

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 20057 - L2 Version 1
Chandra X-Ray Center

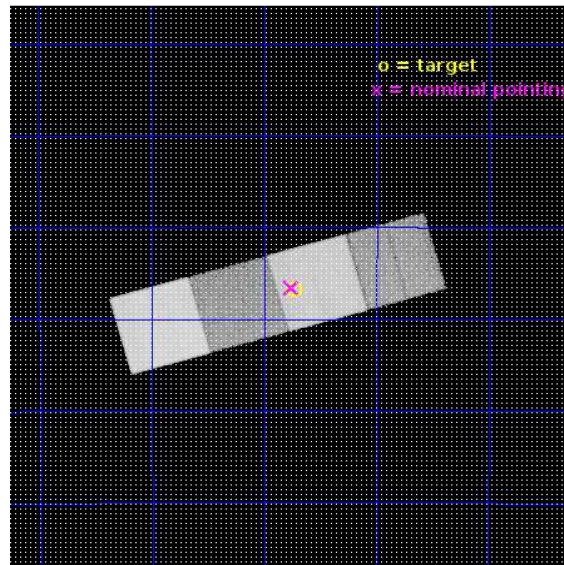
L2 Processing Date : Apr 15 2017

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1 Front

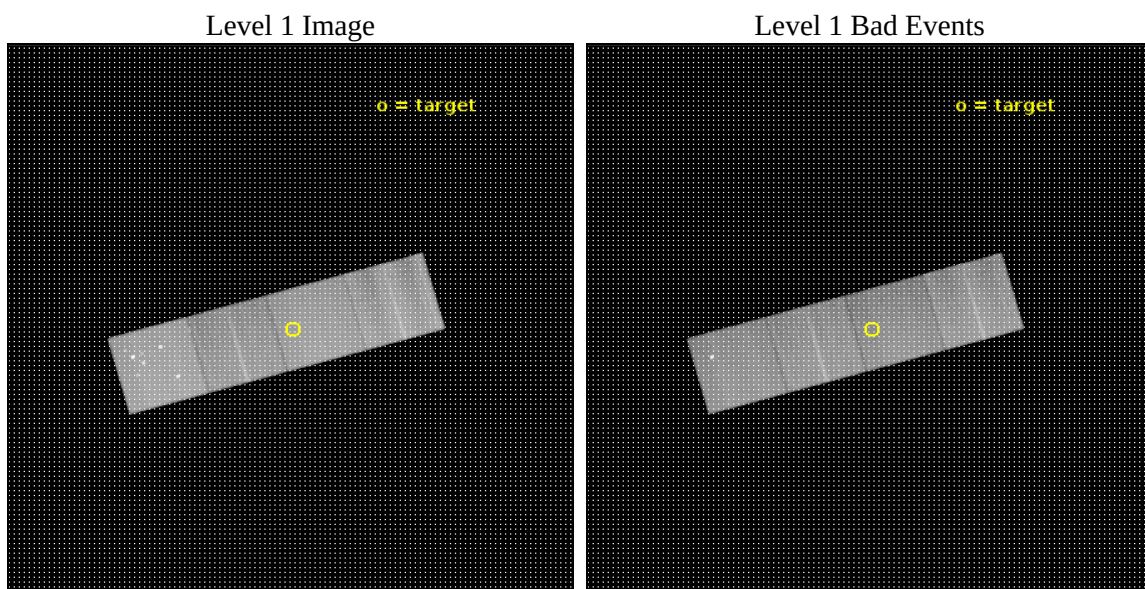
seq_num	201095	Sequence number
obs_id	20057	Observation id
title	X-rays from Young Low-Mass Stars: Inhospitable Habitable Zones?	Pr
observer	Joel Kastner	Principal investigator
object	J1247-3816	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	191.933333	Observer's specified target RA [deg]
dec_targ	-38.279444	Observer's specified target Dec [deg]
ra_nom	191.9392225872	Nominal RA [deg]
dec_nom	-38.276401745656	Nominal Dec [deg]
roll_nom	344.16029071303	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40538.700311899	Sum of GTIs [s]
livetime	40009.032348167	Livetime [s]
ontime5	40538.700311899	Sum of GTIs [s]
ontime6	40535.559291601	Sum of GTIs [s]
ontime7	40538.700311899	Sum of GTIs [s]
ontime8	40535.559231639	Sum of GTIs [s]
l2events	437975	Number of level 2 events



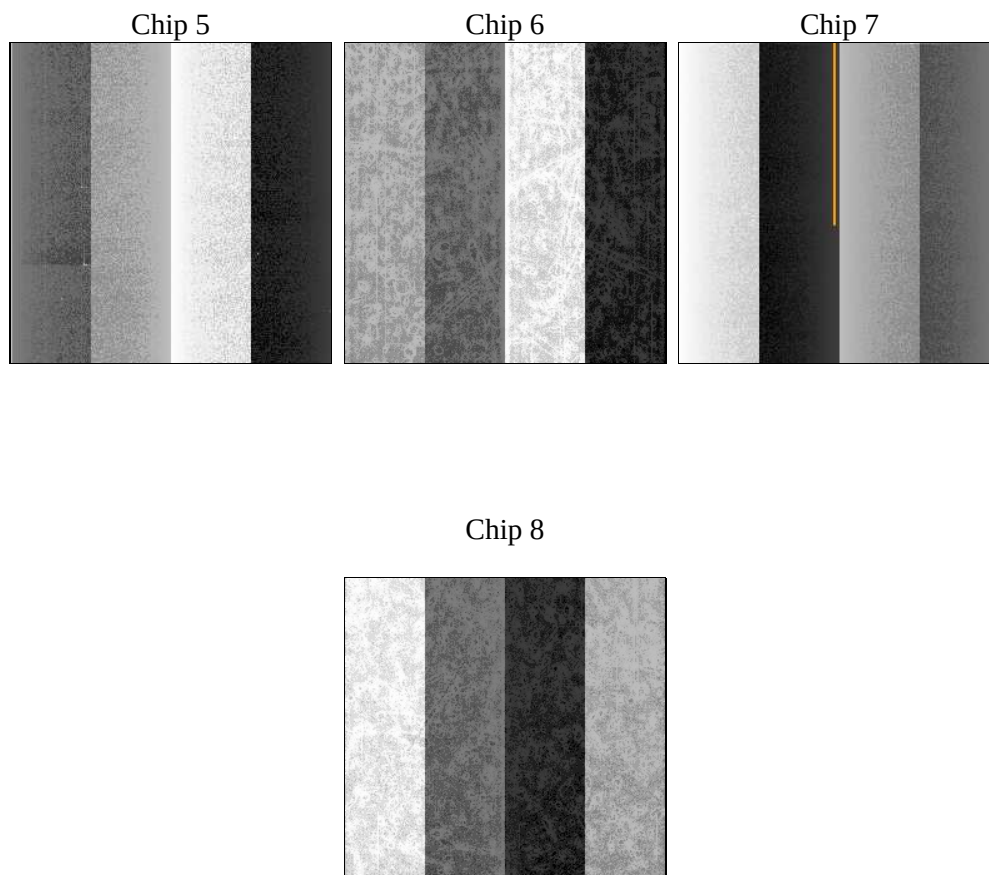
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40472.936000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	40538.700311899	Sum of GTIs [s]
caldsver	4.7.3	 	ontime5	40538.700311899	Sum of GTIs [s]
date	2017-04-15T21:41:23	Date and time of file creation	ontime6	40535.559291601	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	40538.700311899	Sum of GTIs [s]
			ontime8	40535.559231639	Sum of GTIs [s]
			l1events	1579622	Number of level 1 events

