

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20324 - L2 Version 2
Chandra X-Ray Center

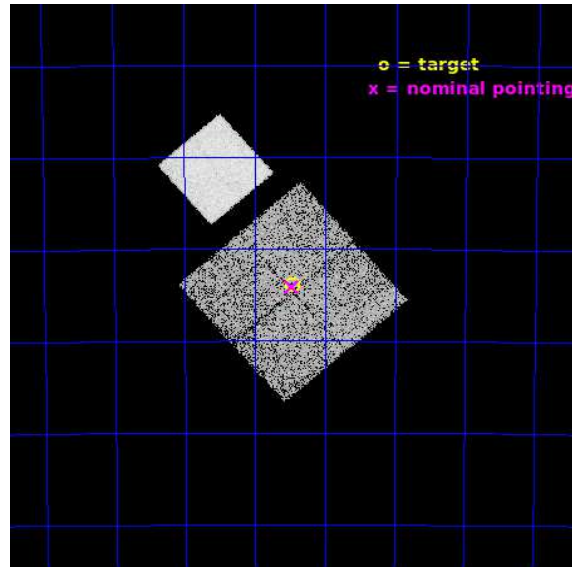
L2 Processing Date : Oct 25 2020

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1 Front

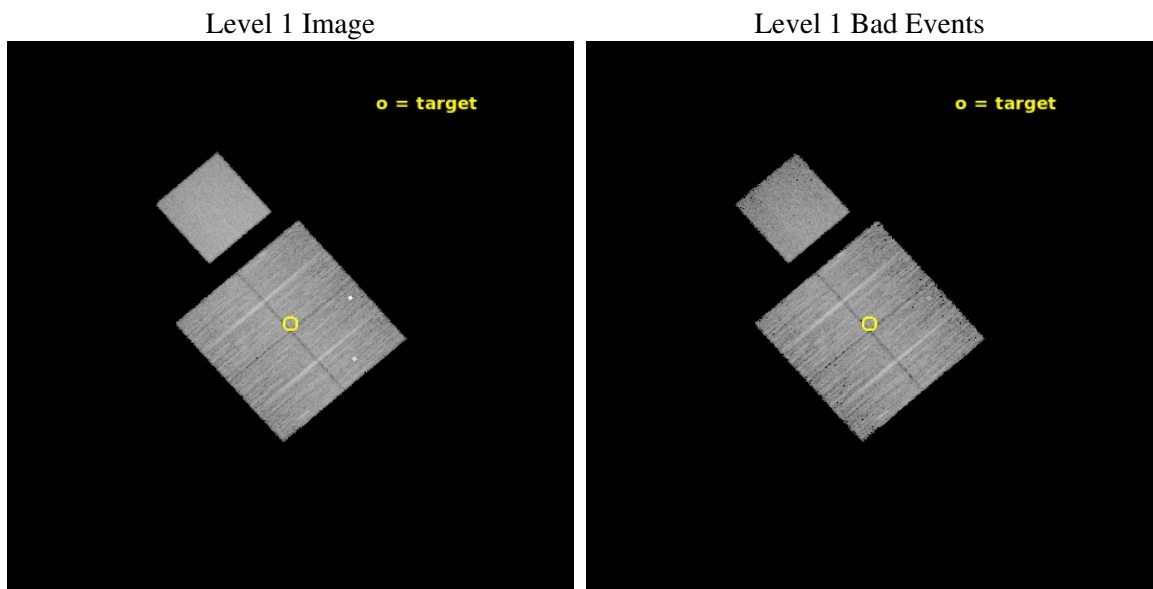
seq_num	503017	Sequence number
obs_id	20324	Observation id
title	Revealing pulsars hidden in the 3rd Fermi Catalog	Proposal title
observer	Blagoy Rangelov	Principal investigator
object	3FGL J1306.4-6043	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	196.614583	Observer's specified target RA [deg]
dec_targ	-60.731694	Observer's specified target Dec [deg]
ra_nom	196.61830070388	Nominal RA [deg]
dec_nom	-60.735014826246	Nominal Dec [deg]
roll_nom	318.87322033004	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10049.60342586	Sum of GTIs [s]
livetime	9918.2979586911	Livetime [s]
ontime0	10052.621426463	Sum of GTIs [s]
ontime1	10055.803536773	Sum of GTIs [s]
ontime2	10052.703496337	Sum of GTIs [s]
ontime3	10049.60342586	Sum of GTIs [s]
ontime7	10055.926656723	Sum of GTIs [s]
l2events	67063	Number of level 2 events



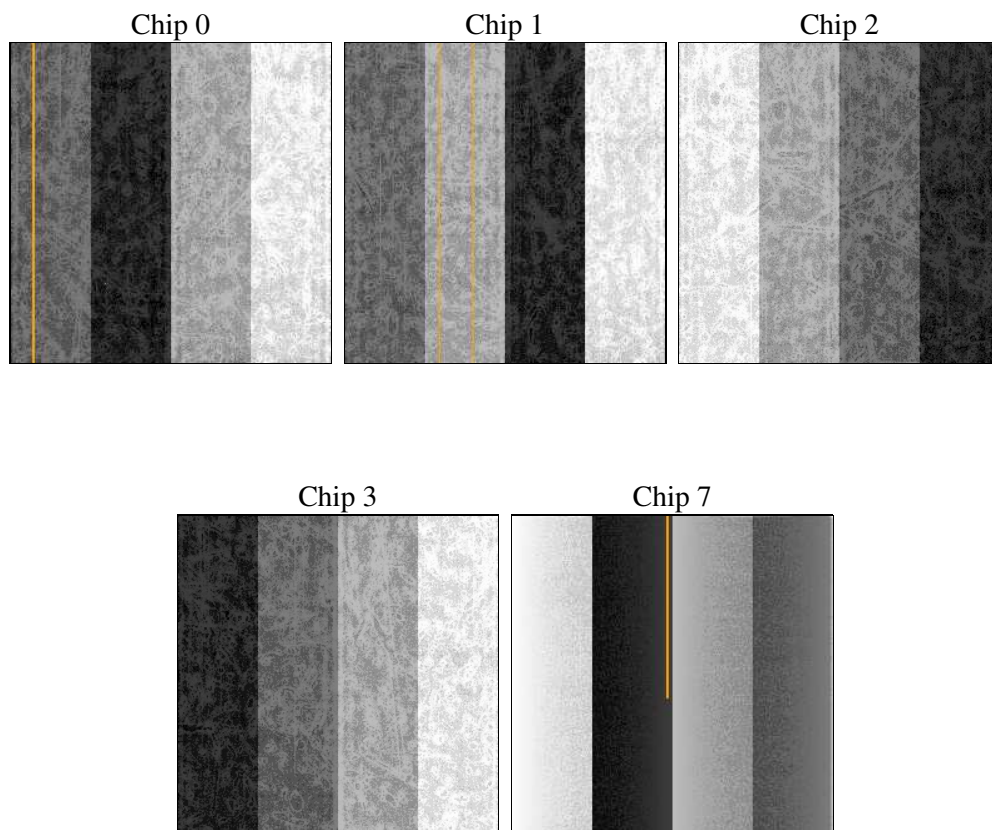
2 OBI

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	10049.60342586	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	10052.621426463	Sum of GTIs [s]
date	2020-10-25T22:08:11	Date and time of file creation	ontime1	10055.803536773	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10052.703496337	Sum of GTIs [s]
			ontime3	10049.60342586	Sum of GTIs [s]
			ontime7	10055.926656723	Sum of GTIs [s]
			l1events	398934	Number of level 1 events

