

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18867 - L2 Version 1
Chandra X-Ray Center

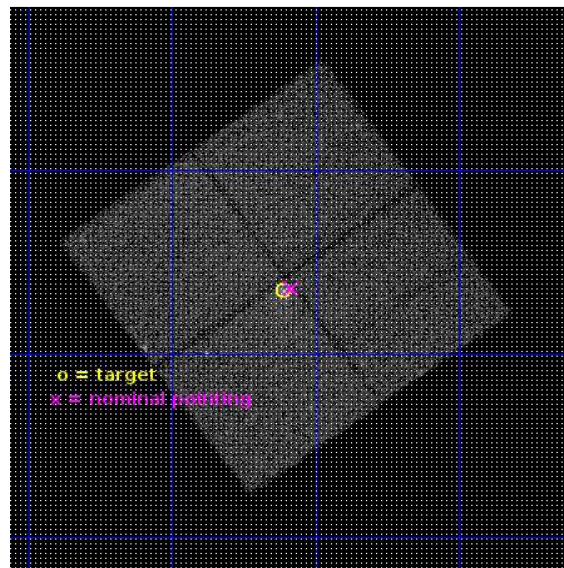
L2 Processing Date : Jun 17 2016

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1 Front

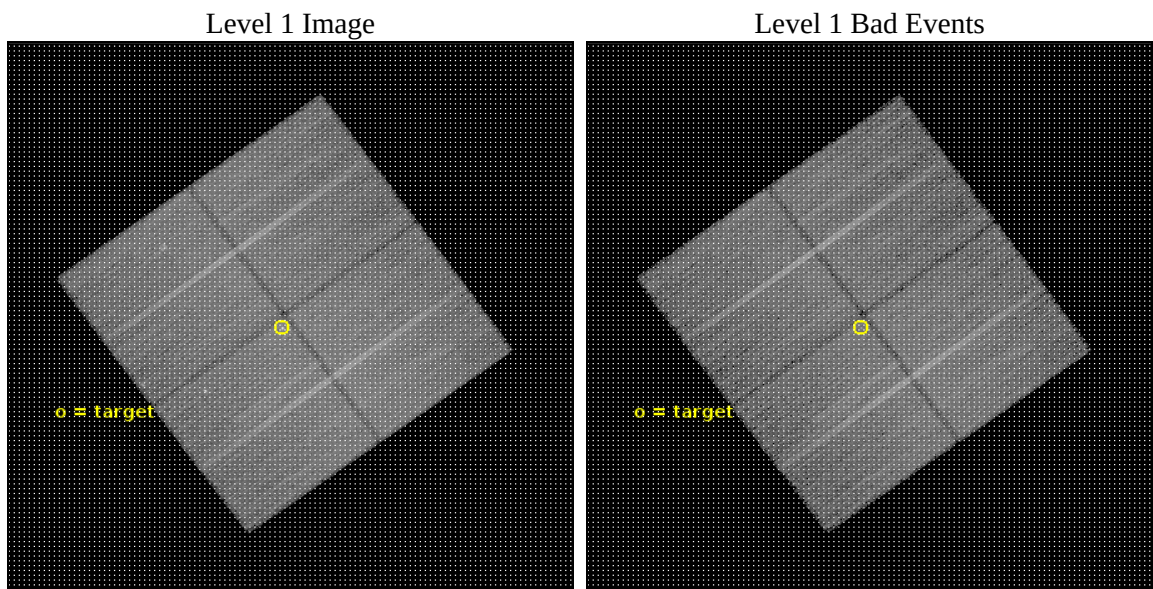
seq_num	201028	Sequence number
obs_id	18867	Observation id
title	Into the Maelstrom of W43	Proposal title
observer	Leisa Townsley	Principal investigator
object	W43-Main	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	281.902917	Observer's specified target RA [deg]
dec_targ	-1.942639	Observer's specified target Dec [deg]
ra_nom	281.89586311144	Nominal RA [deg]
dec_nom	-1.9406970026632	Nominal Dec [deg]
roll_nom	144.20847962682	Nominal Roll [deg]
revision	1	Processing version of data
ontime	48074.677199244	Sum of GTIs [s]
livetime	47446.546149574	Livetime [s]
ontime0	48084.10036993	Sum of GTIs [s]
ontime1	48077.818269491	Sum of GTIs [s]
ontime2	48084.10036993	Sum of GTIs [s]
ontime3	48074.677199244	Sum of GTIs [s]
l2events	110487	Number of level 2 events



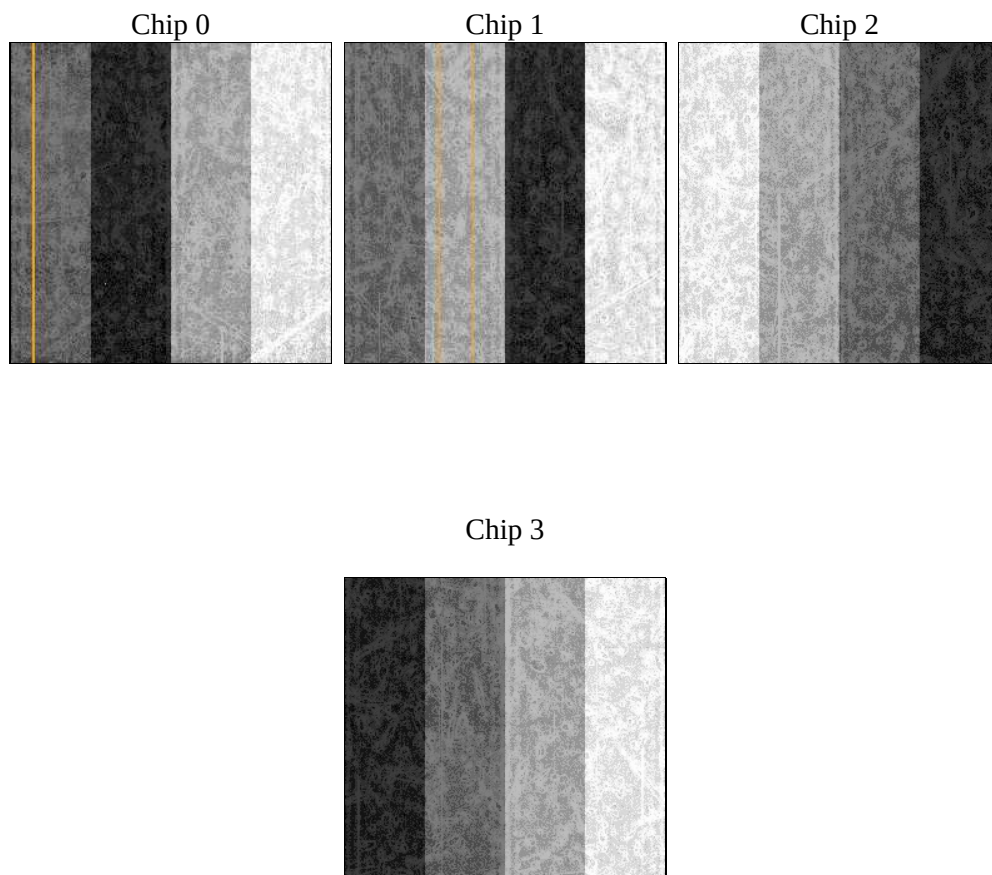
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	48000.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	48074.677199244	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	48084.10036993	Sum of GTIs [s]
date	2016-06-17T16:11:28	Date and time of file creation	ontime1	48077.818269491	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	48084.10036993	Sum of GTIs [s]
			ontime3	48074.677199244	Sum of GTIs [s]
			l1events	1079373	Number of level 1 events

