

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20315 - L2 Version 2
Chandra X-Ray Center

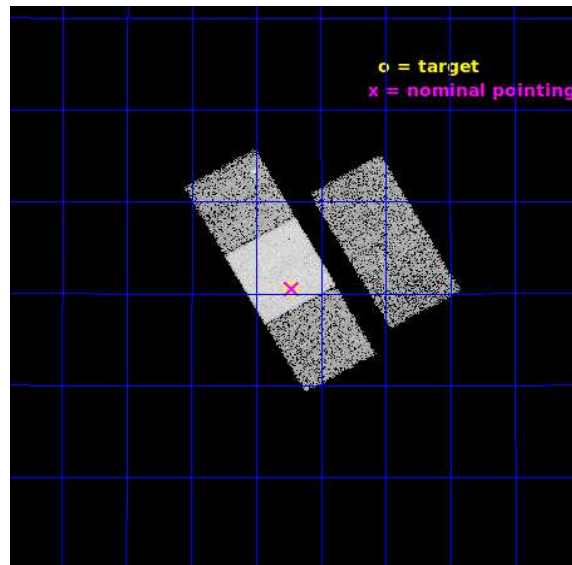
L2 Processing Date : Oct 25 2020

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1 Front

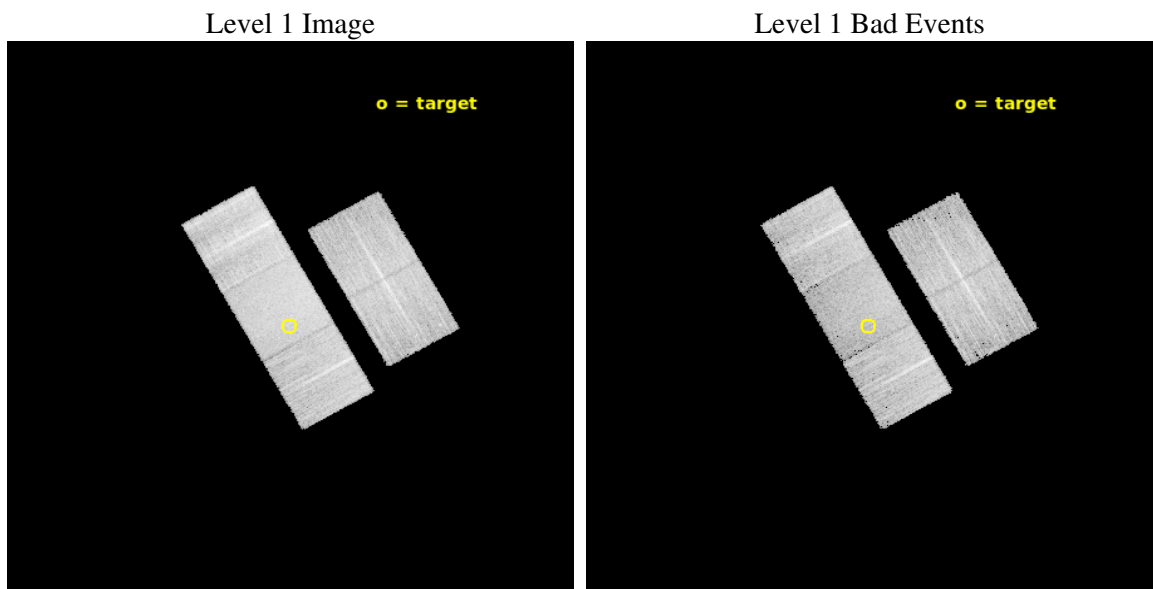
seq_num	503009	Sequence number
obs_id	20315	Observation id
title	Unraveling the physics of engine-driven SNe with ZTF+Chandra	Propo
observer	Alessandra Corsi	Principal investigator
object	ZTF18aaqjovh	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	178.18175	Observer's specified target RA [deg]
dec_targ	25.675028	Observer's specified target Dec [deg]
ra_nom	178.18091244342	Nominal RA [deg]
dec_nom	25.675771656722	Nominal Dec [deg]
roll_nom	240.45912039984	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10058.914444447	Sum of GTIs [s]
livetime	9927.4873219648	Livetime [s]
ontime2	10058.750284433	Sum of GTIs [s]
ontime3	10058.83236444	Sum of GTIs [s]
ontime6	10058.873404503	Sum of GTIs [s]
ontime7	10058.914444447	Sum of GTIs [s]
ontime8	10058.791324496	Sum of GTIs [s]
l2events	69519	Number of level 2 events



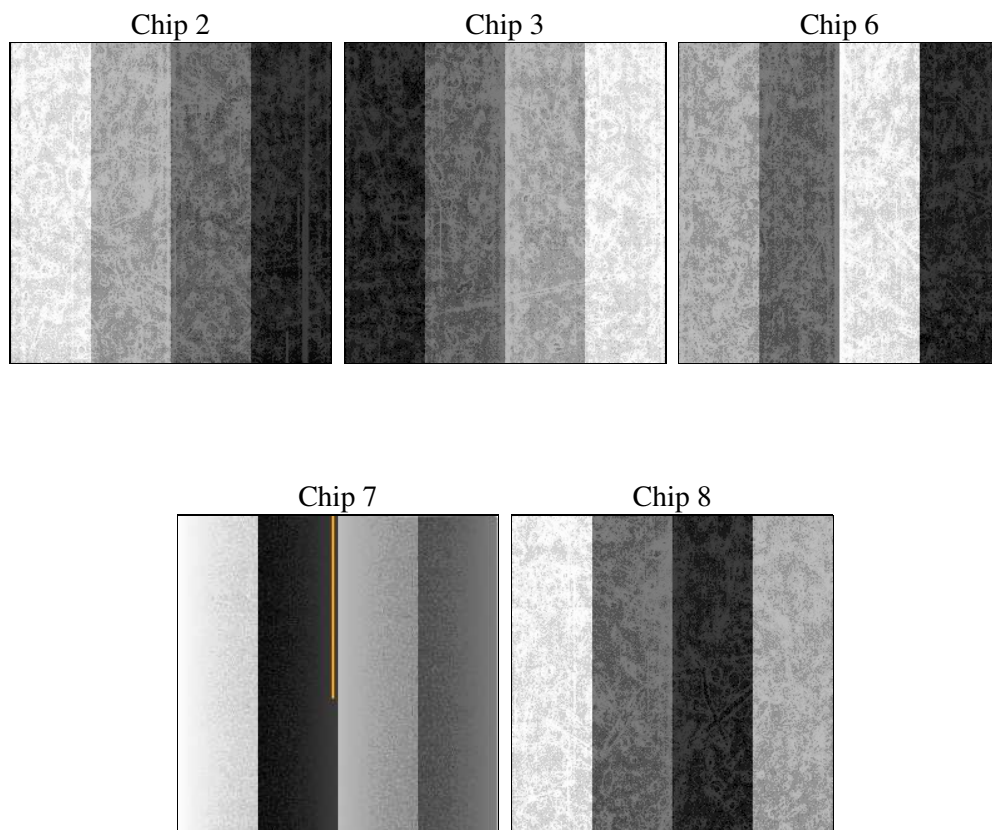
2 OBI

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	10058.914444447	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	10058.750284433	Sum of GTIs [s]
date	2020-10-26T01:07:01	Date and time of file creation	ontime3	10058.83236444	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	10058.873404503	Sum of GTIs [s]
			ontime7	10058.914444447	Sum of GTIs [s]
			ontime8	10058.791324496	Sum of GTIs [s]
			l1events	411862	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	71880	69916	76475	94967	98624
rejected events	63531	62069	67999	53605	71896
rejected %	88%	88%	88%	56%	72%