2.1.4 Events

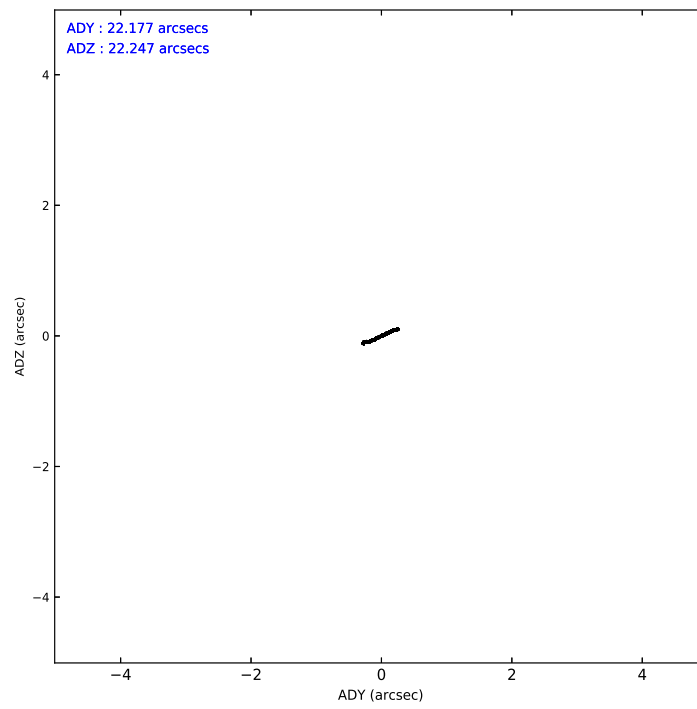
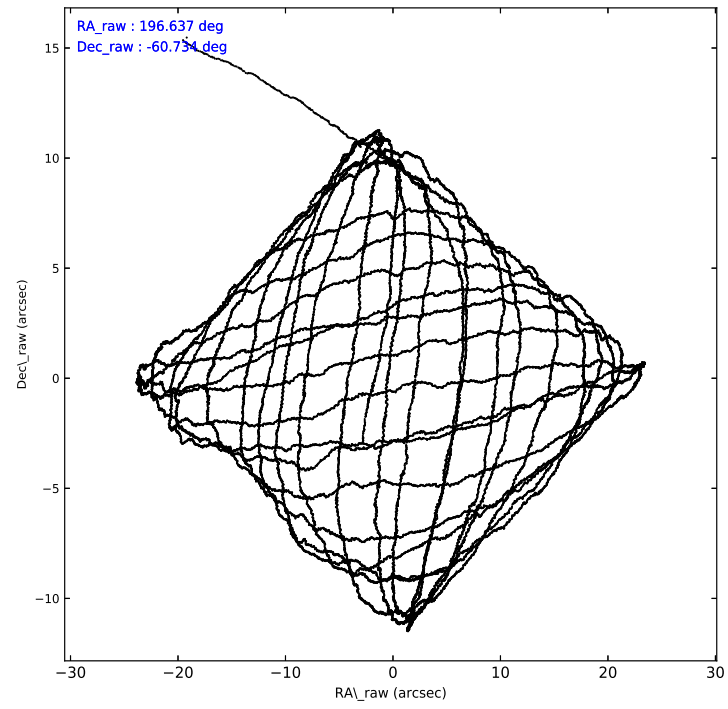
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	72736	77934	79166	72539	96559
rejected events	64482	64516	71264	64895	55496
rejected %	88%	82%	90%	89%	57%

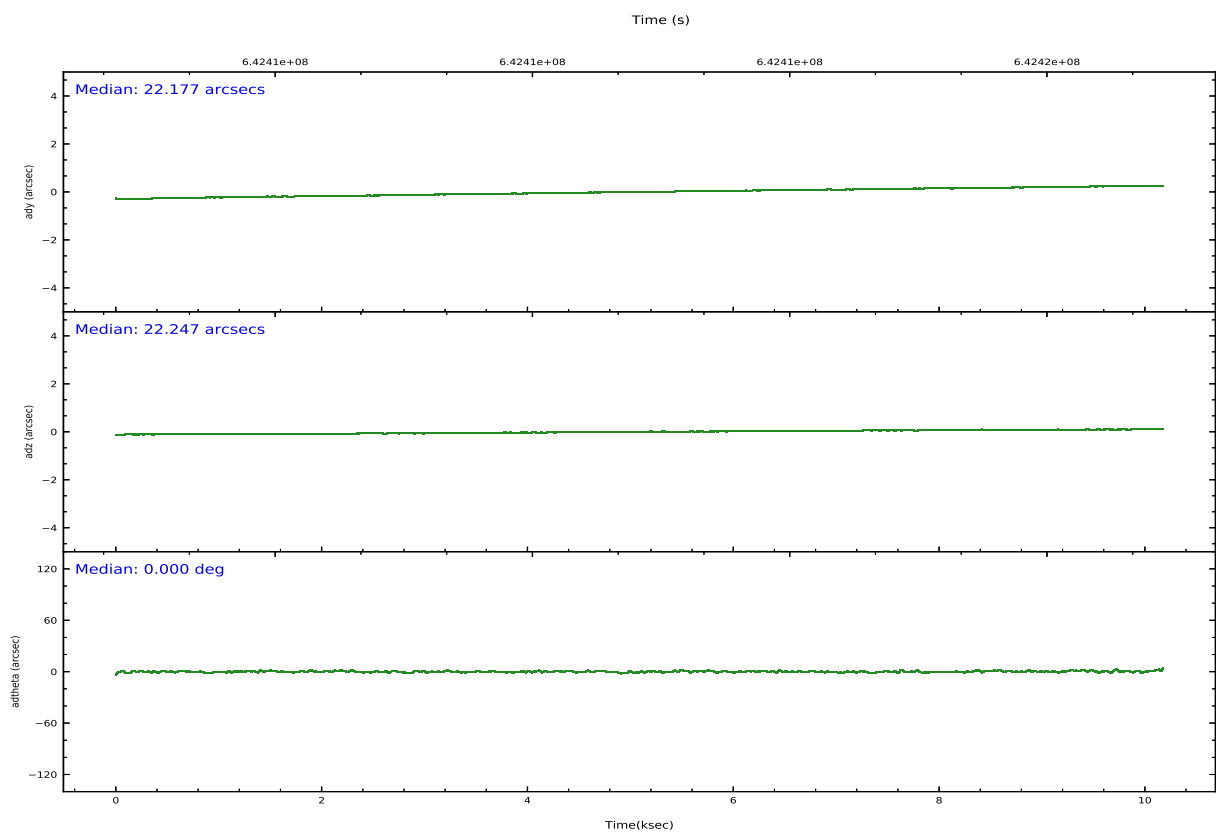
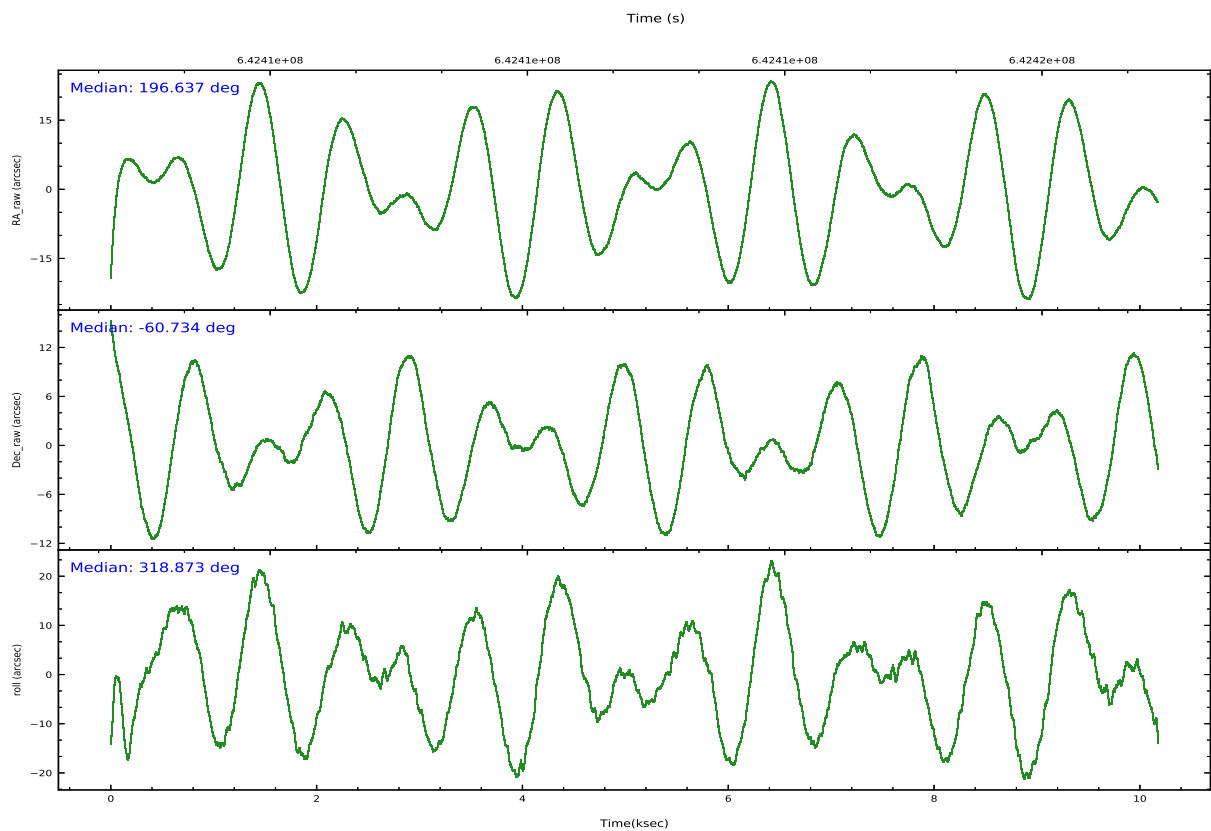
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	2743	4204	2876	2691	3315
	3%	5%	3%	3%	3%
grade 1 events	30	64	32	56	121
	0%	0%	0%	0%	0%
grade 2 events	2106	5346	1799	1677	8517
	2%	6%	2%	2%	8%
grade 3 events	858	809	756	779	3232
	1%	1%	0%	1%	3%
grade 4 events	782	842	811	858	3186
	1%	1%	1%	1%	3%
grade 5 events	2911	3002	2883	3328	9441
	4%	3%	3%	4%	9%
grade 6 events	1772	2225	1662	1642	22832
	2%	2%	2%	2%	23%
grade 7 events	61534	61442	68347	61508	45915
	84%	78%	86%	84%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01237	ACIS-01237	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	196.581277	196.61830070388	CCD I2 on	Y	Y
[deg] Pointing Dec	-60.729213	-60.735014826246	CCD I3 on	Y	Y
[deg] Pointing Roll	318.623480	318.87322033004	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	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	642406128.184000	642404868.17791	CCD S5 on	N	N
Observation start date	2018-05-11T06:07:39	2018-05-11T05:47:48	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	642416128.184000	642417034.4161299	On-chip summing requested	N	N
Observation end date	2018-05-11T08:54:19	2018-05-11T09:10:34	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