2.1.4 Events

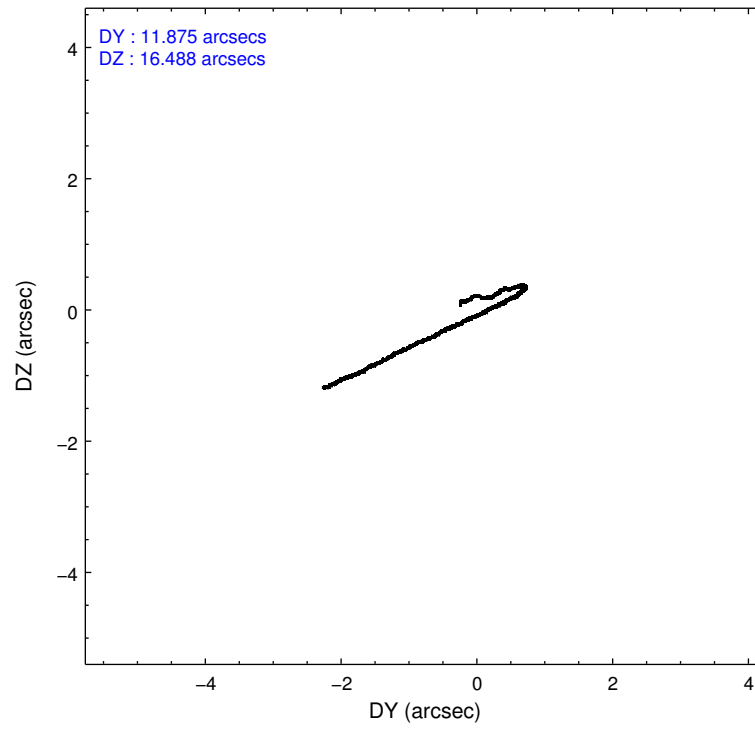
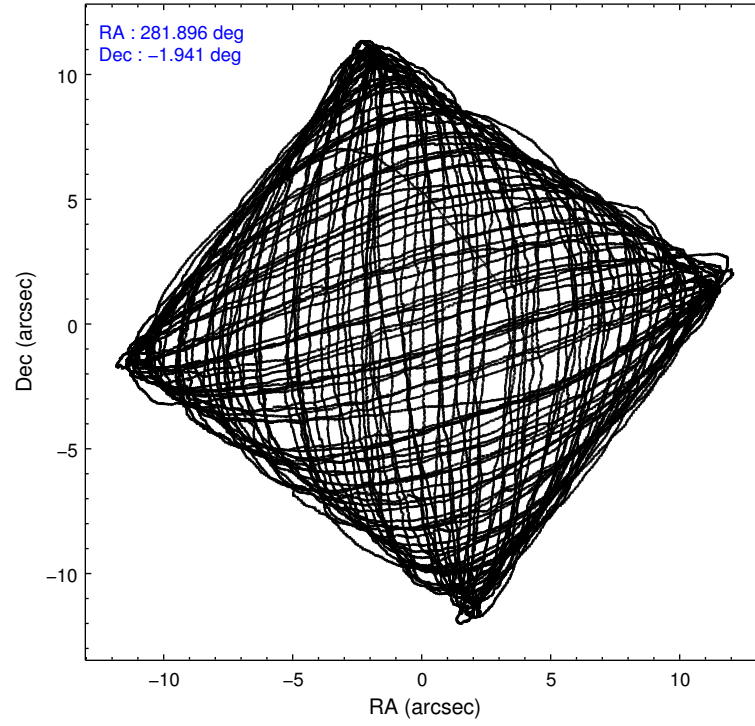
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	252769	260884	288962	276758
rejected events	221283	226863	258459	240890
rejected %	87%	86%	89%	87%

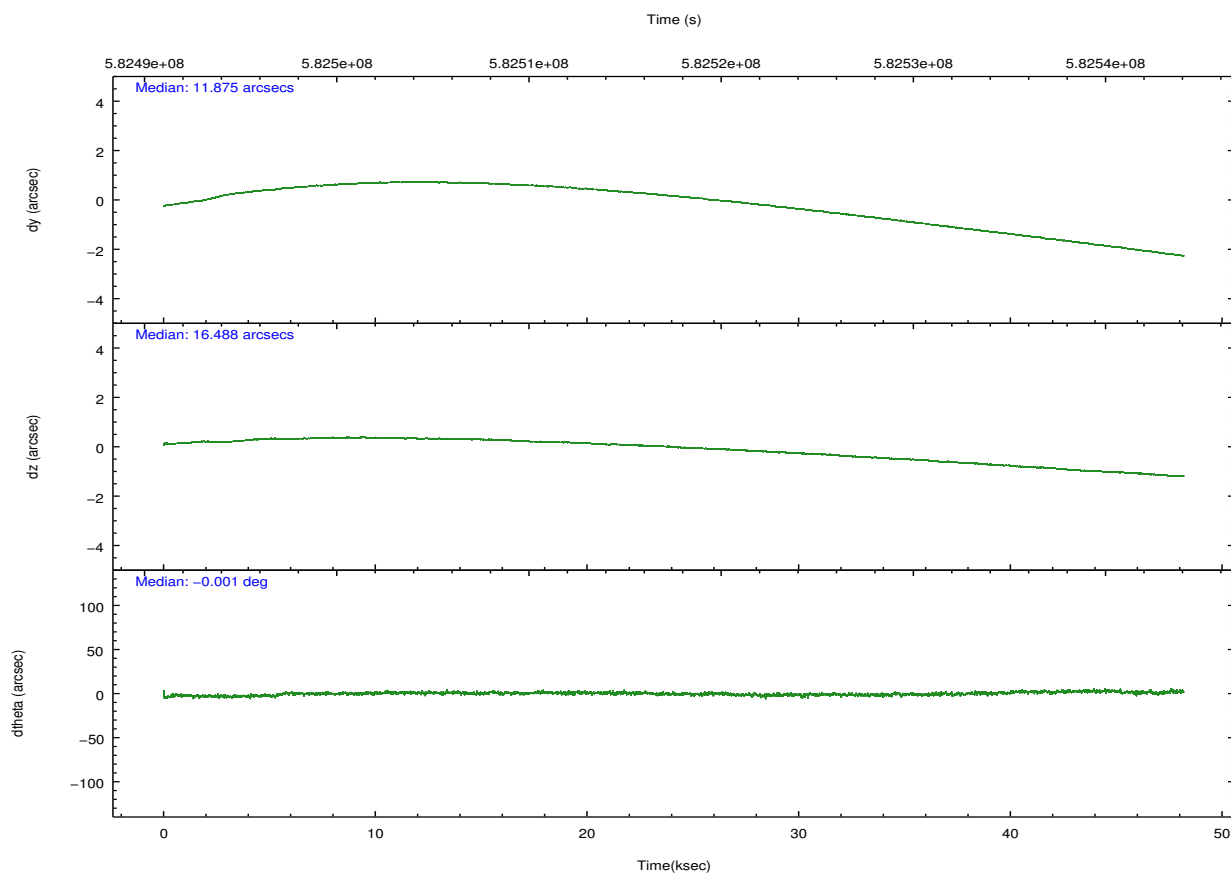
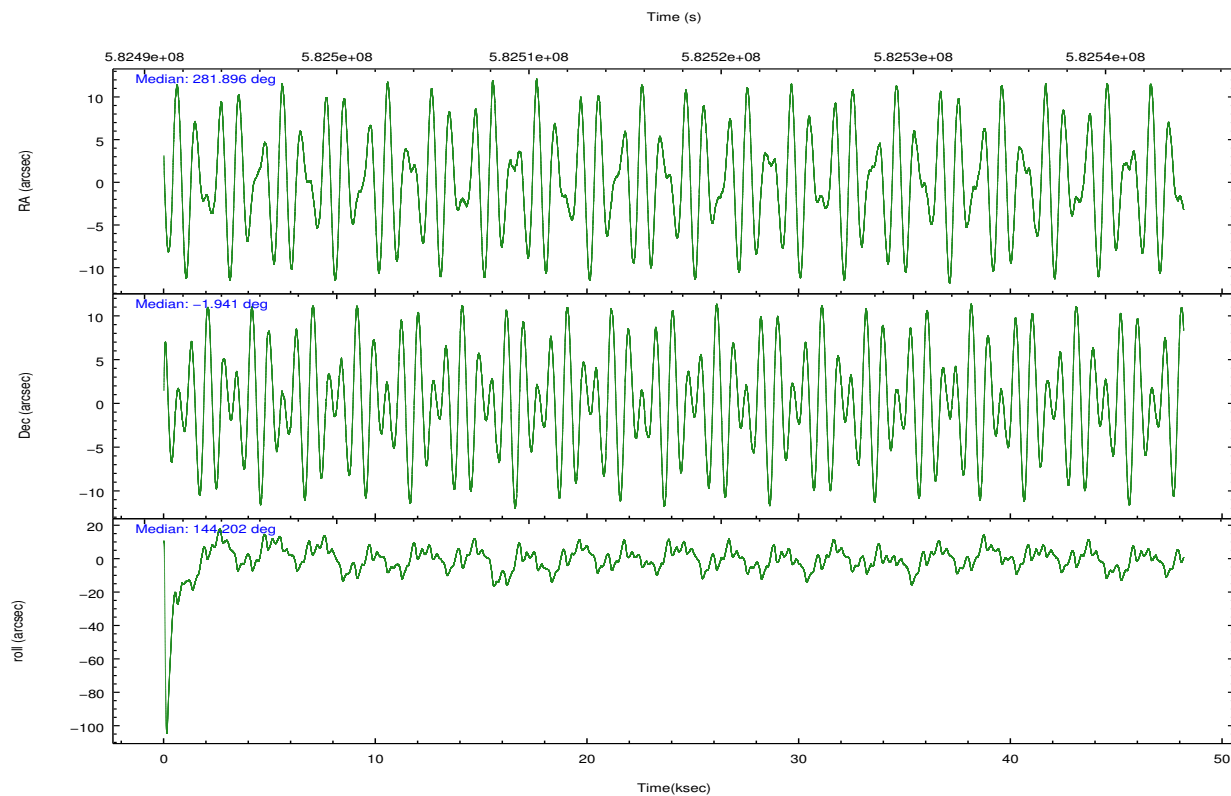
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	11727	12091	11848	15774
	4%	4%	4%	5%
grade 1 events	159	138	157	199
	0%	0%	0%	0%
grade 2 events	7530	8036	7266	7068
	2%	3%	2%	2%
grade 3 events	3191	3195	2877	3325
	1%	1%	0%	1%
grade 4 events	2943	3311	3098	3346
	1%	1%	1%	1%
grade 5 events	9823	10629	8859	11577
	3%	4%	3%	4%
grade 6 events	6097	7390	5414	6357
	2%	2%	1%	2%
grade 7 events	211299	216094	249443	229112
	83%	82%	86%	82%