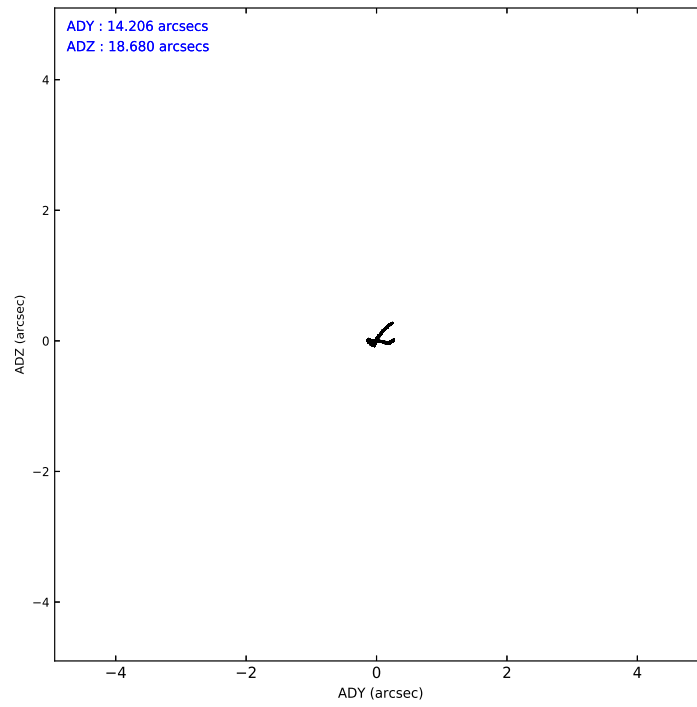
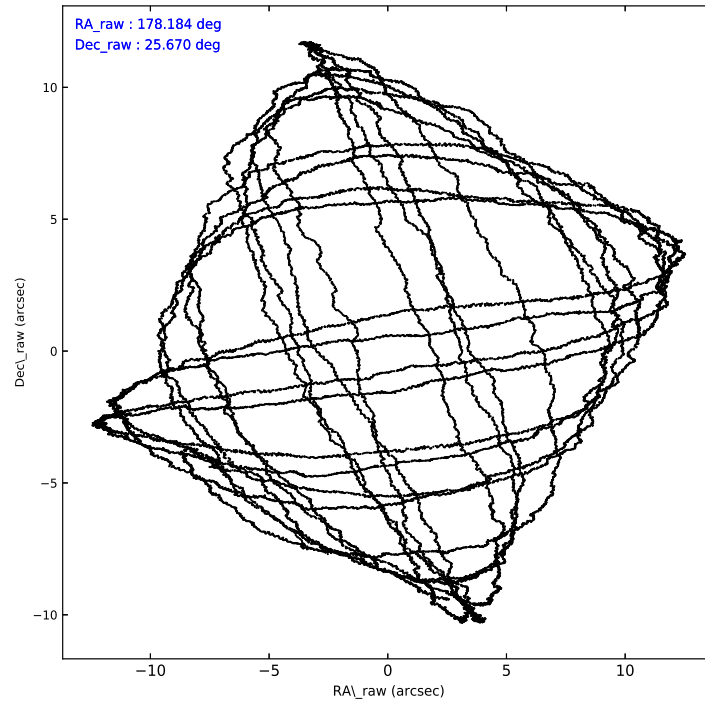
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2932	2828	2841	3502	7814
	4%	4%	3%	3%	7%
grade 1 events	42	54	49	134	78
	0%	0%	0%	0%	0%
grade 2 events	2125	1745	2006	8887	6607
	2%	2%	2%	9%	6%
grade 3 events	860	788	845	3206	2634
	1%	1%	1%	3%	2%
grade 4 events	776	844	822	3329	2395
	1%	1%	1%	3%	2%
grade 5 events	2973	3563	3586	9454	5436
	4%	5%	4%	9%	5%
grade 6 events	1663	1646	1970	22462	7289
	2%	2%	2%	23%	7%
grade 7 events	60509	58448	64356	43993	66371
	84%	83%	84%	46%	67%

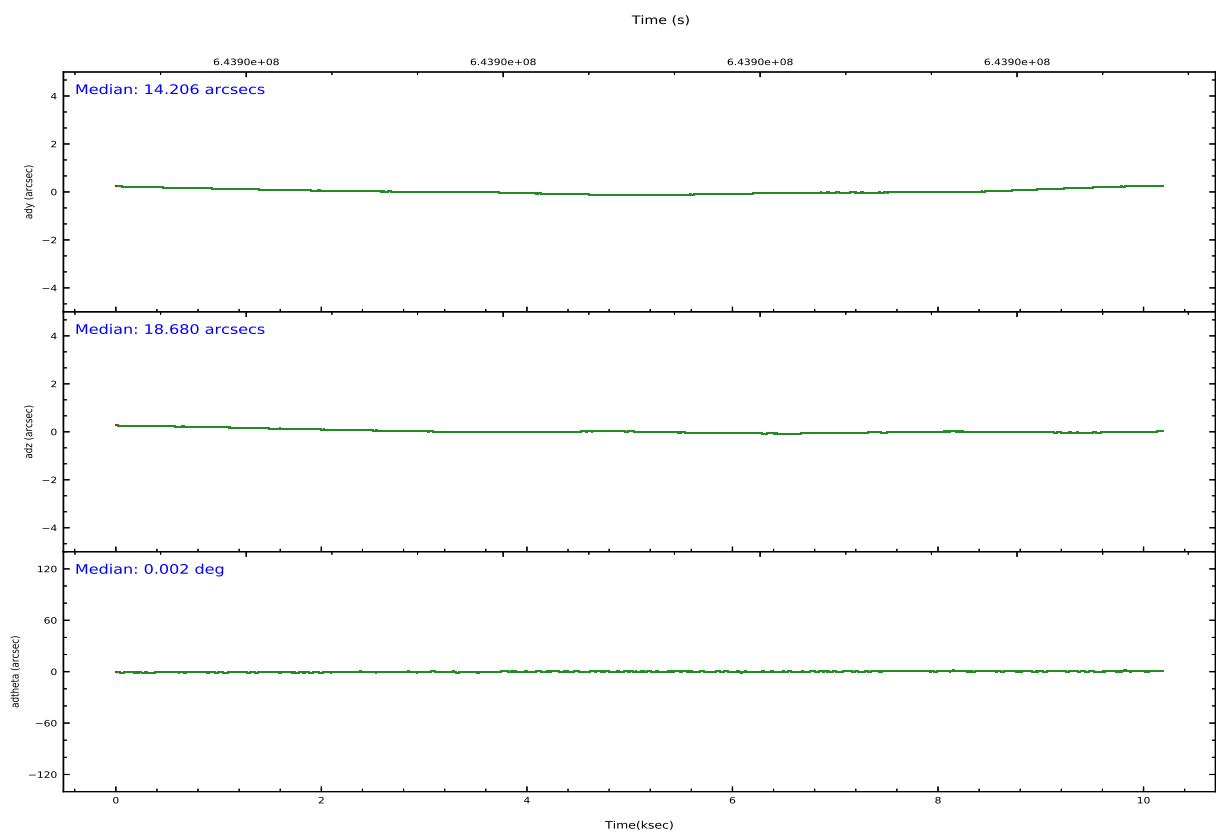
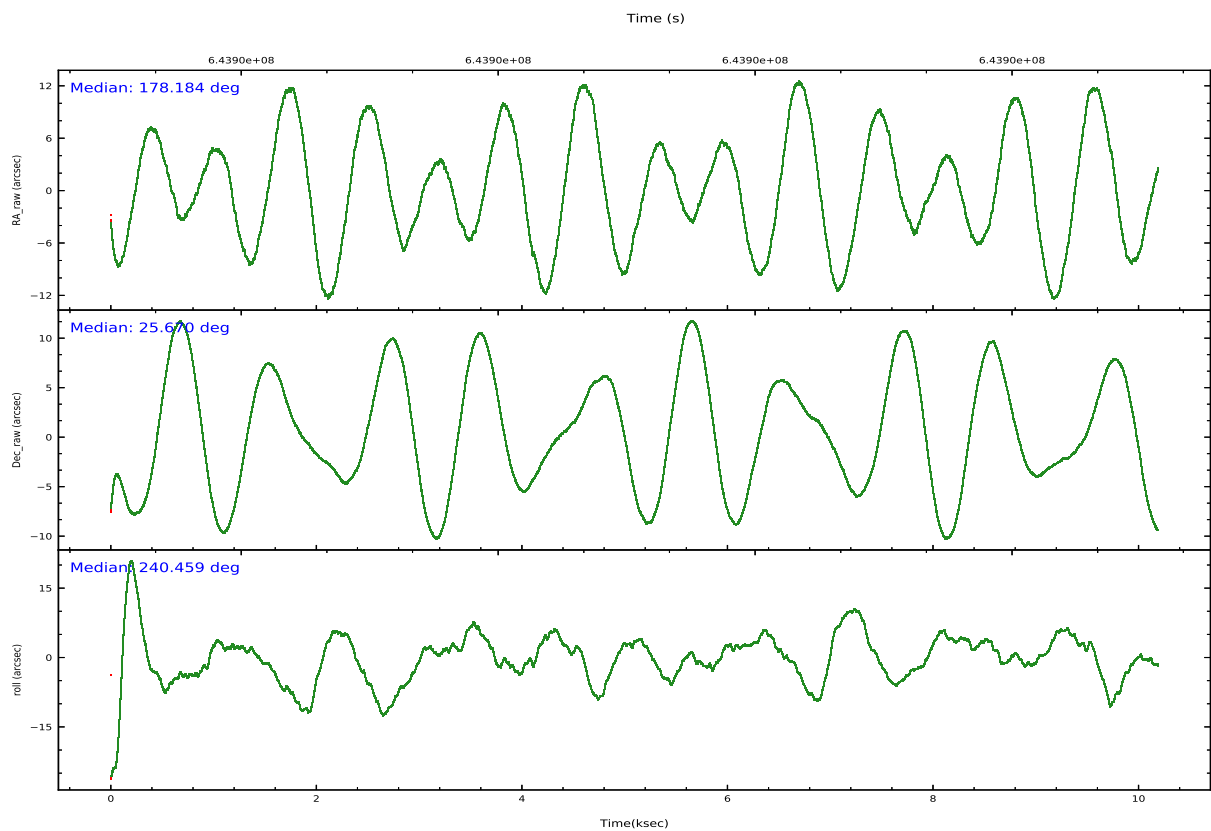
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	178.183236	178.18091244342
[deg] Pointing Dec	25.697067	25.675771656722
[deg] Pointing Roll	240.303199	240.45912039984
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	643893922.184000	643892895.61586
Observation start date	2018-05-28T11:24:13	2018-05-28T11:08:15
[s] Observation end time (MET)	643903922.184000	643904769.7290699
Observation end date	2018-05-28T14:10:53	2018-05-28T14:26:09
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