2.1.4 Events

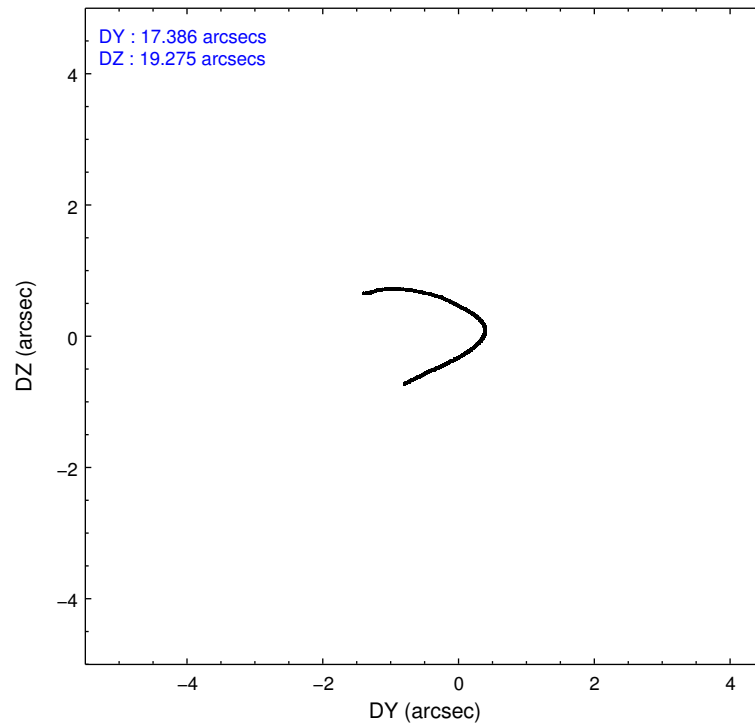
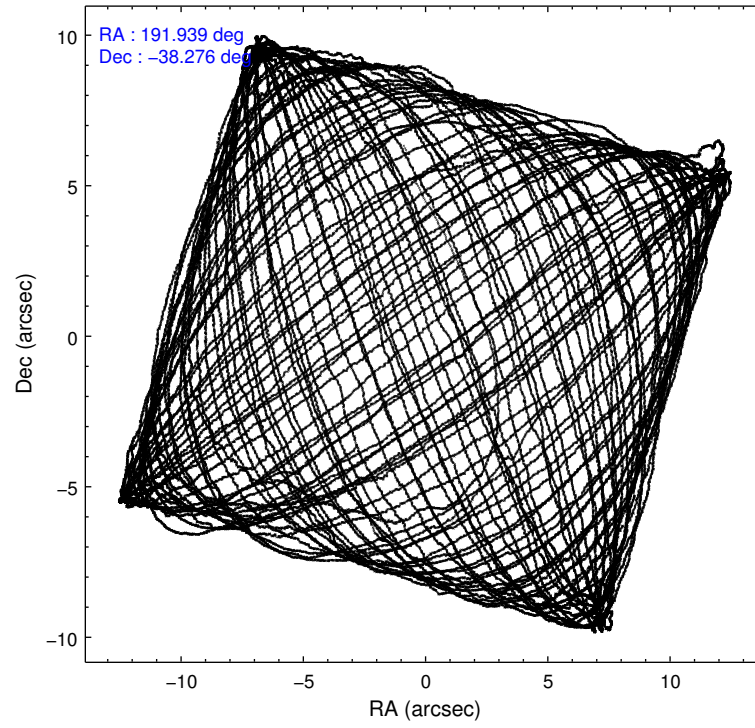
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	507086	303084	377184	392268
rejected events	253993	269534	211739	285478
rejected %	50%	88%	56%	72%

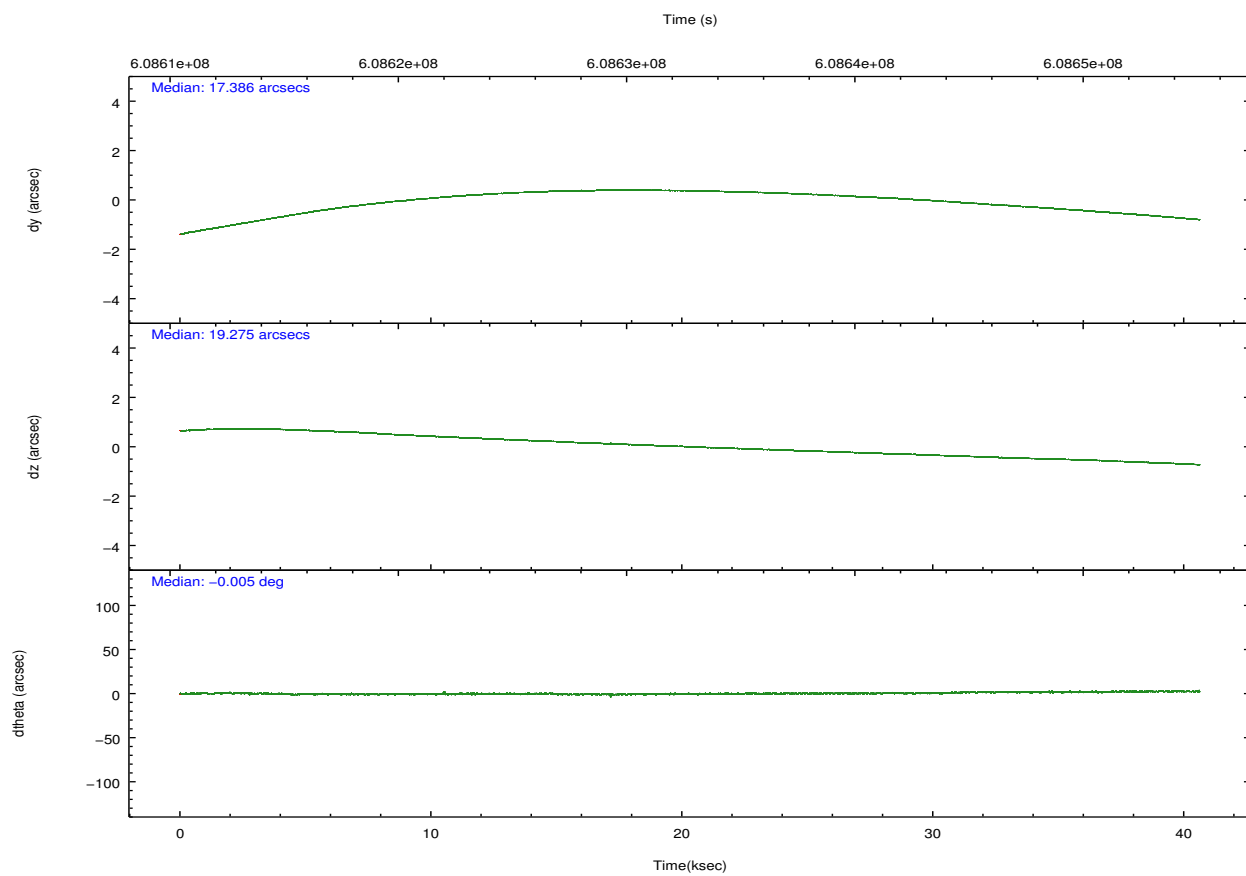
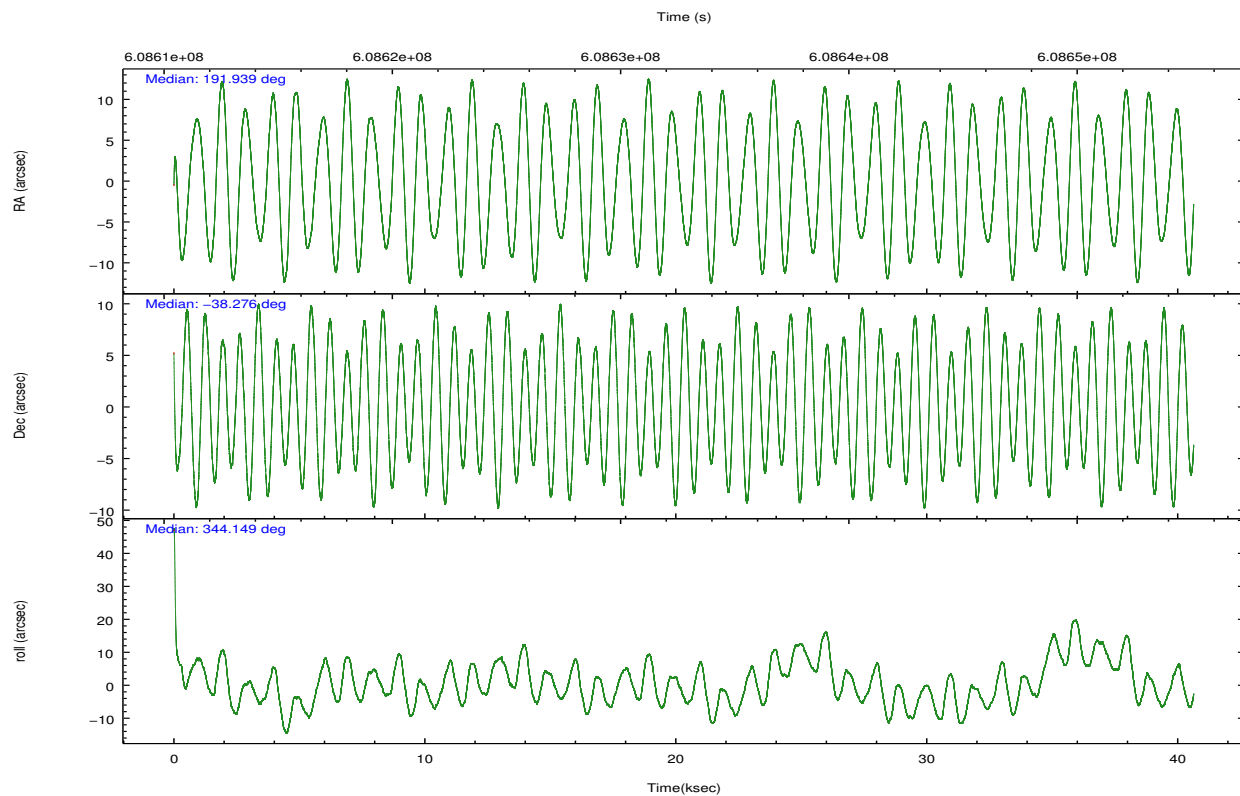
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	41531	11235	14102	29850
	8%	3%	3%	7%
grade 1 events	1111	151	537	290
	0%	0%	0%	0%
grade 2 events	74029	7870	34944	26741
	14%	2%	9%	6%
grade 3 events	7438	3392	13615	10991
	1%	1%	3%	2%
grade 4 events	6817	3230	13208	10105
	1%	1%	3%	2%
grade 5 events	32472	14035	37574	21171
	6%	4%	9%	5%
grade 6 events	123332	7826	89601	29111
	24%	2%	23%	7%
grade 7 events	220356	255345	173603	264009
	43%	84%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	191.905460	191.9392225872007	CCD I2 on	O1	N
[deg] Pointing Dec	-38.283452	-38.27640174565568	CCD I3 on	O2	N
[deg] Pointing Roll	343.982733	344.1602907130255	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	608612614.184000	608611609.42233	CCD S5 on	N	N
Observation start date	2017-04-15T03:02:25	2017-04-15T02:46:49	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	608653087.184000	608653308.98725	On-chip summing requested	N	N
Observation end date	2017-04-15T14:16:58	2017-04-15T14:21:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



