

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20316 - L2 Version 2
Chandra X-Ray Center

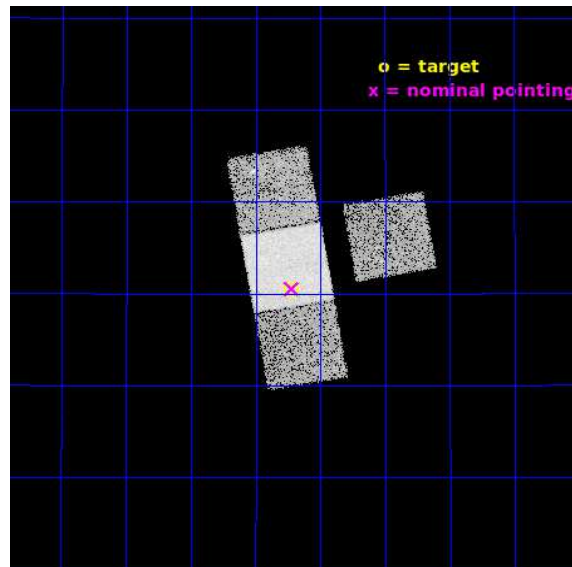
L2 Processing Date : Oct 26 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

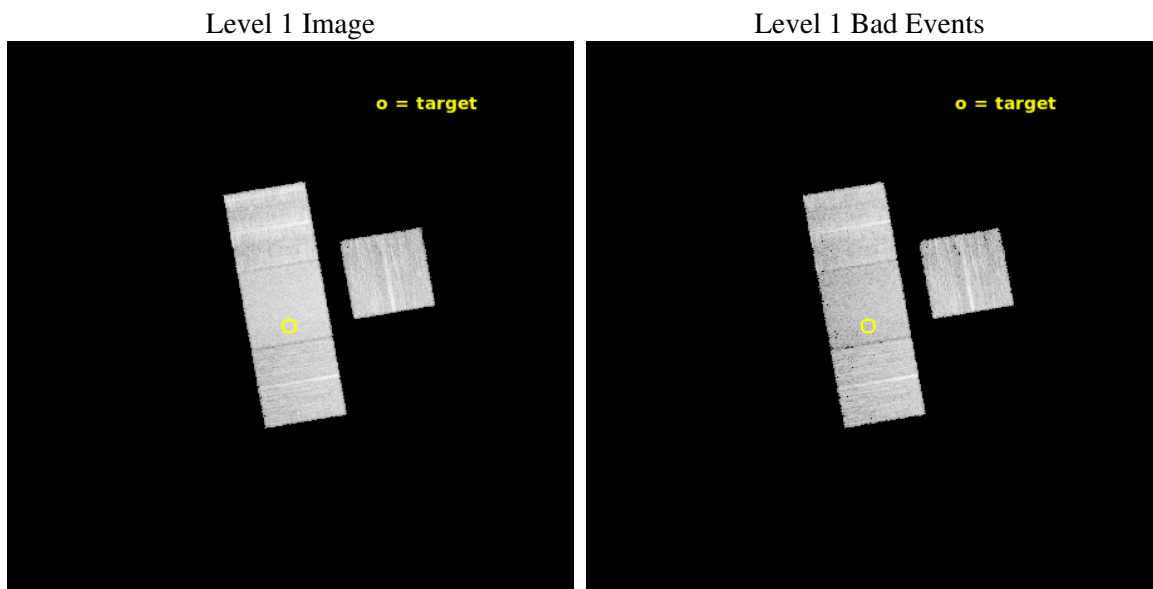
seq_num	503010	Sequence number
obs_id	20316	Observation id
title	Unraveling the physics of engine-driven SNe with ZTF+Chandra	Propo
observer	Alessandra Corsi	Principal investigator
object	ZTF18aaqjovh	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	178.18175	Observer's specified target RA [deg]
dec_targ	25.675028	Observer's specified target Dec [deg]
ra_nom	178.179861456	Nominal RA [deg]
dec_nom	25.67578118903	Nominal Dec [deg]
roll_nom	260.15086619213	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10065.700077534	Sum of GTIs [s]
livetime	9934.1842957602	Livetime [s]
ontime3	10065.700077534	Sum of GTIs [s]
ontime6	10065.700077534	Sum of GTIs [s]
ontime7	10065.700077534	Sum of GTIs [s]
ontime8	10065.700077534	Sum of GTIs [s]
l2events	65265	Number of level 2 events



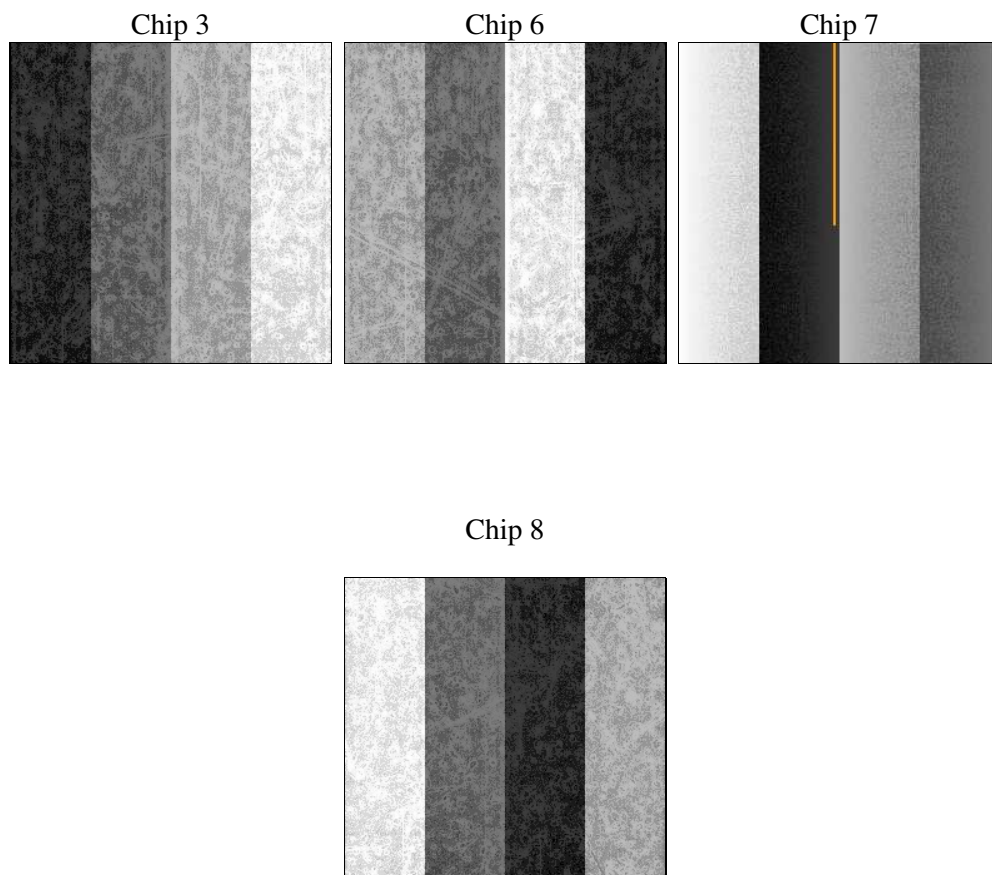
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	10065.700077534	Sum of GTIs [s]
caldsver	4.9.3	 	ontime3	10065.700077534	Sum of GTIs [s]
date	2020-10-26T20:50:45	Date and time of file creation	ontime6	10065.700077534	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	10065.700077534	Sum of GTIs [s]
			ontime8	10065.700077534	Sum of GTIs [s]
			l1events	347279	Number of level 1 events

