

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18868 - L2 Version 1
Chandra X-Ray Center

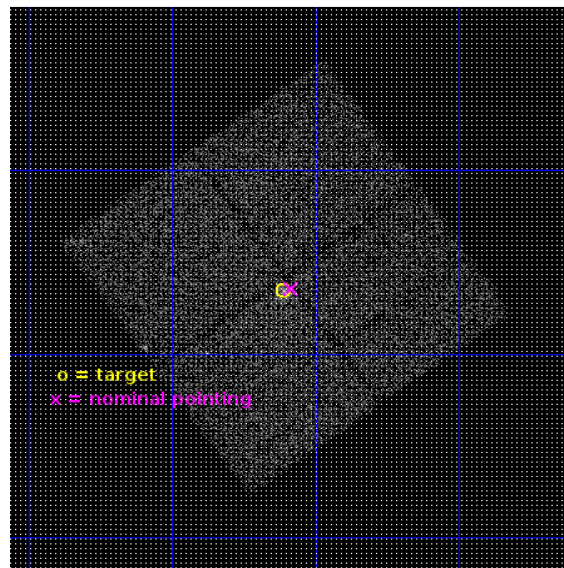
L2 Processing Date : Jun 14 2016

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1 Front

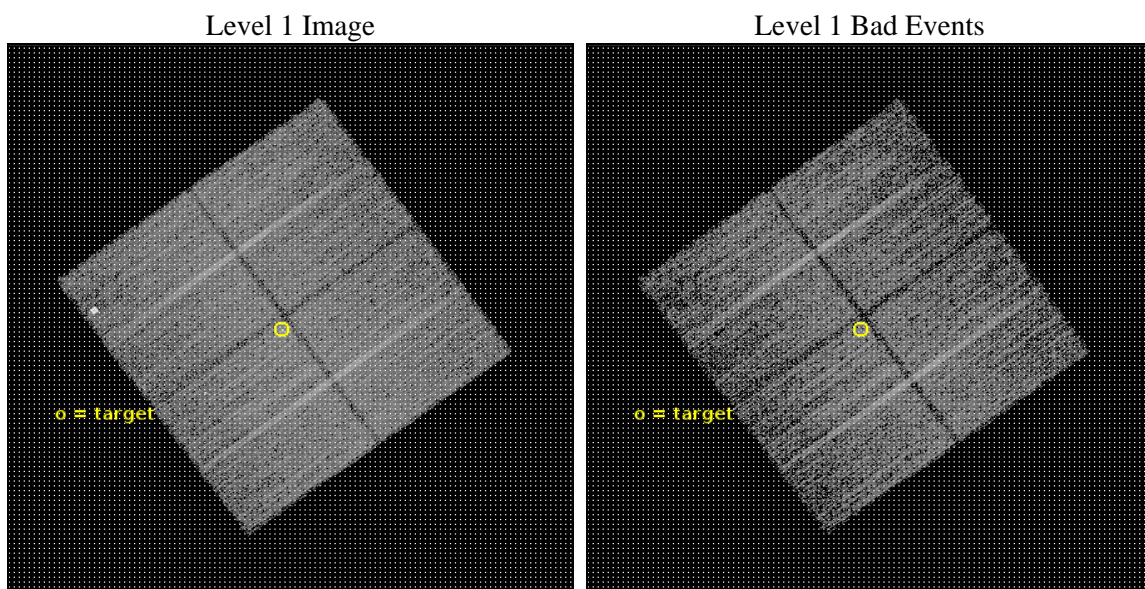
seq_num	201028	Sequence number
obs_id	18868	Observation id
title	Into the Maelstrom of W43	Proposal title
observer	Leisa Townsley	Principal investigator
object	W43-Main	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	281.902917	Observer's specified target RA [deg]
dec_targ	-1.942639	Observer's specified target Dec [deg]
ra_nom	281.89587390271	Nominal RA [deg]
dec_nom	-1.940707054041	Nominal Dec [deg]
roll_nom	144.20841514063	Nominal Roll [deg]
revision	1	Processing version of data
ontime	14070.859048247	Sum of GTIs [s]
livetime	13887.012915966	Livetime [s]
ontime0	14074.000108361	Sum of GTIs [s]
ontime1	14074.000108361	Sum of GTIs [s]
ontime2	14074.000108361	Sum of GTIs [s]
ontime3	14070.859048247	Sum of GTIs [s]
l2events	33274	Number of level 2 events



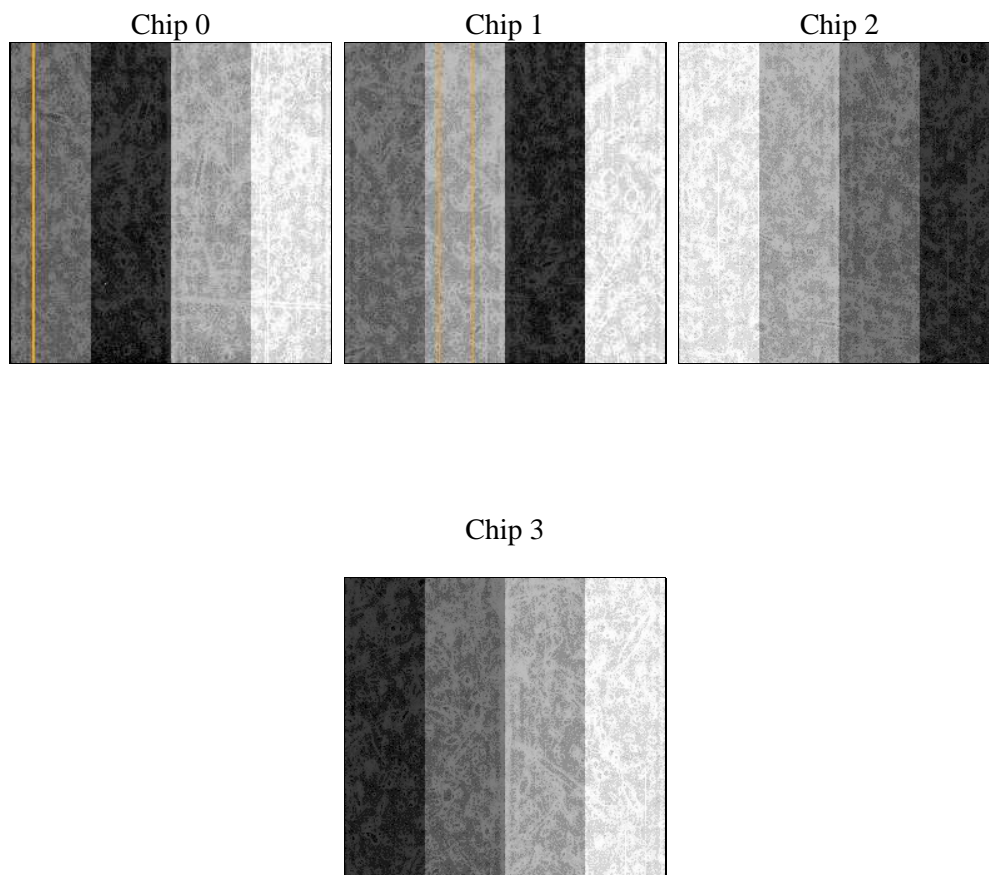
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14000.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	14070.859048247	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	14074.000108361	Sum of GTIs [s]
date	2016-06-15T00:10:48	Date and time of file creation	ontime1	14074.000108361	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	14074.000108361	Sum of GTIs [s]
			ontime3	14070.859048247	Sum of GTIs [s]
			l1events	335192	Number of level 1 events