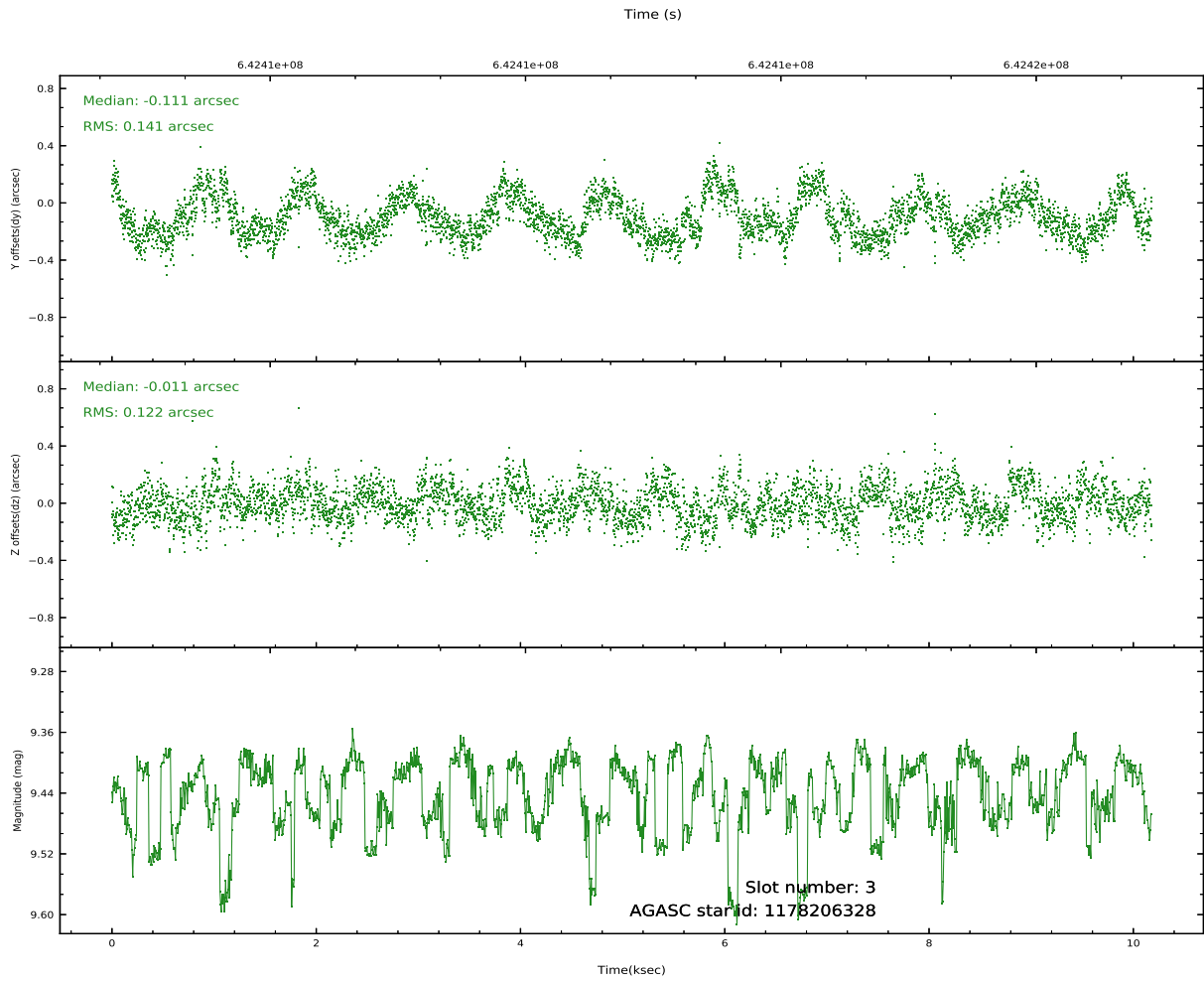
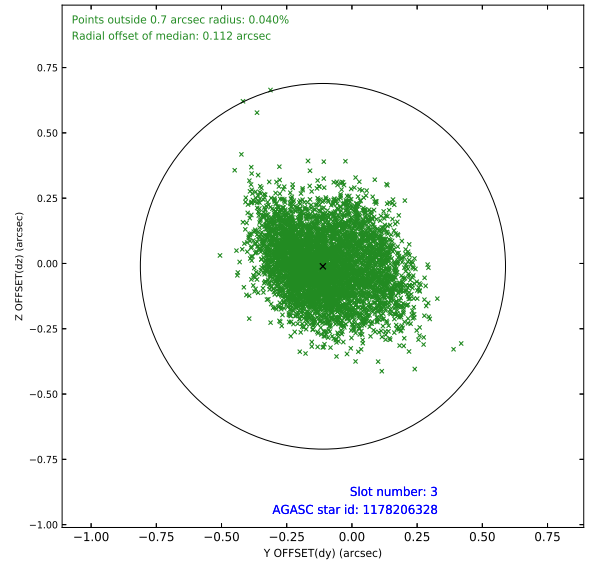
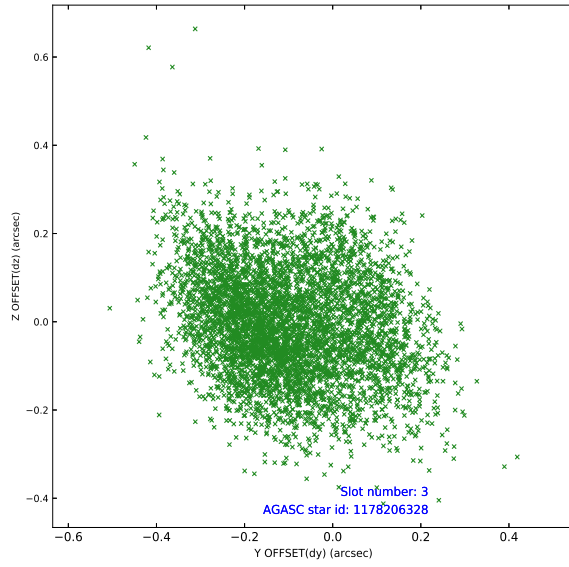