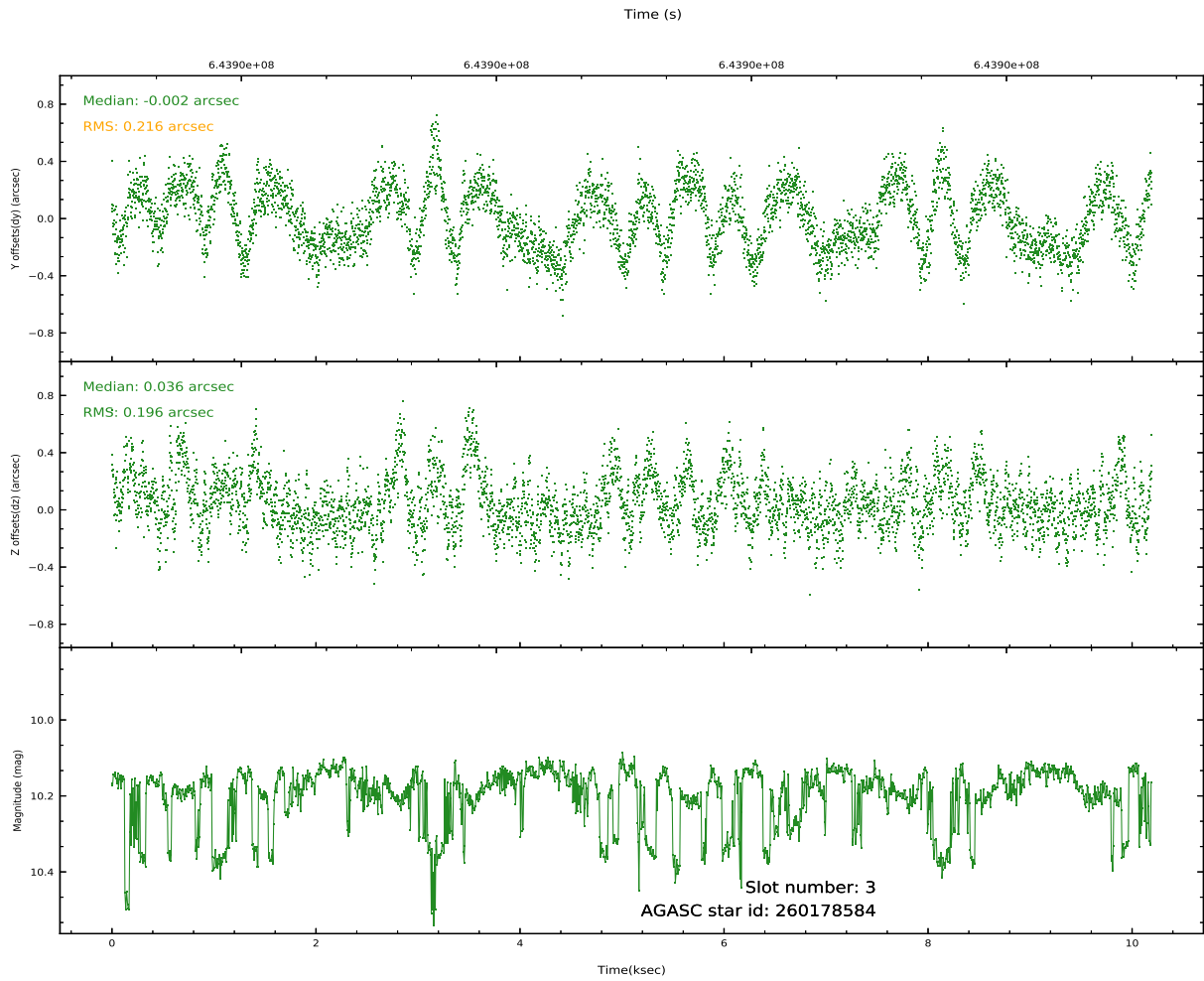
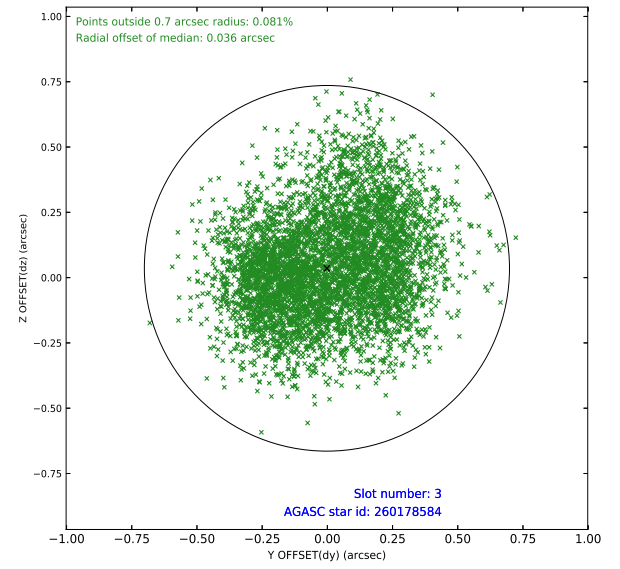
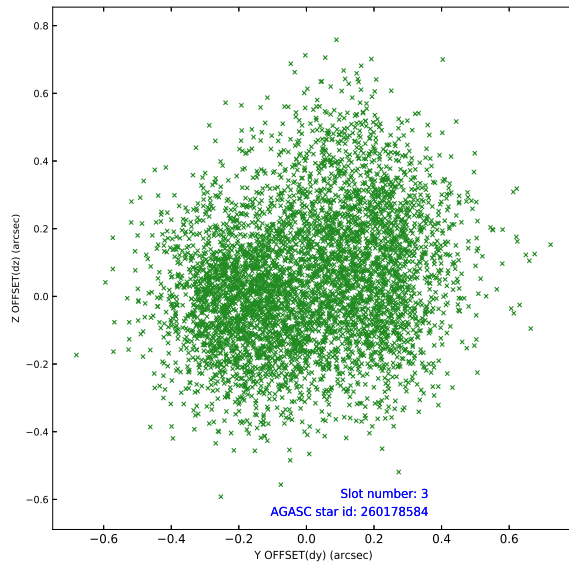