2.1.4 Events

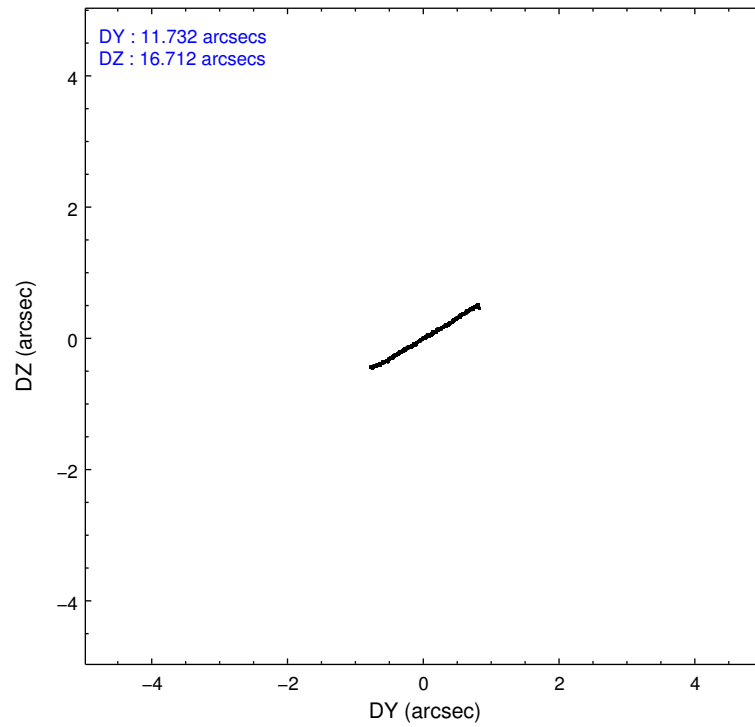
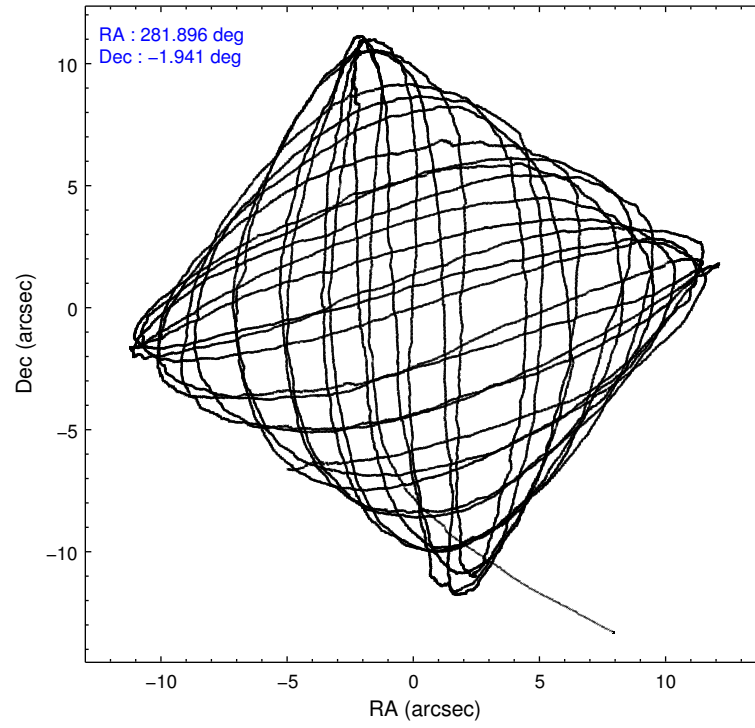
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	78101	83912	85637	87542
rejected events	68616	69722	76509	76795
rejected %	87%	83%	89%	87%

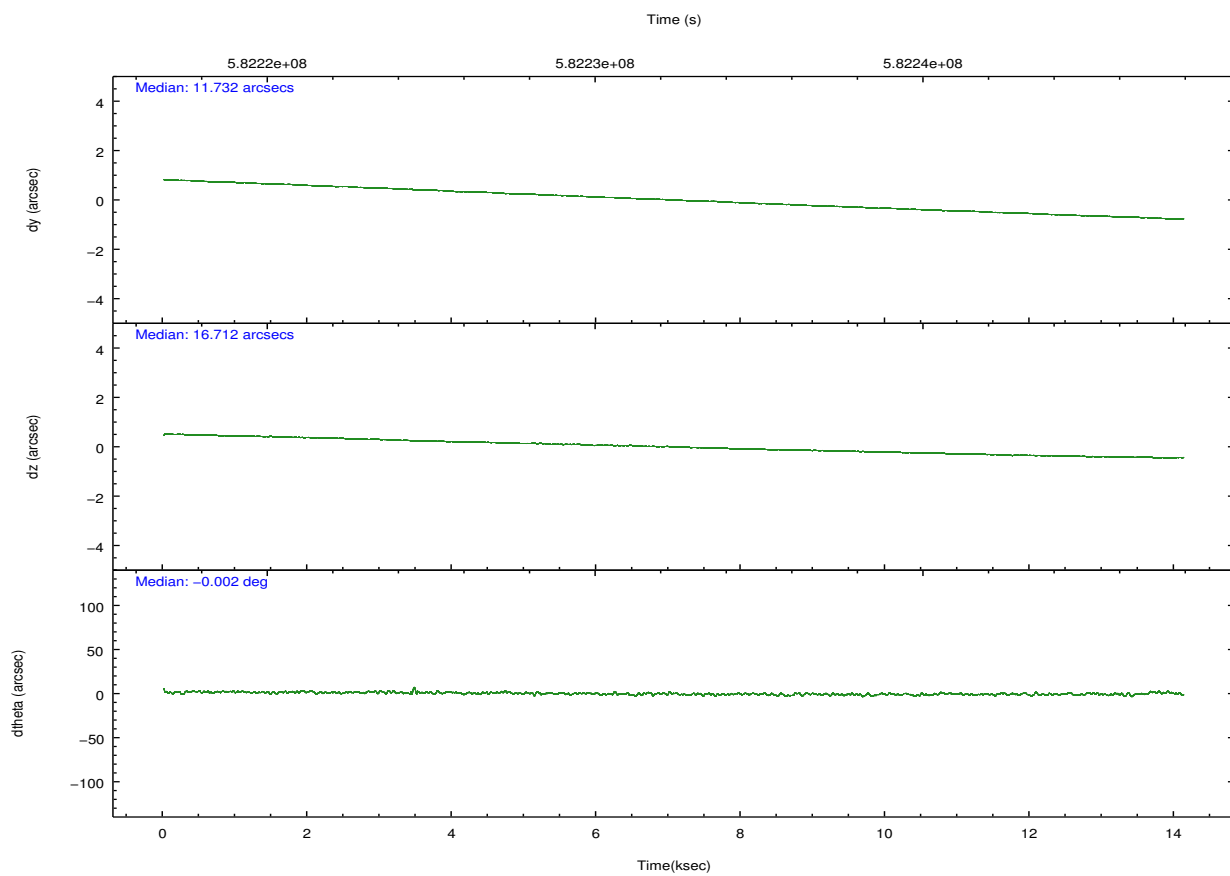
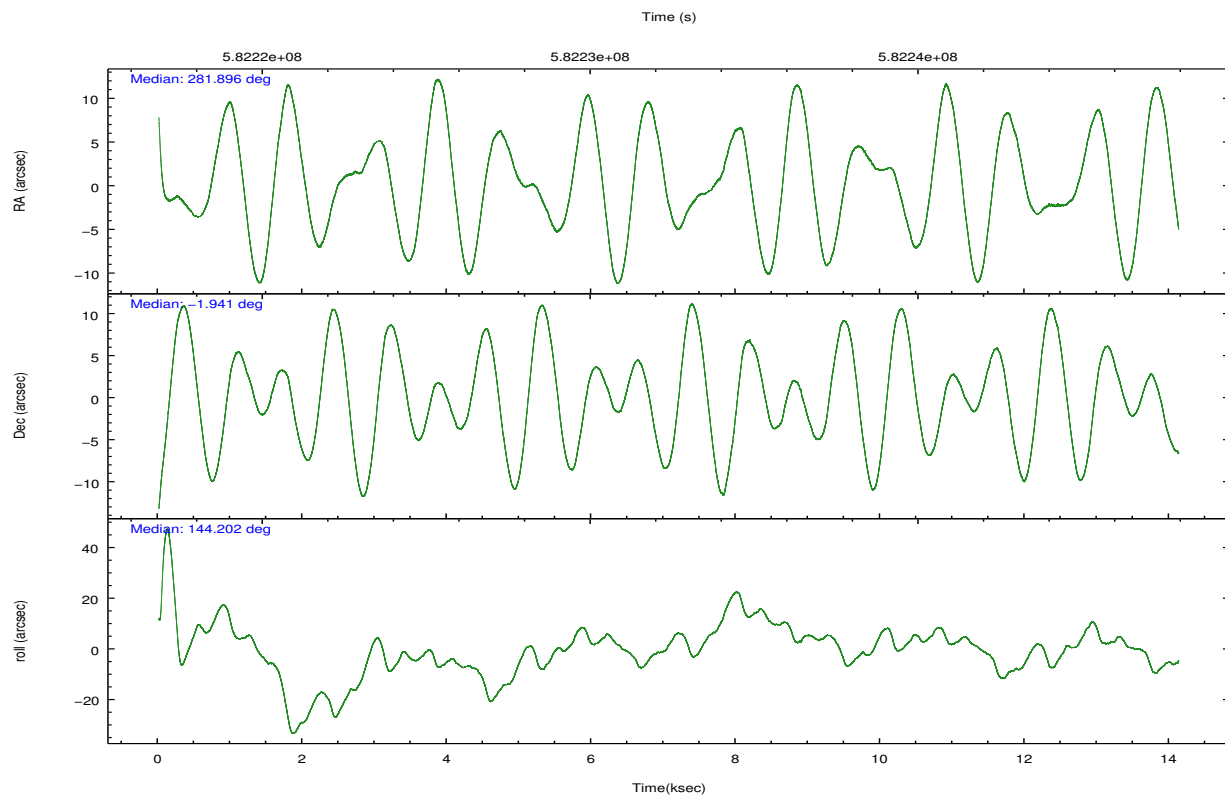
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	3495	7680	3611	4577
	4%	9%	4%	5%
grade 1 events	44	52	62	49
	0%	0%	0%	0%
grade 2 events	2251	2390	2106	2128
	2%	2%	2%	2%
grade 3 events	934	934	904	1045
	1%	1%	1%	1%
grade 4 events	933	928	894	1009
	1%	1%	1%	1%
grade 5 events	3038	3150	2879	3509
	3%	3%	3%	4%
grade 6 events	1874	2262	1620	1992
	2%	2%	1%	2%
grade 7 events	65532	66516	73561	73233
	83%	79%	85%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	281.923355	281.8958739027115	CCD I2 on	Y	Y
[deg] Pointing Dec	-1.943379	-1.940707054041019	CCD I3 on	Y	Y
[deg] Pointing Roll	144.000690	144.2084151406315	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	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	582224271.184000	582222493.46201	CCD S5 on	N	N
Observation start date	2016-06-13T16:56:43	2016-06-13T16:28:13	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	582238271.184000	582238925.75045	On-chip summing requested	N	N
Observation end date	2016-06-13T20:50:03	2016-06-13T21:02:05	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



