

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20326 - L2 Version 2
Chandra X-Ray Center

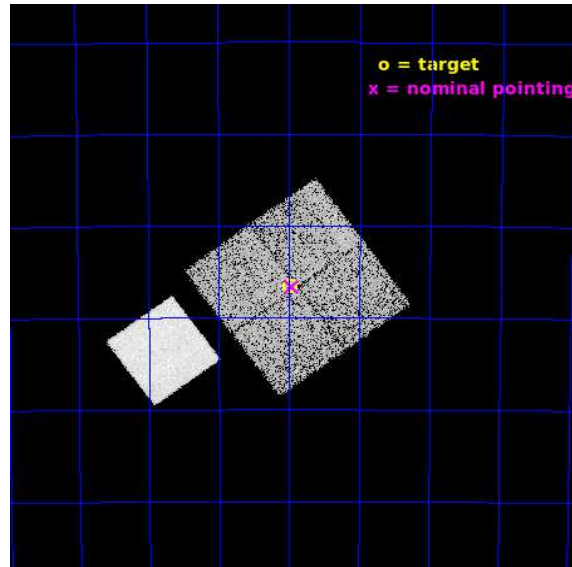
L2 Processing Date : Oct 26 2020

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

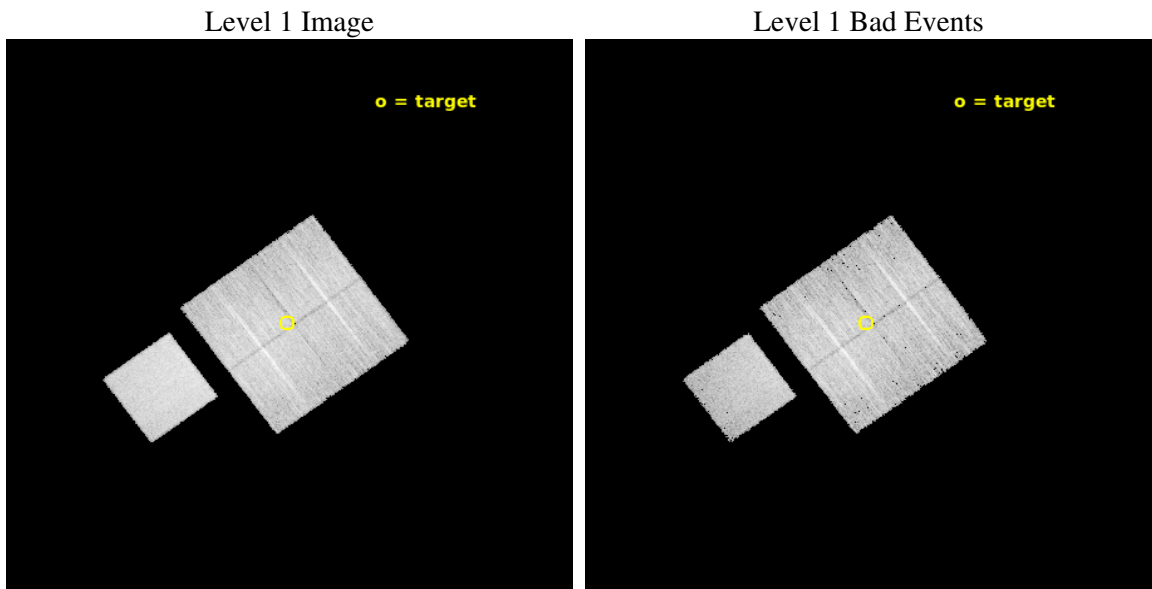
seq_num	503019	Sequence number
obs_id	20326	Observation id
title	Revealing pulsars hidden in the 3rd Fermi Catalog	Proposal title
observer	Blagoy Rangelov	Principal investigator
object	3FGL J1104.9-6036	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	166.2475	Observer's specified target RA [deg]
dec_targ	-60.609111	Observer's specified target Dec [deg]
ra_nom	166.24006334951	Nominal RA [deg]
dec_nom	-60.610715554579	Nominal Dec [deg]
roll_nom	233.75532661283	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10056.28791666	Sum of GTIs [s]
livetime	9924.8951116977	Livetime [s]
ontime0	10059.305766821	Sum of GTIs [s]
ontime1	10059.346806884	Sum of GTIs [s]
ontime2	10059.387846828	Sum of GTIs [s]
ontime3	10056.28791666	Sum of GTIs [s]
ontime7	10059.469926834	Sum of GTIs [s]
l2events	70974	Number of level 2 events