Slot Statistics

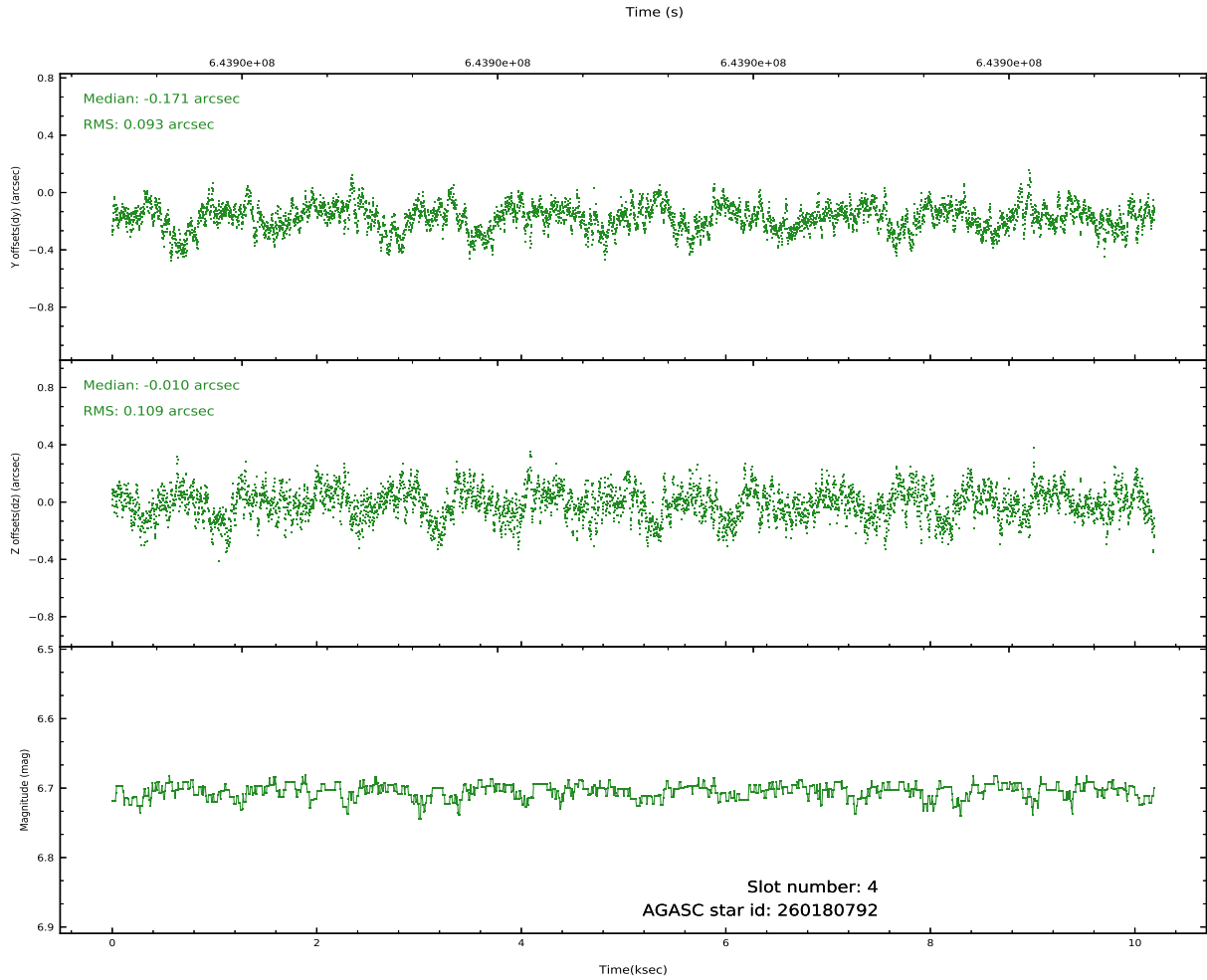
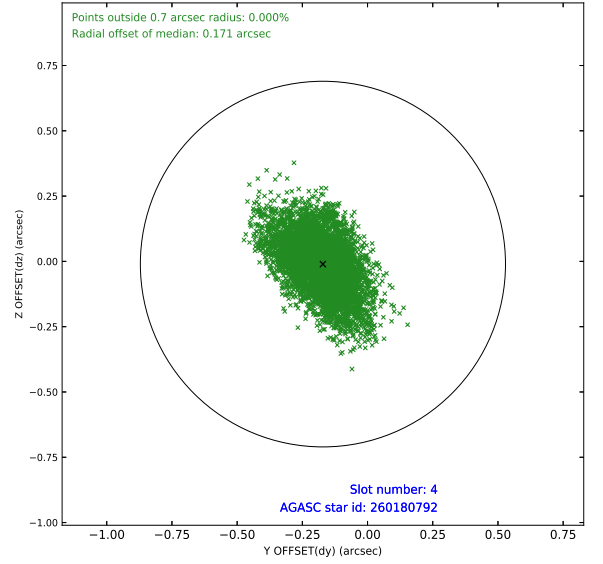
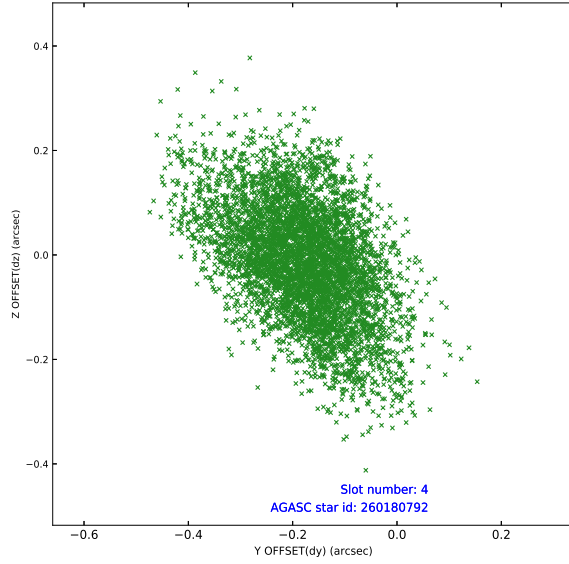
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.92	2486	1.000	0.097	-0.074	0.008	0.014	0.000000	0.000000	-767.26	-1740
1	FID		ACIS-S-4	7.04	2486	1.000	0.131	-0.026	0.006	0.011	0.000000	0.000000	2146.00	167
2	FID		ACIS-S-5	7.02	2486	1.000	-0.259	0.110	0.008	0.015	0.000000	0.000000	-1819.61	162
3	GUIDE	used	260178584	10.18	4944	1.000	-0.002	0.036	0.314	0.480	178.151286	26.181703	-1463.72	-954
4	GUIDE	used	260180792	6.70	4971	1.000	-0.171	-0.010	0.150	0.255	178.852125	25.522226	-534.38	2195
5	GUIDE	used	260184640	9.10	4965	1.000	-0.048	0.156	0.143	0.236	178.749062	25.759563	-1107.69	1480
6	GUIDE	used	260185152	9.91	4968	1.000	0.136	-0.268	0.229	0.401	178.099058	25.441662	934.15	218
7	GUIDE	used	260189136	9.52	4900	1.000	0.093	0.082	0.244	0.396	178.017162	25.725562	177.84	-521