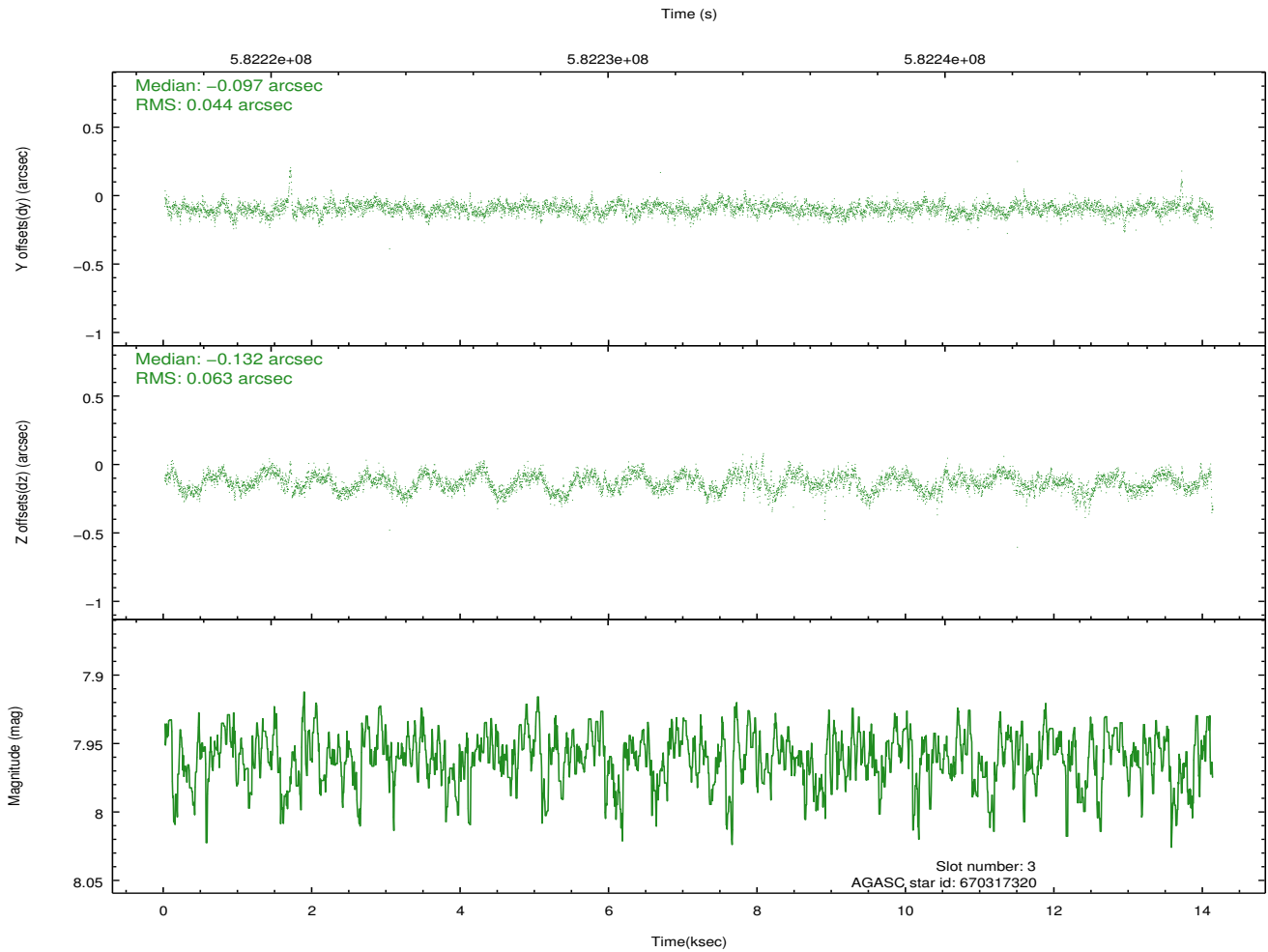
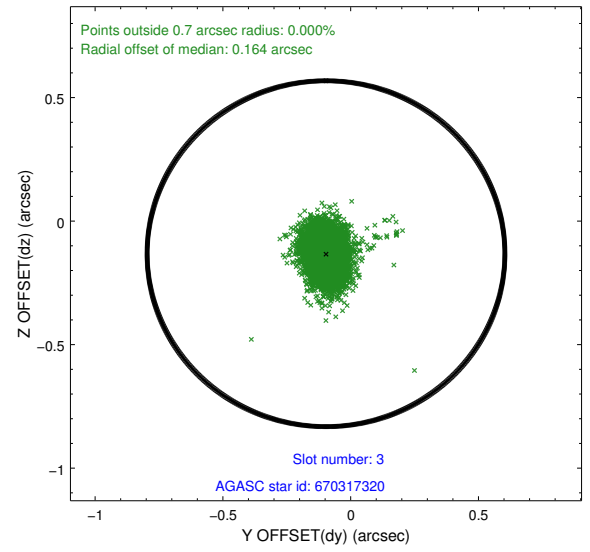
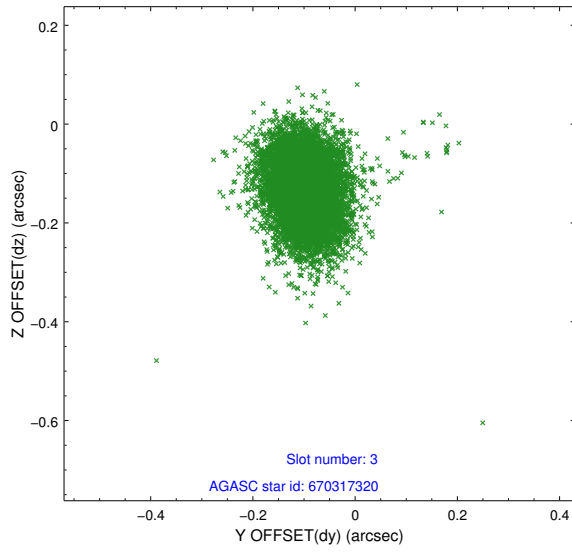