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	281.8958631114385	CCD I2 on	Y	Y
[deg] Pointing Dec	-1.943379	-1.940697002663172	CCD I3 on	Y	Y
[deg] Pointing Roll	144.000690	144.2084796268189	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)	582493629.184000	582492565.60247	CCD S5 on	N	N
Observation start date	2016-06-16T19:46:01	2016-06-16T19:29:25	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	582541629.184000	582542334.99283	On-chip summing requested	N	N
Observation end date	2016-06-17T09:06:01	2016-06-17T09:18:54	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



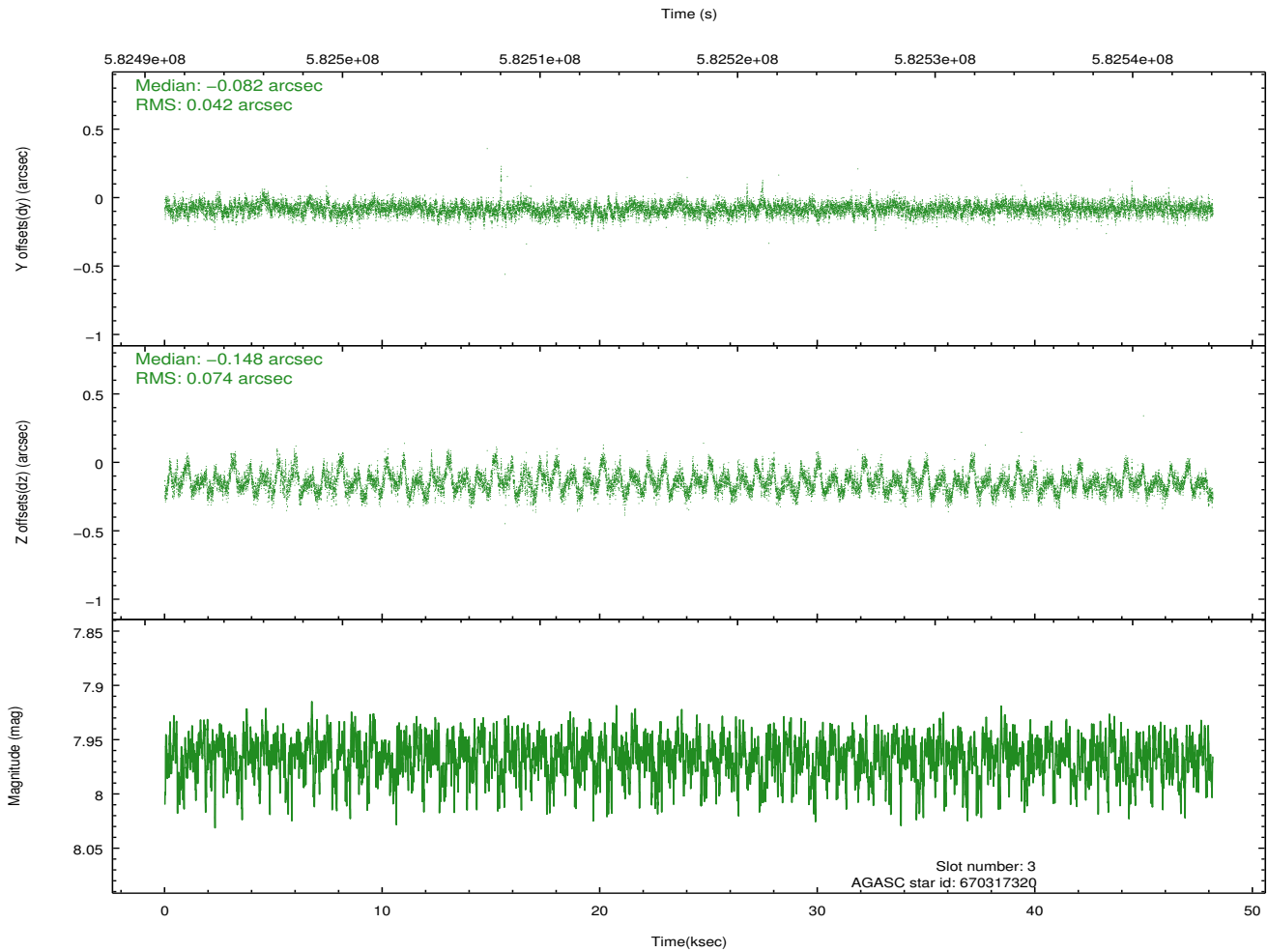
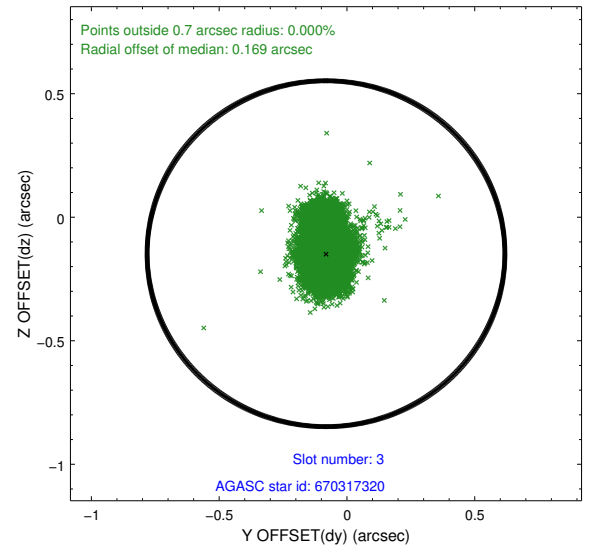
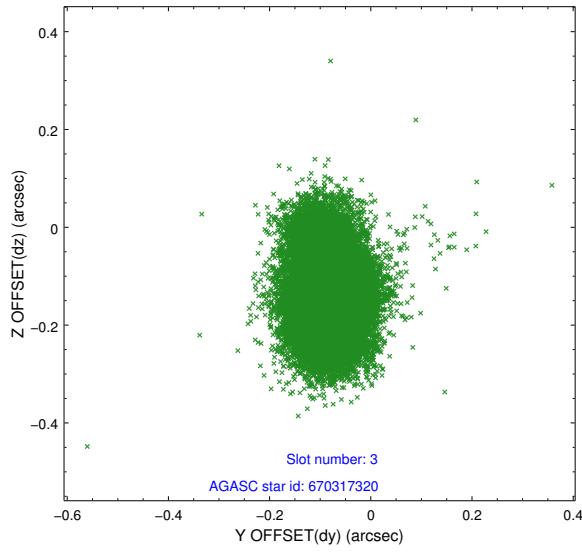