2.4 Star Slots

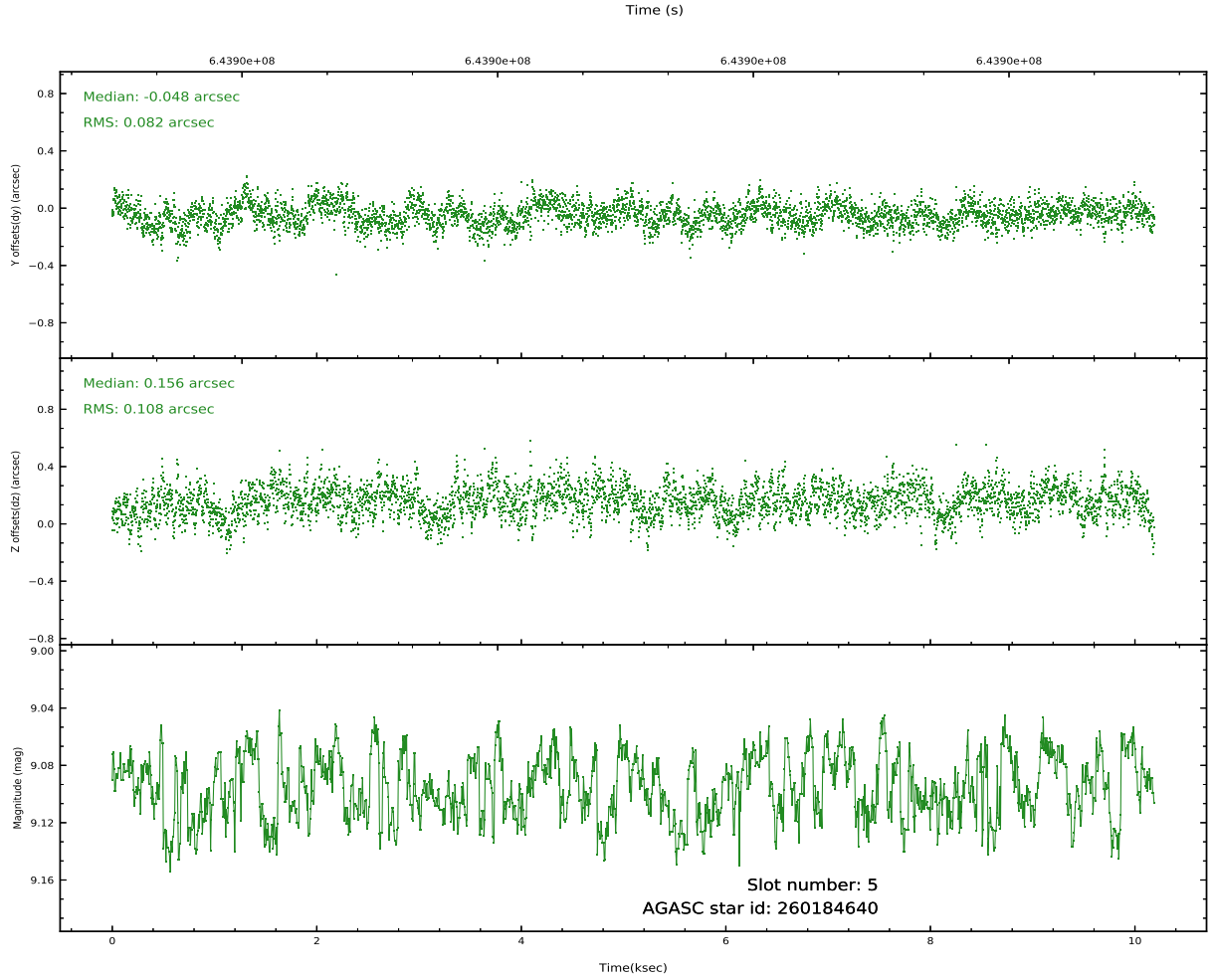
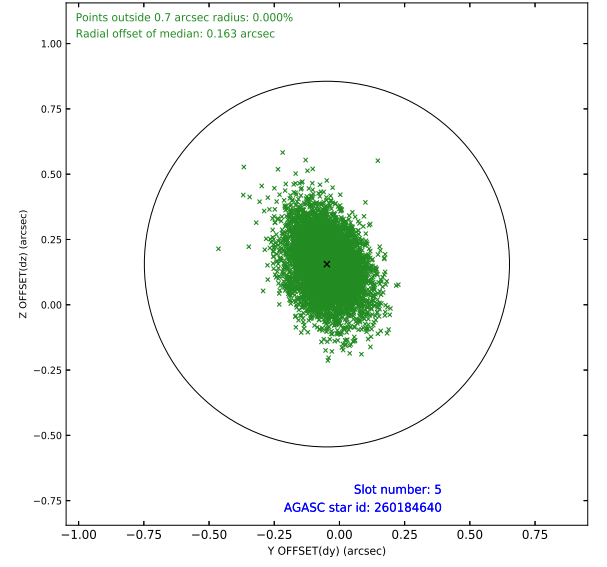
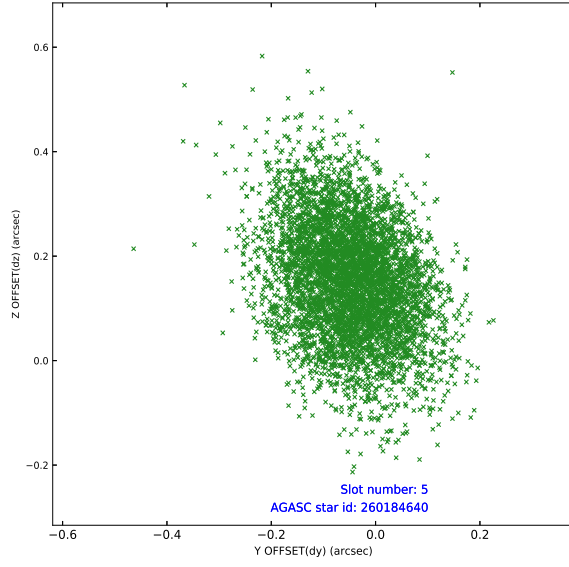
2.4.1 Slot 3



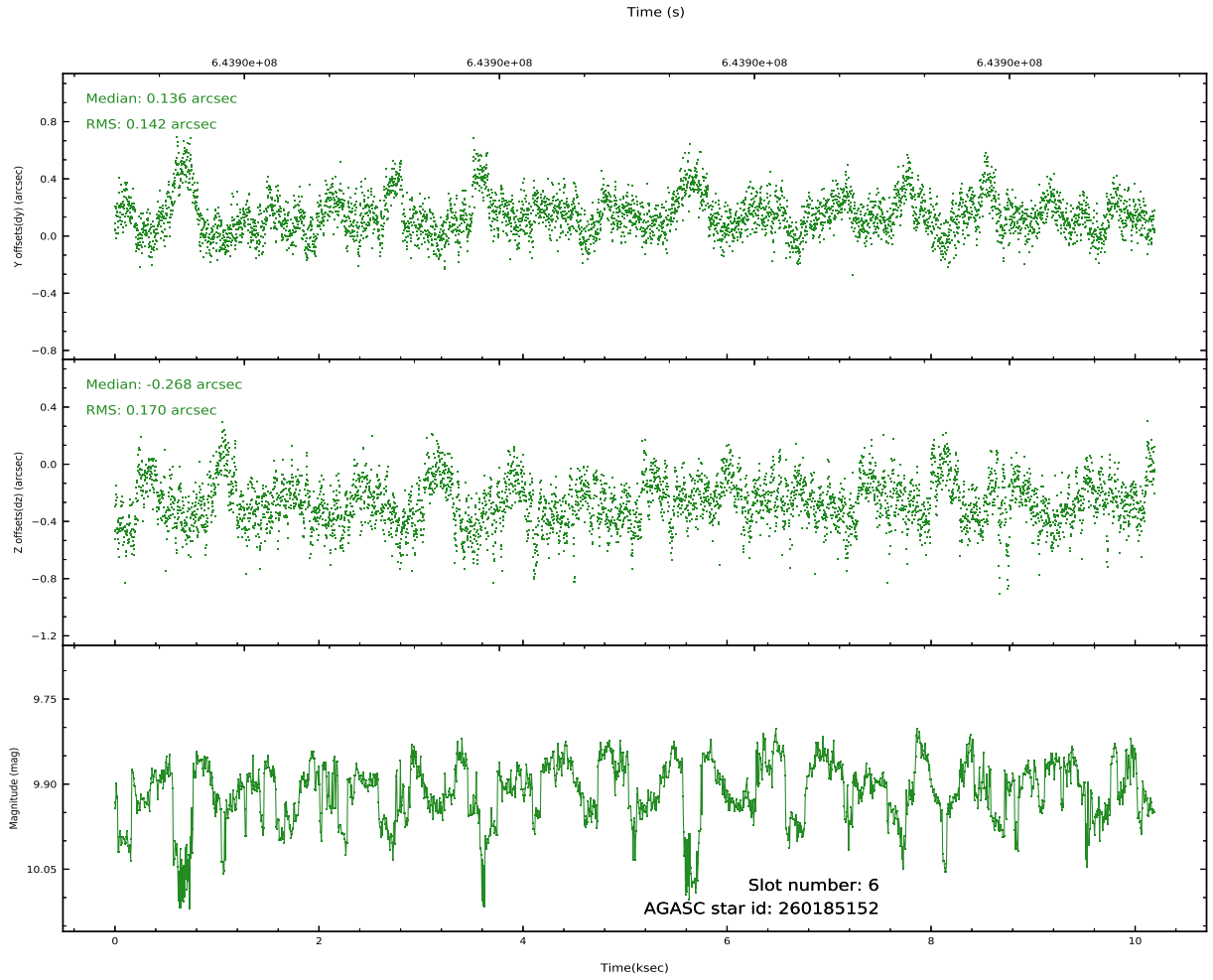
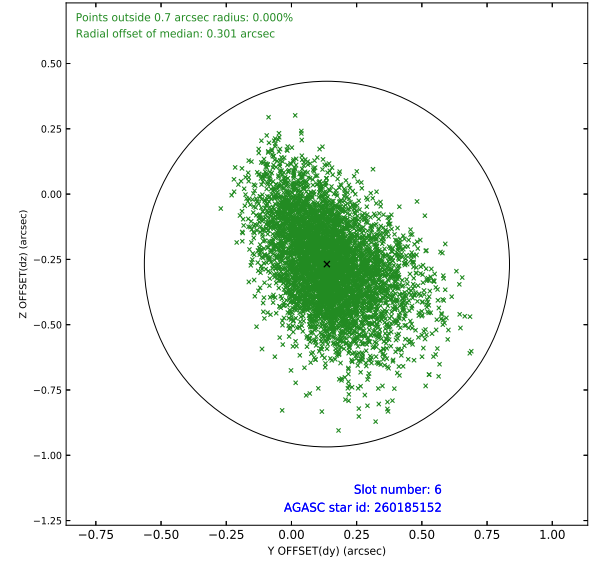
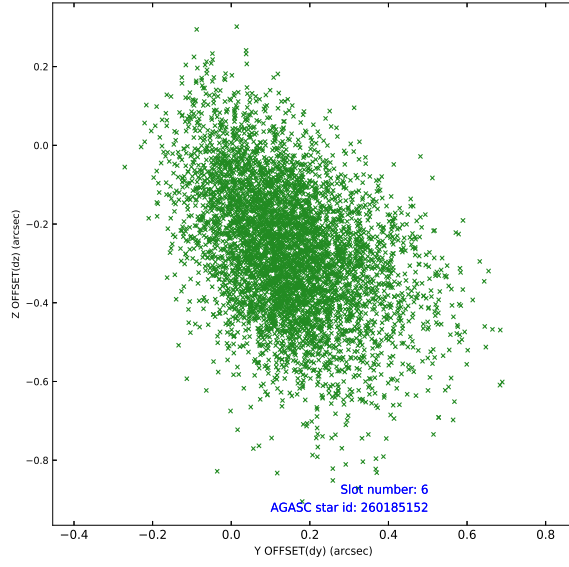
2.4.2 Slot 4