Slot Statistics

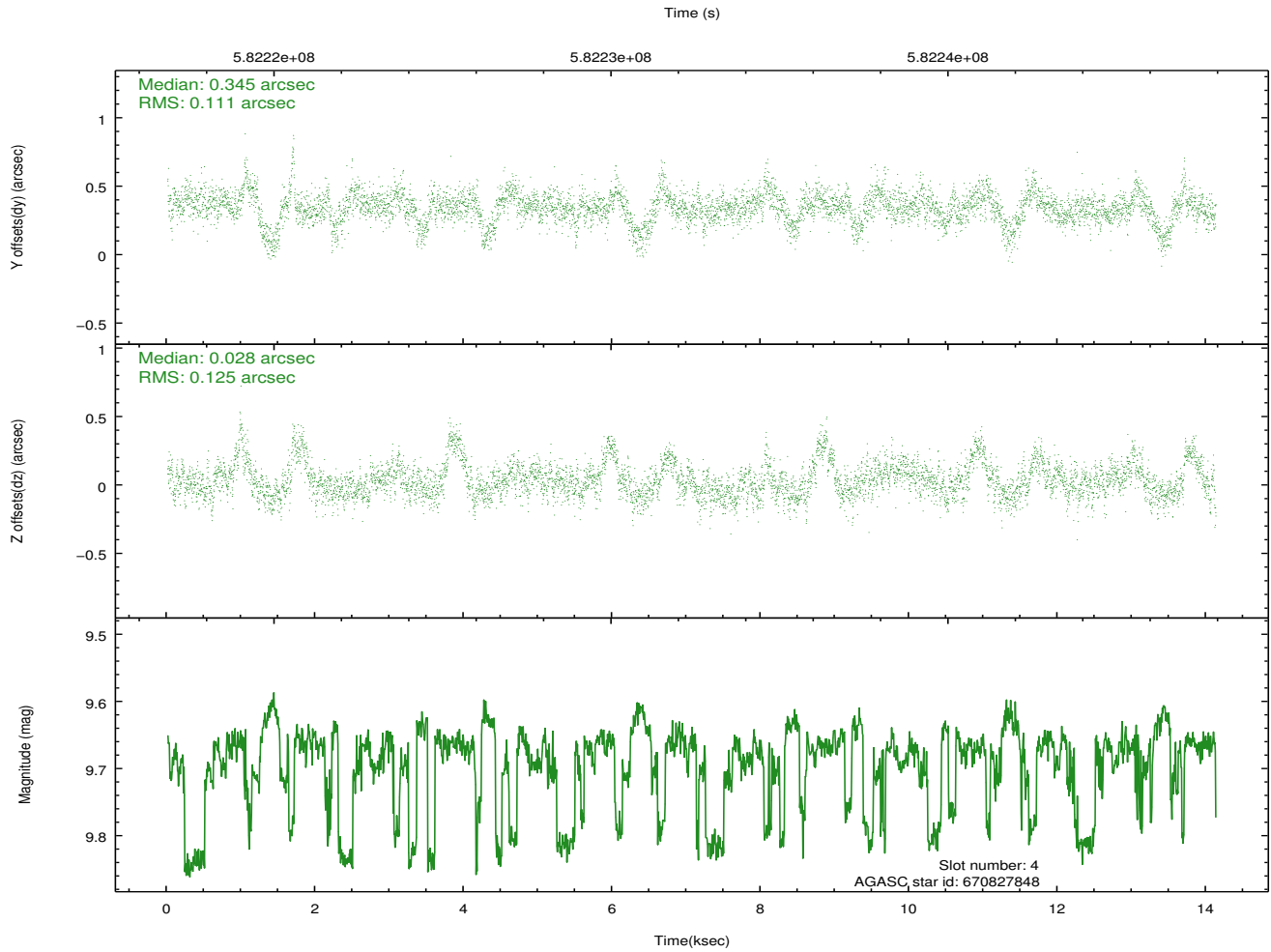
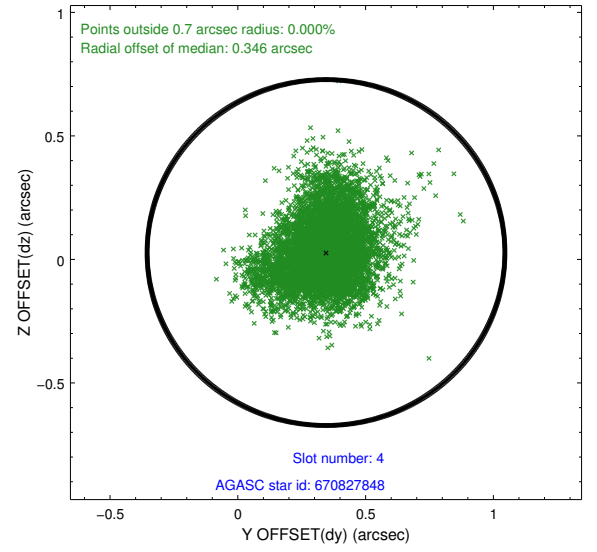
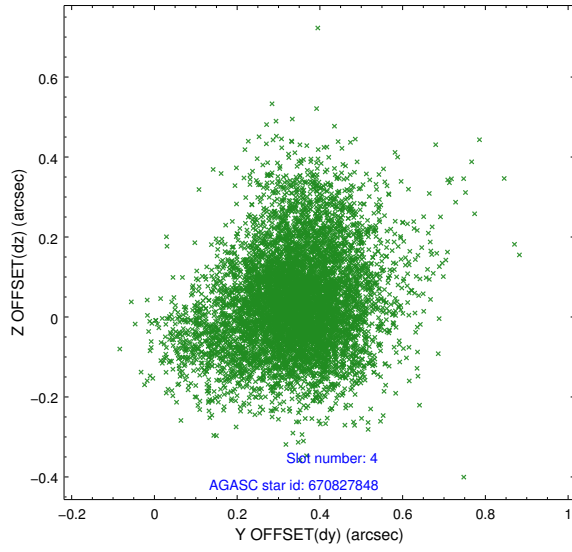
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	3444	0.003	-0.043	0.015	0.025	0.000000	0.000000	927.81	-840.41
1	FID		ACIS-I-2	7.16	3442	-0.330	-0.124	0.012	0.019	0.000000	0.000000	-766.43	-847.08
2	FID		ACIS-I-4	7.18	3444	0.230	0.236	0.019	0.031	0.000000	0.000000	2147.78	1059.50
3	GUIDE	used	670317320	7.96	6884	-0.097	-0.132	0.080	0.132	281.764311	-1.843342	674.90	45.37
4	GUIDE	used	670827848	9.68	6879	0.345	0.028	0.174	0.304	282.233886	-2.502228	-2085.78	971.48
5	GUIDE	used	670829768	7.54	6887	0.010	0.132	0.080	0.131	281.927934	-2.010470	-155.24	186.37
6	GUIDE	used	670698280	9.41	6839	-0.253	-0.030	0.163	0.360	281.071617	-2.124861	2094.36	2330.93
7	GUIDE	used	670827280	9.35	6882	-0.006	-0.013	0.123	0.203	281.434708	-1.976010	1353.49	1130.99