2.1.4 Events

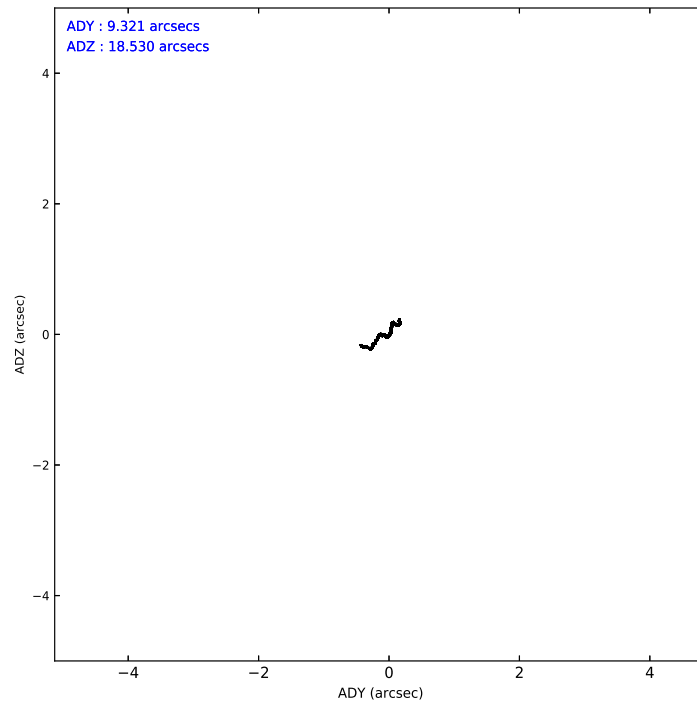
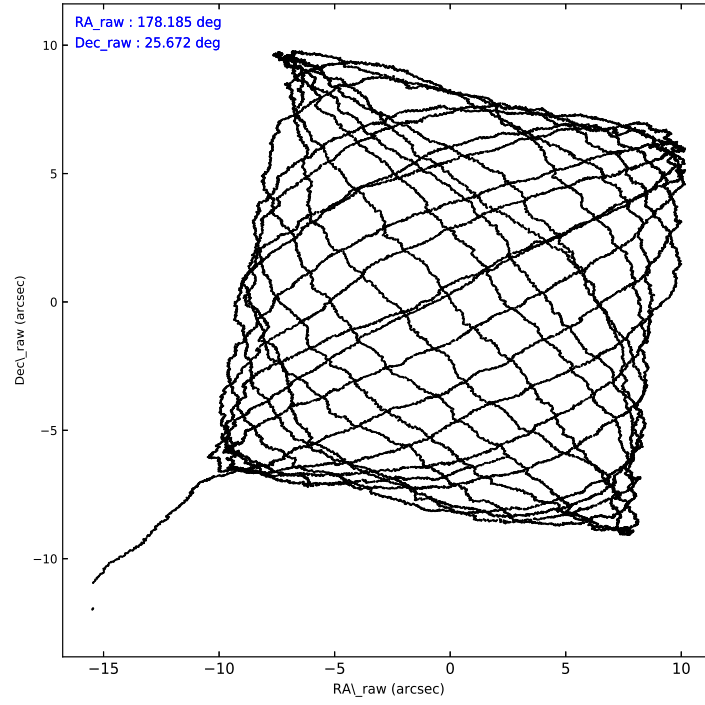
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	73720	76129	96376	101054
rejected events	65538	67438	54293	72462
rejected %	88%	88%	56%	71%

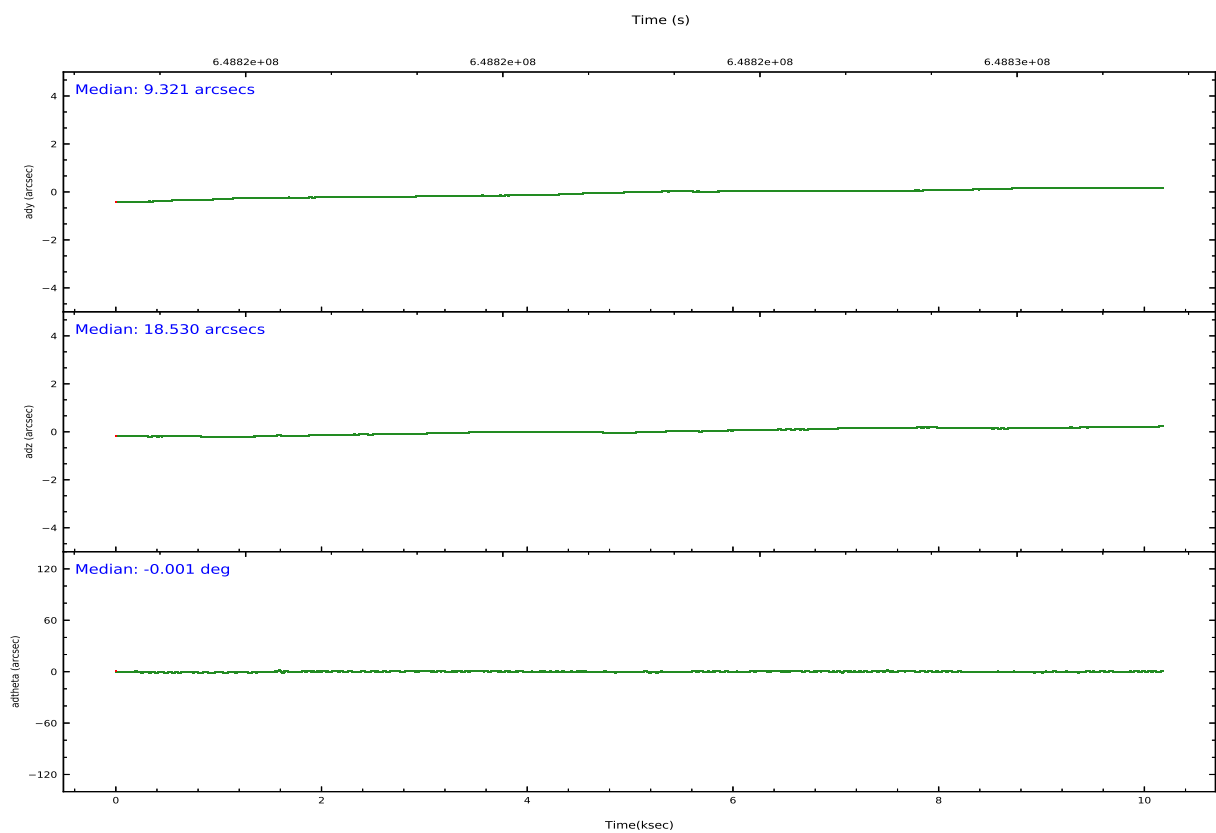
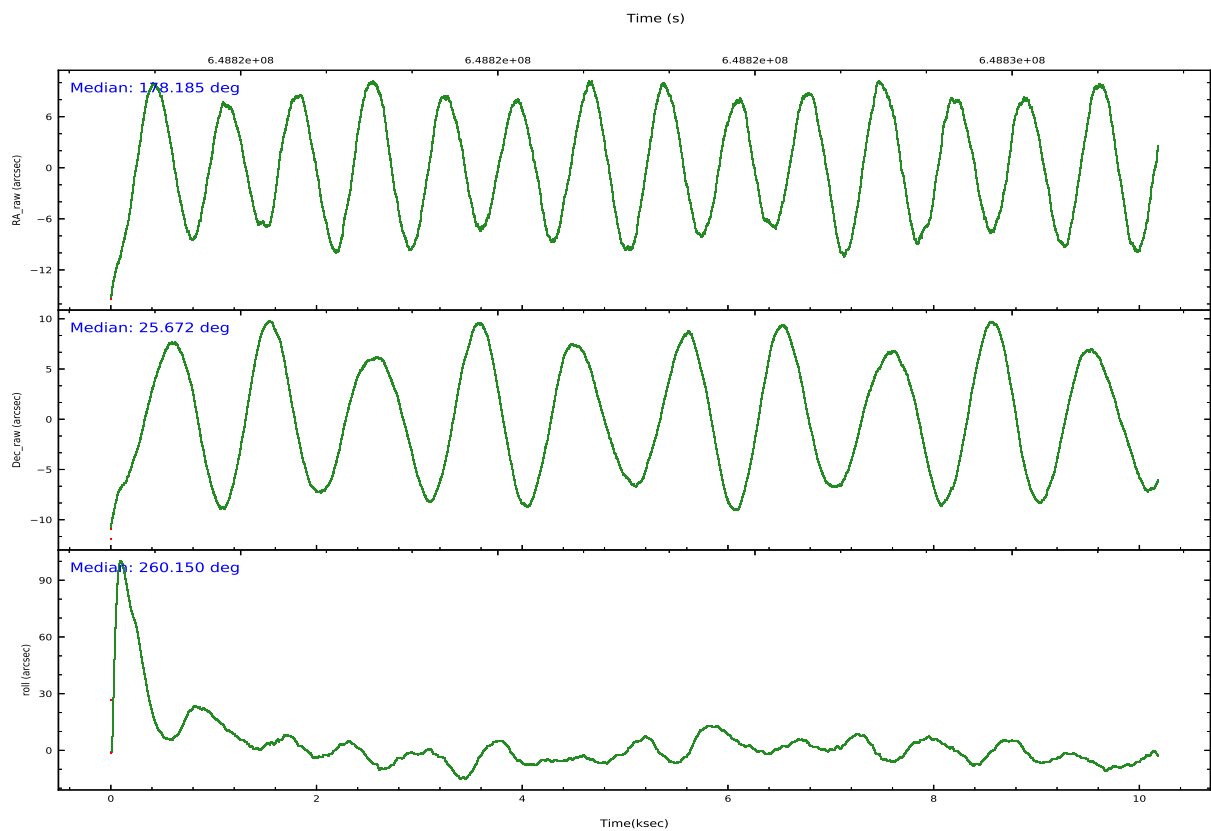
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3113	2887	3631	8460
	4%	3%	3%	8%
grade 1 events	41	45	132	78
	0%	0%	0%	0%
grade 2 events	1762	2100	9174	6868
	2%	2%	9%	6%
grade 3 events	809	864	3397	3061
	1%	1%	3%	3%
grade 4 events	809	817	3299	2837
	1%	1%	3%	2%
grade 5 events	3704	3670	9604	5400
	5%	4%	9%	5%
grade 6 events	1692	2030	22622	7372
	2%	2%	23%	7%
grade 7 events	61790	63716	44517	66978
	83%	83%	46%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-3678	ACIS-3678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	178.174403	178.179861456	CCD I2 on	O1	N
[deg] Pointing Dec	25.697854	25.67578118903	CCD I3 on	Y	Y
[deg] Pointing Roll	260.003184	260.15086619213	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[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)	648818921.184000	648817910.7199	CCD S5 on	N	N
Observation start date	2018-07-24T11:27:32	2018-07-24T11:11:50	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	648828921.184000	648829663.8831	On-chip summing requested	N	N
Observation end date	2018-07-24T14:14:12	2018-07-24T14:27:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