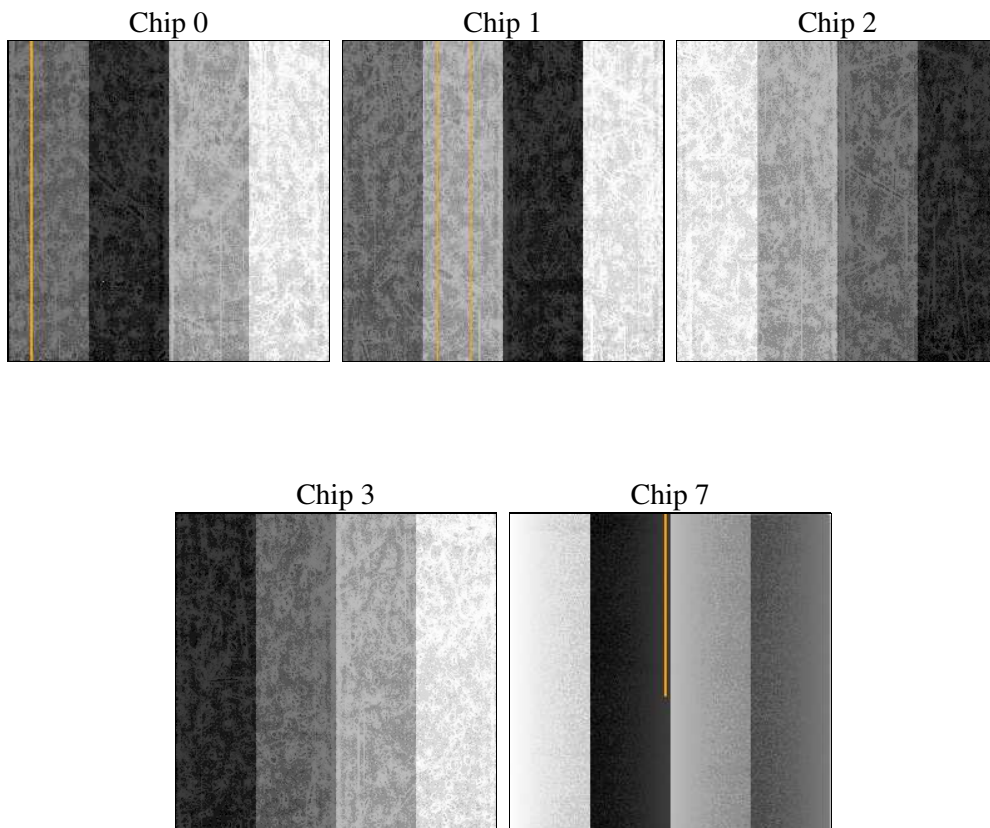
2 OBI

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	10056.28791666	Sum of GTIs [s]
caldbver	4.9.3	 	ontime0	10059.305766821	Sum of GTIs [s]
date	2020-10-26T17:42:37	Date and time of file creation	ontime1	10059.346806884	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10059.387846828	Sum of GTIs [s]
			ontime3	10056.28791666	Sum of GTIs [s]
			ontime7	10059.469926834	Sum of GTIs [s]
			l1events	383488	Number of level 1 events