Slot Statistics

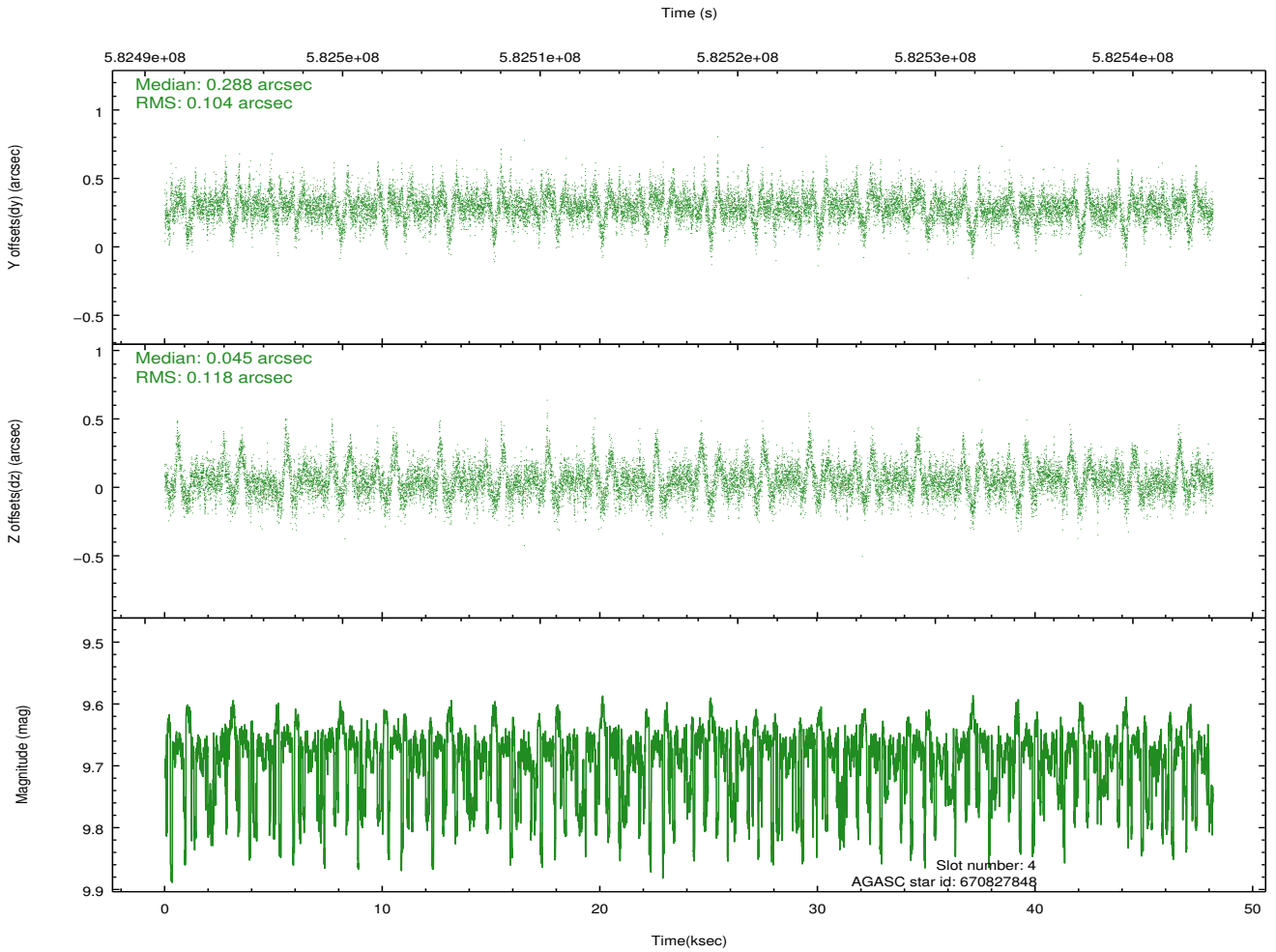
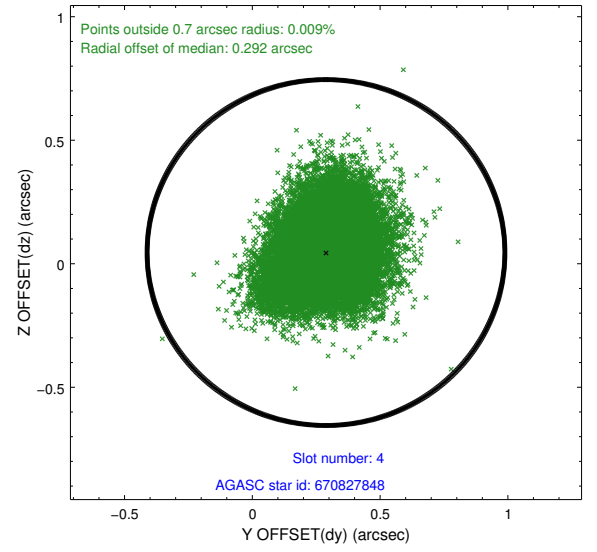
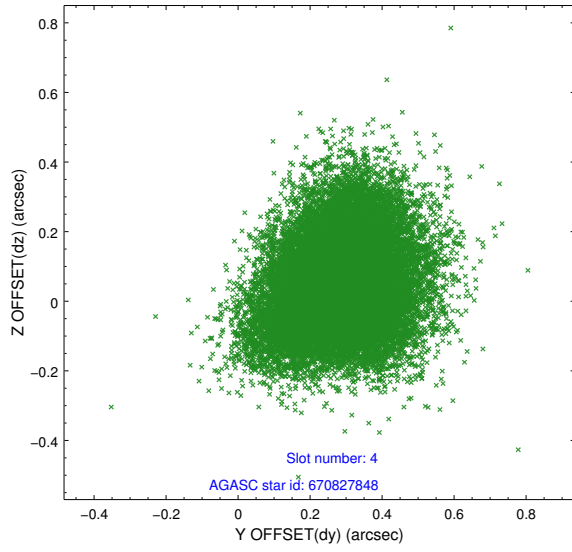
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	11750	0.001	-0.045	0.026	0.058	0.000000	0.000000	927.94	-840.01
1	FID		ACIS-I-2	7.16	11750	-0.326	-0.122	0.008	0.014	0.000000	0.000000	-766.49	-846.49
2	FID		ACIS-I-4	7.18	11749	0.226	0.235	0.026	0.054	0.000000	0.000000	2148.08	1060.04
3	GUIDE	used	670317320	7.97	23494	-0.082	-0.148	0.088	0.154	281.764311	-1.843342	674.83	45.36
4	GUIDE	used	670827848	9.68	23450	0.288	0.045	0.163	0.285	282.233886	-2.502228	-2085.97	971.50
5	GUIDE	used	670829768	7.54	23499	0.025	0.139	0.097	0.150	281.927934	-2.010470	-155.10	186.28
6	GUIDE	used	670698280	9.40	23345	-0.274	-0.018	0.175	0.365	281.071617	-2.124861	2094.31	2330.92
7	GUIDE	used	670827280	9.36	23472	0.044	-0.026	0.138	0.227	281.434708	-1.976010	1353.25	1130.73