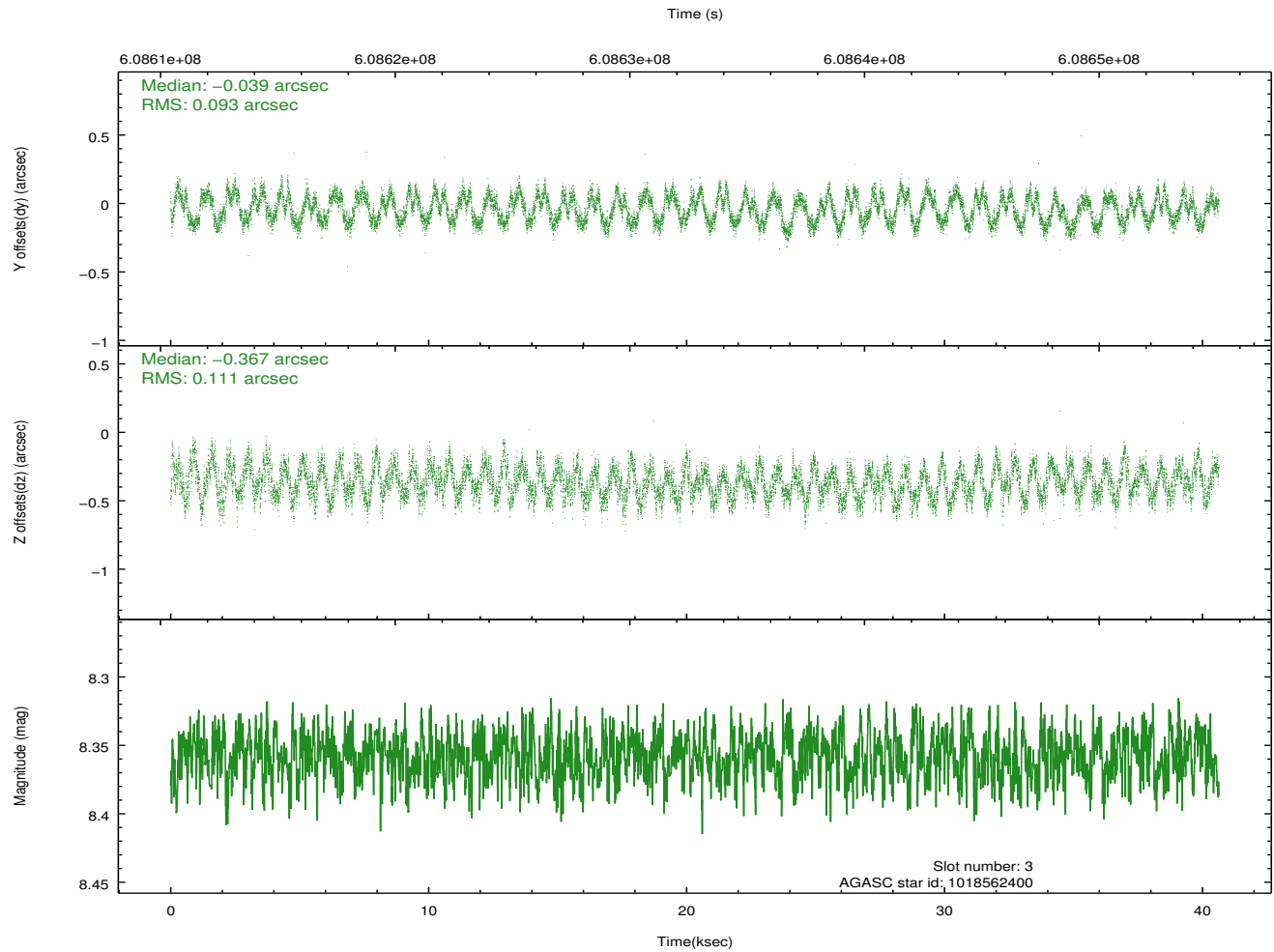
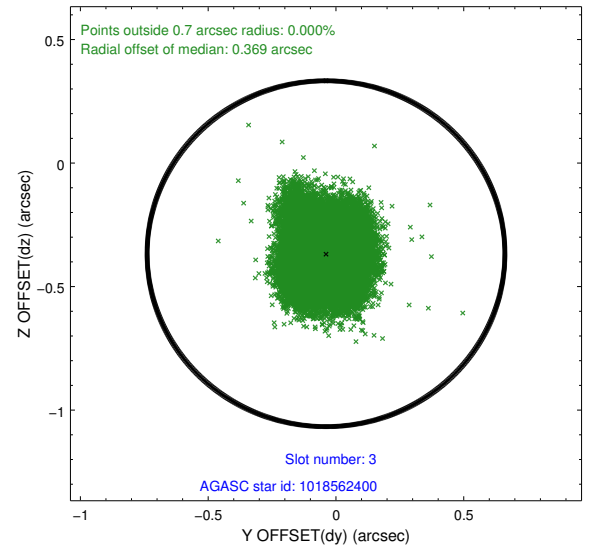
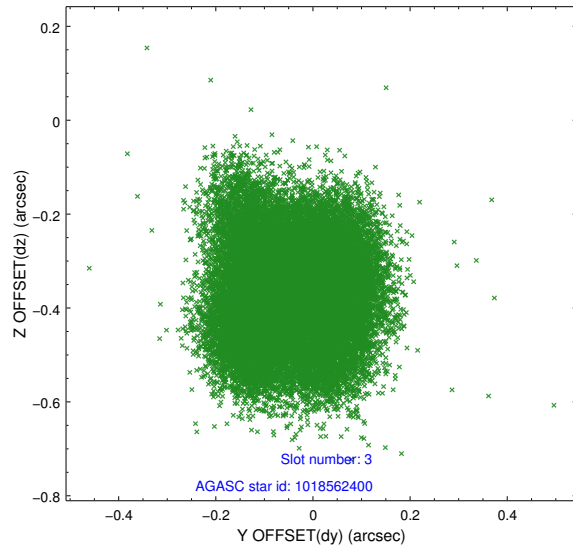