2.1.4 Events

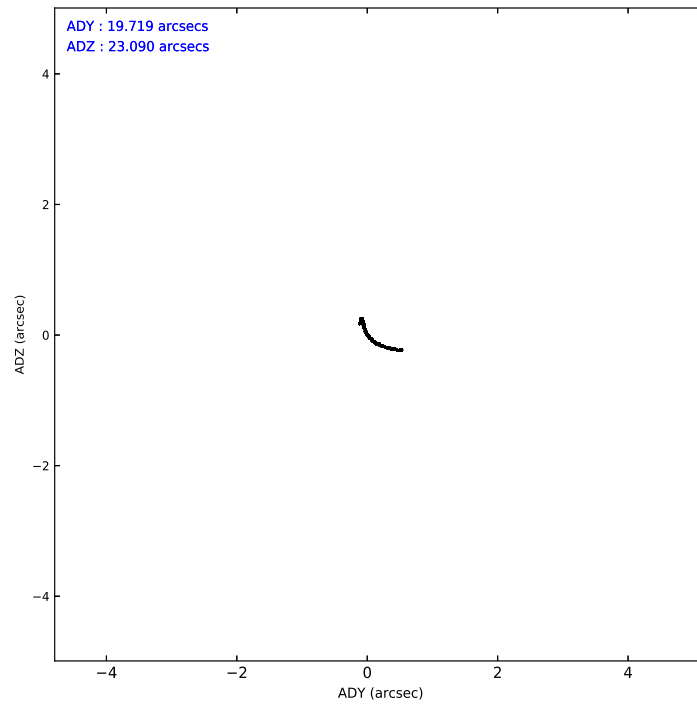
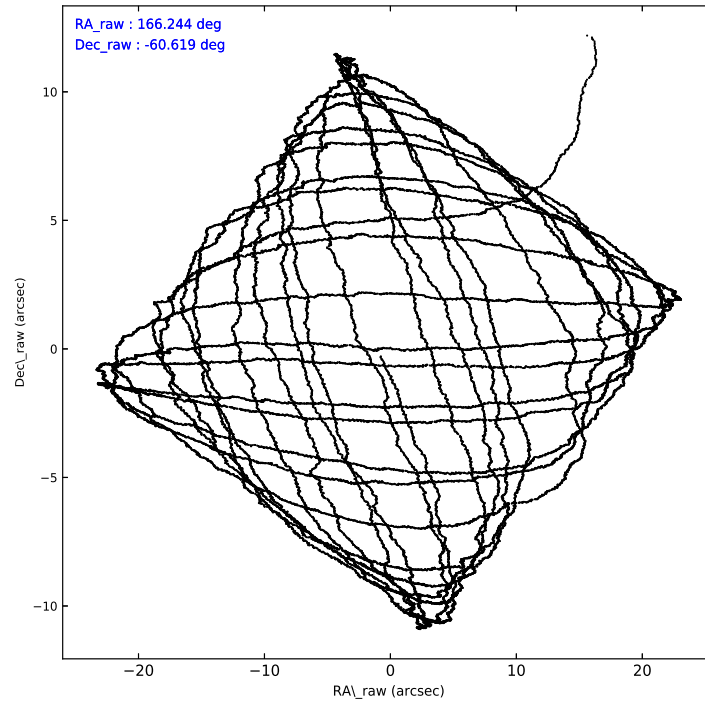
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	67630	69282	75269	73541	97766
rejected events	58868	59731	66474	65118	54964
rejected %	87%	86%	88%	88%	56%