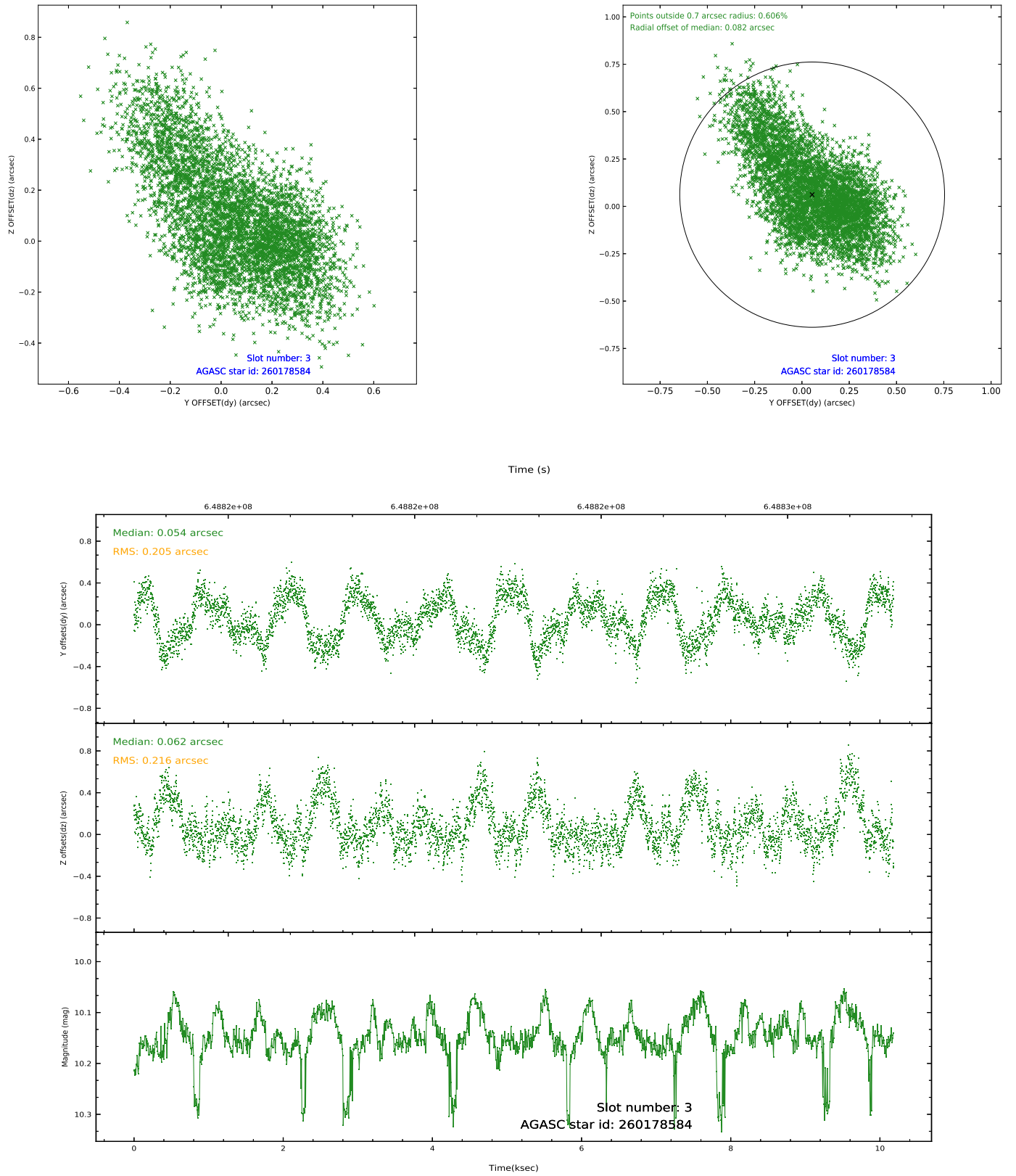


Slot Statistics

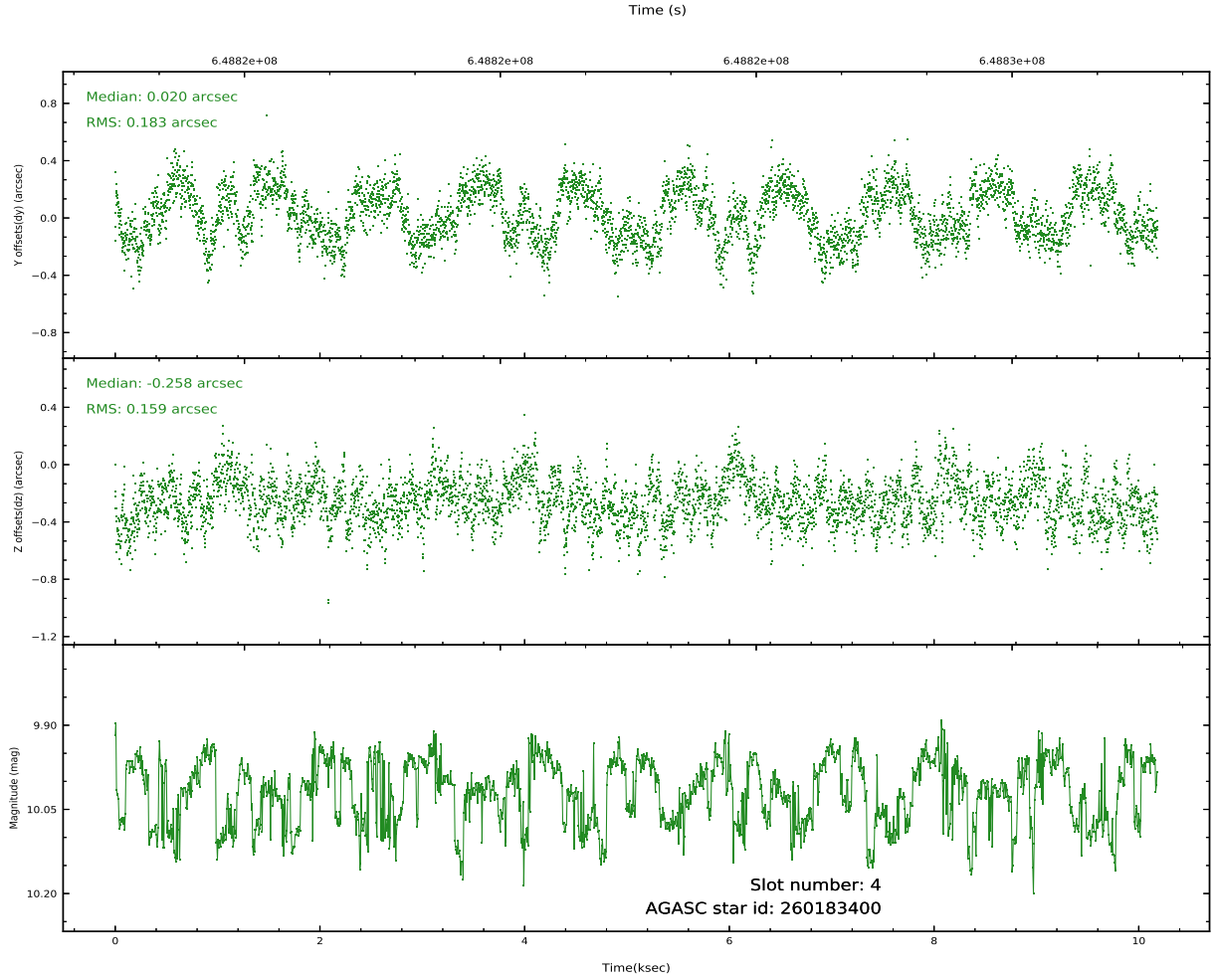
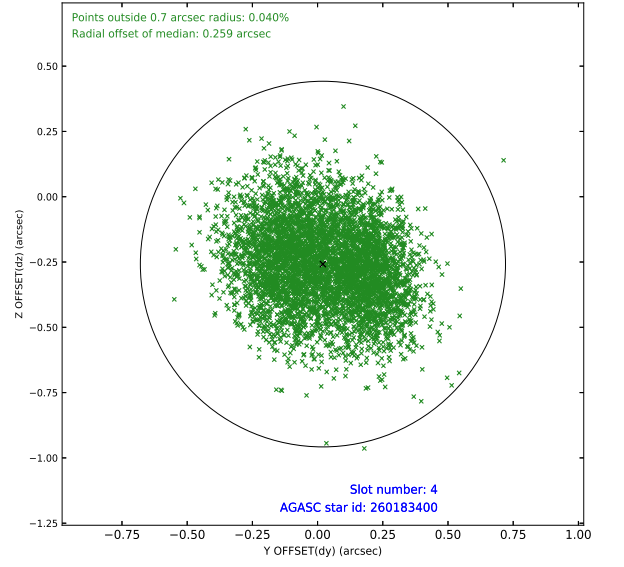
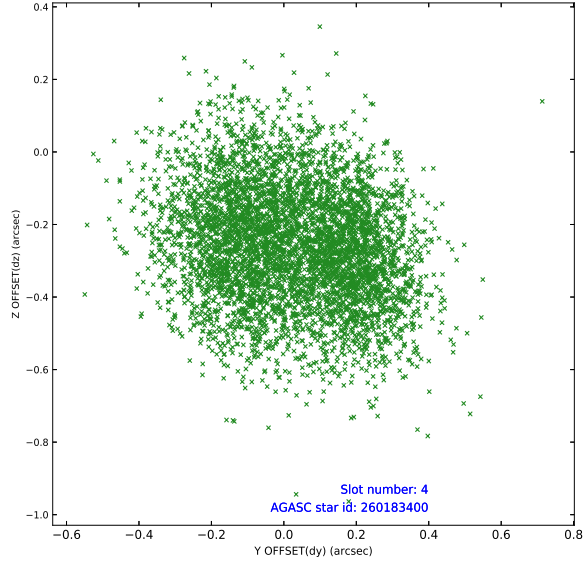
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.09	2484	1.000	0.172	-0.023	0.009	0.015	0.000000	0.000000	933.99	-1735
1	FID		ACIS-S-4	7.10	2484	1.000	0.063	-0.062	0.008	0.015	0.000000	0.000000	2151.72	167
2	FID		ACIS-S-5	7.10	2484	1.000	-0.261	0.098	0.007	0.014	0.000000	0.000000	-1814.50	162
3	GUIDE	used	260178584	10.15	4954	1.000	0.054	0.062	0.307	0.537	178.151286	26.181703	-1701.52	-375
4	GUIDE	used	260183400	10.01	4959	1.000	0.020	-0.258	0.262	0.398	177.837542	25.336443	1470.59	-853
5	GUIDE	used	260184000	10.19	4950	1.000	-0.076	-0.027	0.248	0.388	178.824306	26.006369	-1462.79	1878
6	GUIDE	used	260184640	9.10	4966	1.000	-0.175	0.188	0.215	0.345	178.749062	25.759563	-546.60	1796
7	GUIDE	used	260189136	9.55	4958	1.000	0.177	0.010	0.189	0.311	178.017162	25.725562	-10.40	-521