Slot Statistics

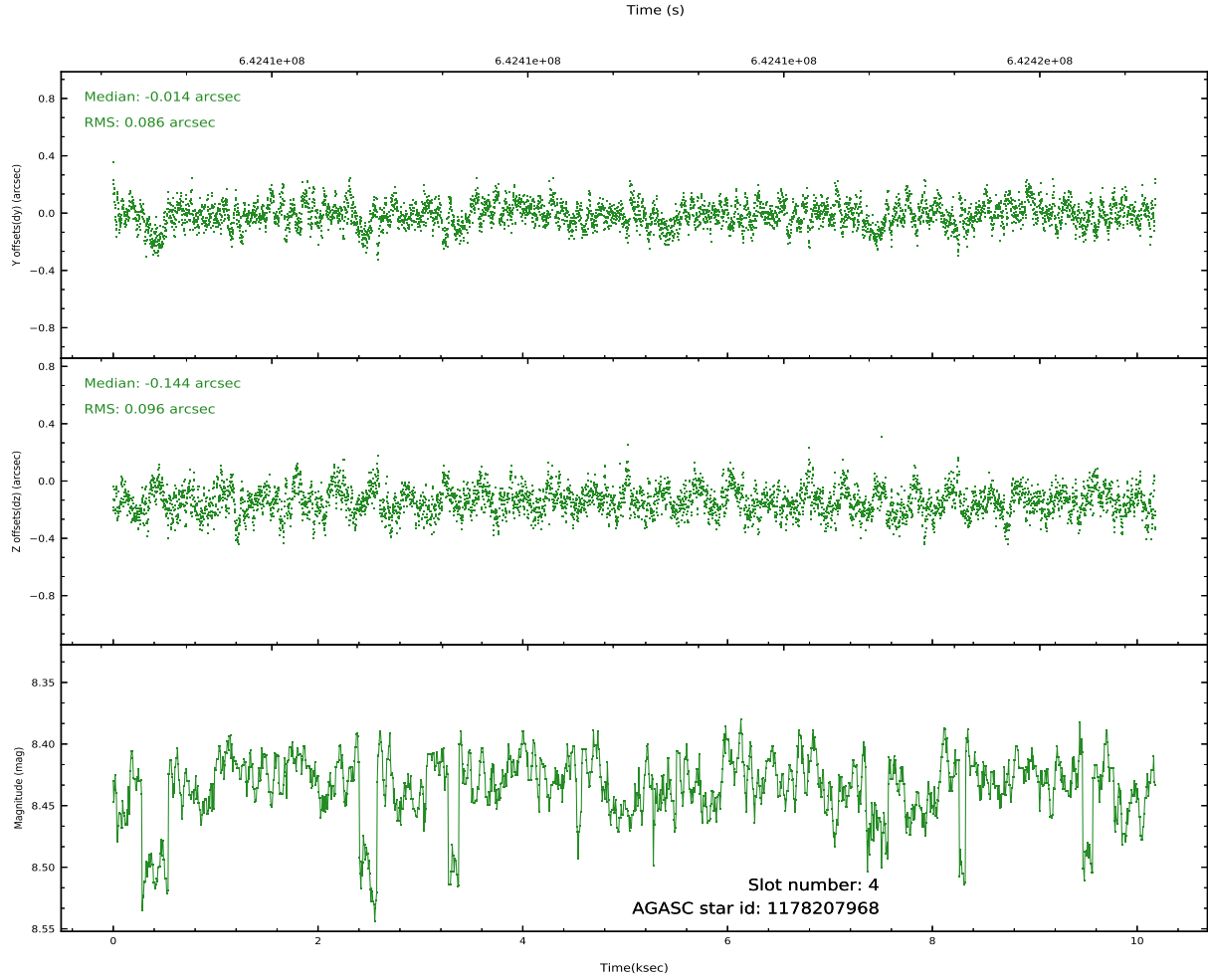
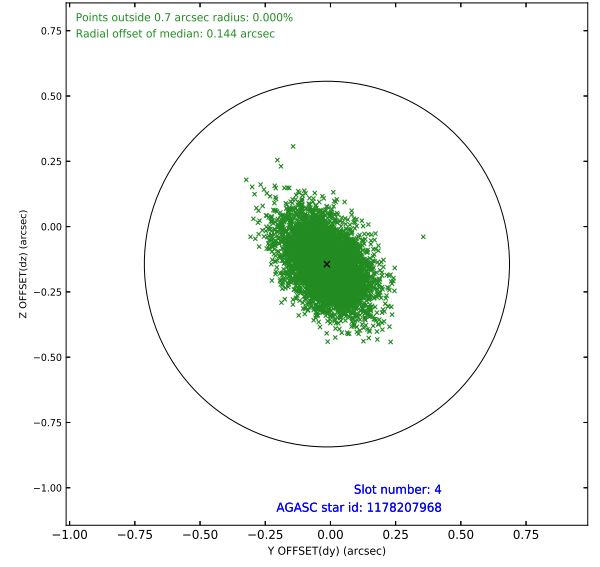
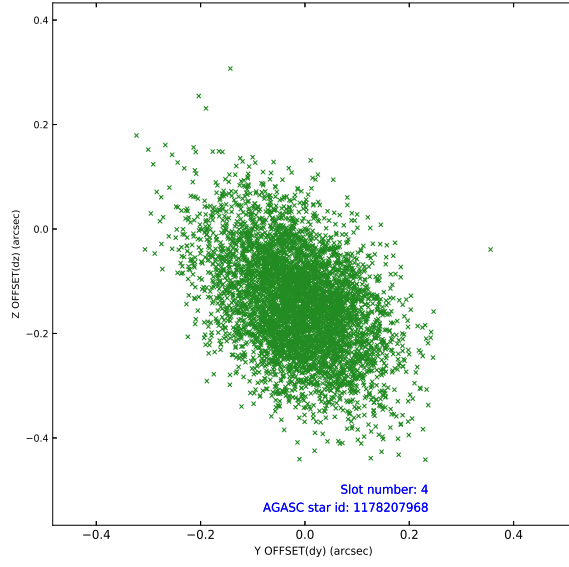
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.28	2483	1.000	0.039	-0.086	0.009	0.015	0.000000	0.000000	917.09	-846
1	FID		ACIS-I-2	7.18	2482	1.000	-0.054	0.072	0.009	0.015	0.000000	0.000000	-776.81	-852
2	FID		ACIS-I-6	7.30	2483	1.000	-0.076	0.081	0.008	0.014	0.000000	0.000000	382.47	1695
3	GUIDE	used	1178206328	9.44	4960	1.000	-0.111	-0.011	0.201	0.319	196.851021	-60.021995	-1318.21	2230
4	GUIDE	used	1178207968	8.43	4959	1.000	-0.014	-0.144	0.134	0.231	197.118730	-61.384273	2256.90	-1159
5	GUIDE	used	1178212960	9.08	4964	1.000	0.054	0.237	0.145	0.232	195.943593	-60.536398	-1301.61	-229
6	GUIDE	used	1178218704	9.19	4953	1.000	0.132	-0.032	0.200	0.330	195.954630	-61.077212	13.28	-1665
7	GUIDE	used	1178350504	8.36	4956	1.000	-0.084	-0.066	0.124	0.206	197.317472	-60.308346	-11.86	1998