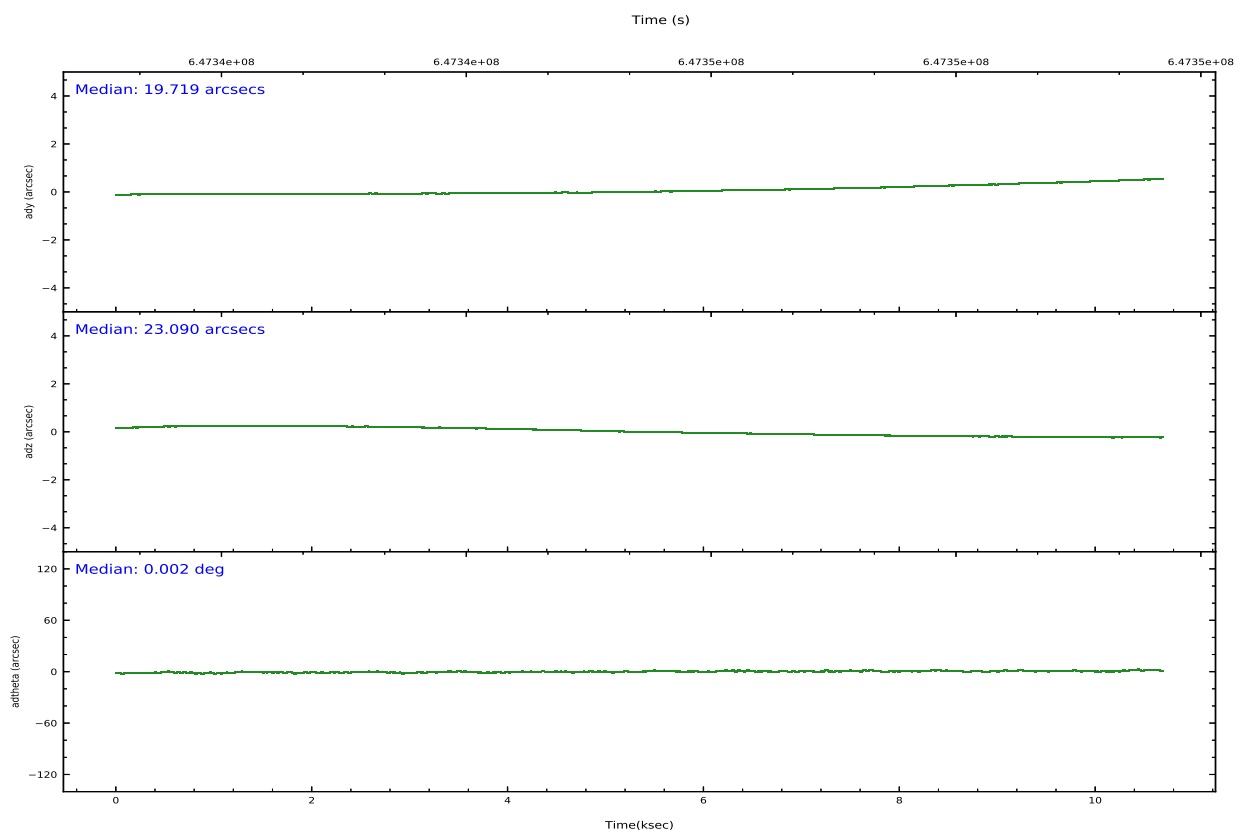
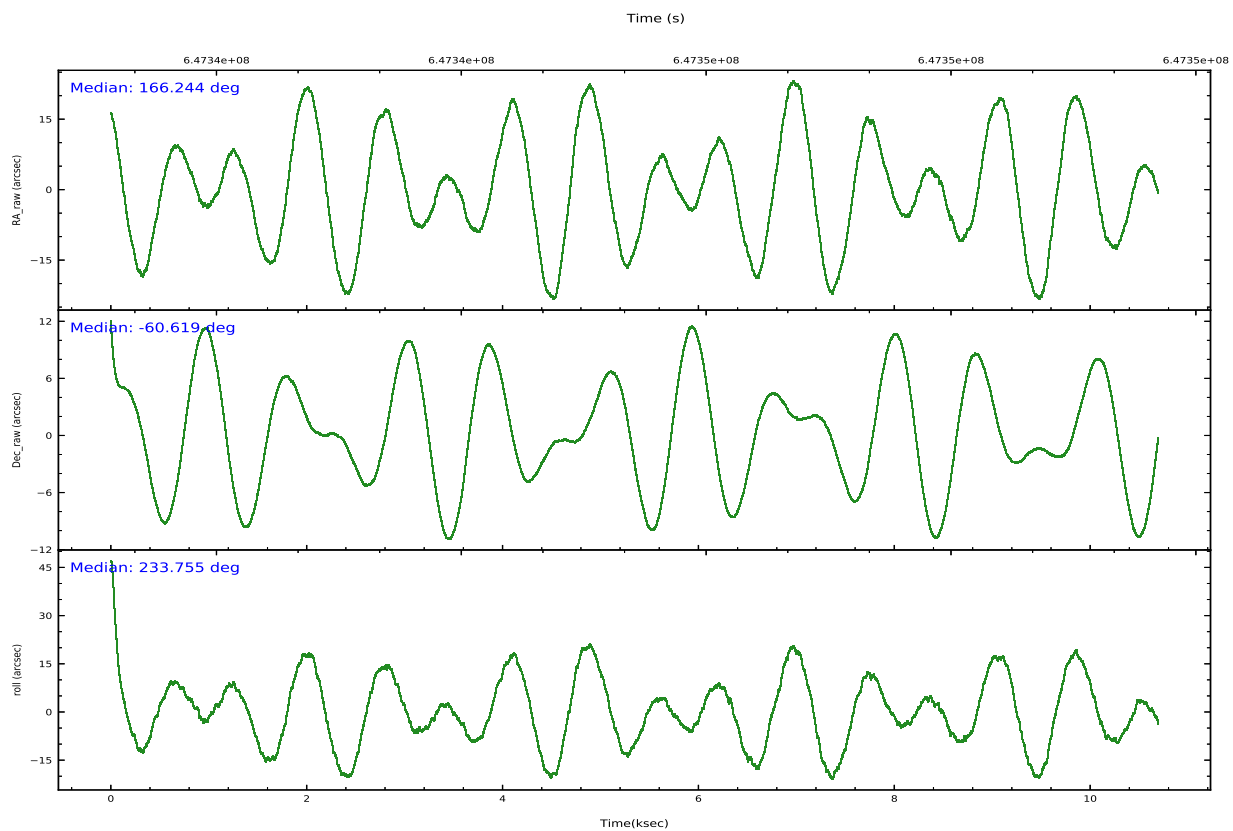
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	3038	3302	3241	3260	3703
	4%	4%	4%	4%	3%
grade 1 events	40	32	47	37	176
	0%	0%	0%	0%	0%
grade 2 events	2272	2372	2166	1805	9217
	3%	3%	2%	2%	9%
grade 3 events	864	870	808	861	3399
	1%	1%	1%	1%	3%
grade 4 events	765	917	843	834	3425
	1%	1%	1%	1%	3%
grade 5 events	3309	3398	3214	3645	9922
	4%	4%	4%	4%	10%
grade 6 events	1830	2095	1742	1669	23067
	2%	3%	2%	2%	23%
grade 7 events	55512	56296	63208	61430	44857
	82%	81%	83%	83%	45%