2.4 Star Slots

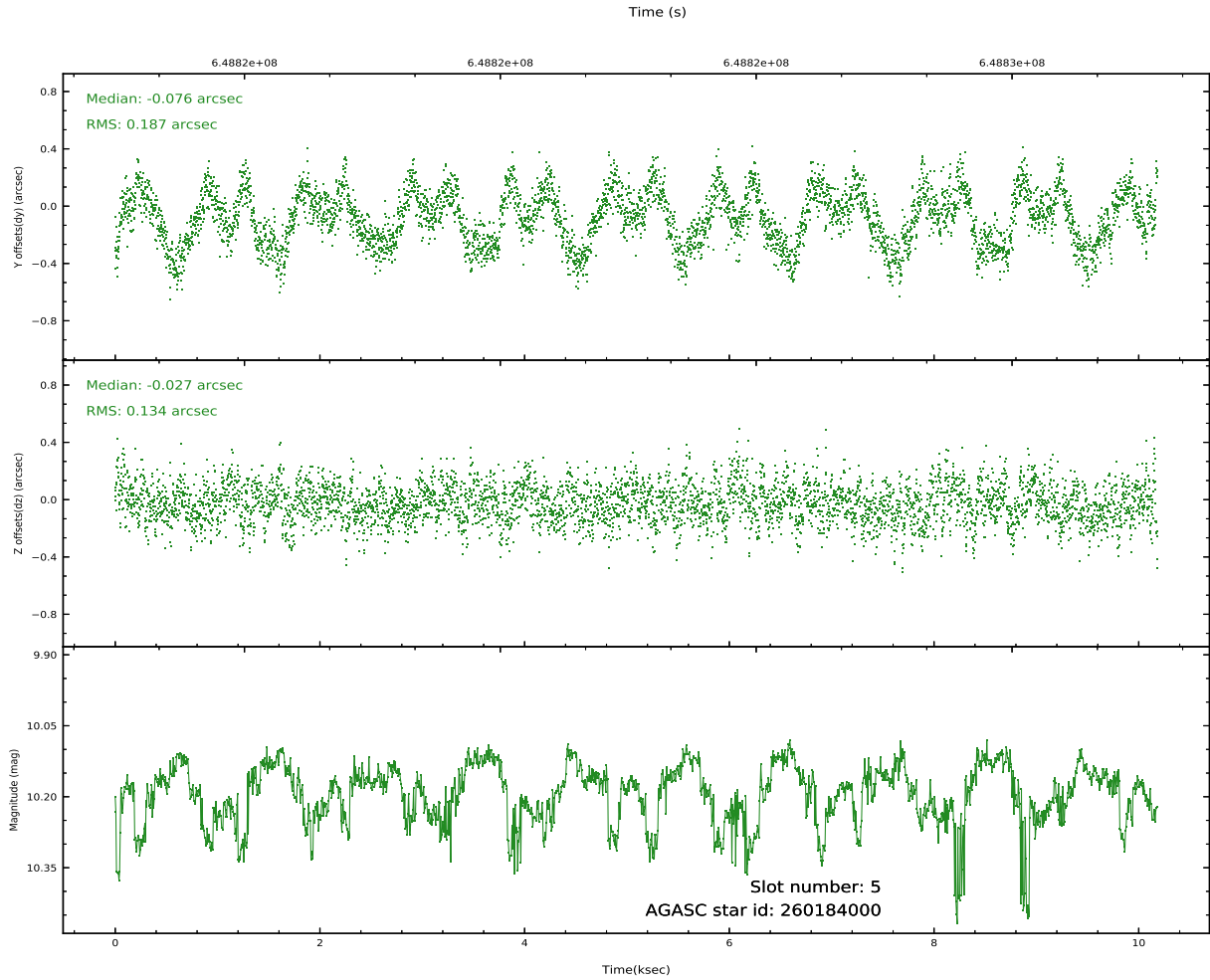
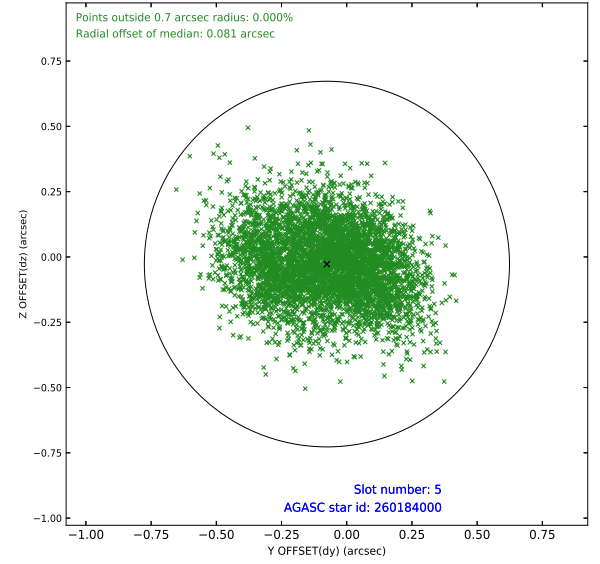
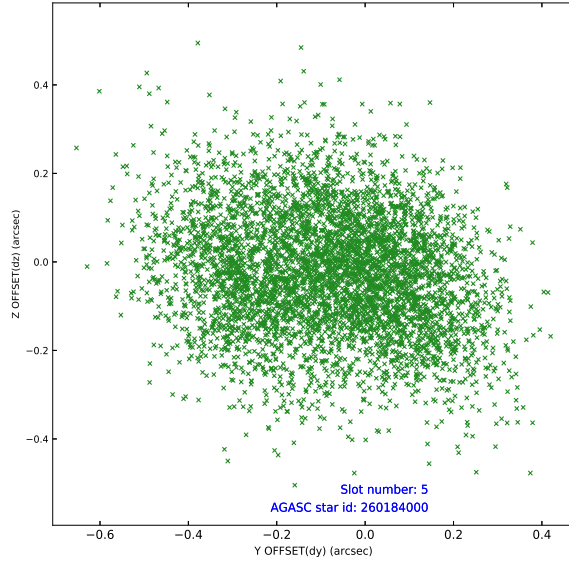