Slot Statistics

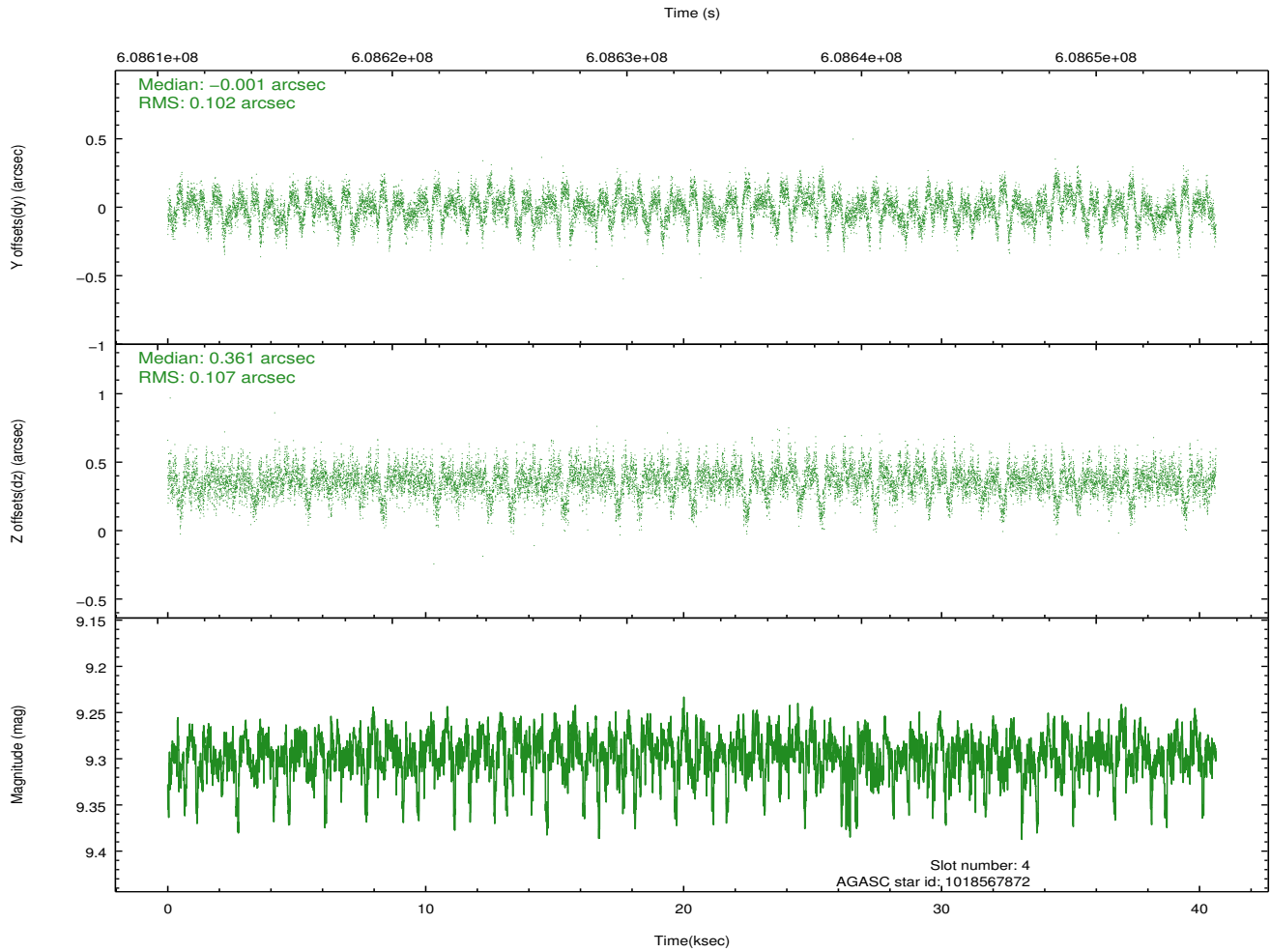
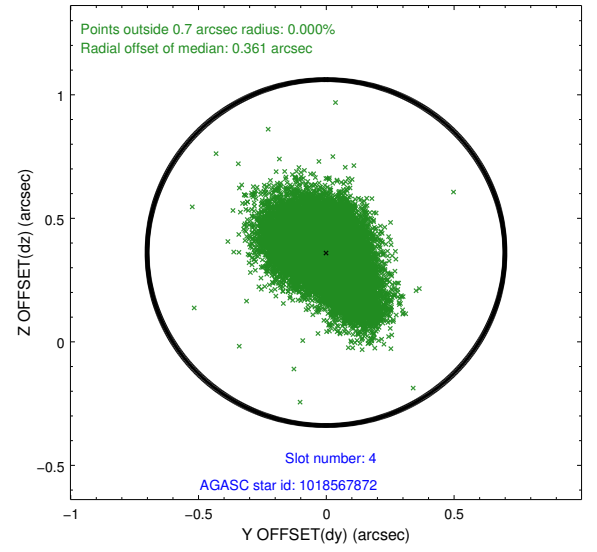
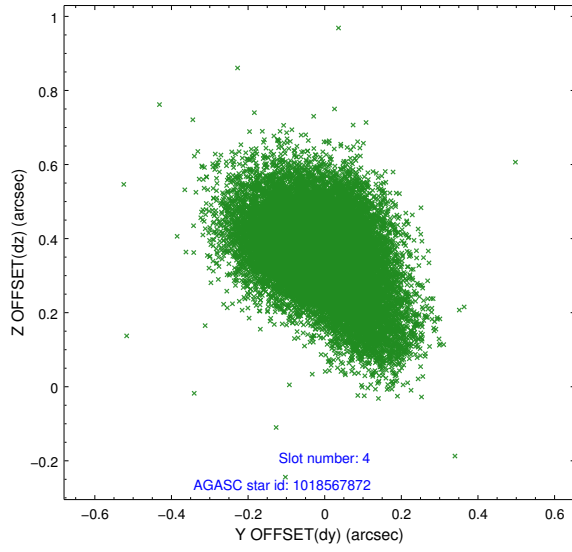
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.01	9911	-0.205	-0.105	0.025	0.034	0.000000	0.000000	-770.46	-1740.87
1	FID		ACIS-S-4	7.11	9912	0.497	0.128	0.014	0.031	0.000000	0.000000	2143.46	167.90
2	FID		ACIS-S-5	7.11	9912	-0.326	-0.014	0.025	0.048	0.000000	0.000000	-1823.45	161.35
3	GUIDE	used	1018562400	8.36	19813	-0.039	-0.367	0.158	0.231	192.400661	-37.870057	942.43	1815.02
4	GUIDE	used	1018567872	9.30	19789	-0.001	0.361	0.153	0.268	191.760060	-38.807838	128.76	-1927.16
5	GUIDE	used	1018569008	9.28	19796	-0.291	-0.438	0.112	0.184	192.330342	-37.805819	687.77	1983.28
6	GUIDE	used	1018572456	7.95	19816	0.119	0.278	0.115	0.184	191.863212	-38.821970	422.42	-1895.89
7	GUIDE	used	1018561536	9.06	19801	0.217	0.151	0.165	0.309	191.437138	-38.004264	-1552.68	596.19

