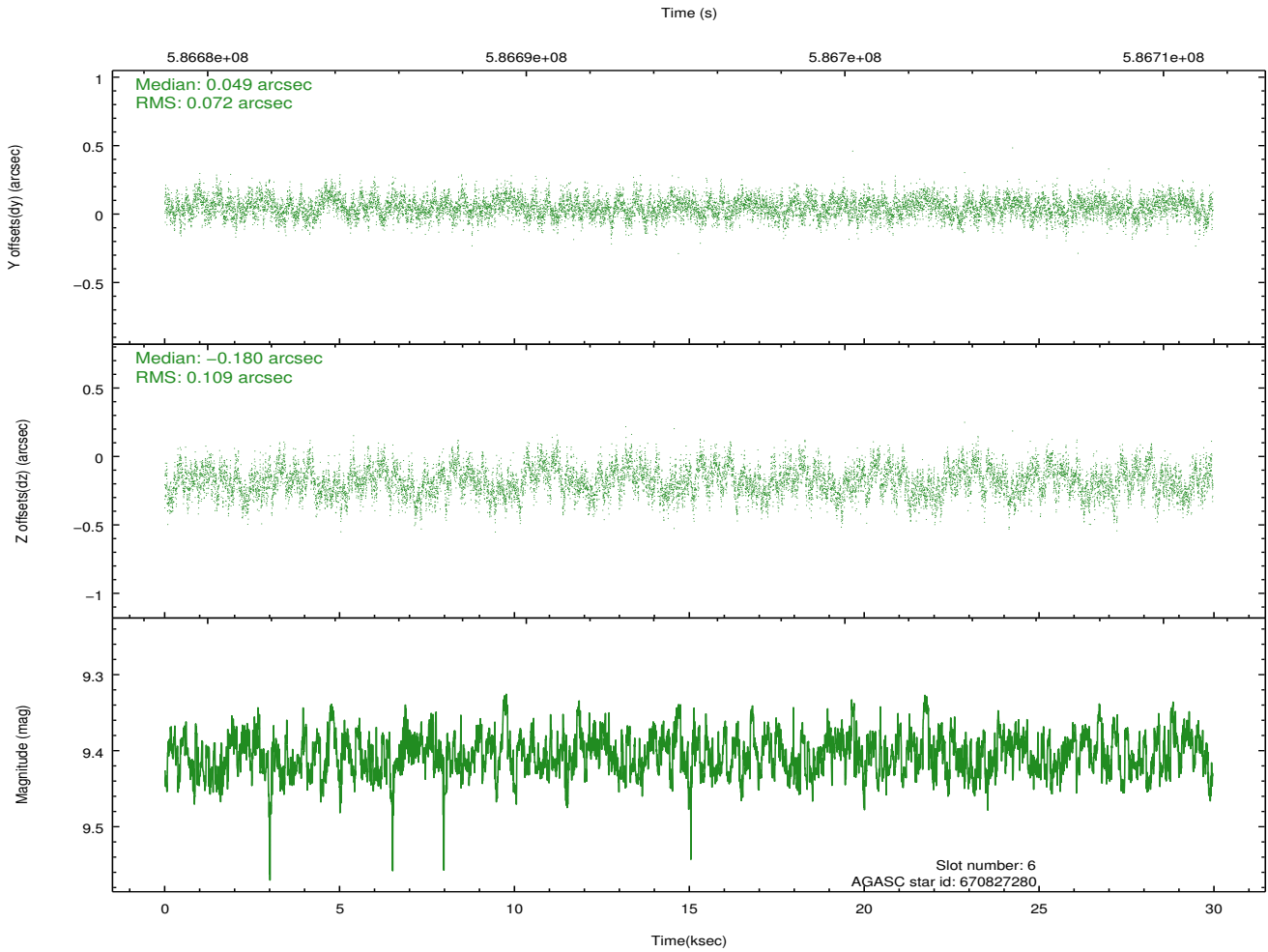
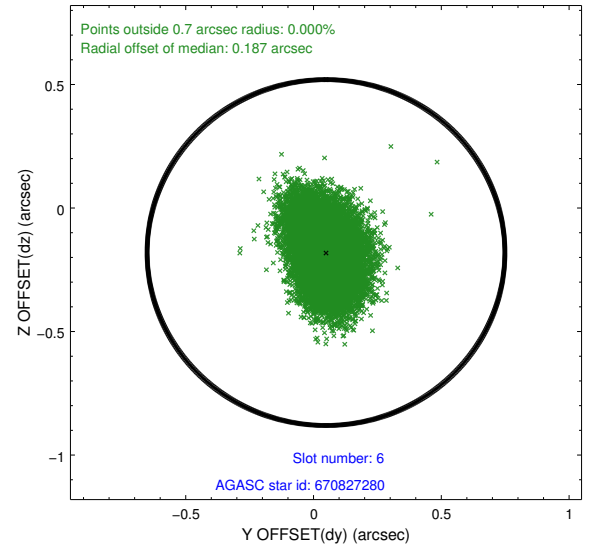
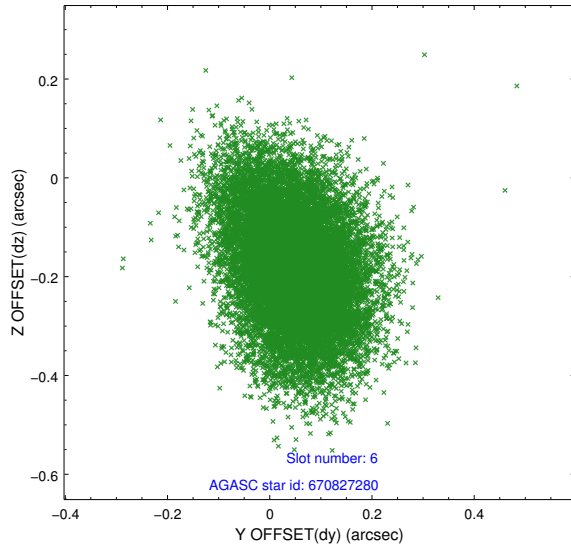