2.4.1 Slot 3



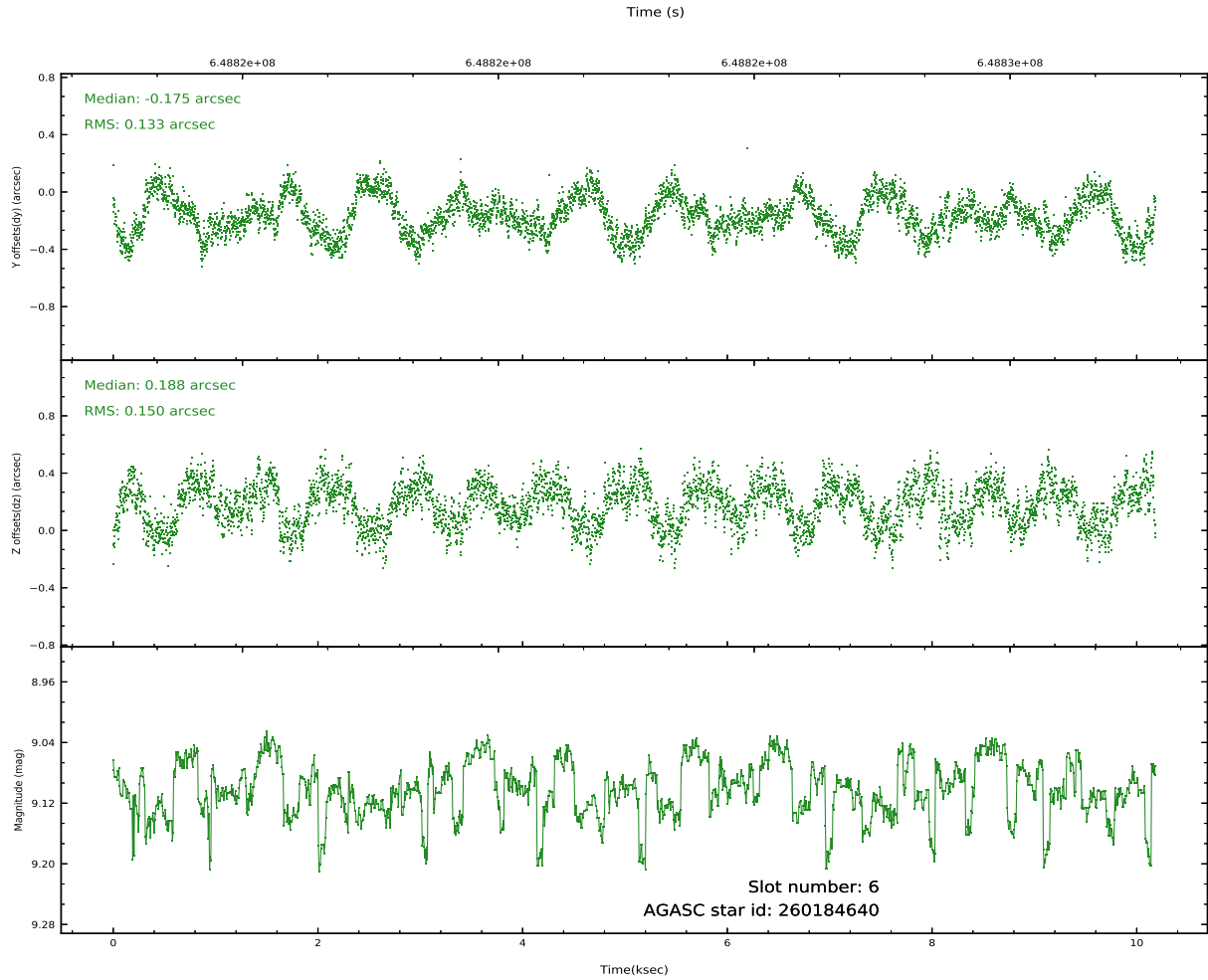
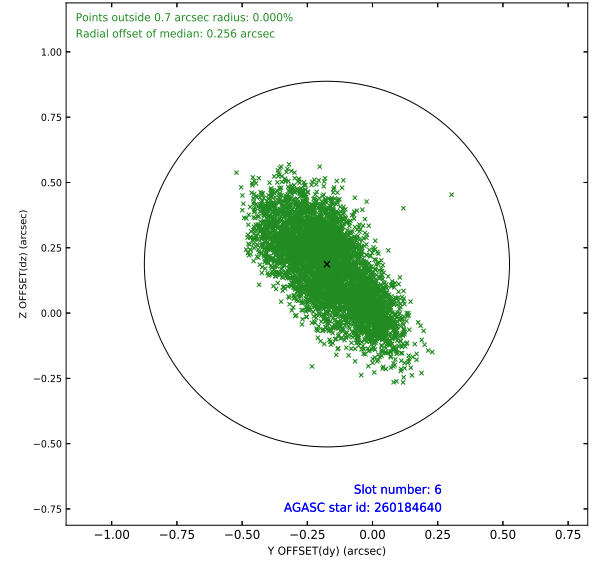
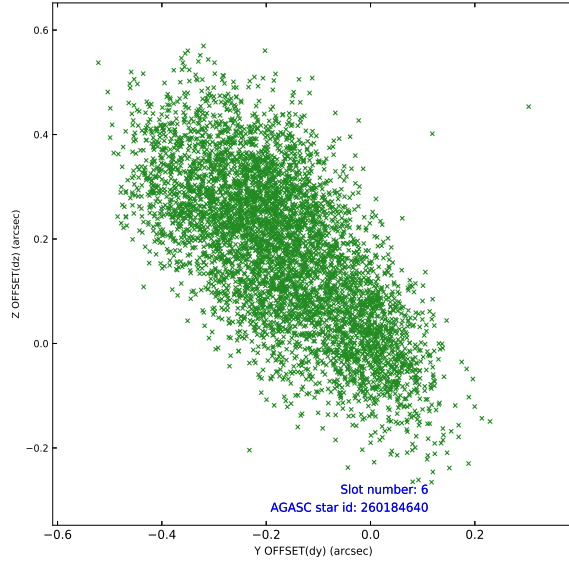
2.4.2 Slot 4