2.4 Star Slots

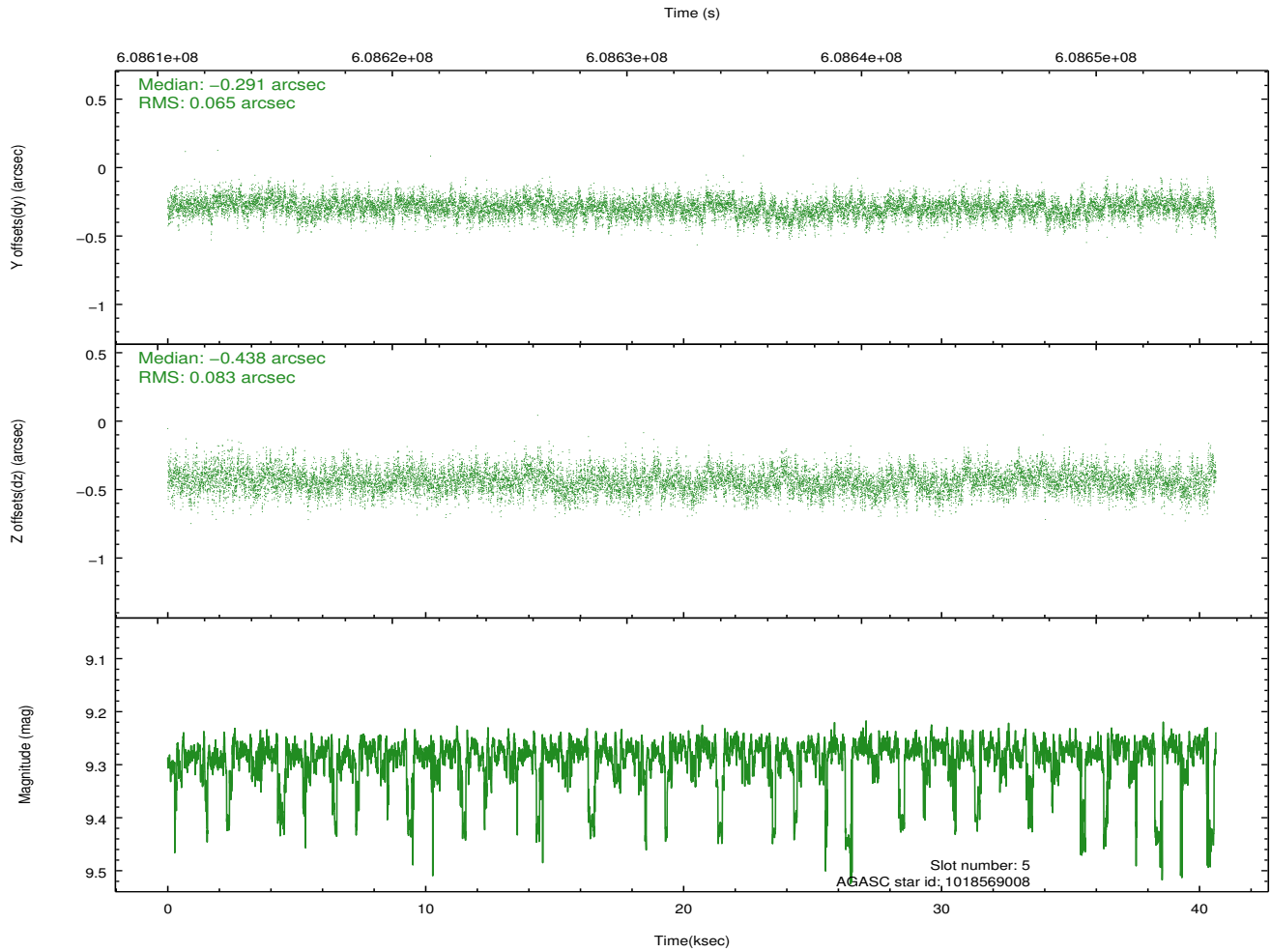
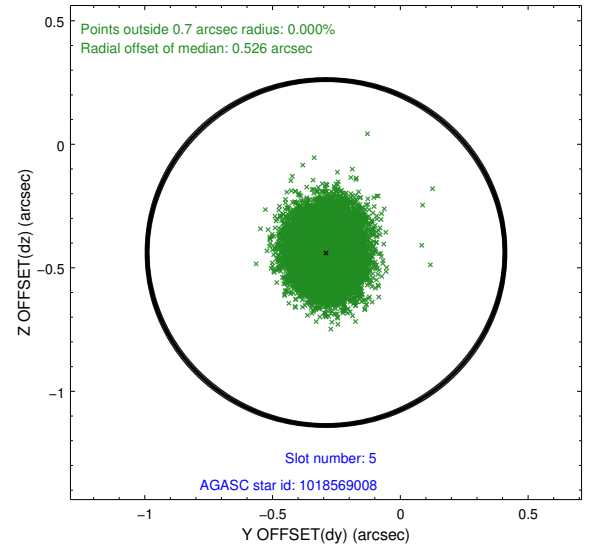
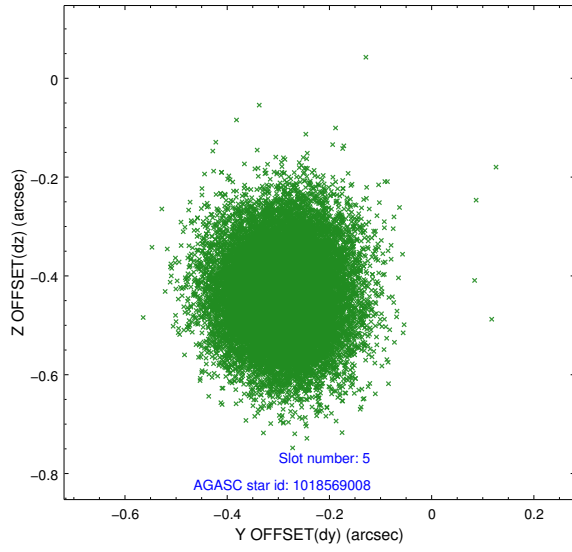
2.4.1 Slot 3



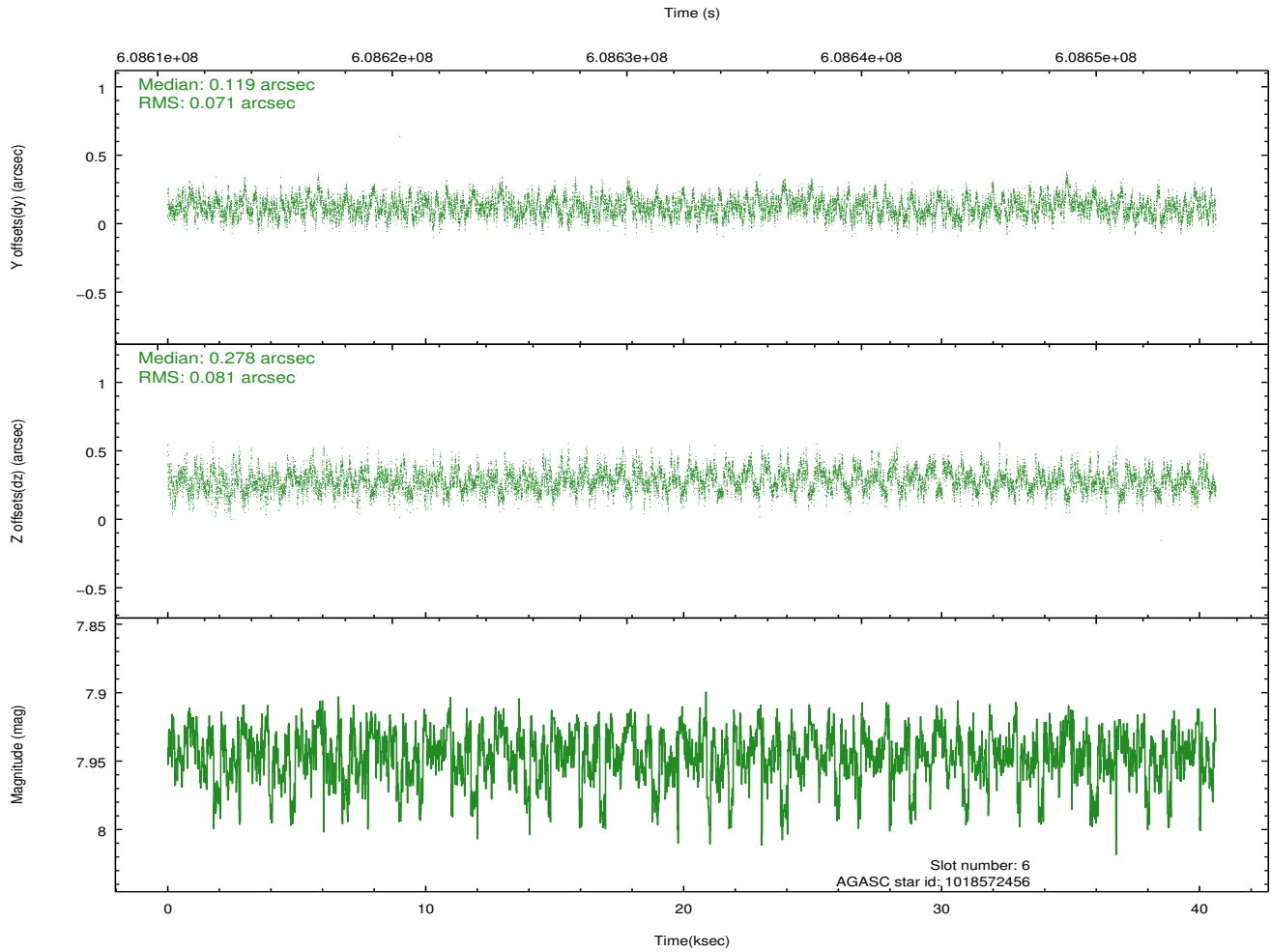
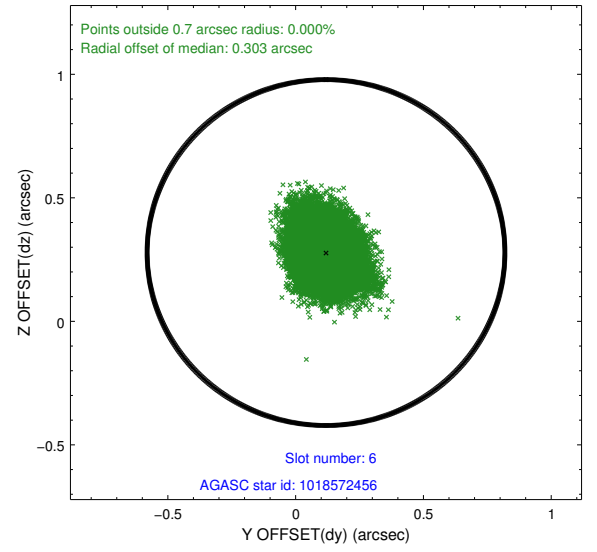
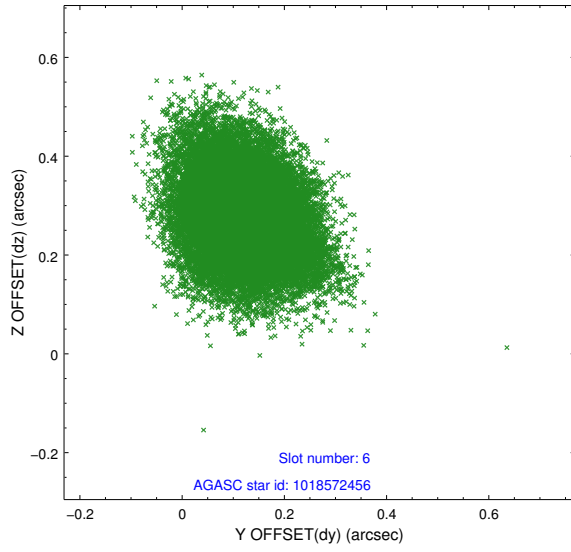
2.4.2 Slot 4