2.4 Star Slots

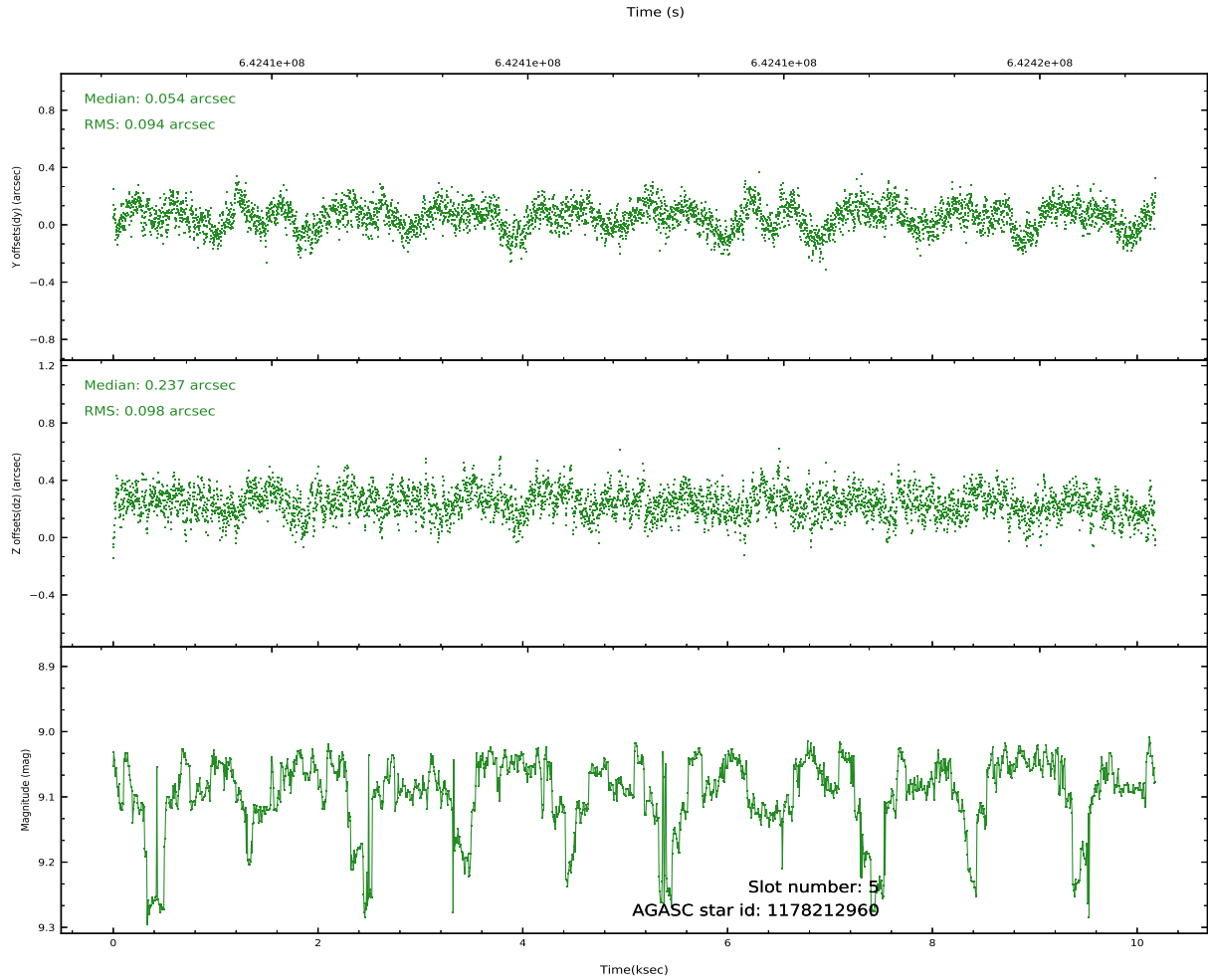
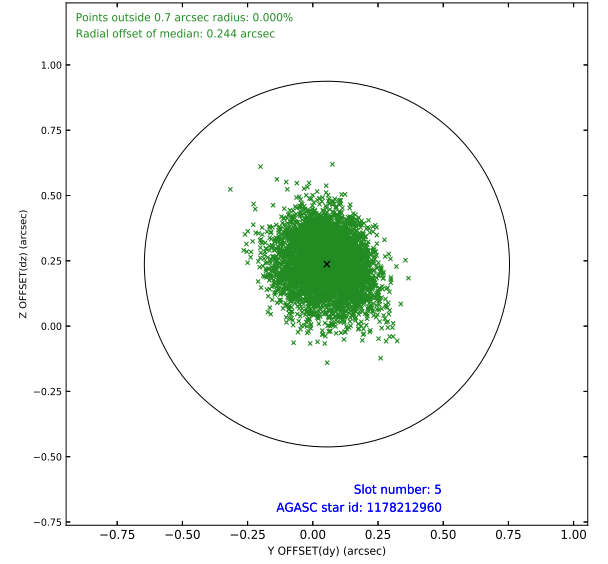
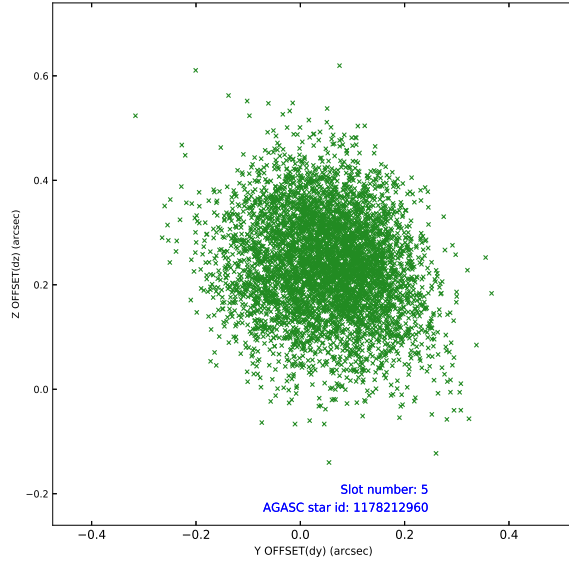
2.4.1 Slot 3



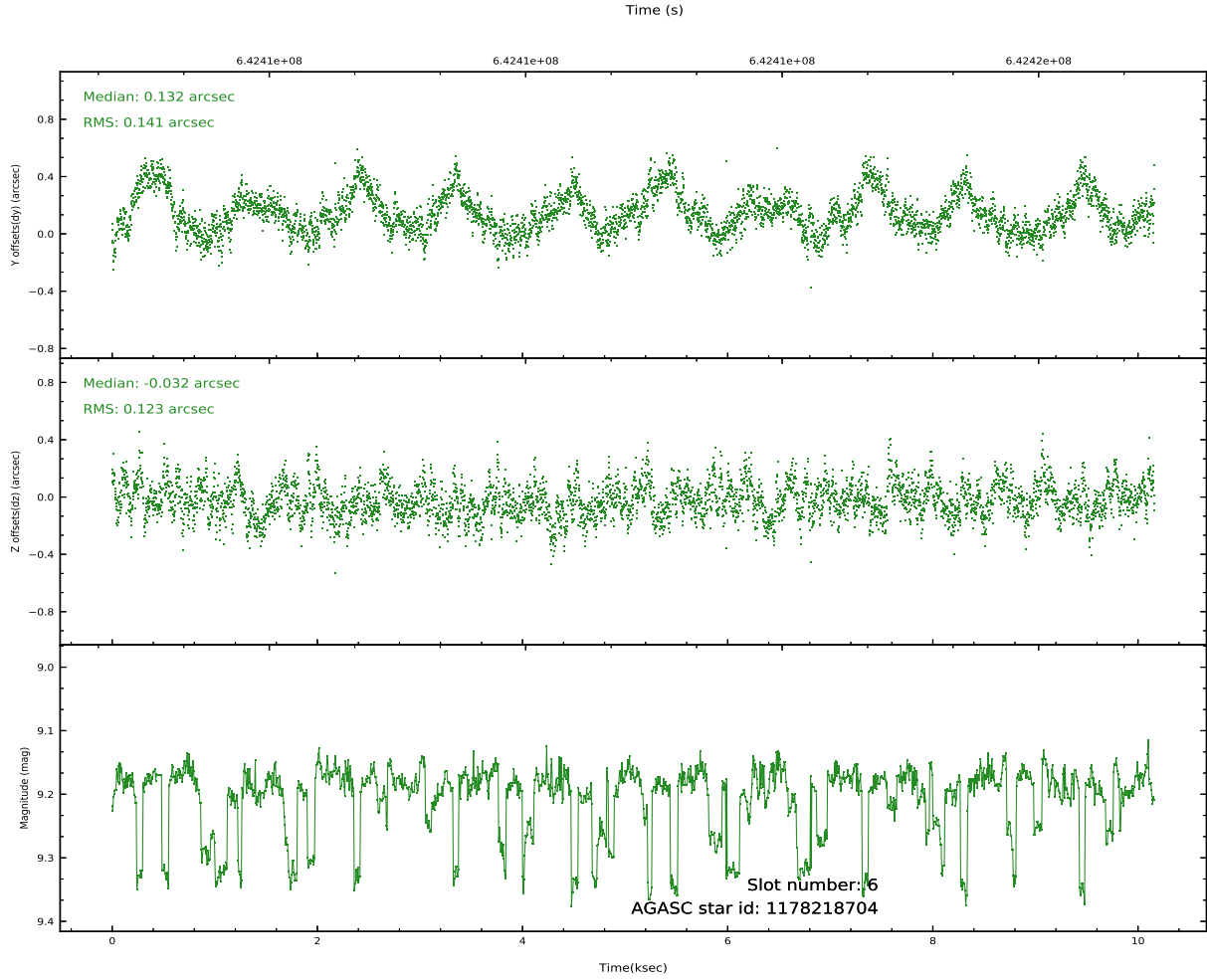
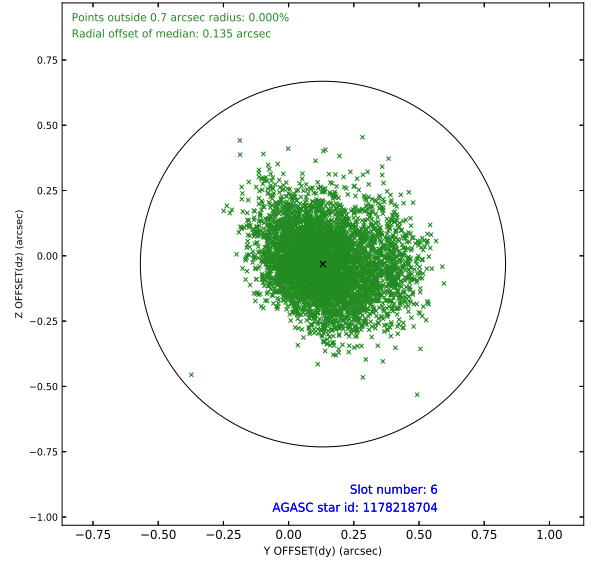
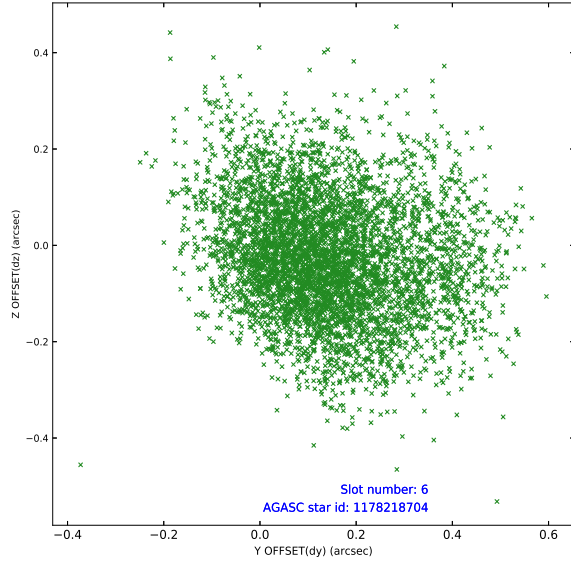
2.4.2 Slot 4