2.4.2 Slot 4



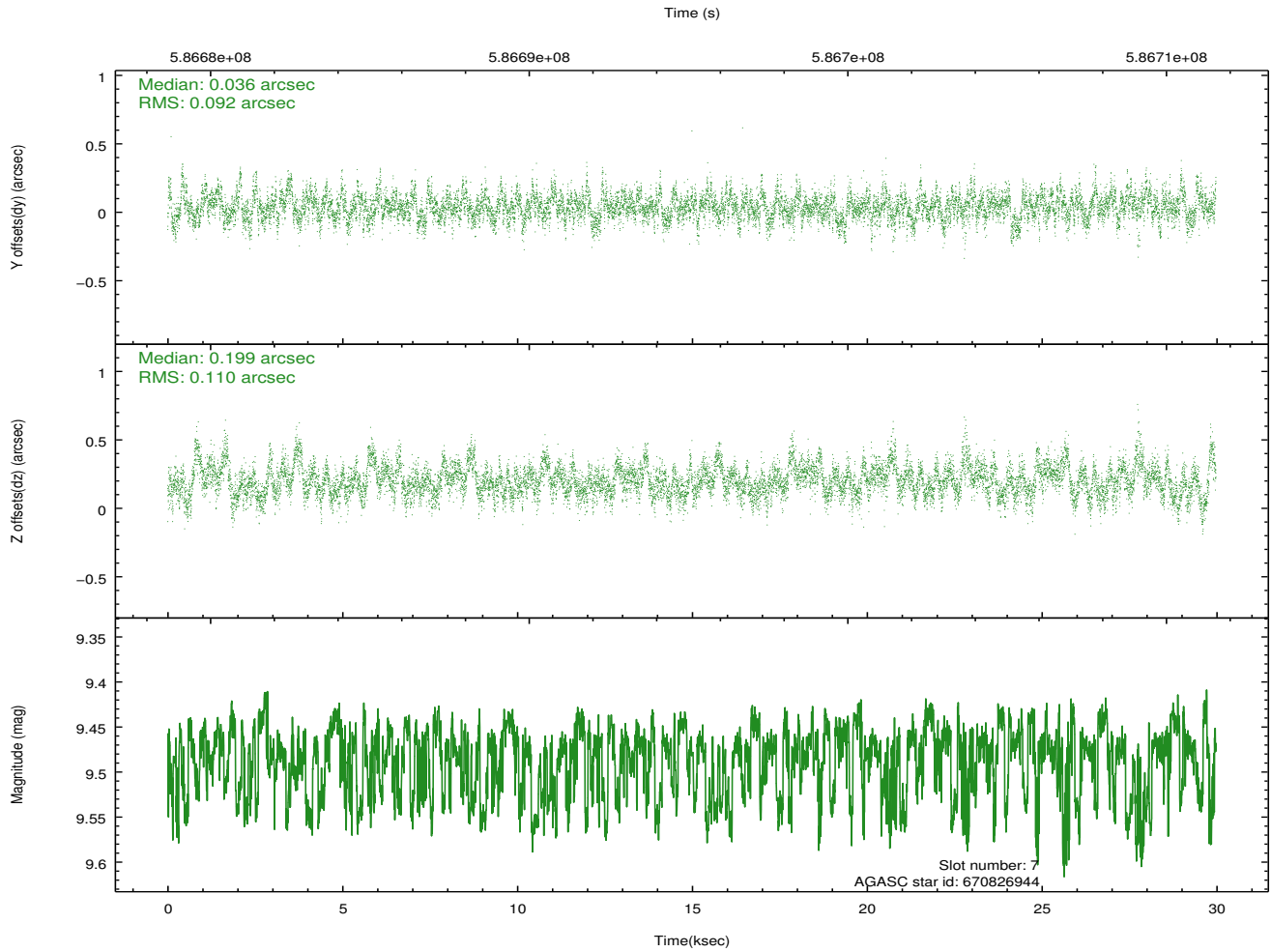
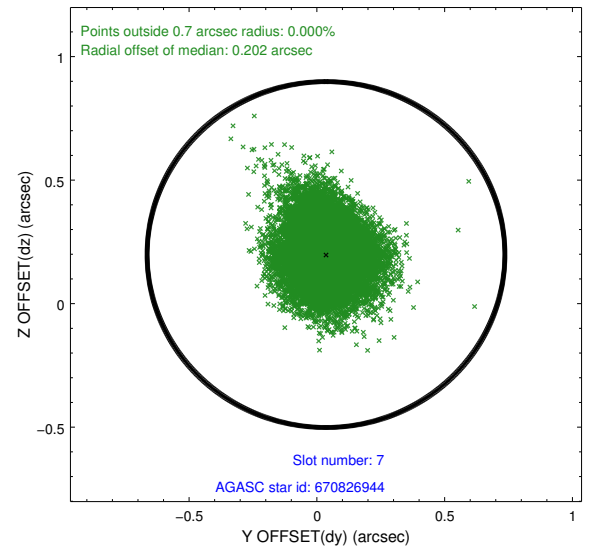