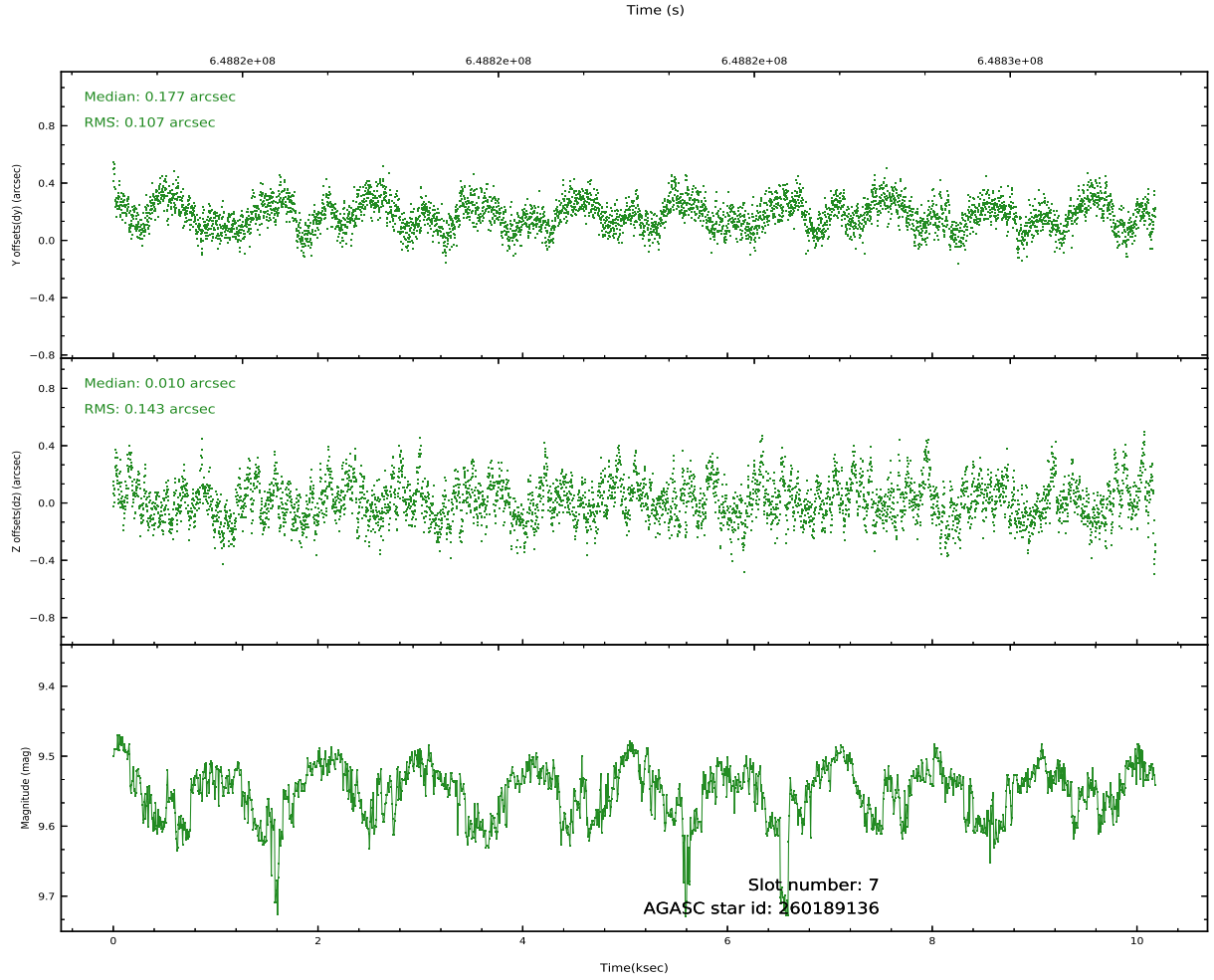
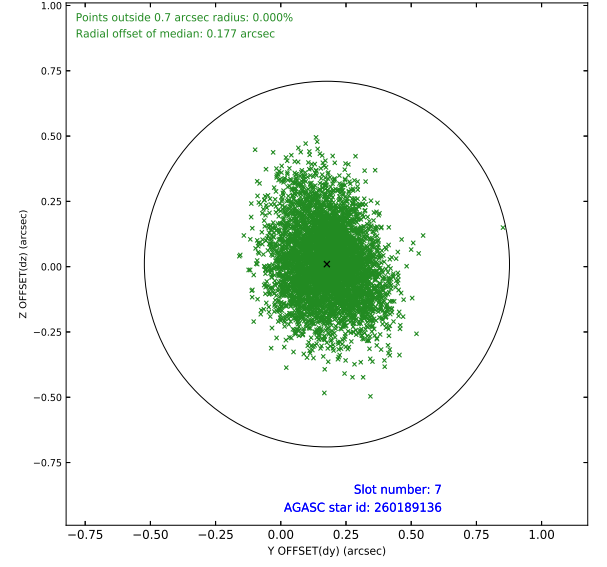
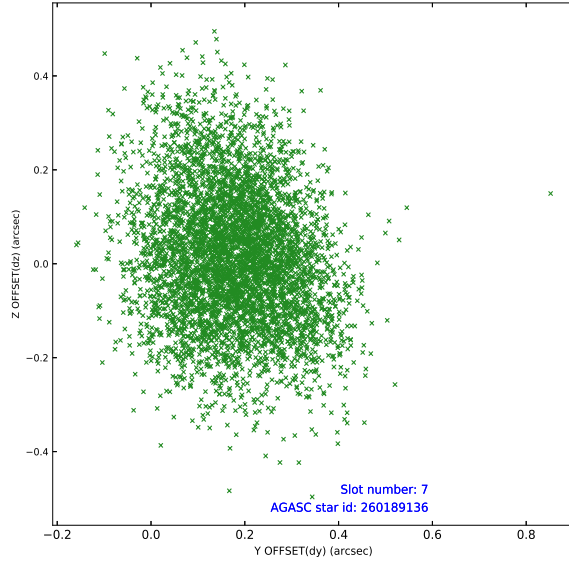
2.4.3 Slot 5