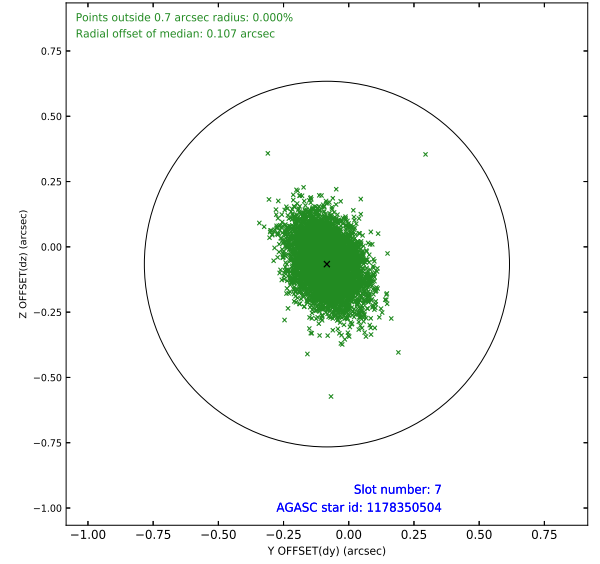
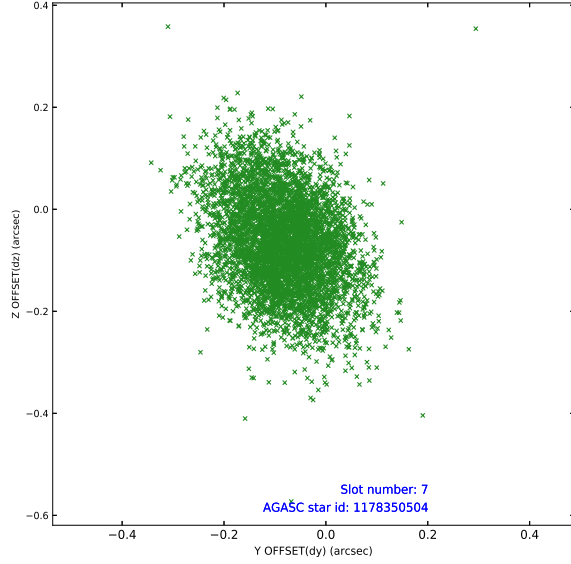
2.4.3 Slot 5