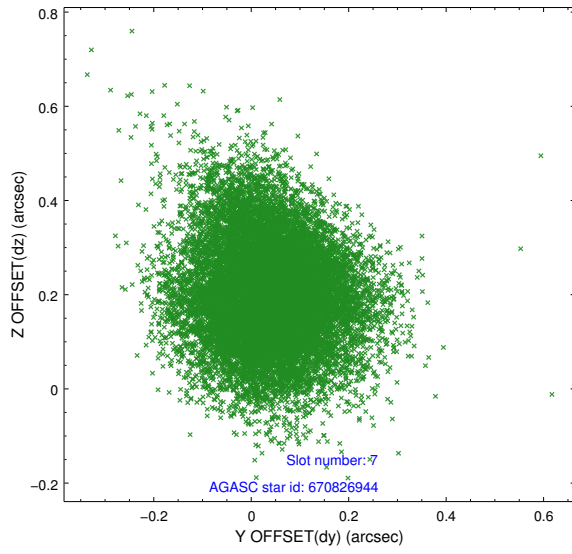
2.4.3 Slot 5



2.4.4 Slot 6

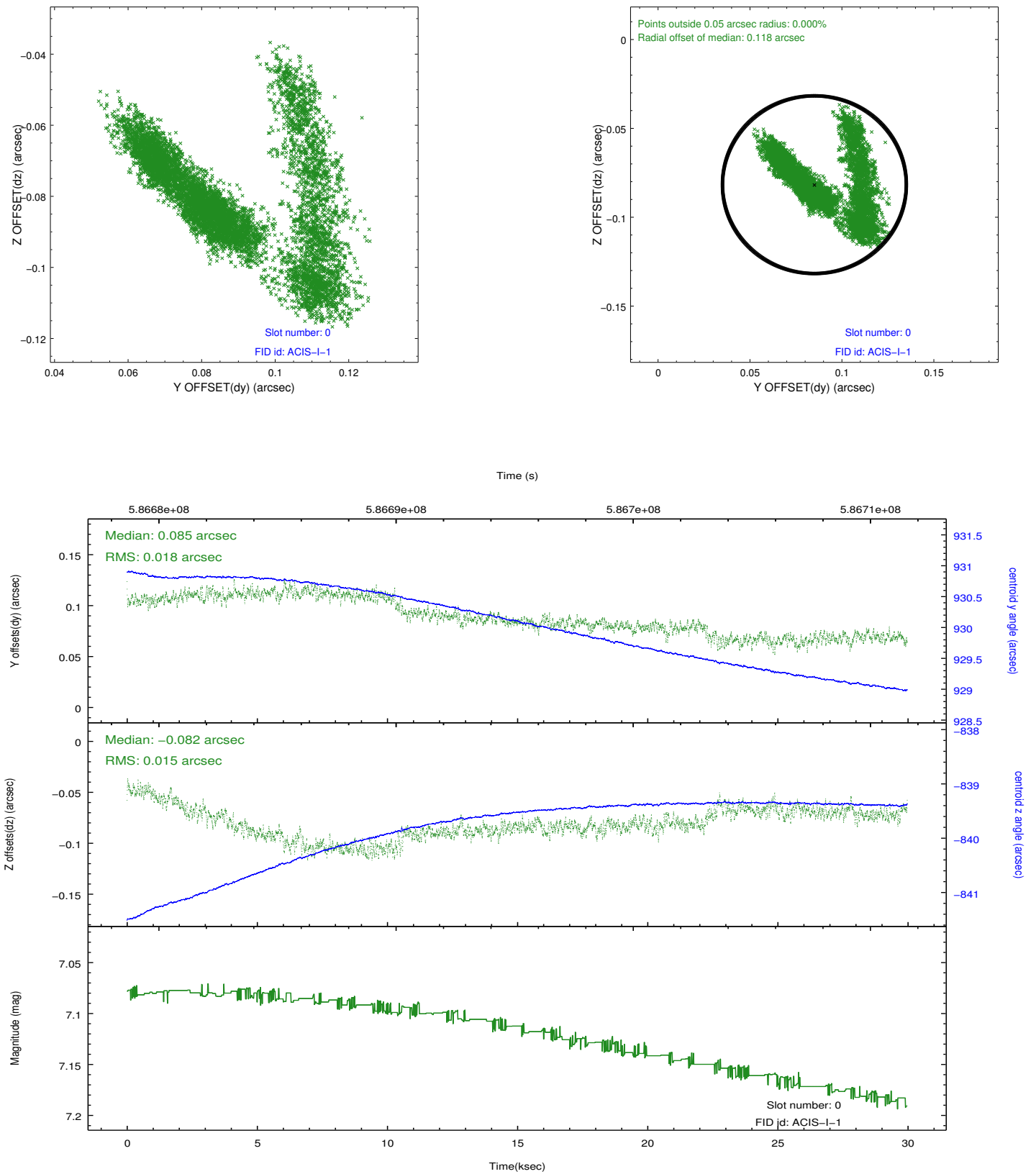


2.4.5 Slot 7