2.4 Star Slots

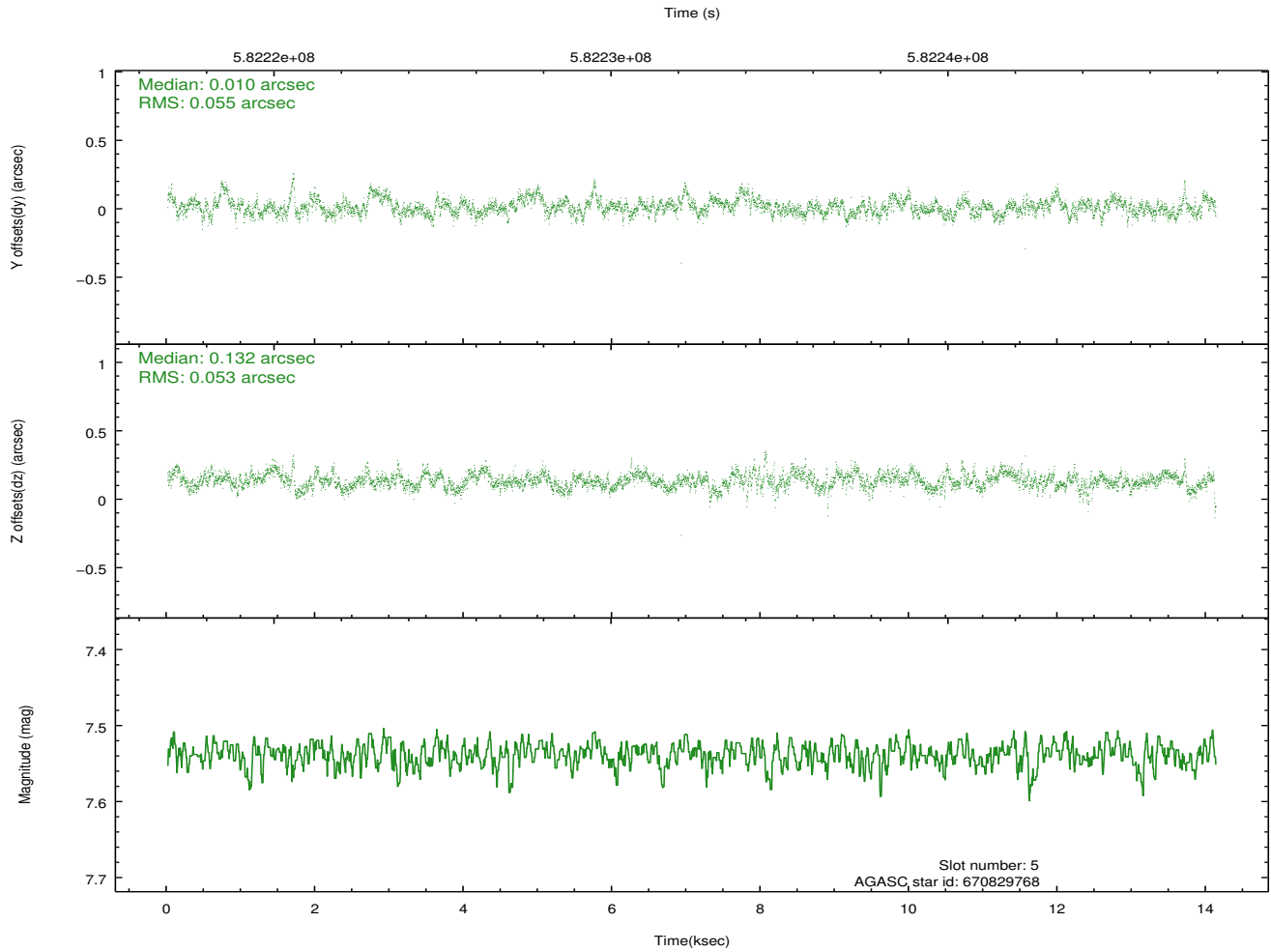
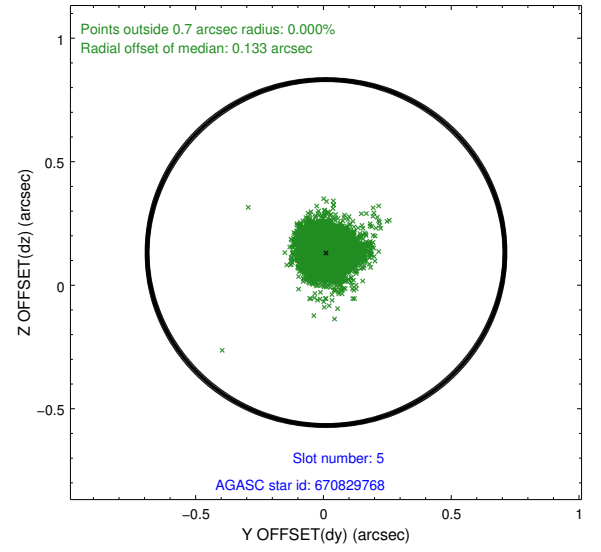
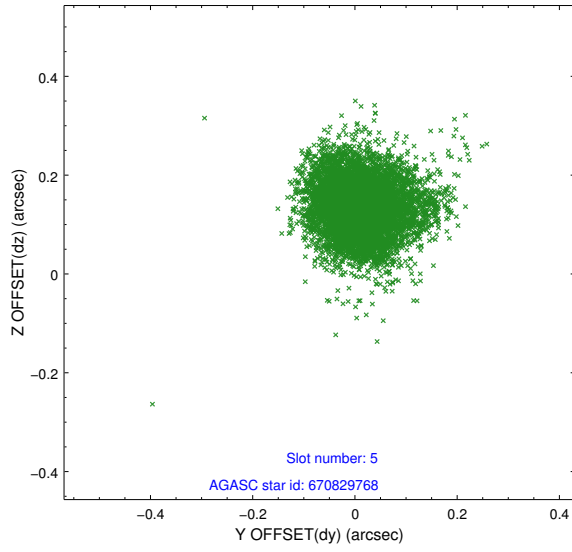
2.4.1 Slot 3