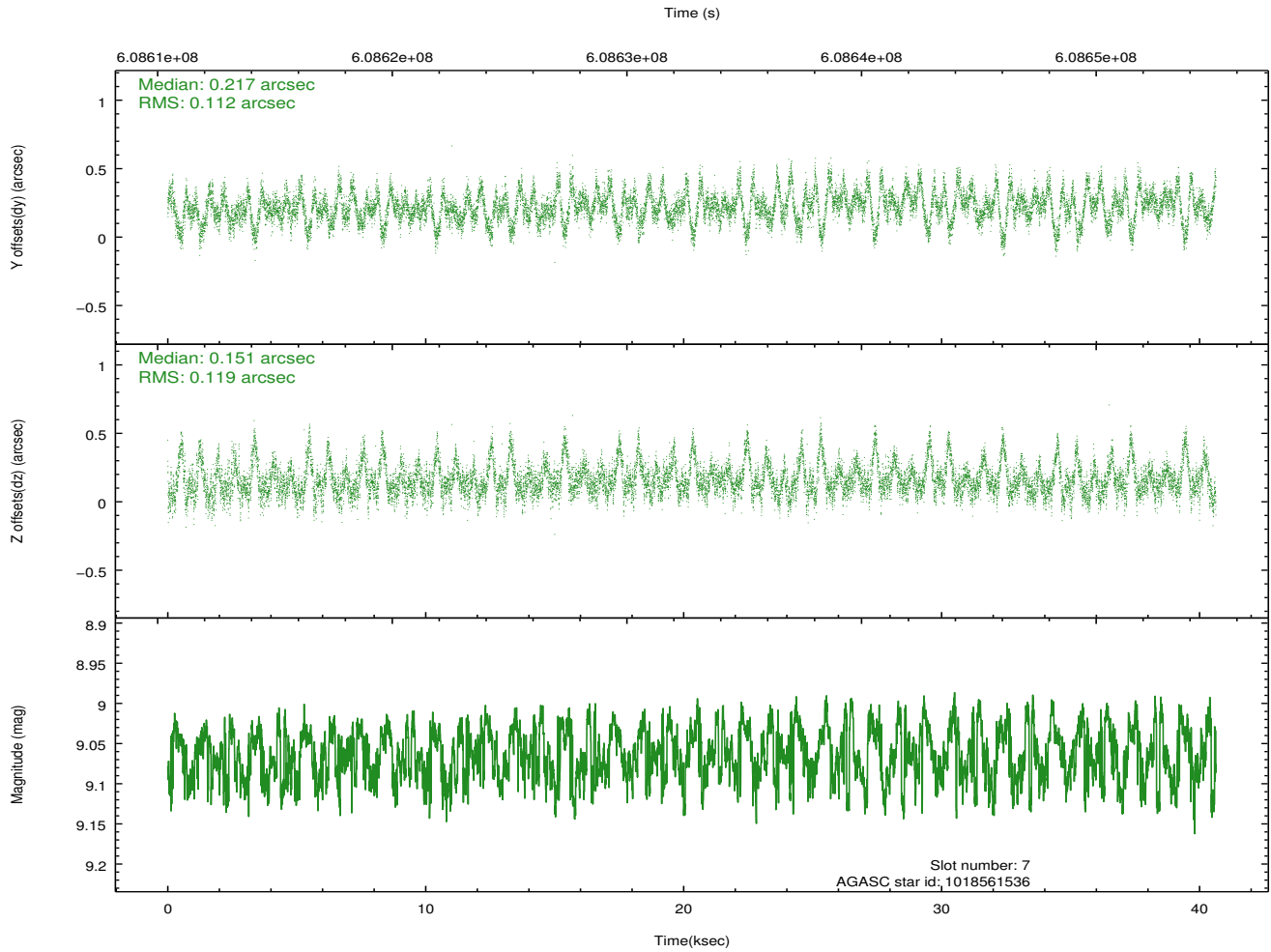
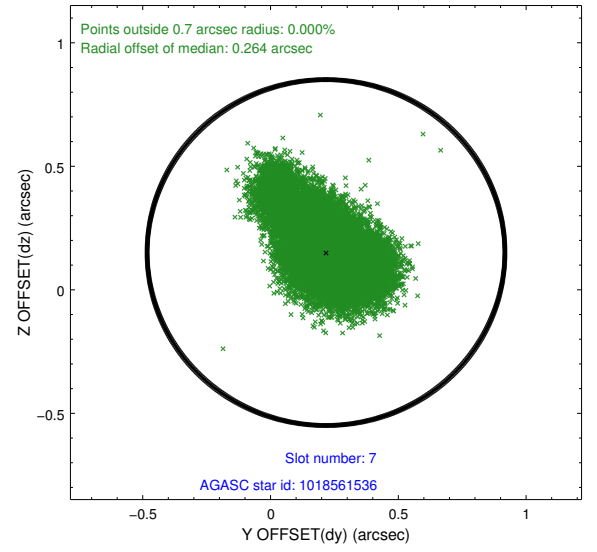
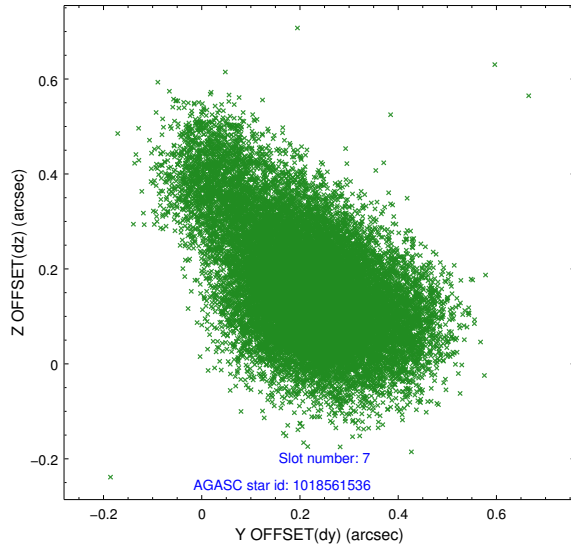
2.4.3 Slot 5