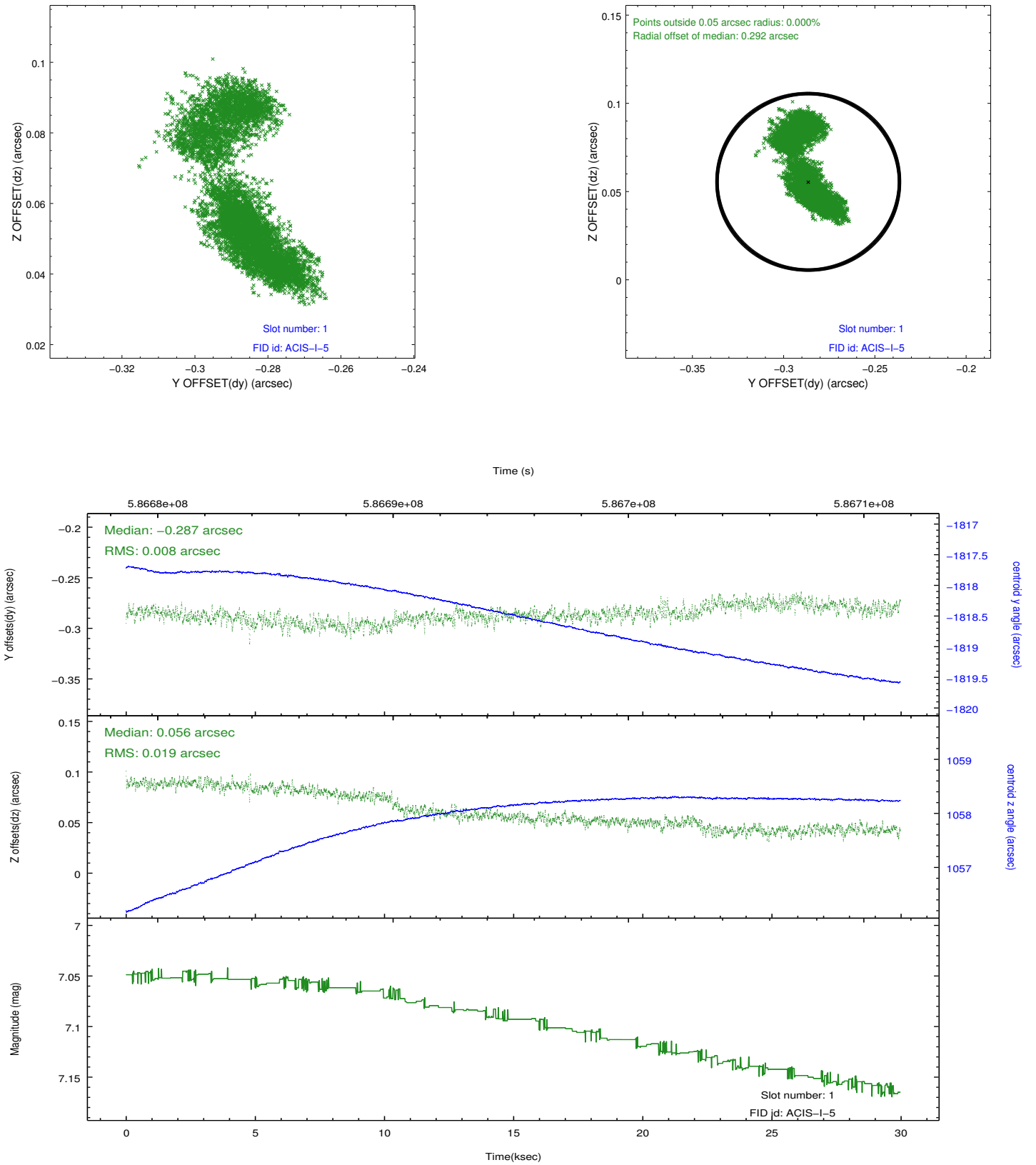


2.5 FID Slots

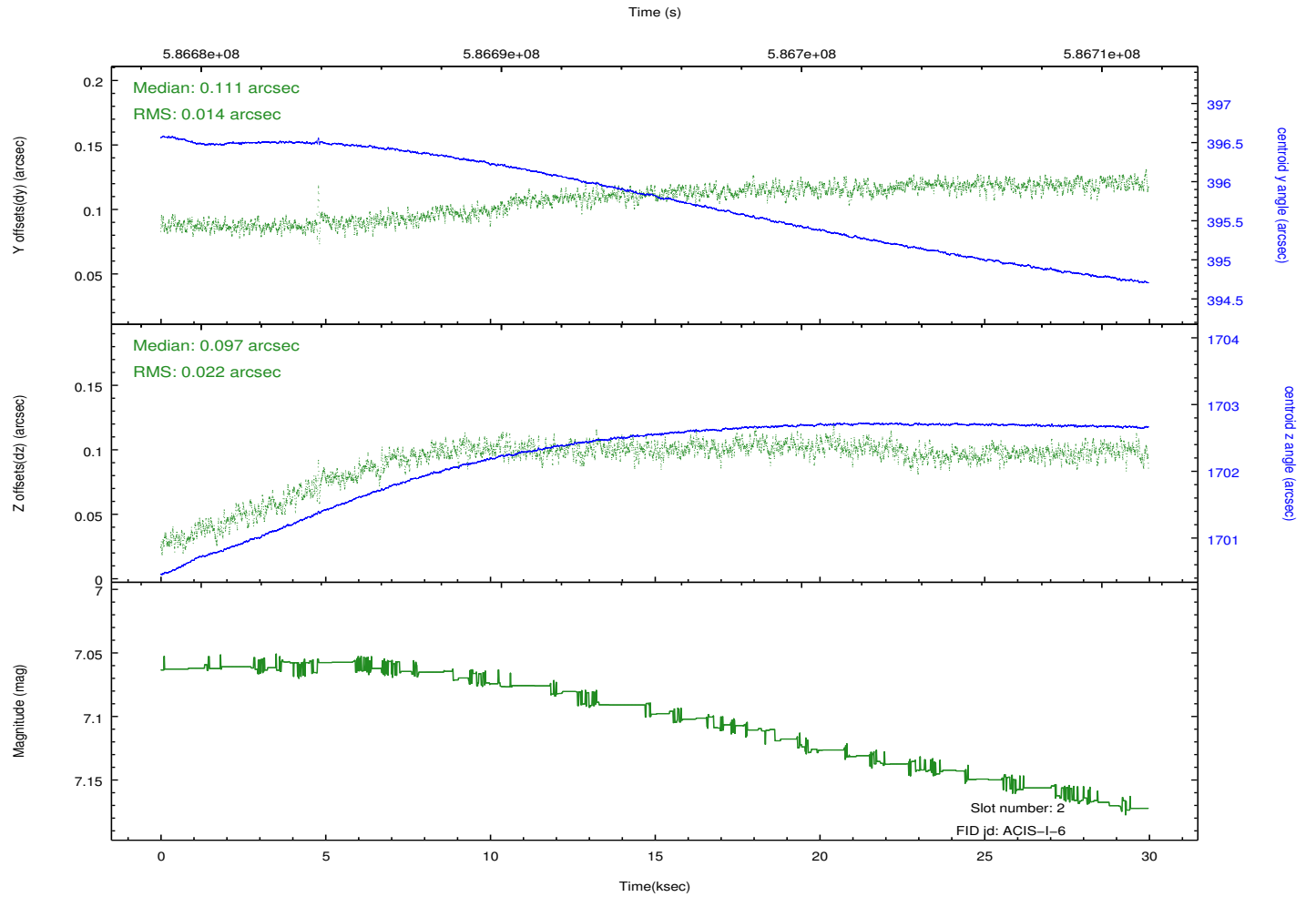
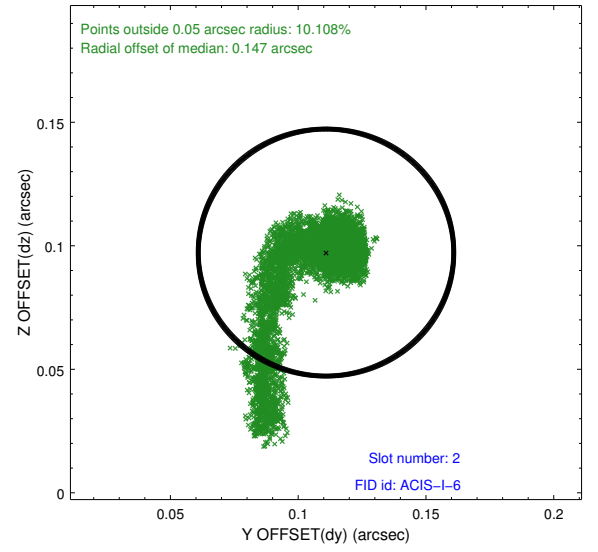
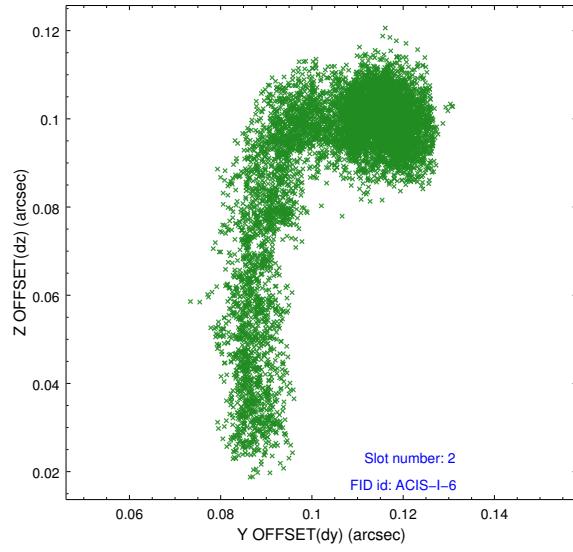
2.5.1 Slot 0



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)	2016.08.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.908800230145

A.2 Comments

Optional chip S2 not included.