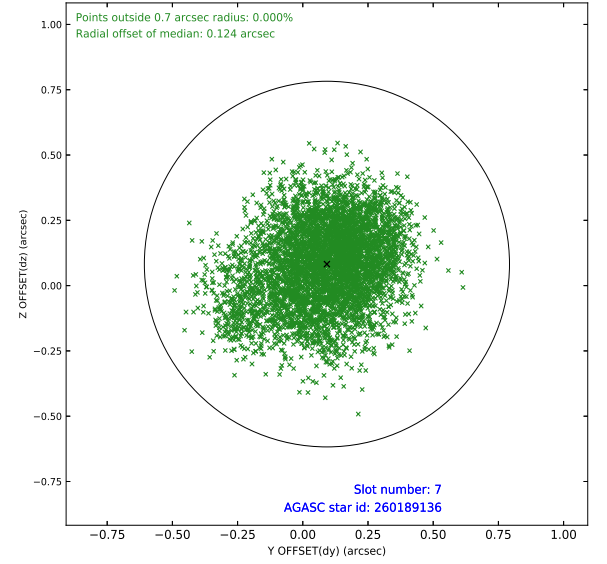
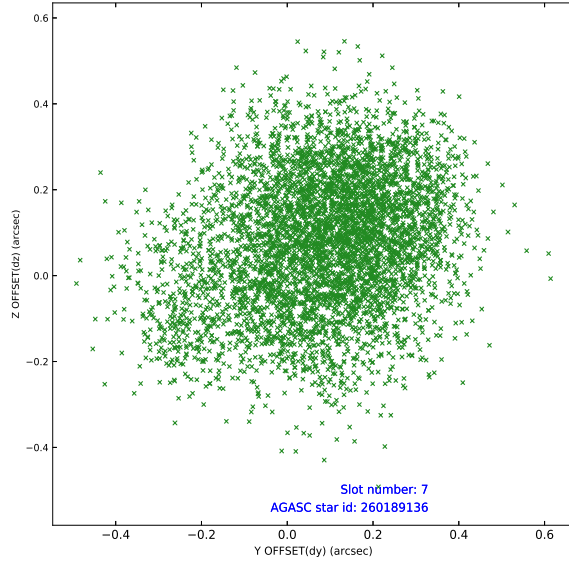
2.4.3 Slot 5