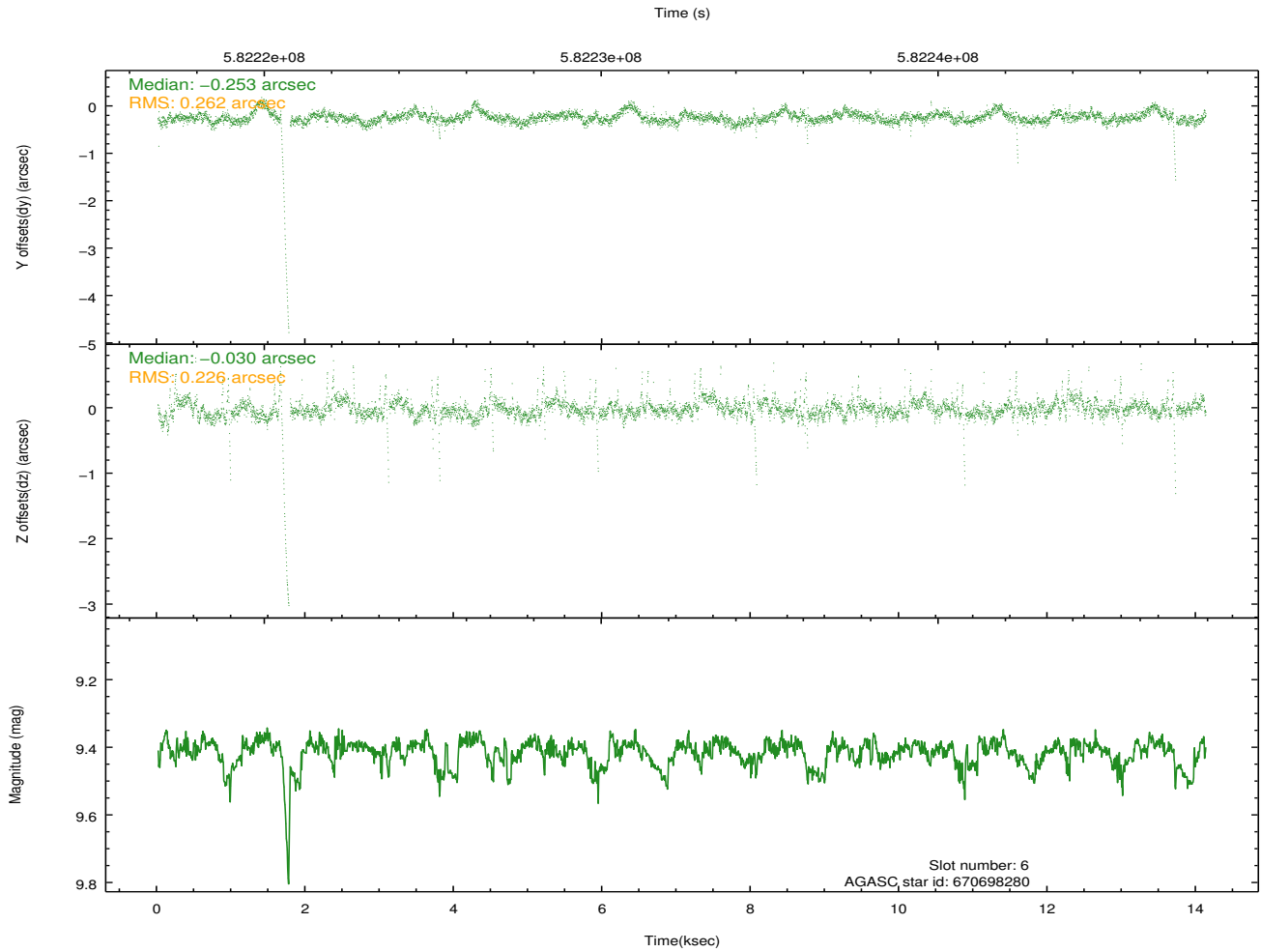
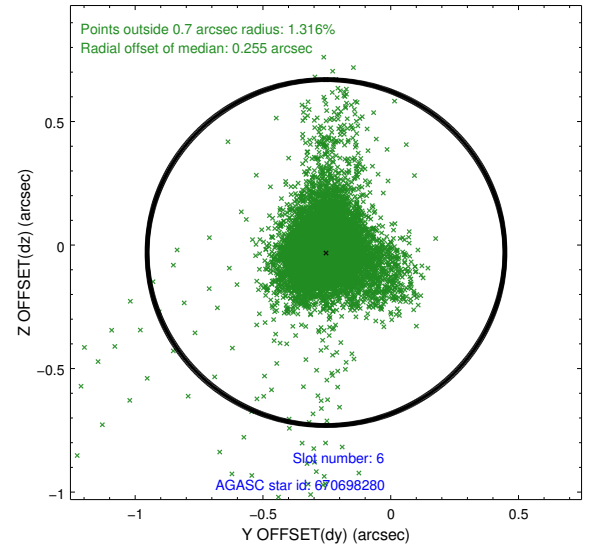
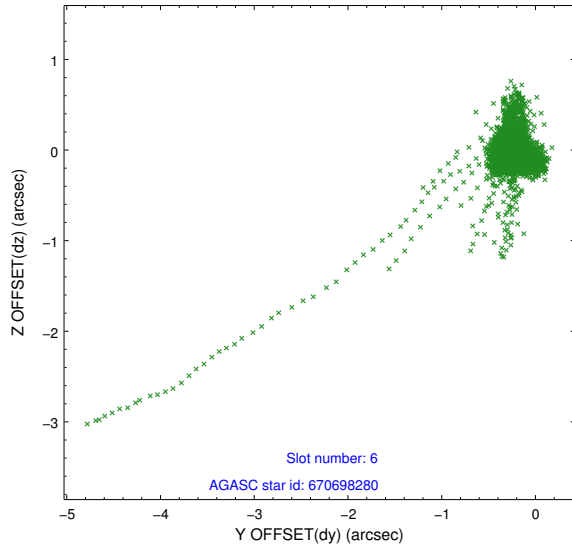
2.4.2 Slot 4



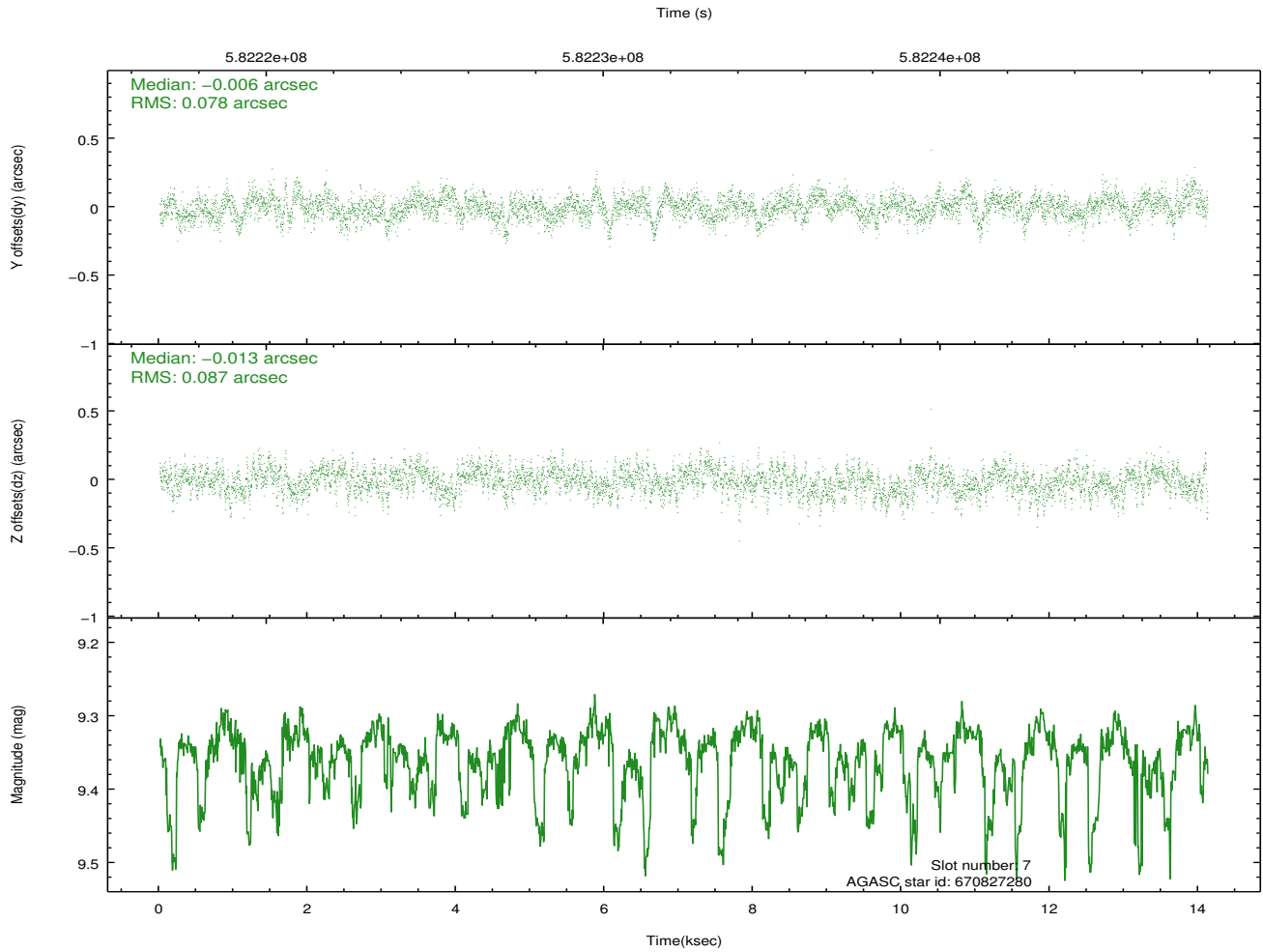
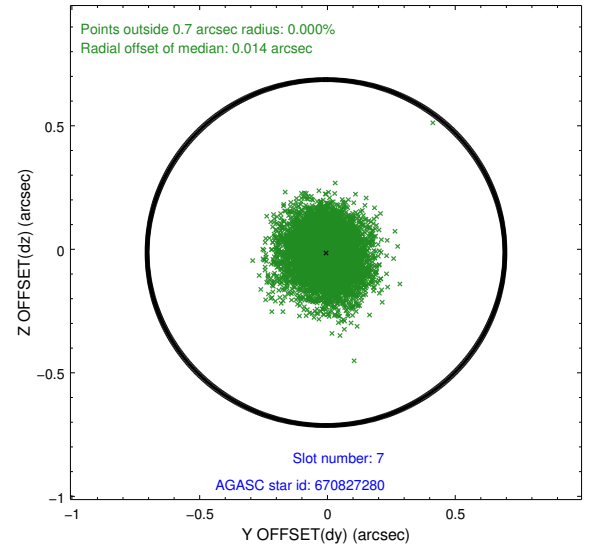
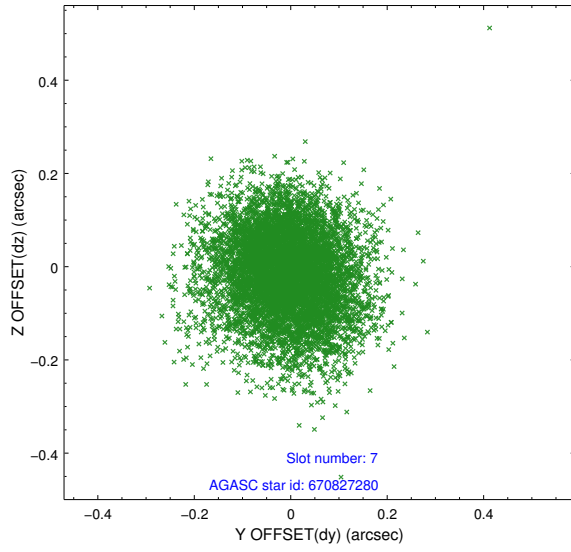
2.4.3 Slot 5