2.4.4 Slot 6

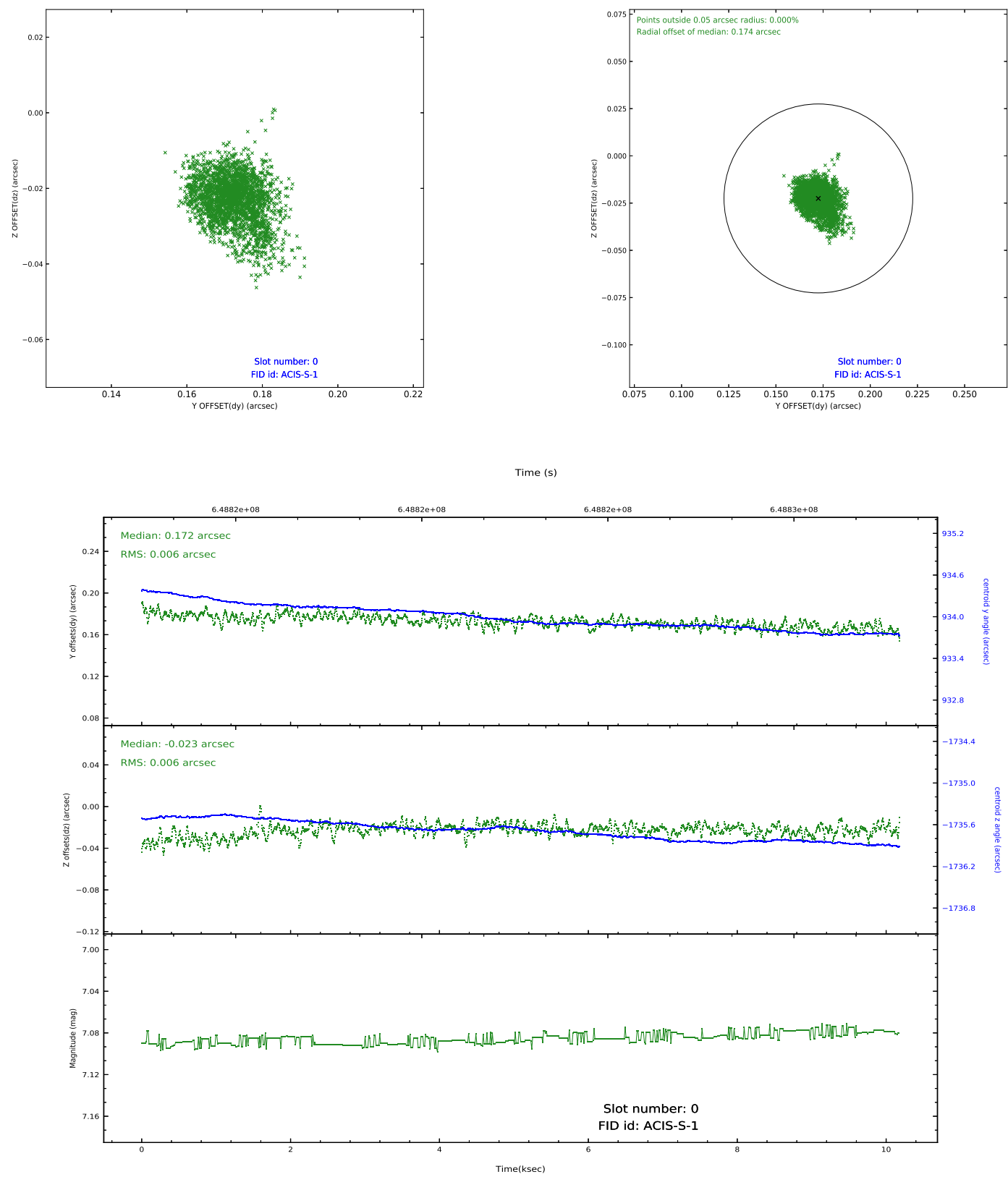


2.4.5 Slot 7

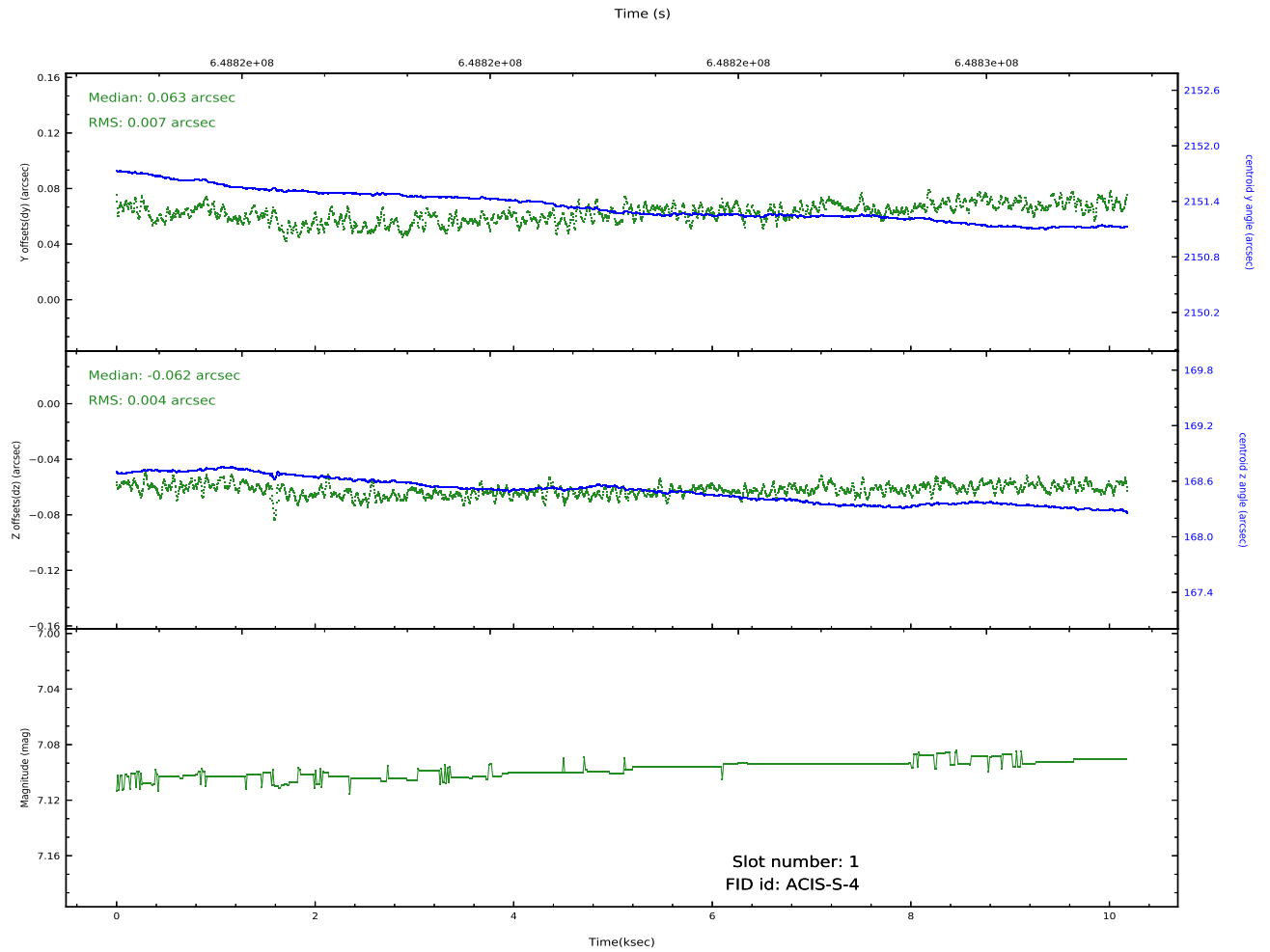
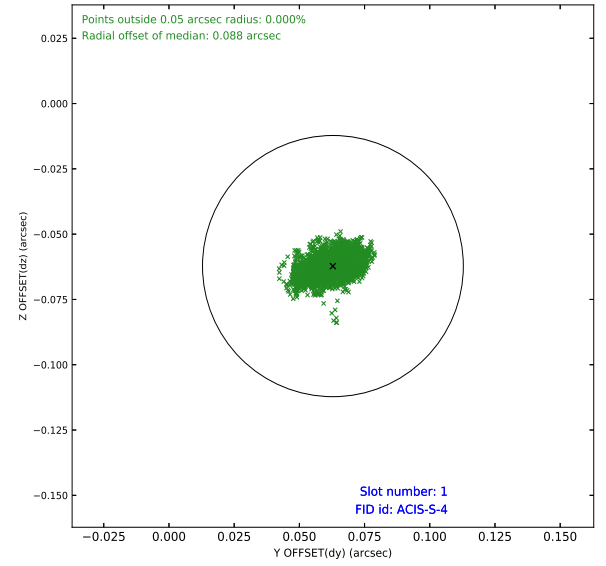
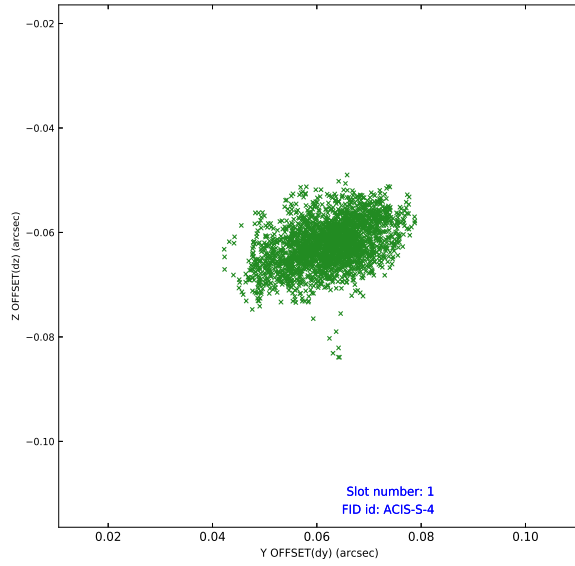