2.4.4 Slot 6

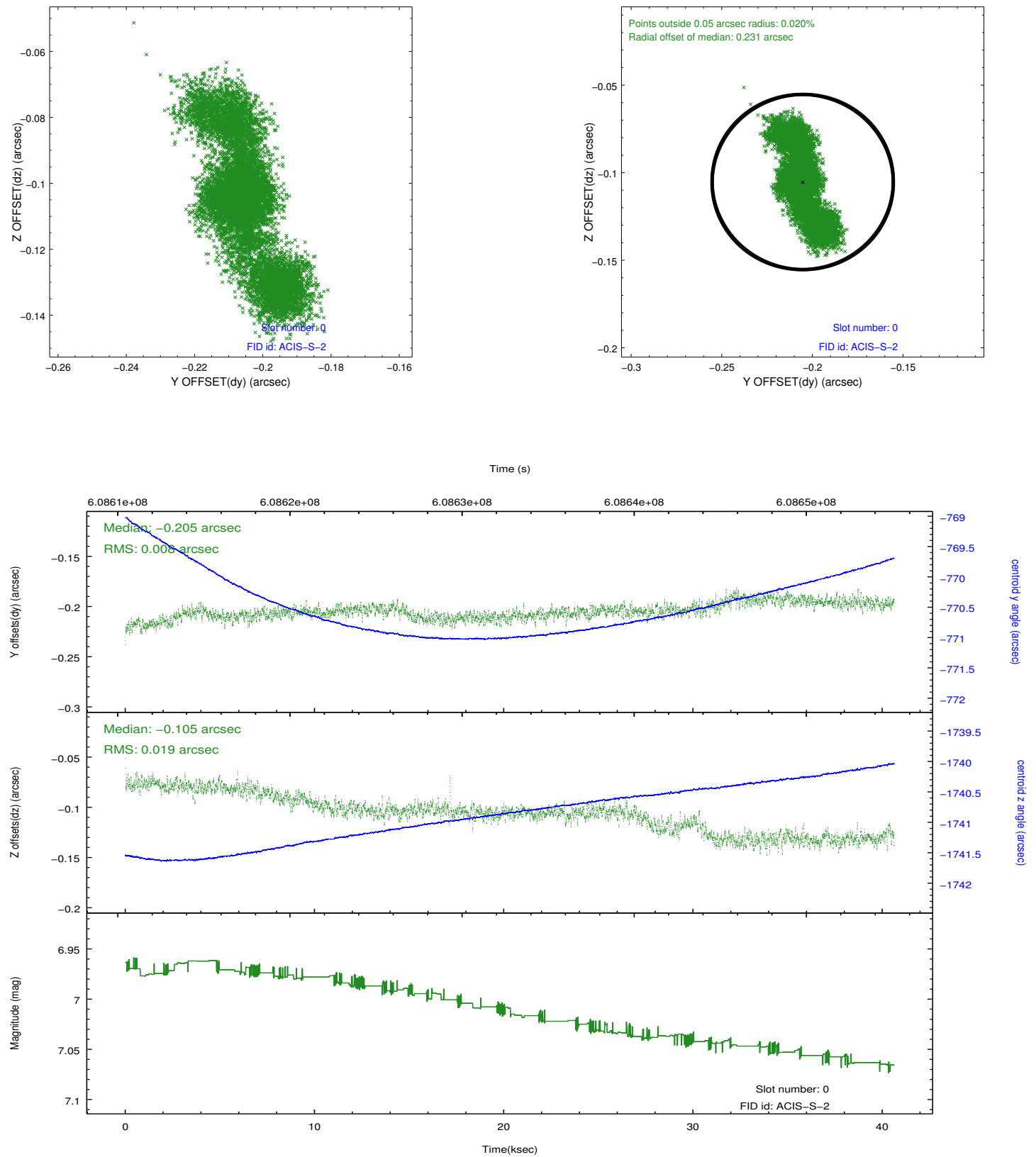


2.4.5 Slot 7

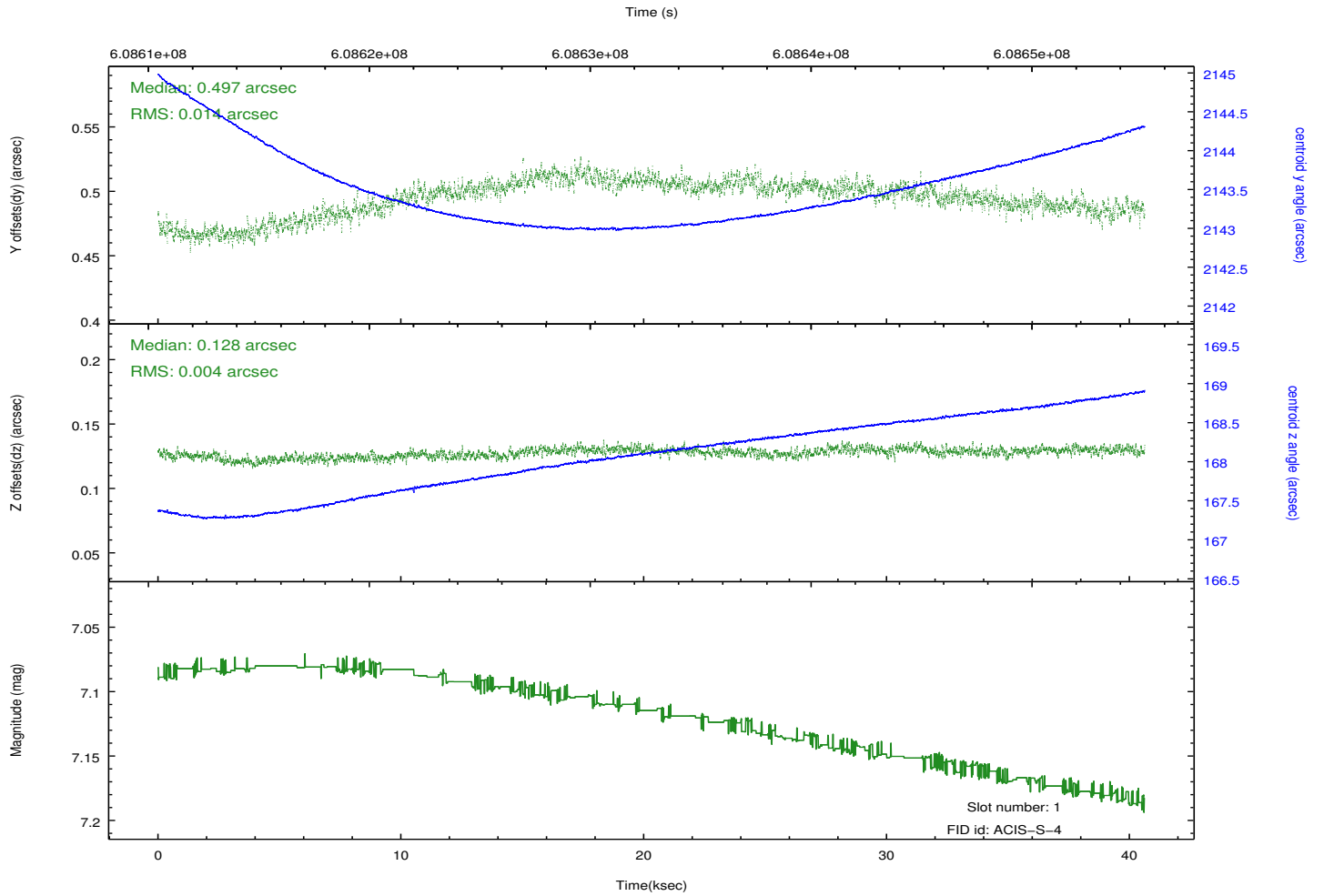
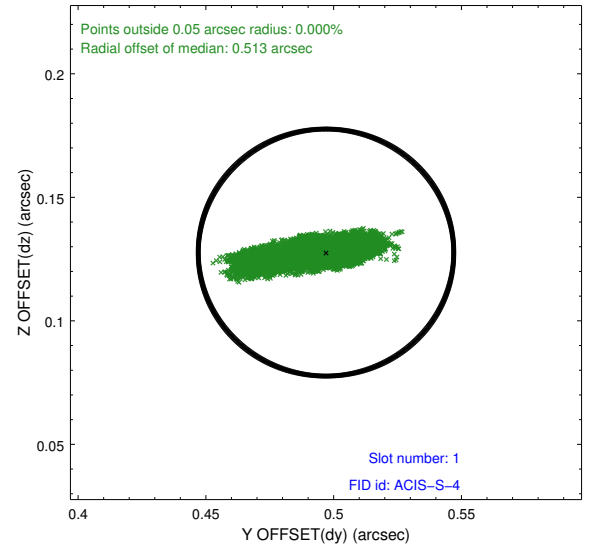
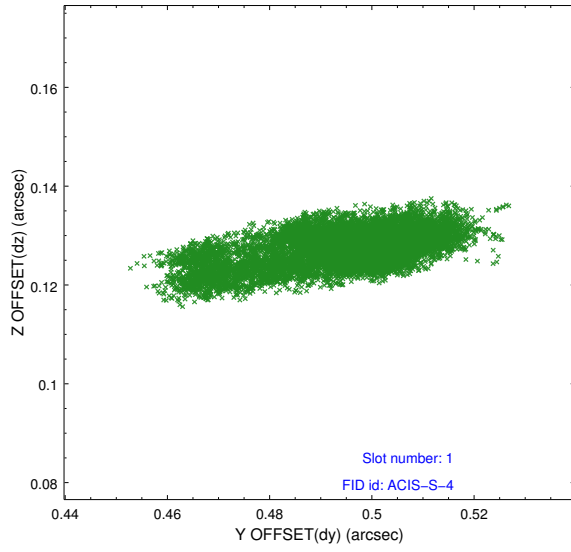