2.4.4 Slot 6

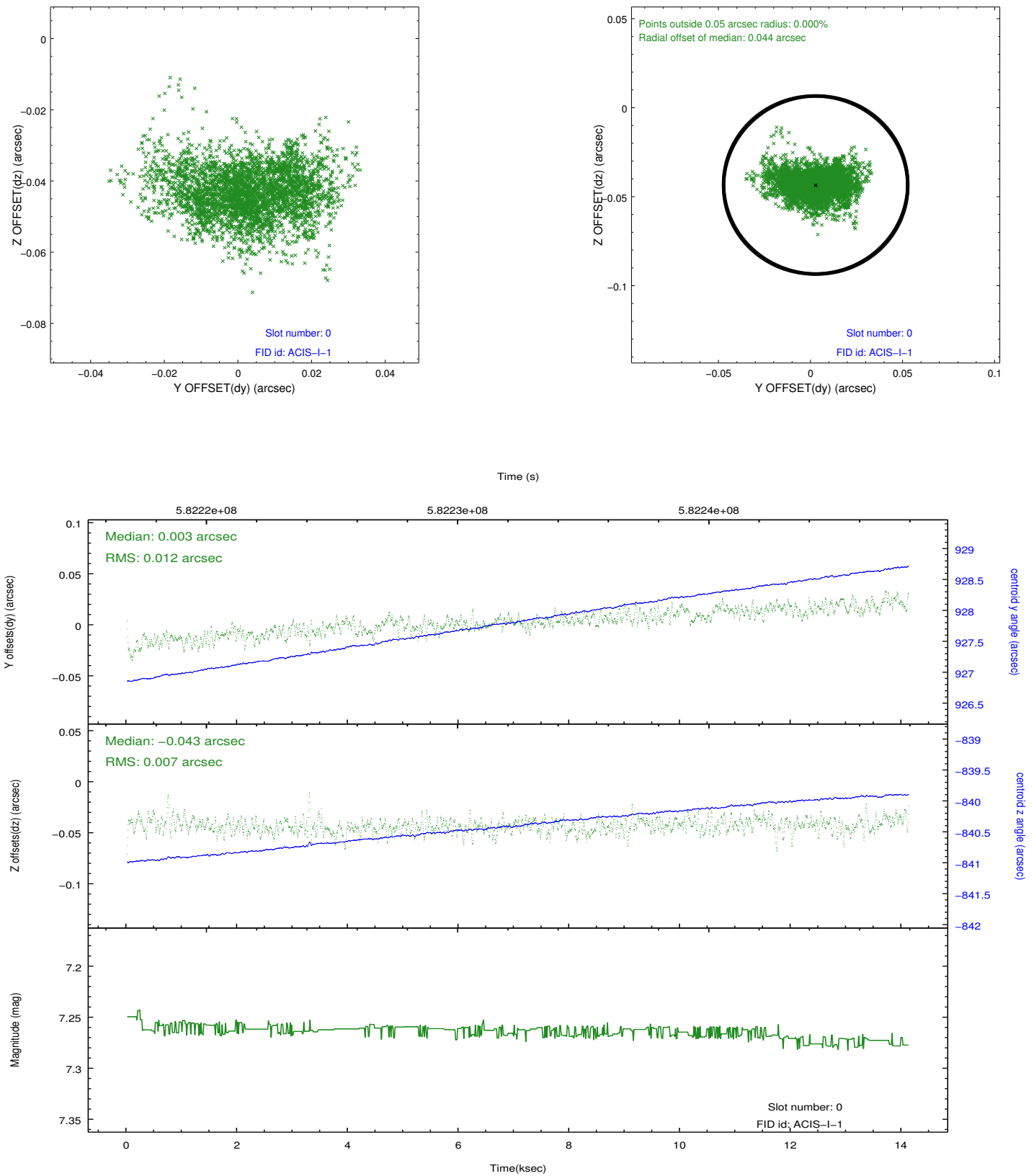


2.4.5 Slot 7

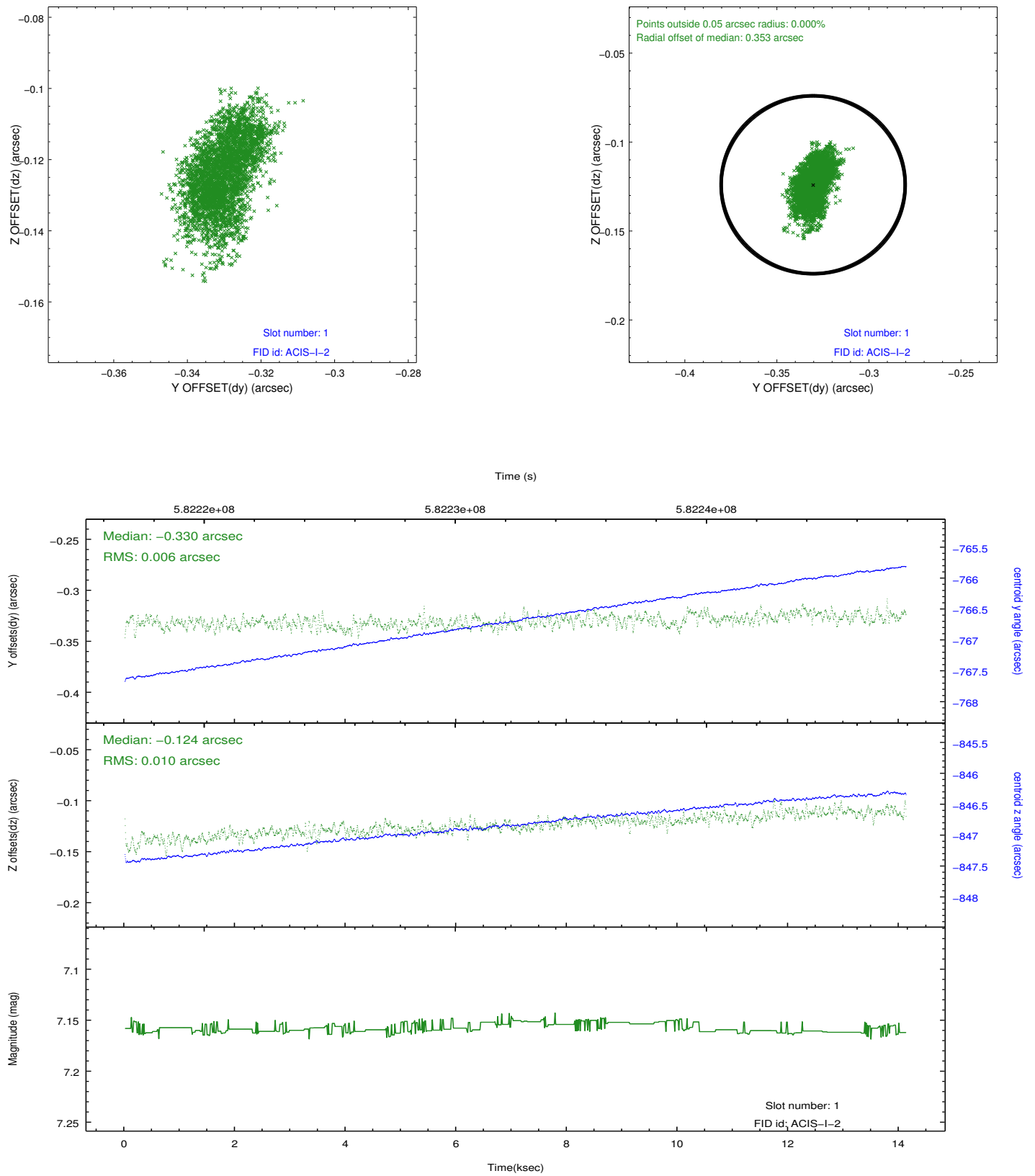


2.5 FID Slots

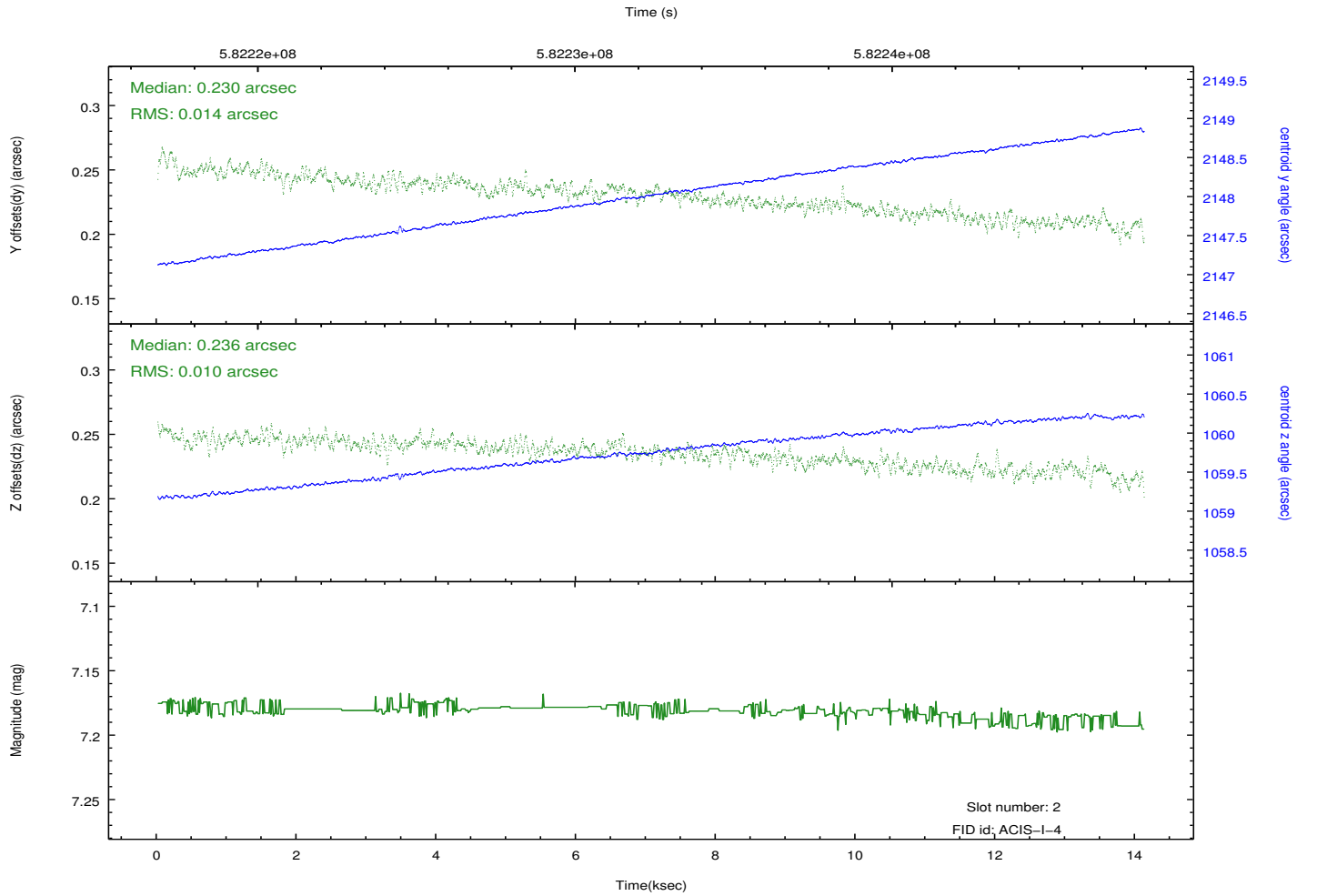
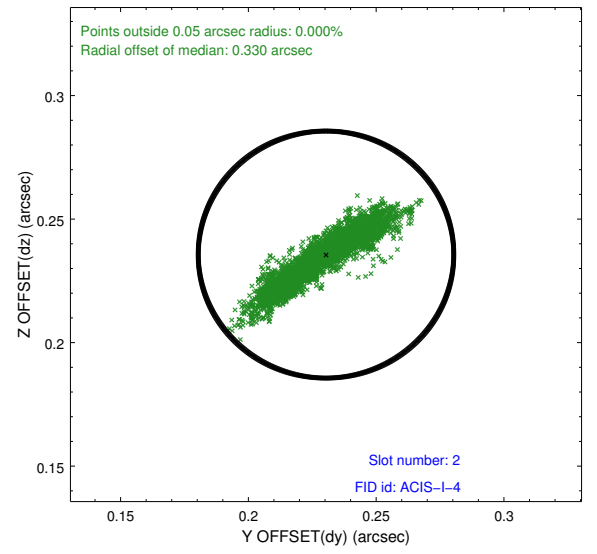
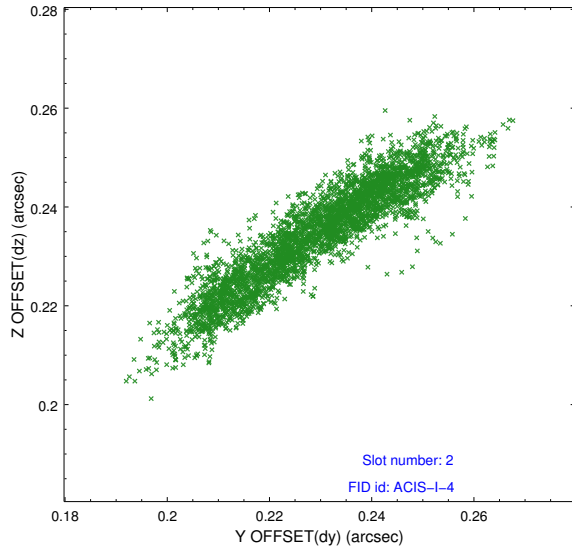
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.06.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.070859048247

A.2 Comments