2.4 Star Slots

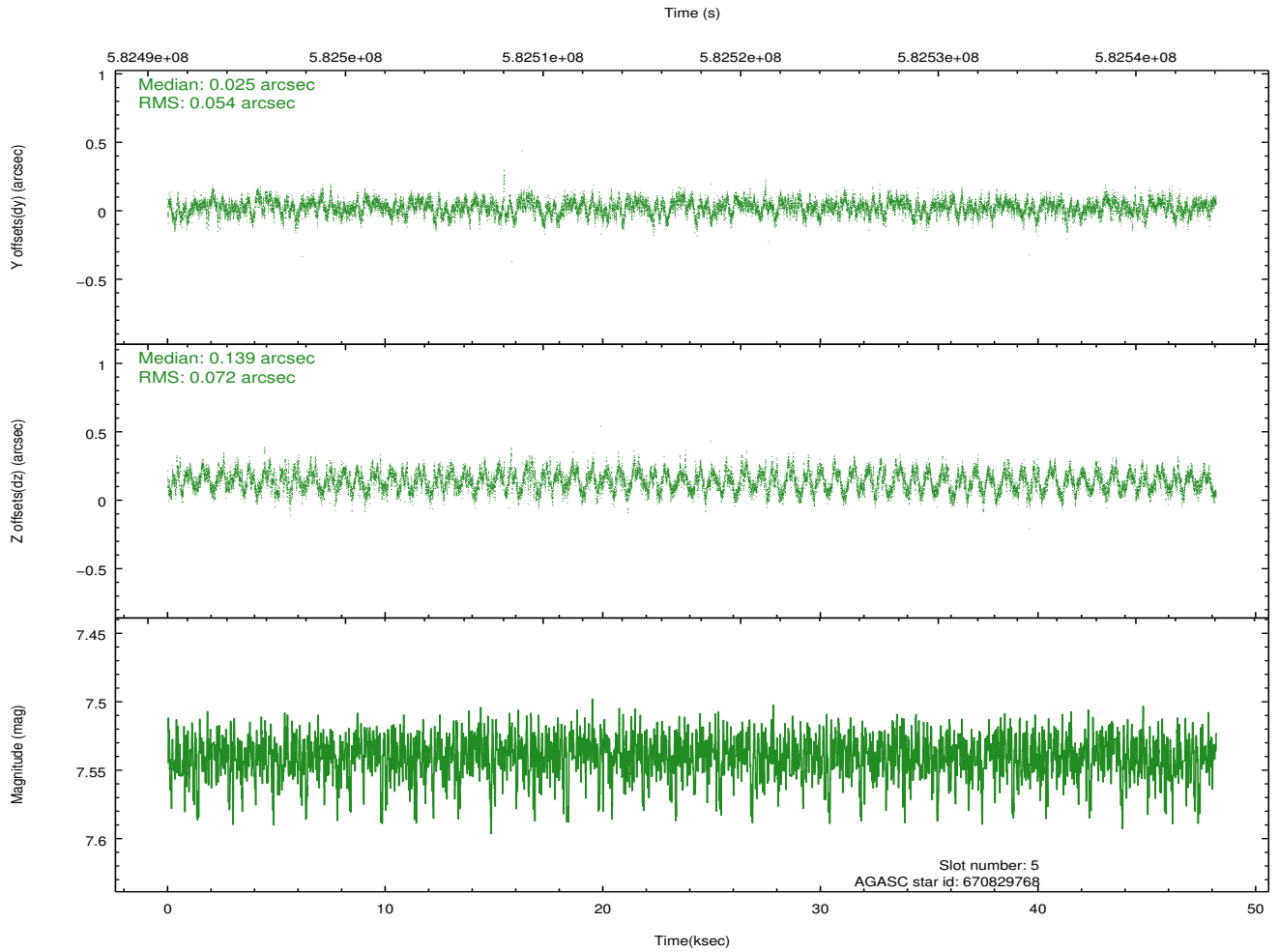
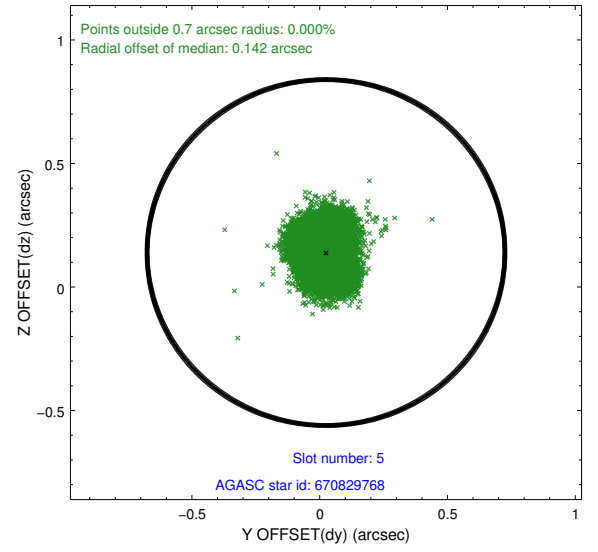
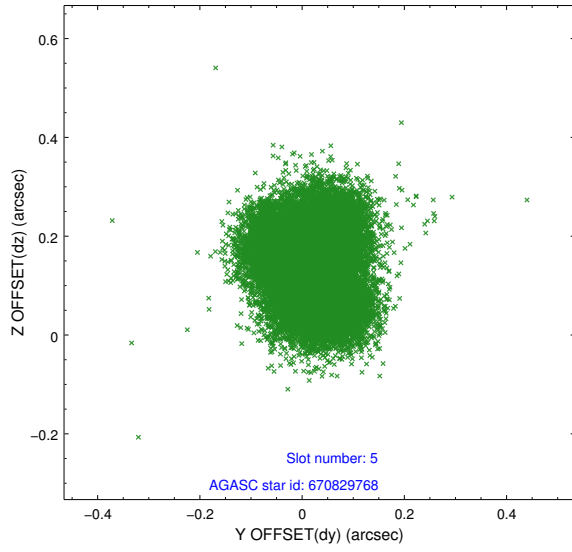
2.4.1 Slot 3



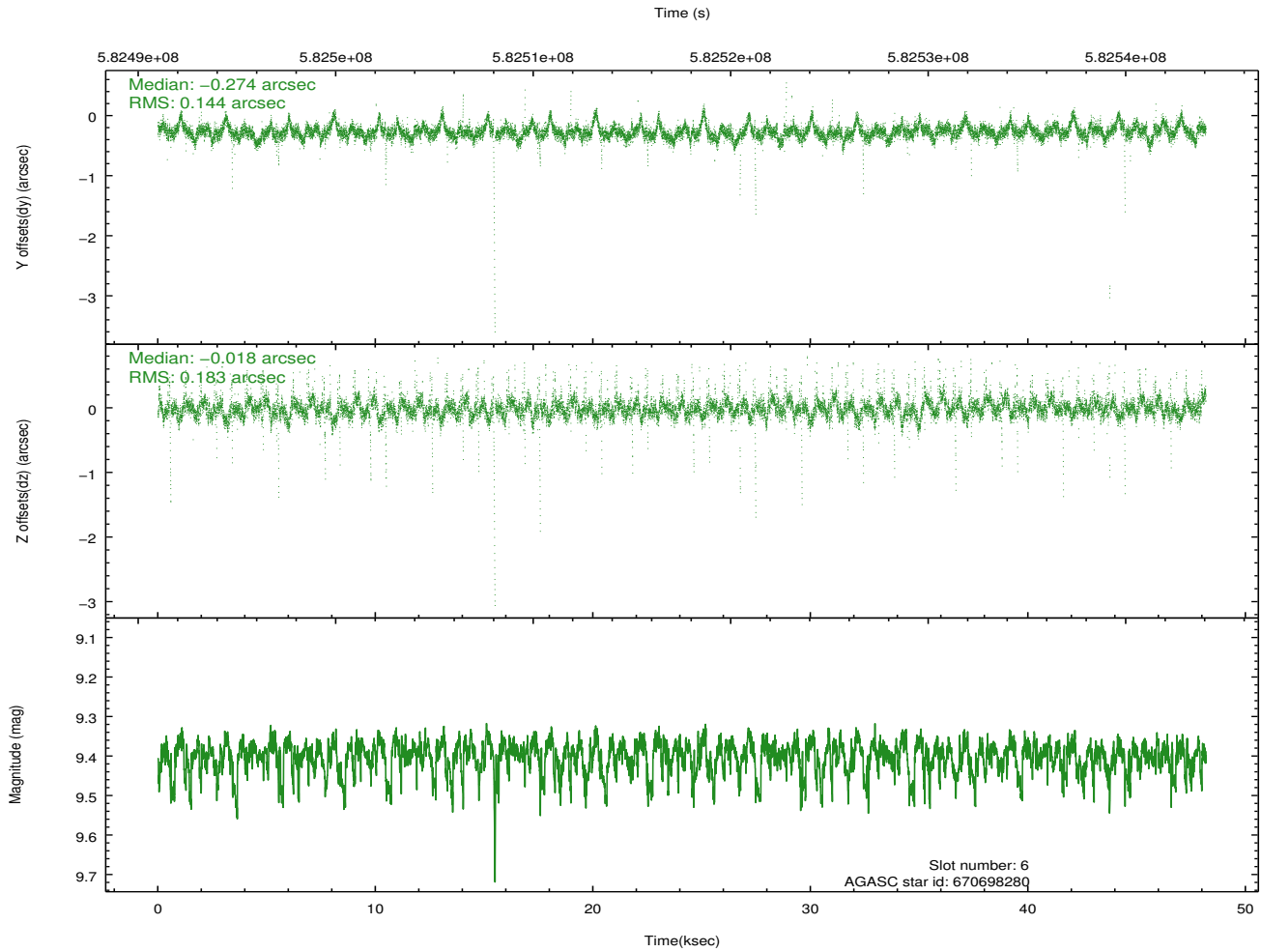
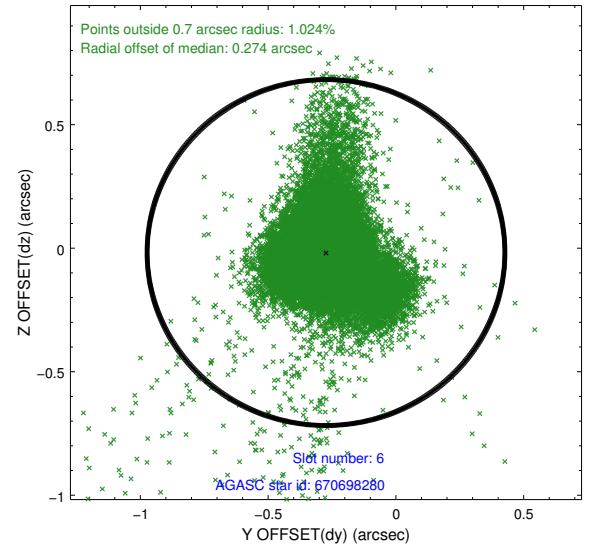
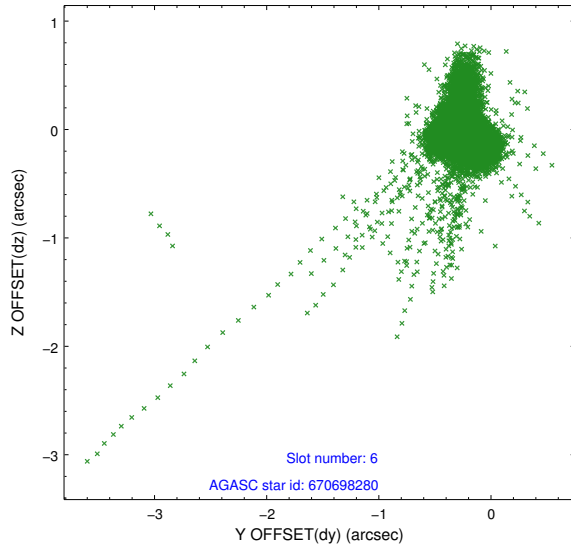
2.4.2 Slot 4