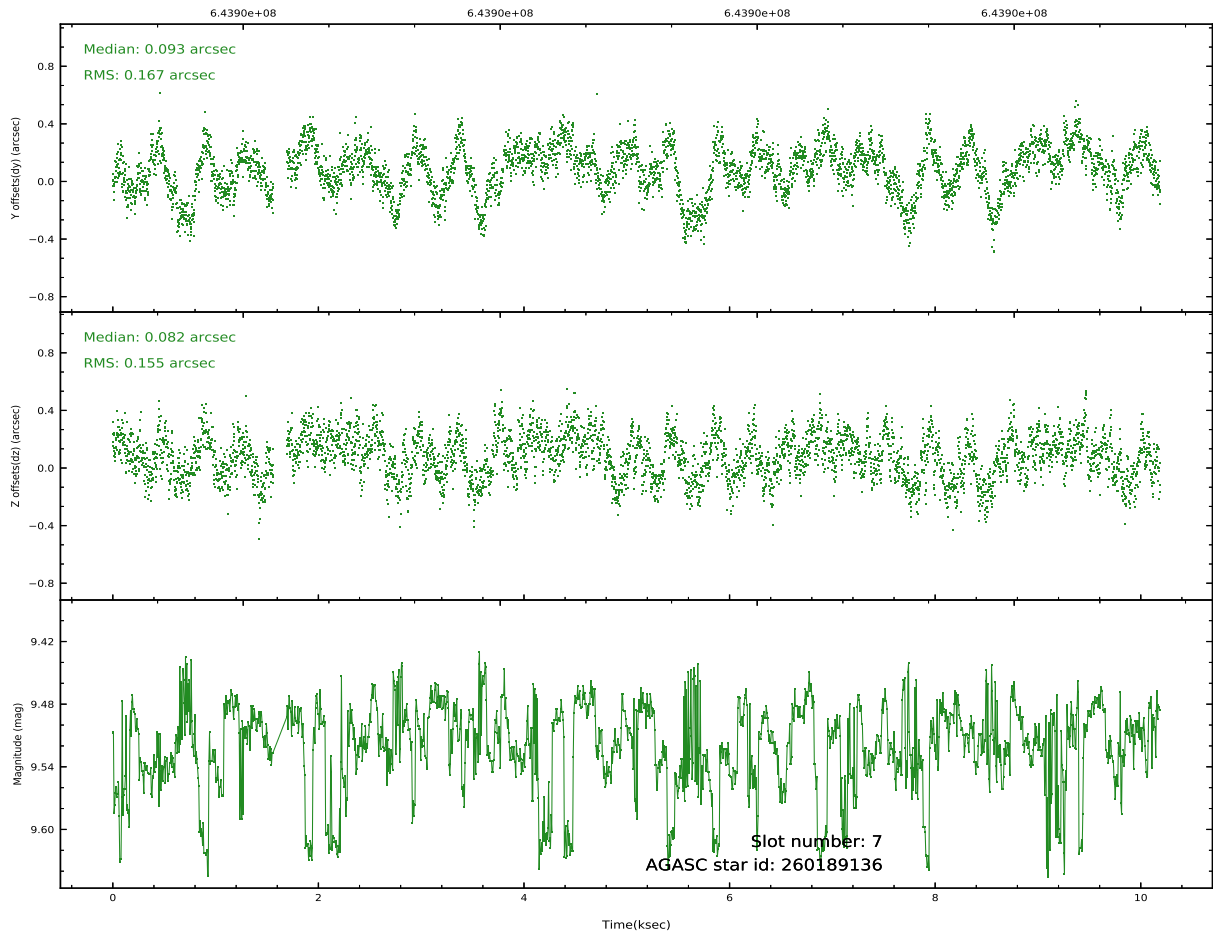
2.4.4 Slot 6



2.4.5 Slot 7

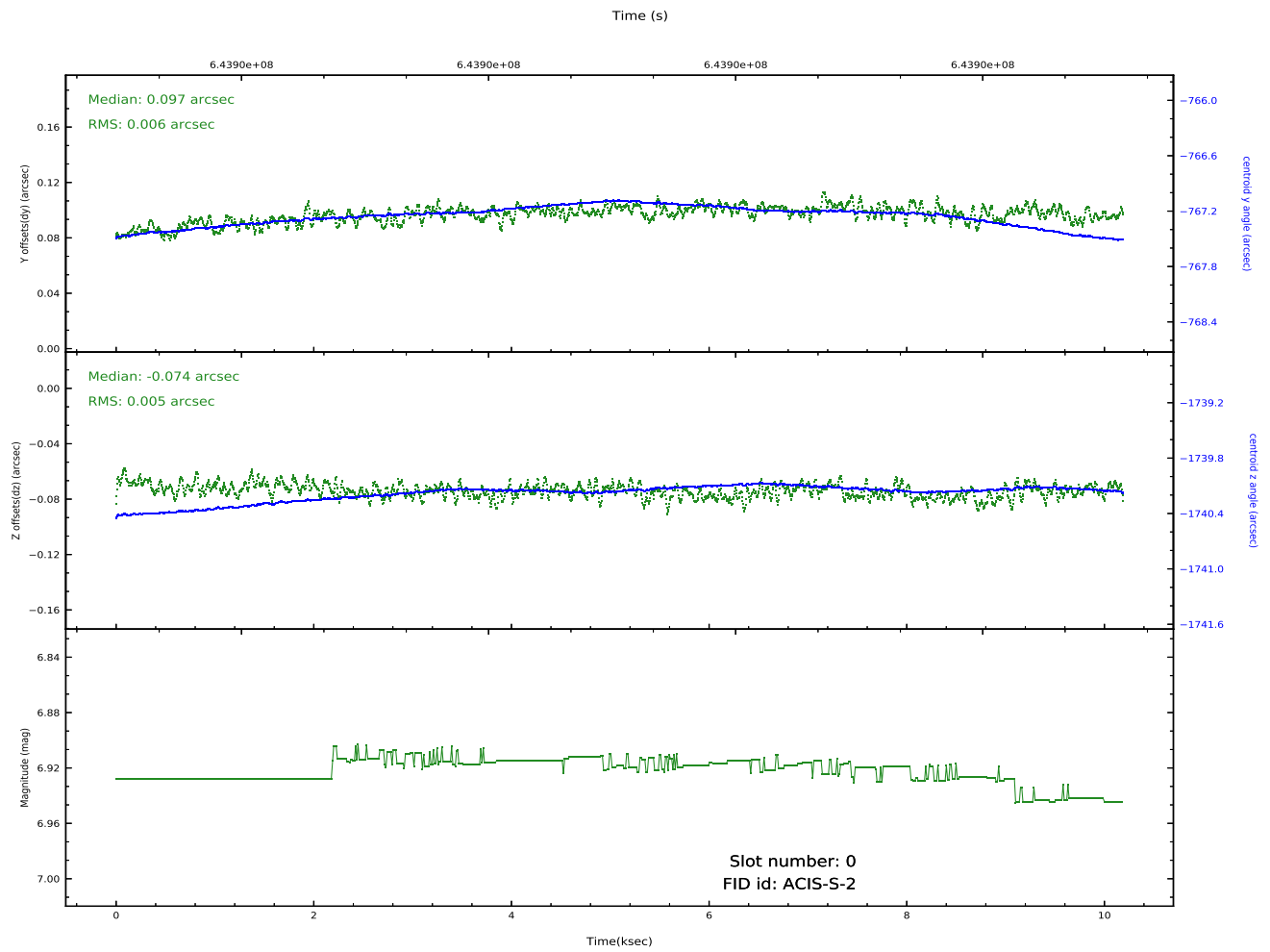
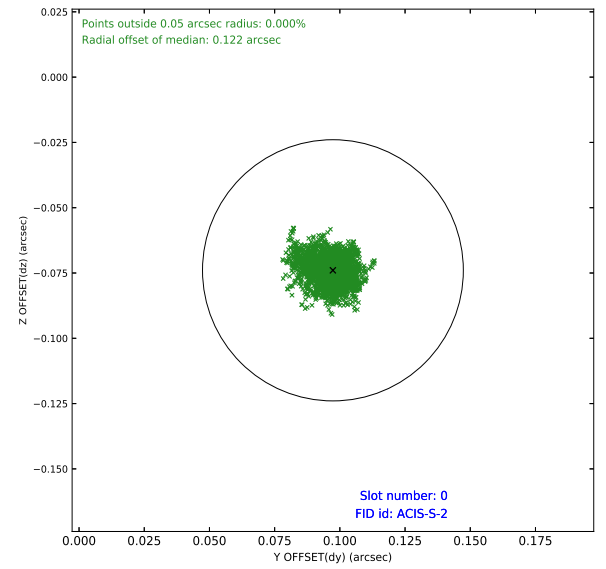
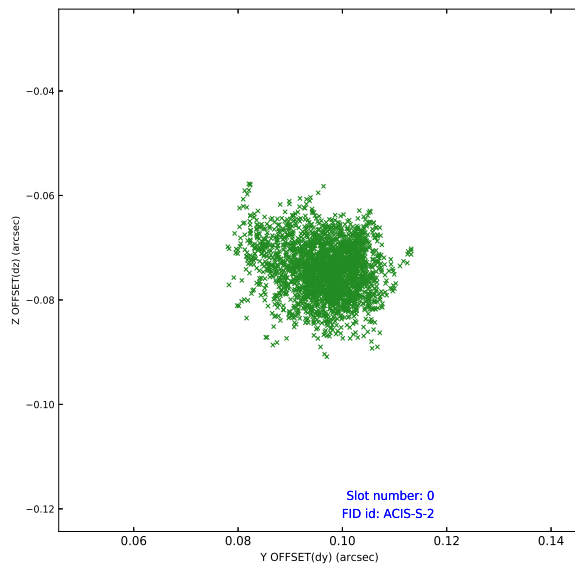


Time (s)

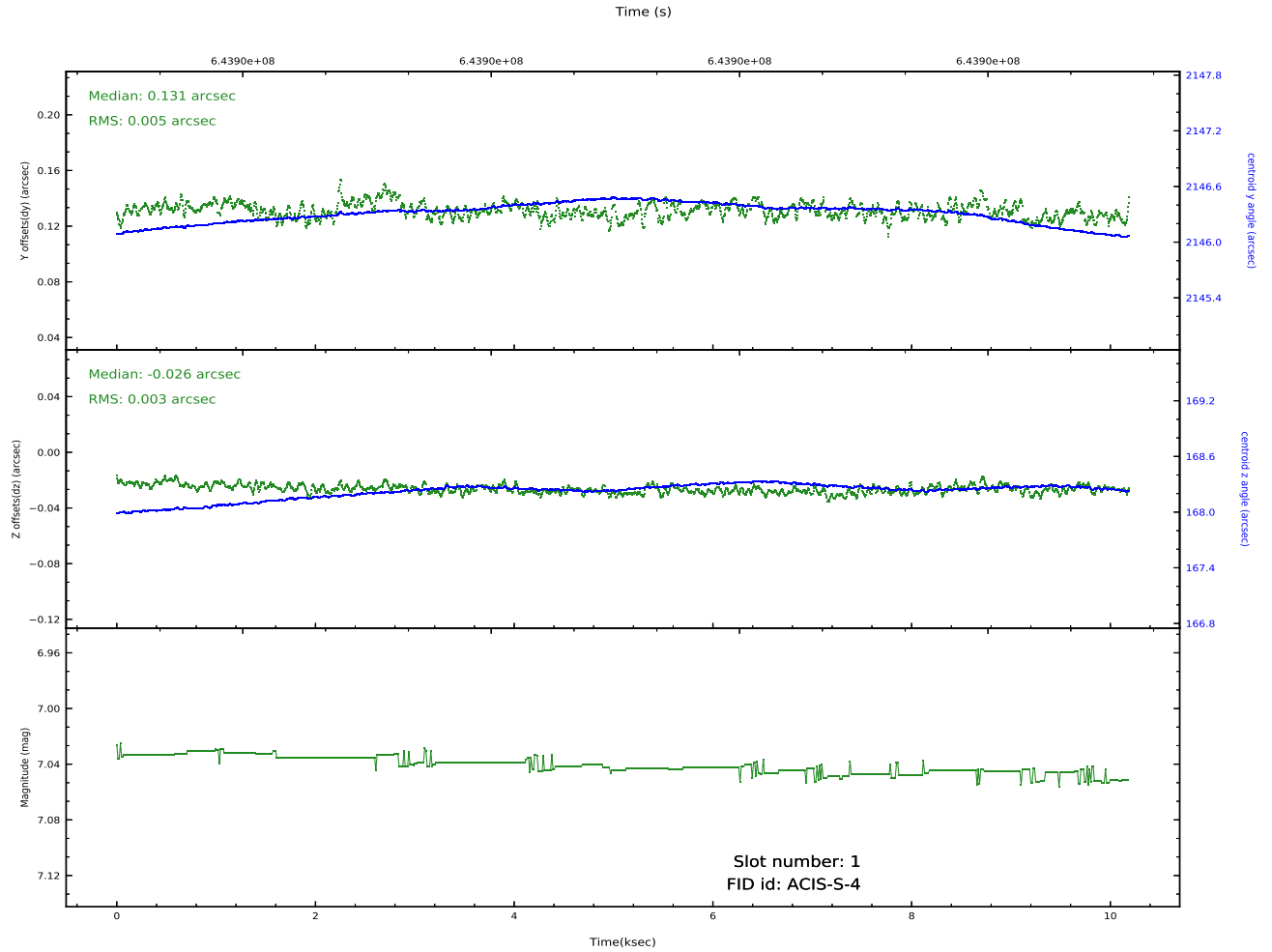
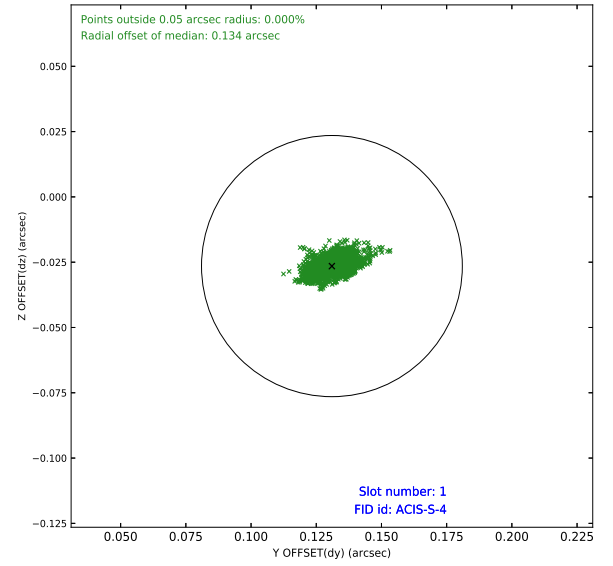
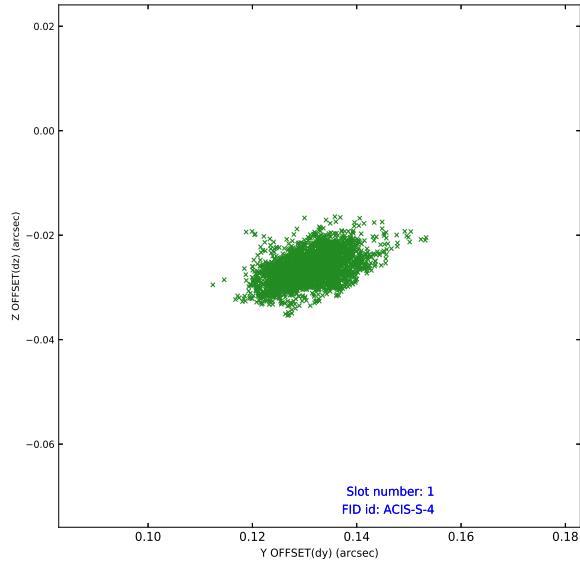