2.5 FID Slots

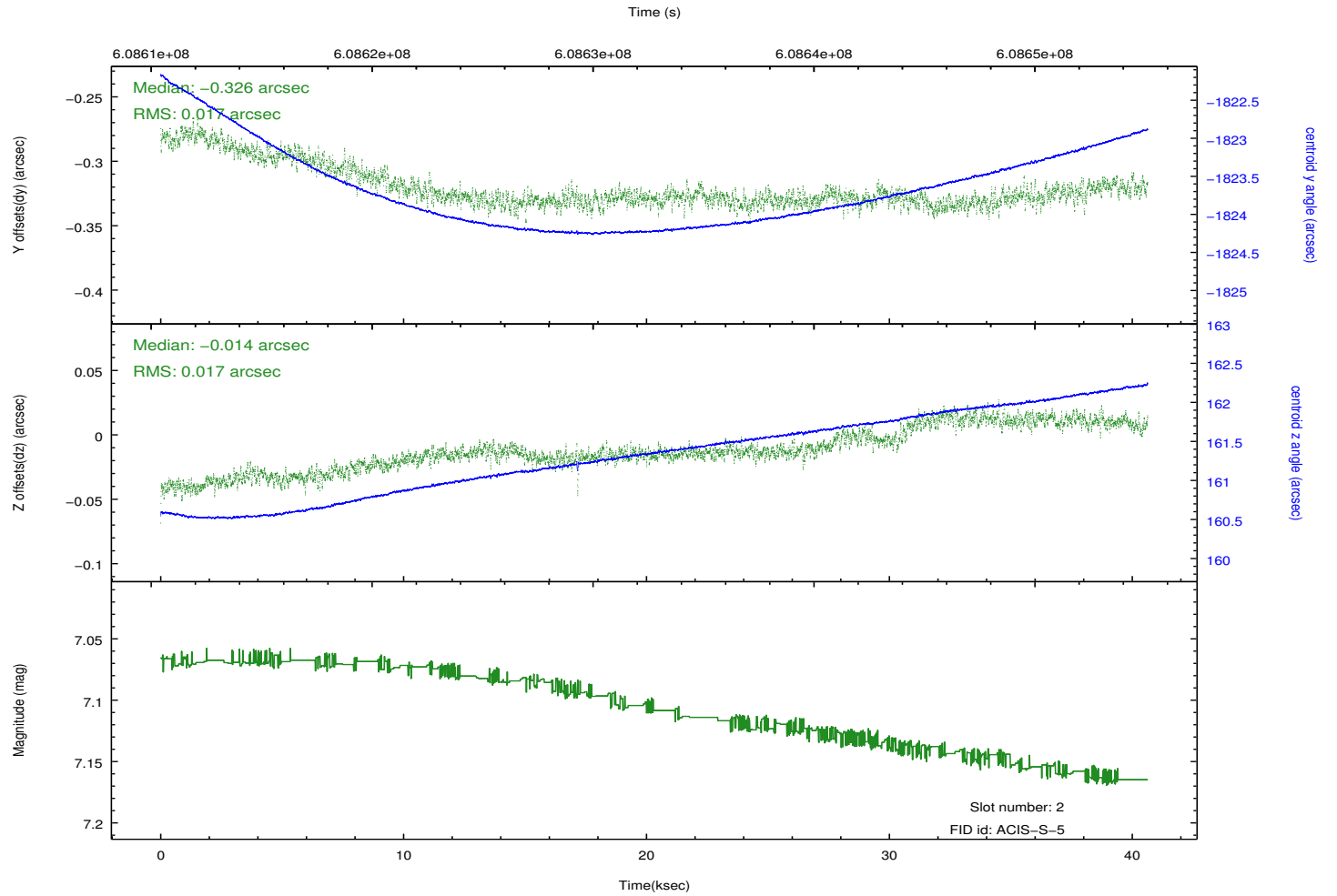
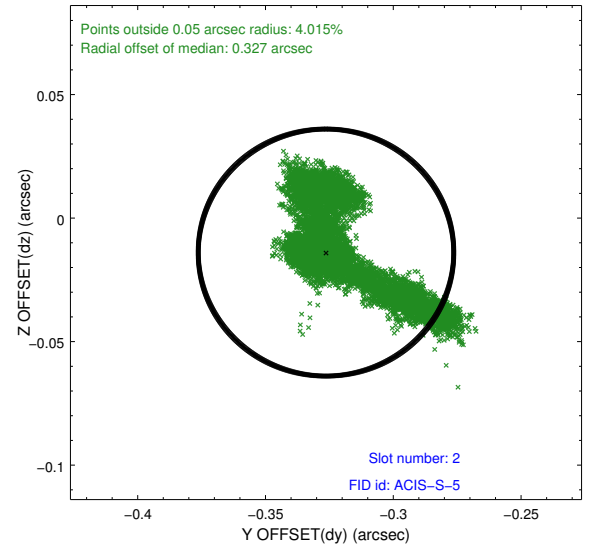
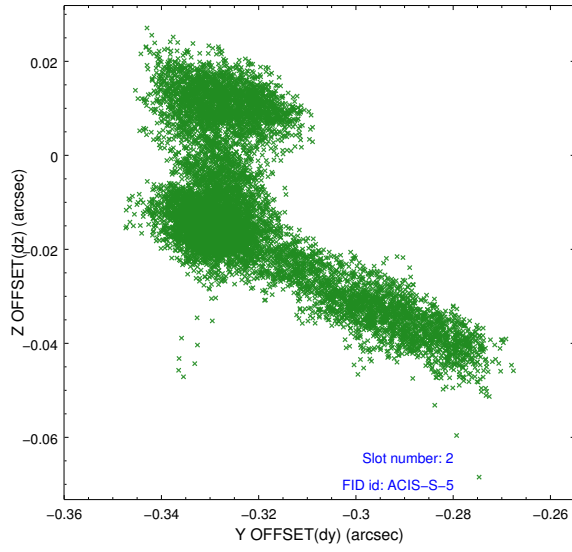
2.5.1 Slot 0



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)	2017.04.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.538700311899

A.2 Comments

Two optional chips were dropped.