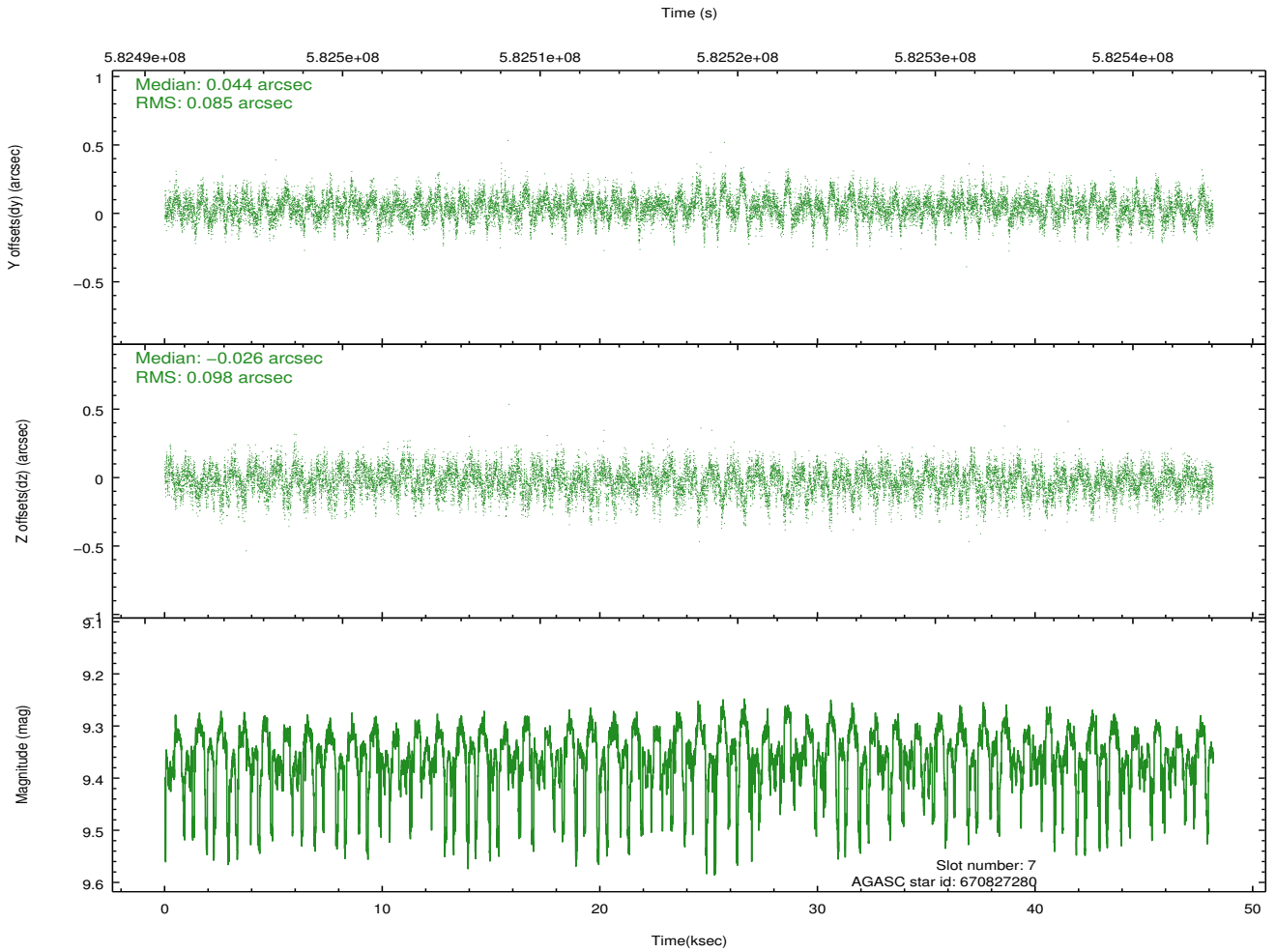
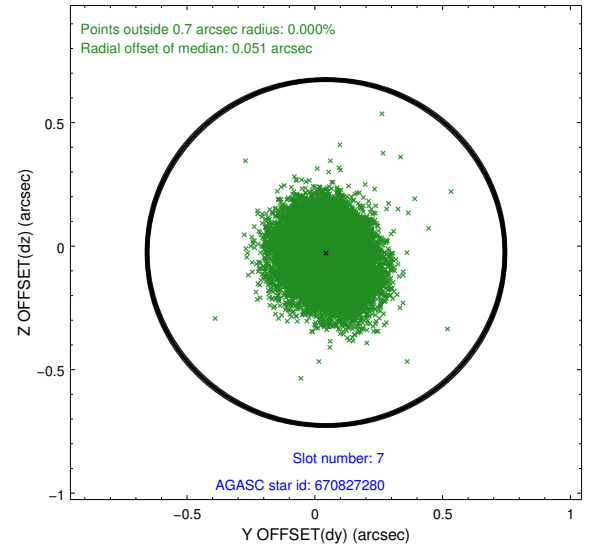
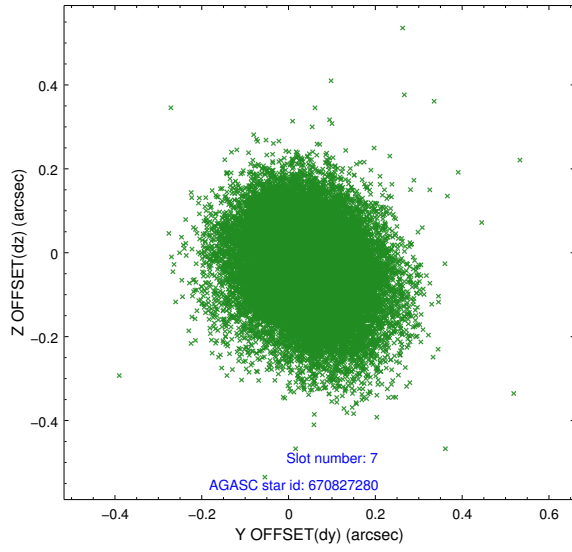
2.4.3 Slot 5