2.5 FID Slots

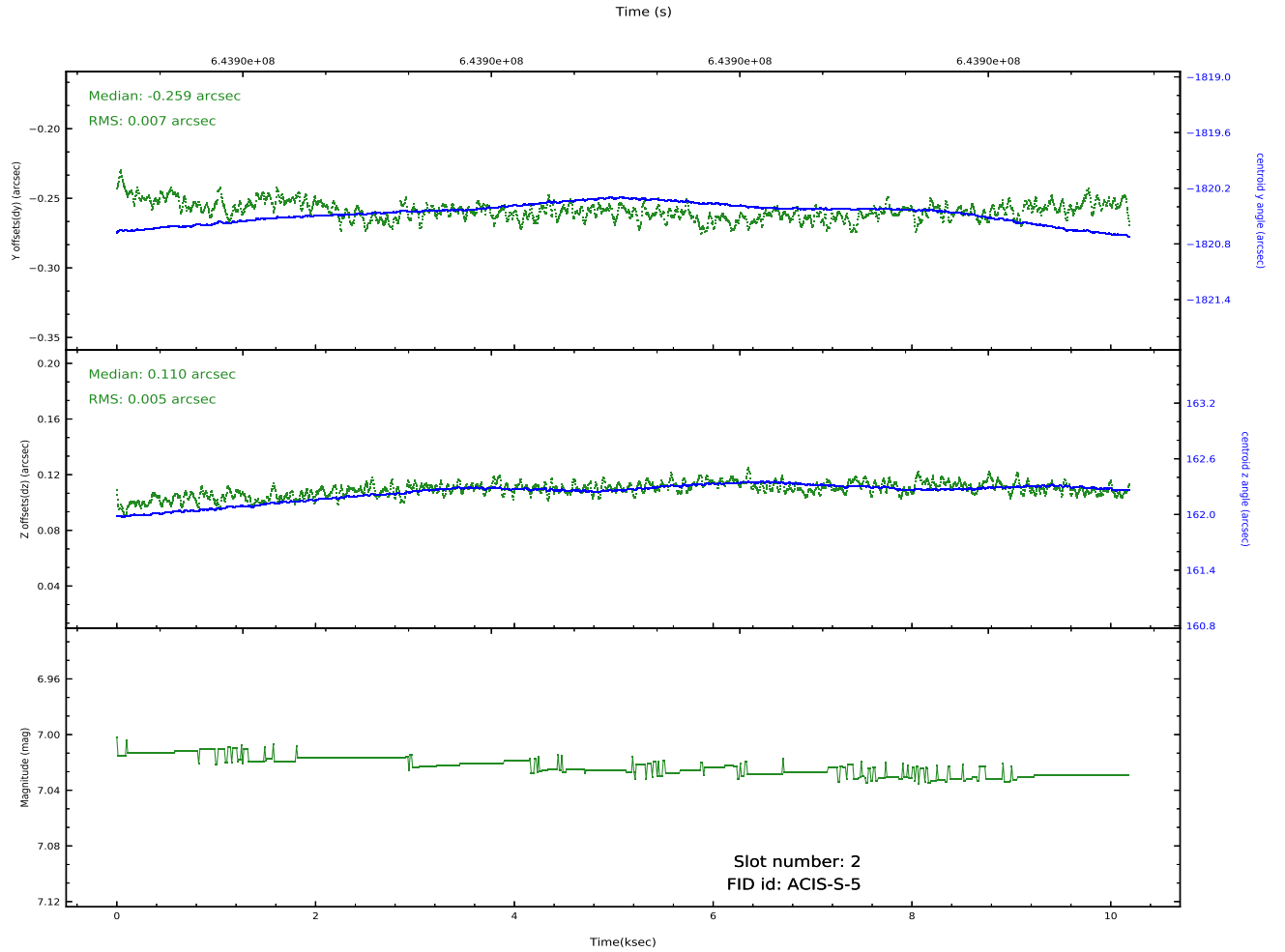
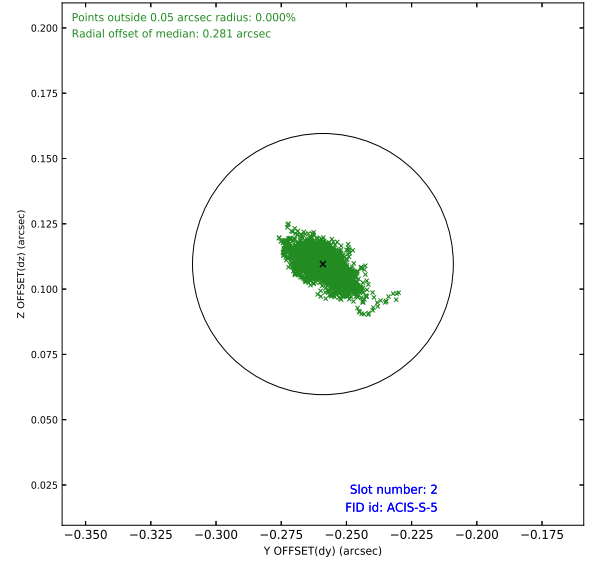
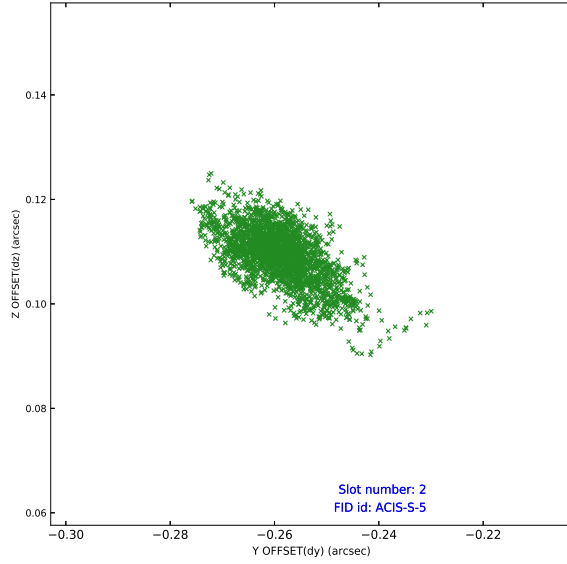
2.5.1 Slot 0



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	10.058914448023

A.2 Comments