2.5 FID Slots

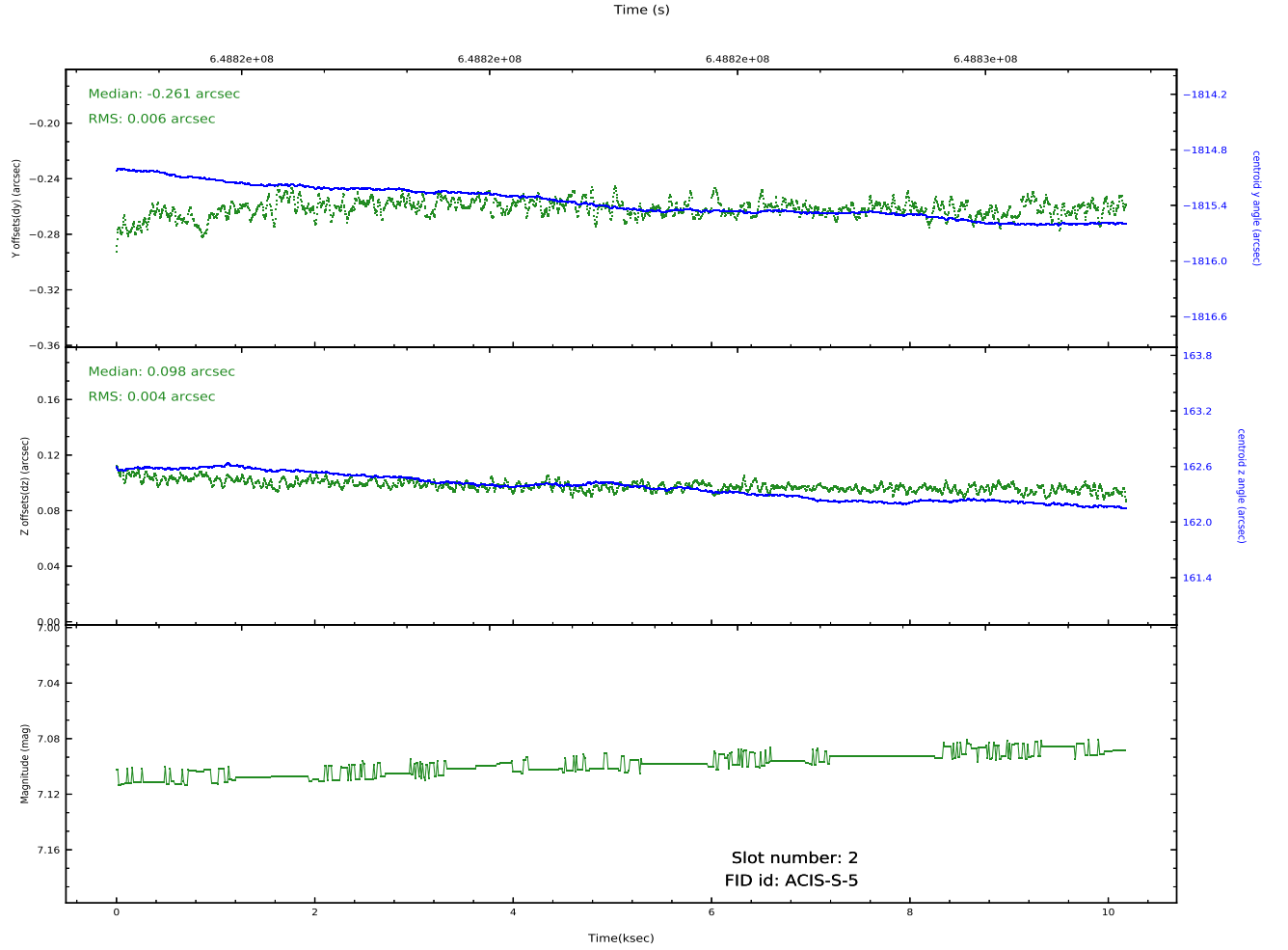
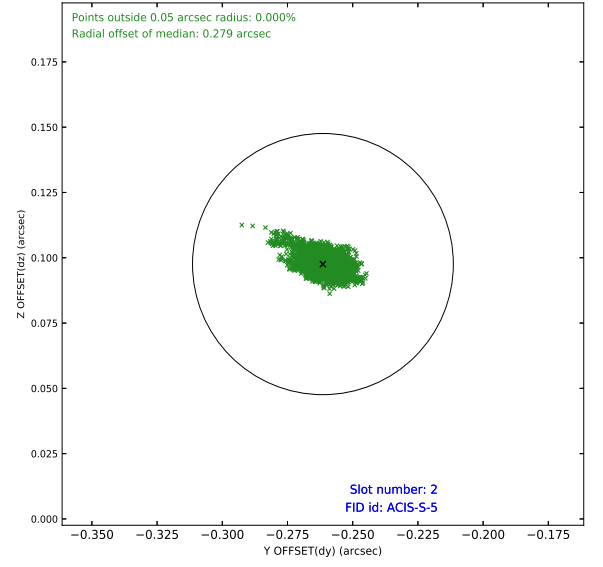
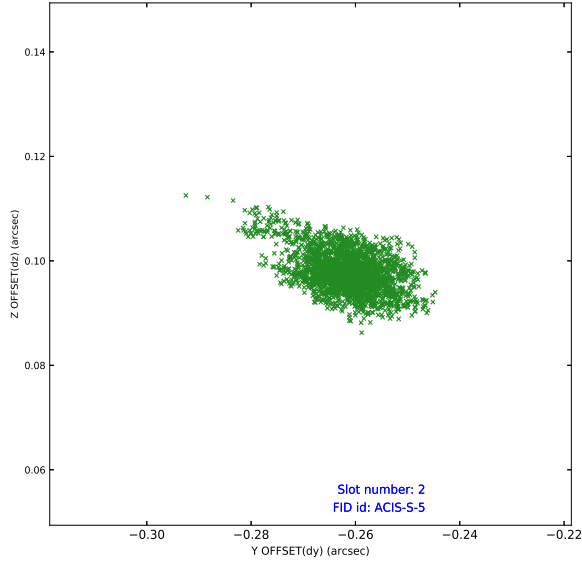
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.065700077534

A.2 Comments

Monitor constraint met. Optional chip I2 not included.