2.4.4 Slot 6

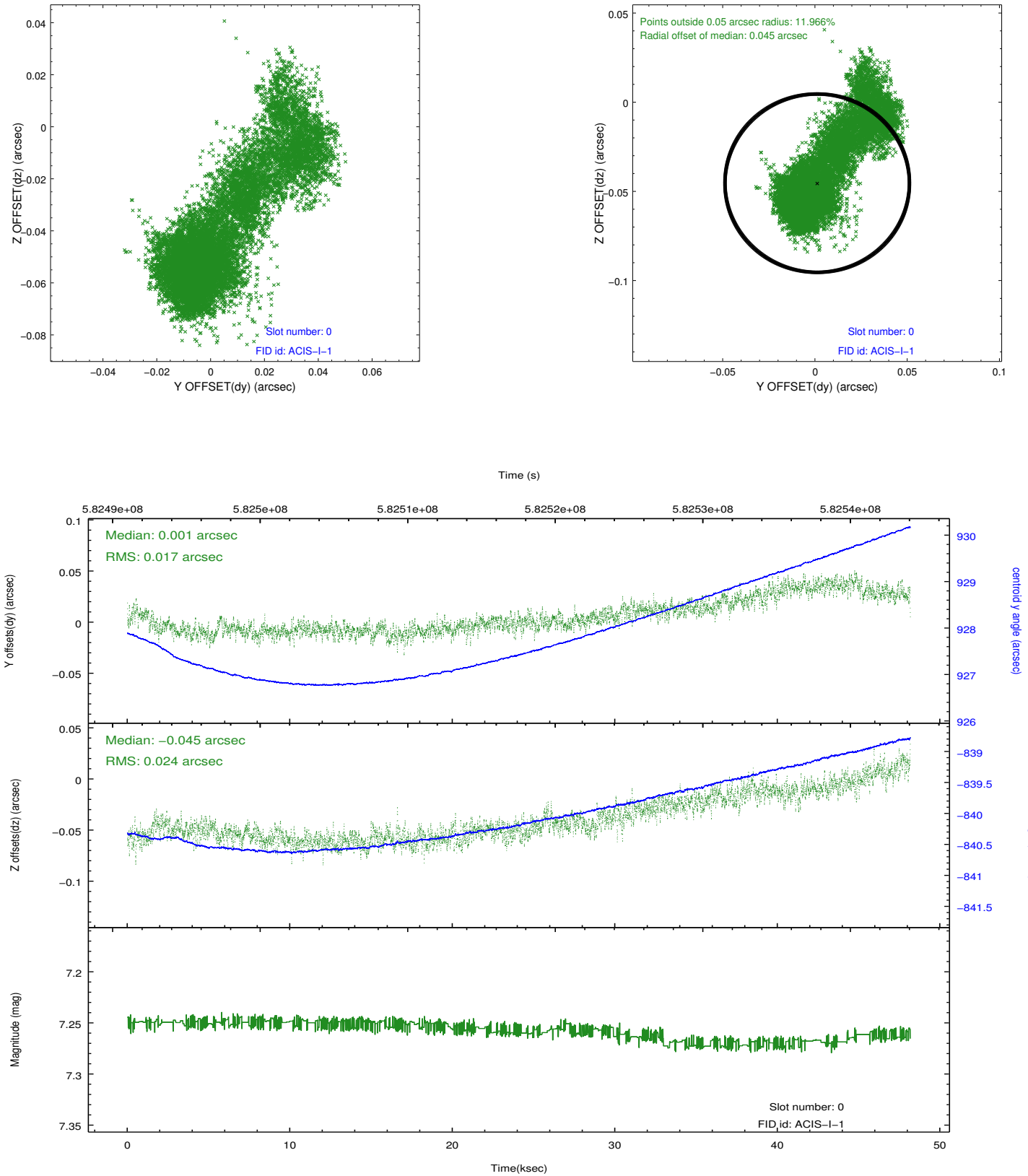


2.4.5 Slot 7

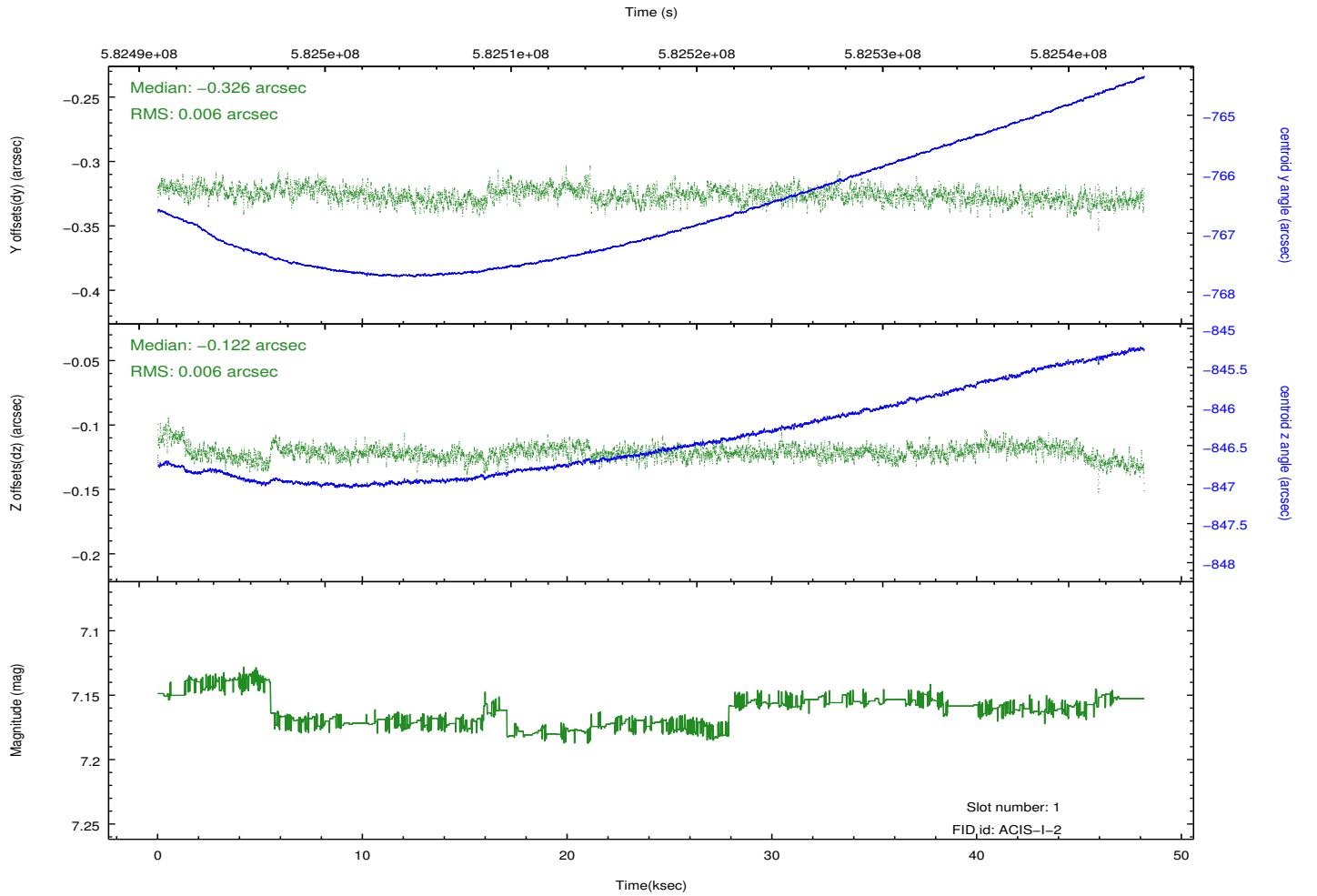
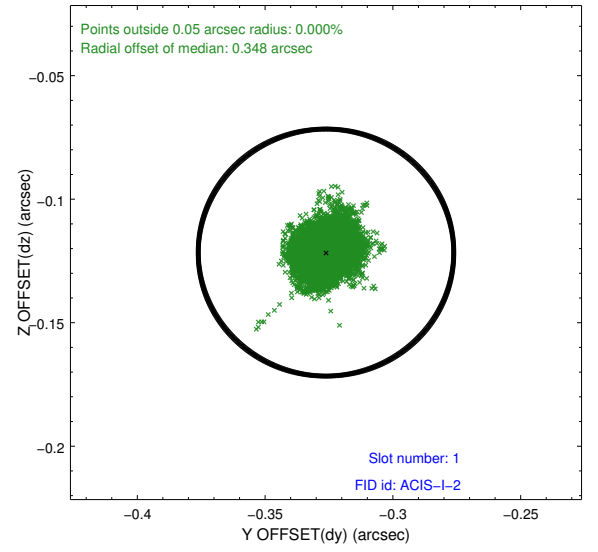
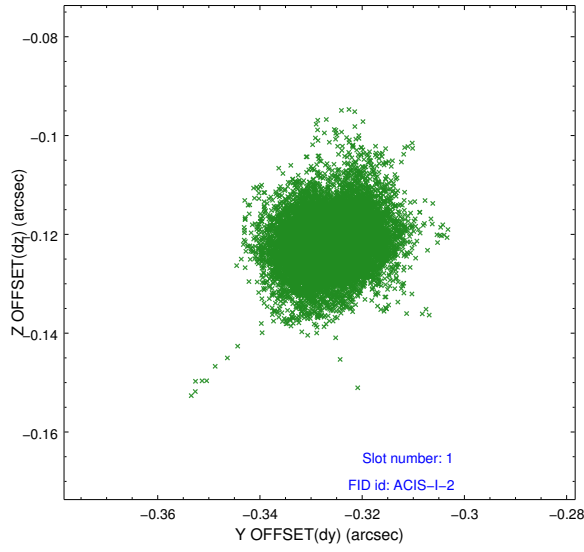