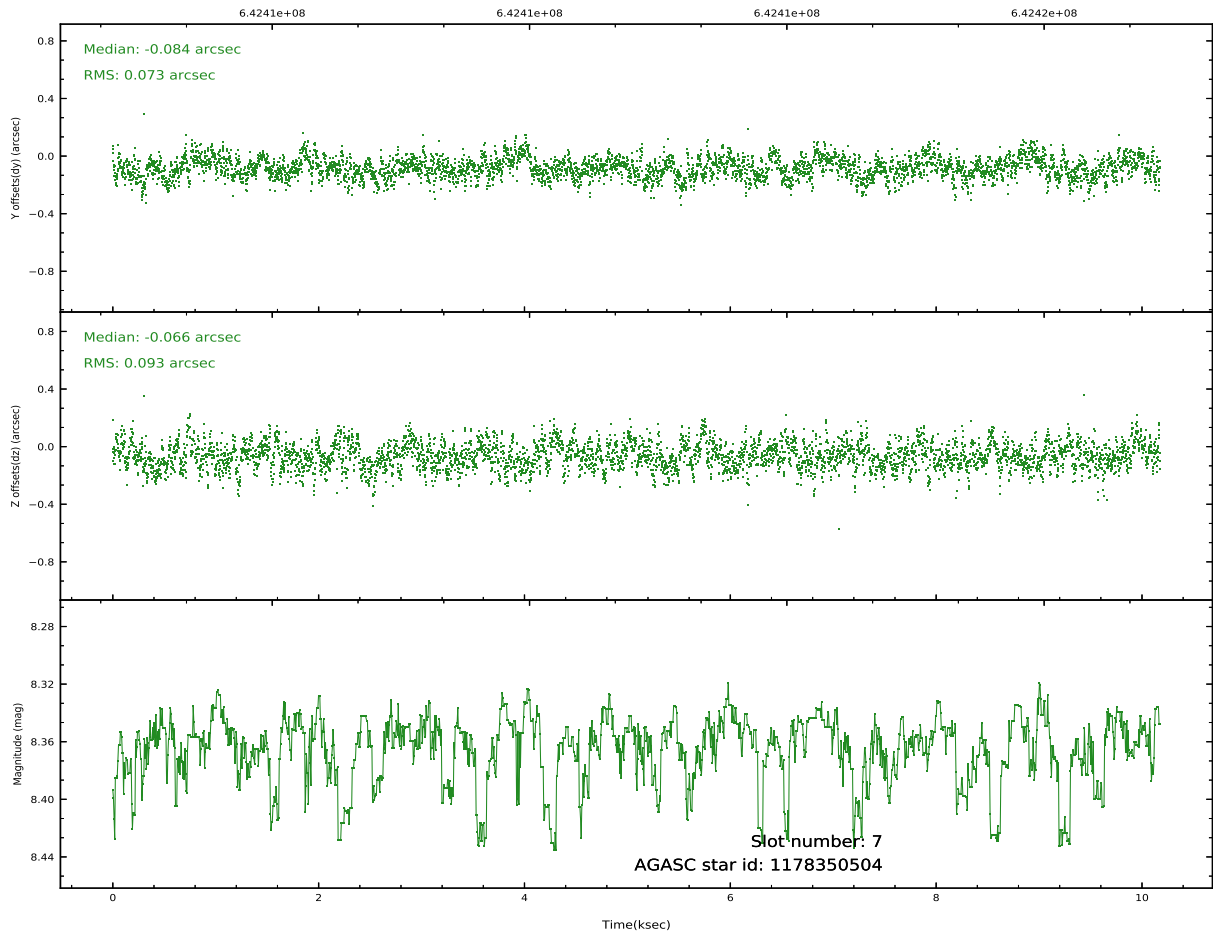
2.4.4 Slot 6



2.4.5 Slot 7

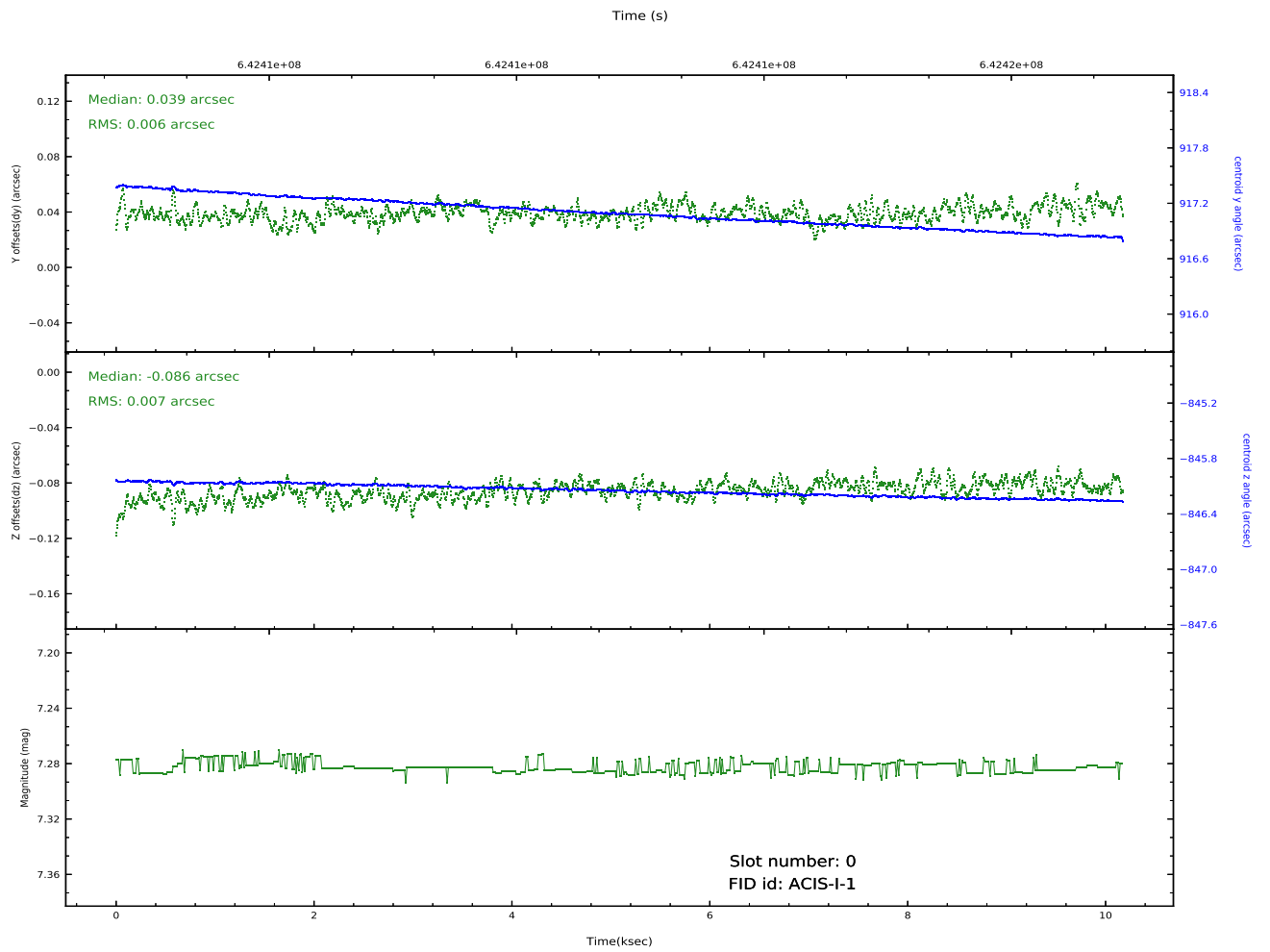
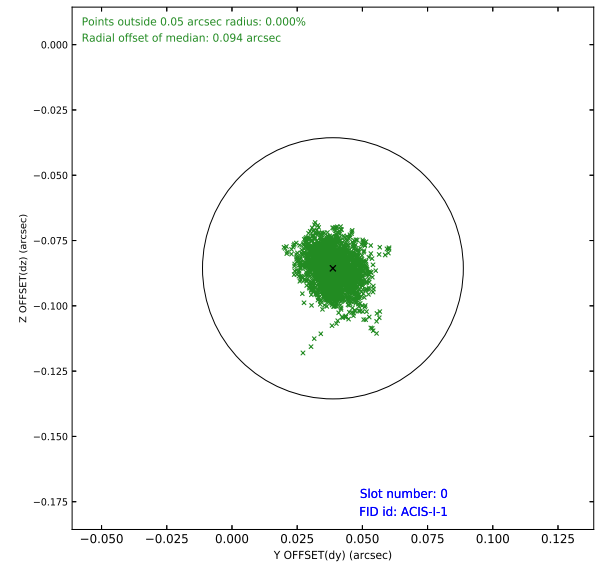
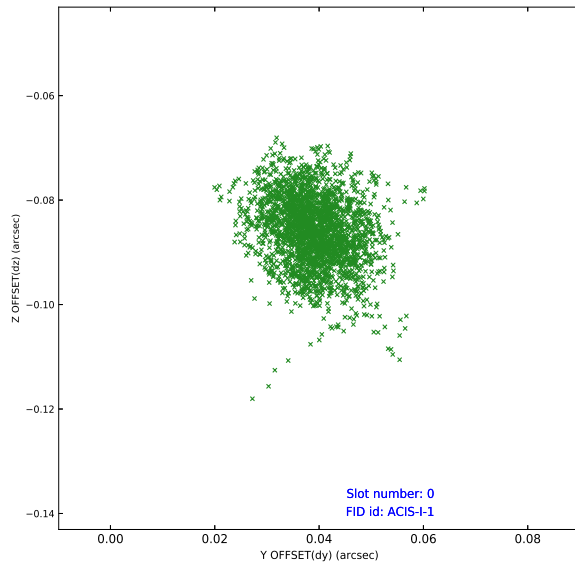


Time (s)

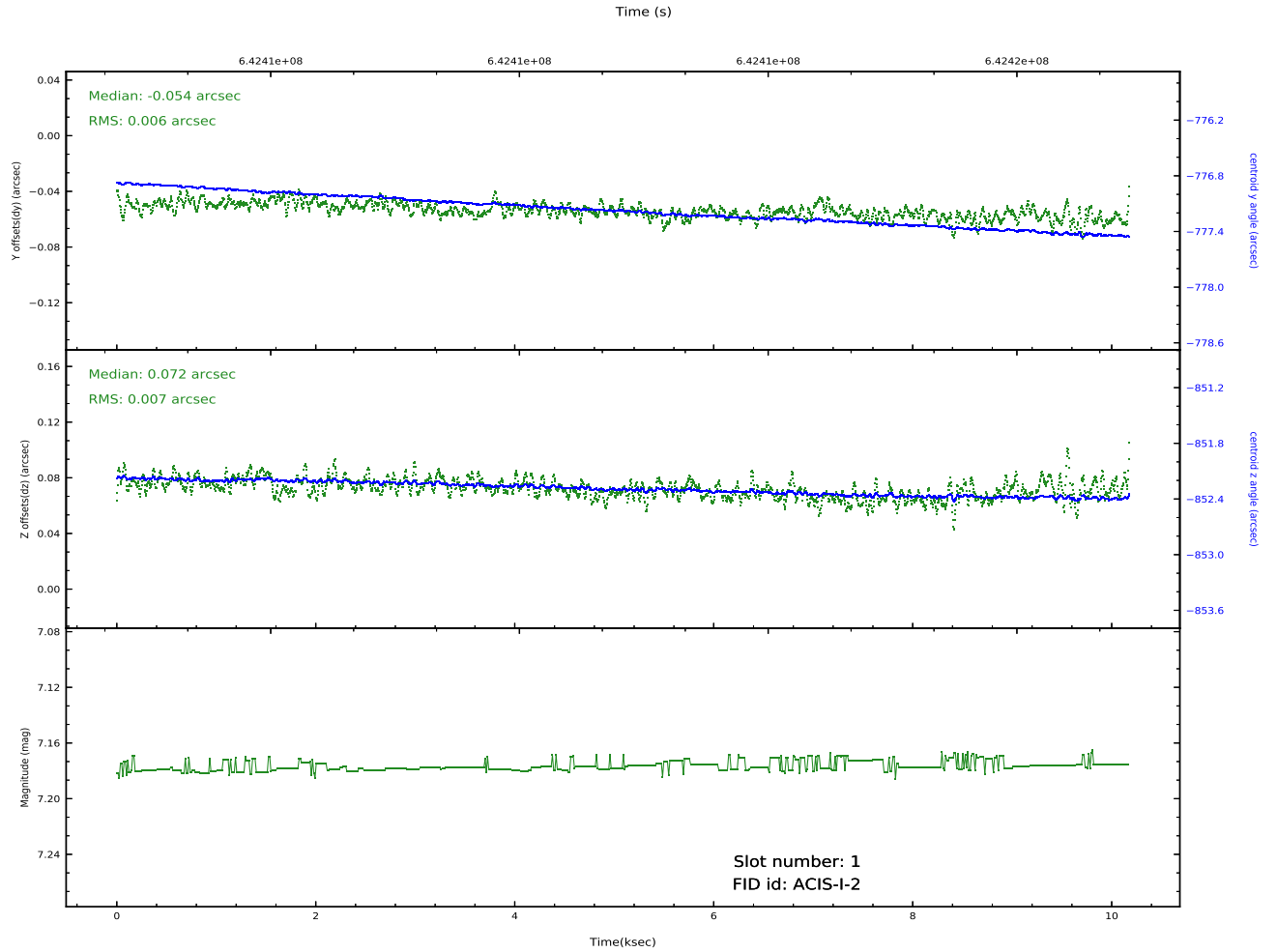
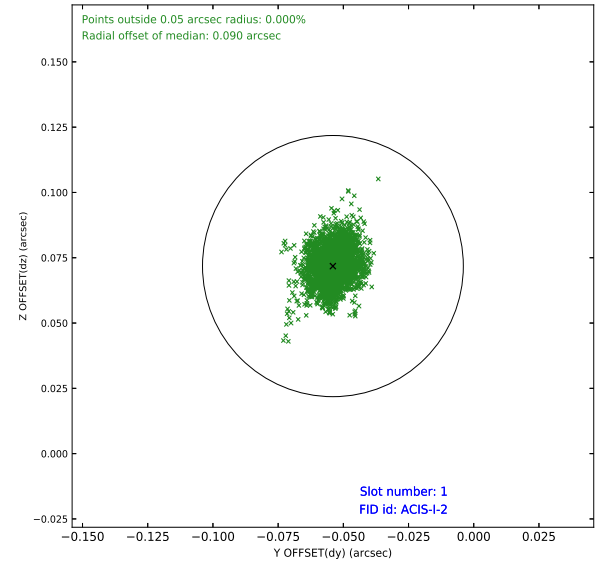
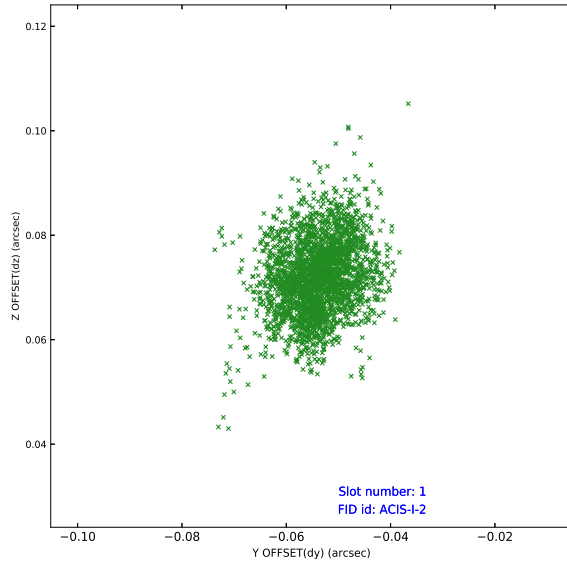


2.5 FID Slots

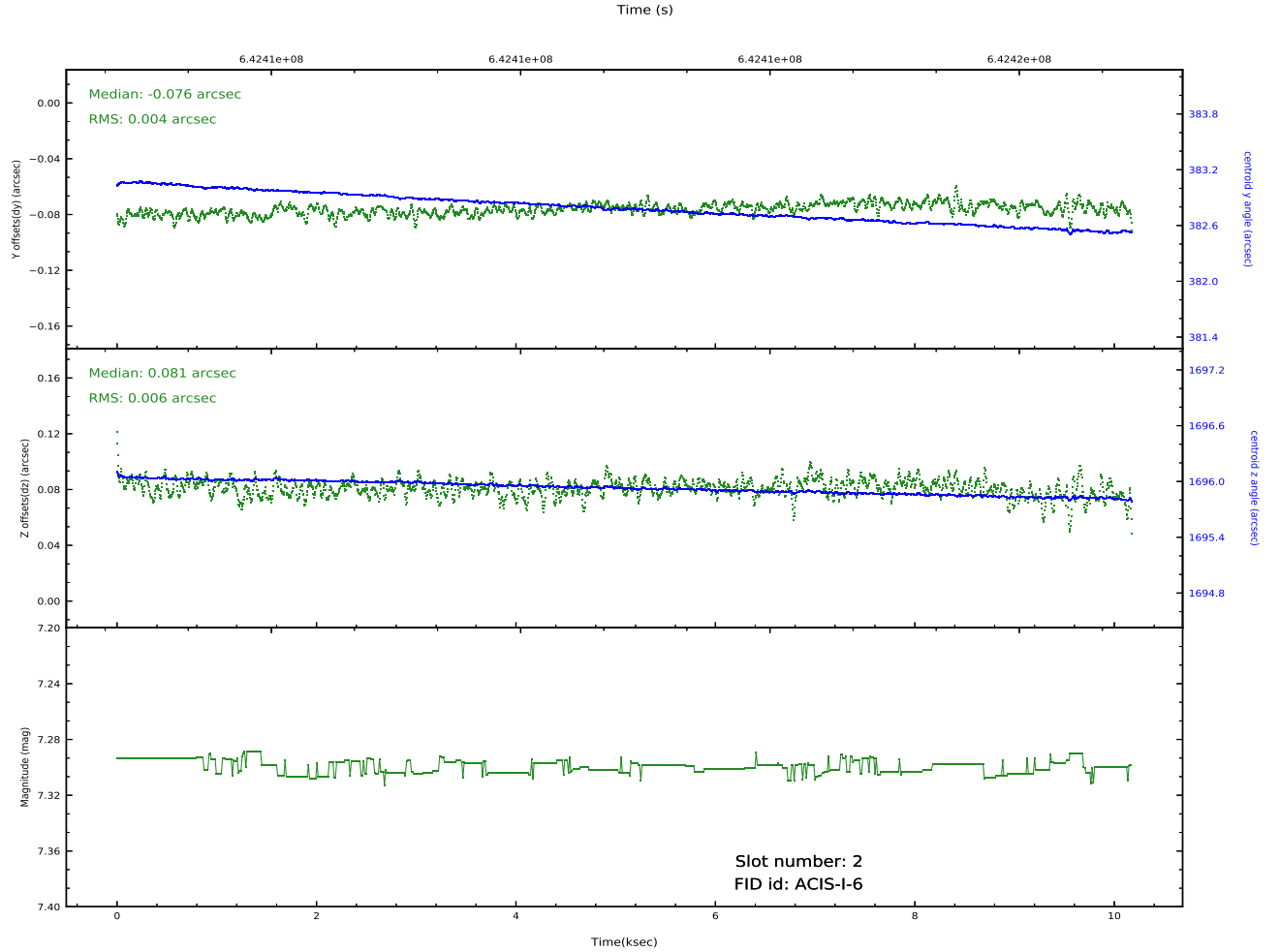
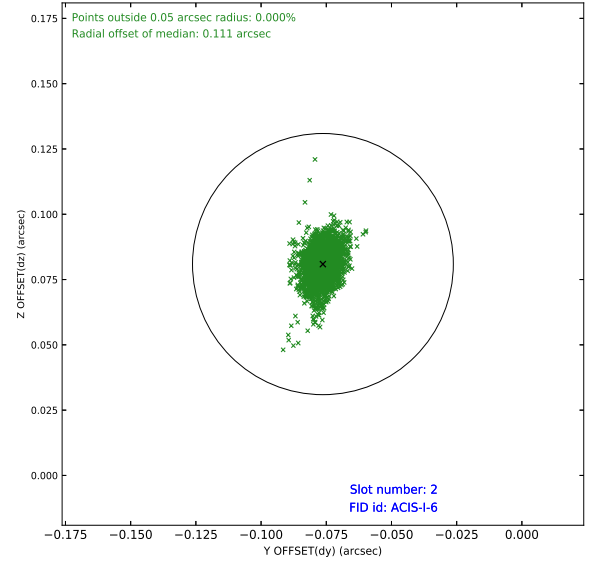
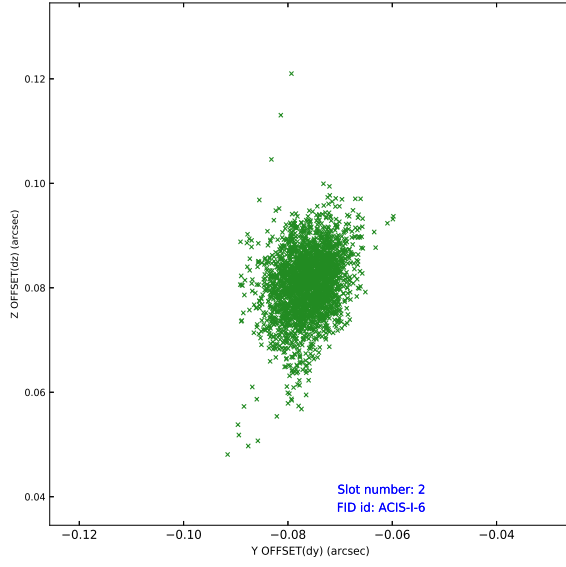
2.5.1 Slot 0



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	10.049603429675

A.2 Comments