2.5 FID Slots

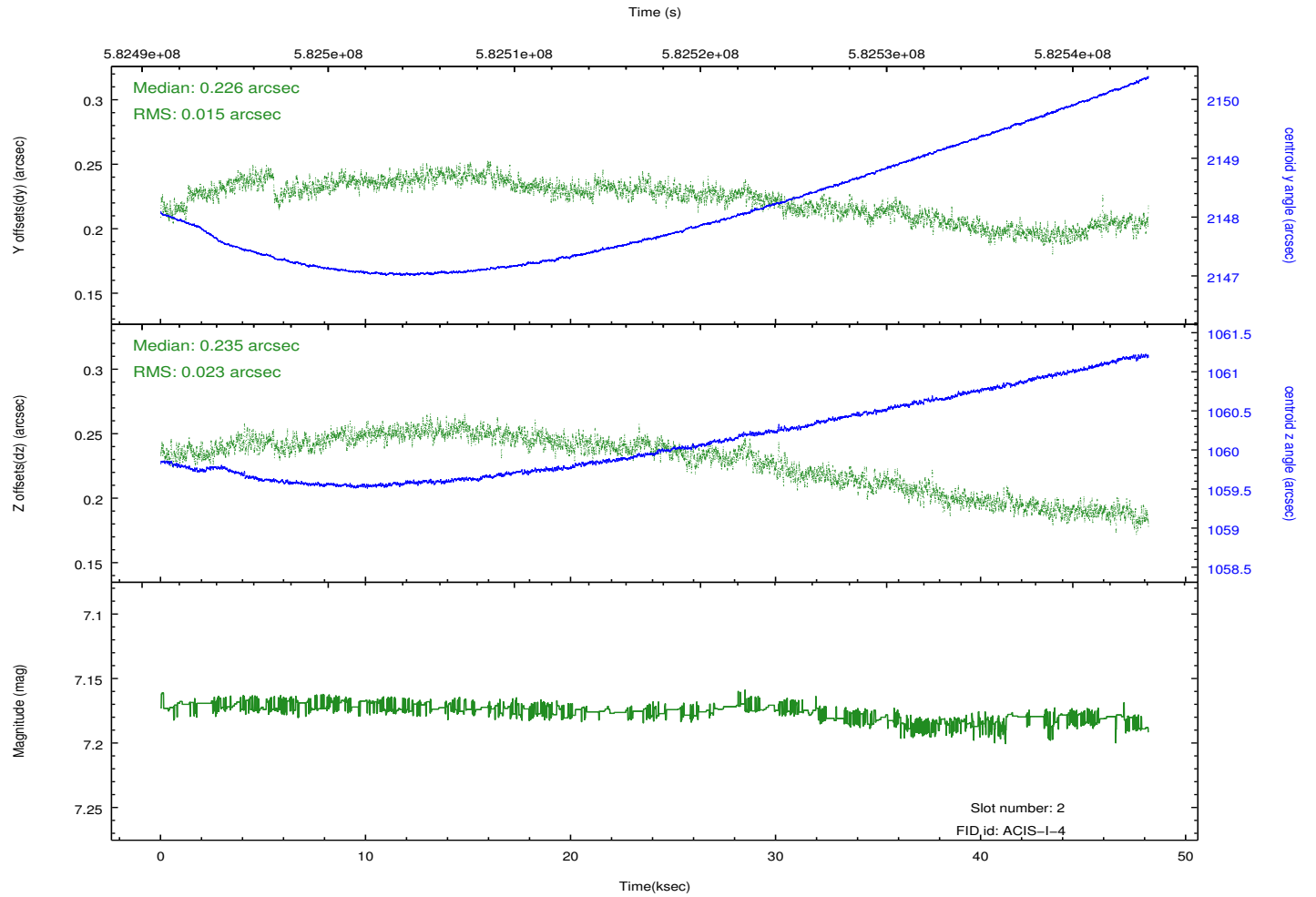
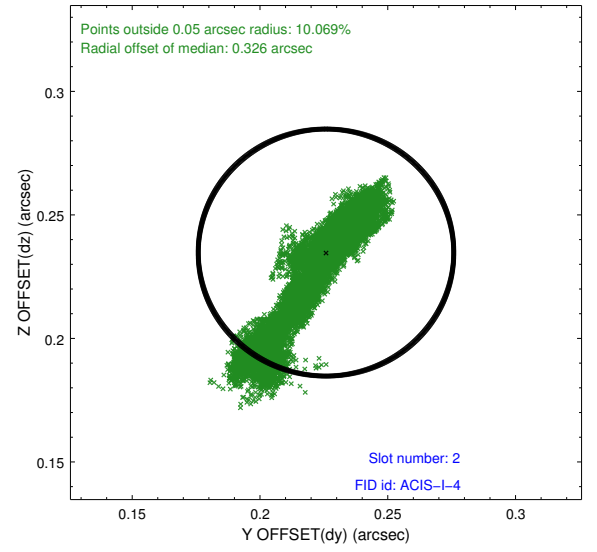
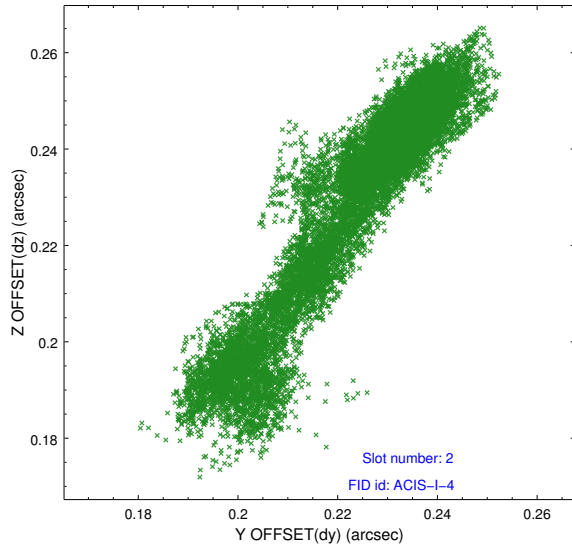
2.5.1 Slot 0



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)	2016.06.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	48.074677199244

A.2 Comments

Two optional chips were dropped.