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	166.250079	166.24006334951	CCD I2 on	Y	Y
[deg] Pointing Dec	-60.591748	-60.610715554579	CCD I3 on	Y	Y
[deg] Pointing Roll	233.558816	233.75532661283	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)	647342116.184000	647340761.09489	CCD S5 on	N	N
Observation start date	2018-07-07T09:14:07	2018-07-07T08:52:41	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	647352116.184000	647352872.49561	On-chip summing requested	N	N
Observation end date	2018-07-07T12:00:47	2018-07-07T12:14:32	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



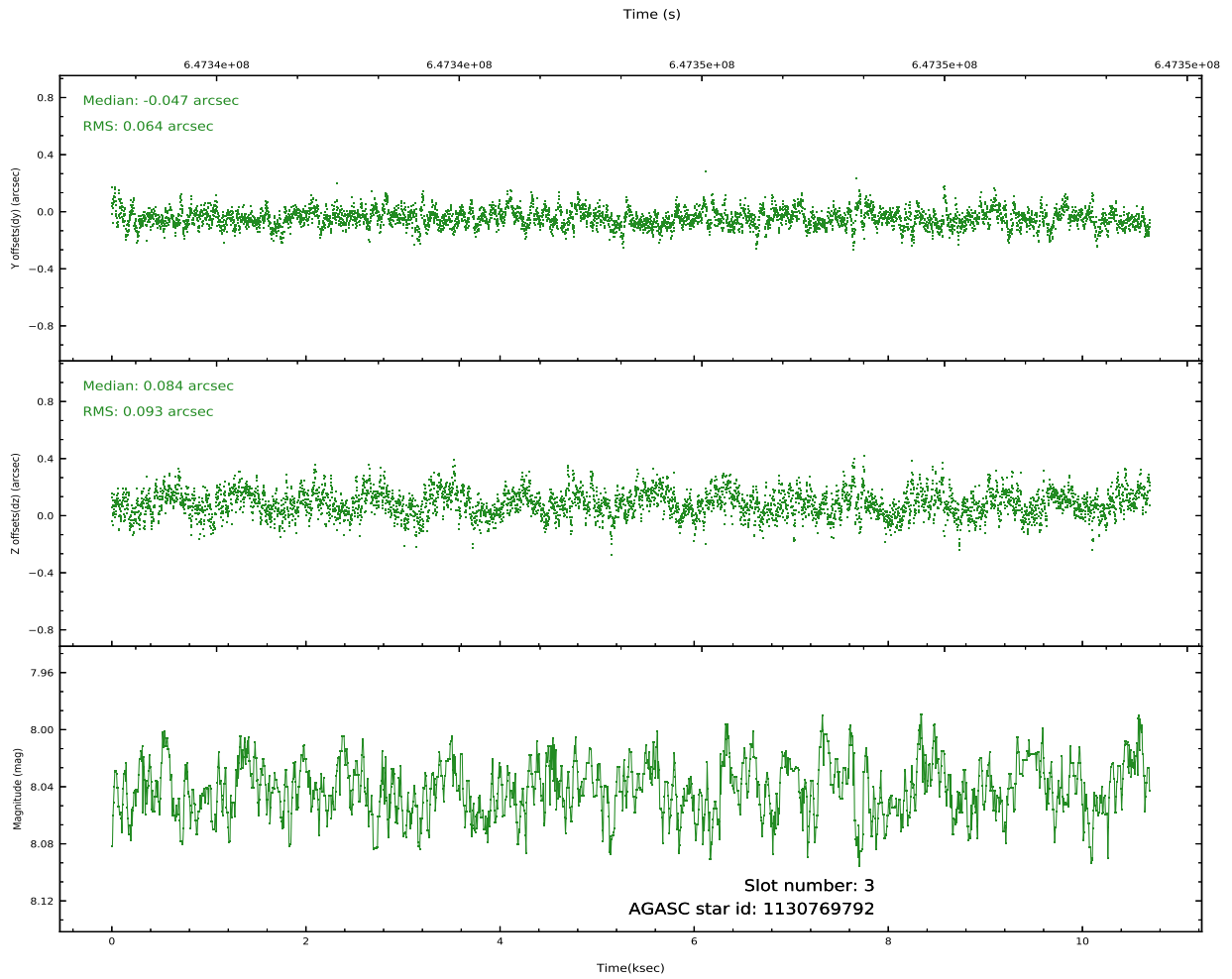
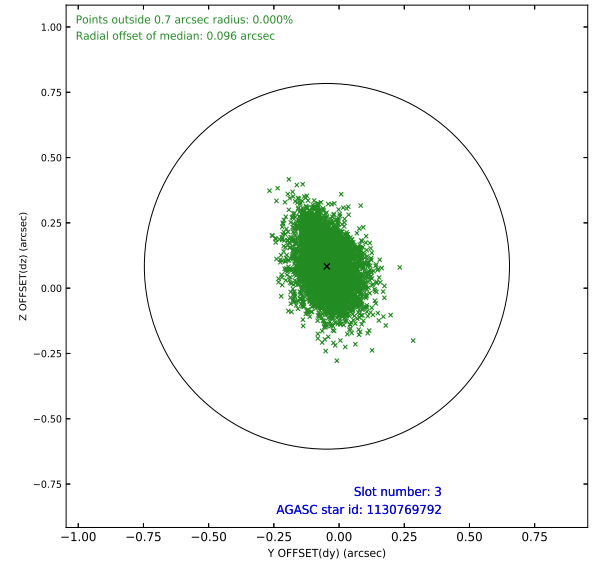
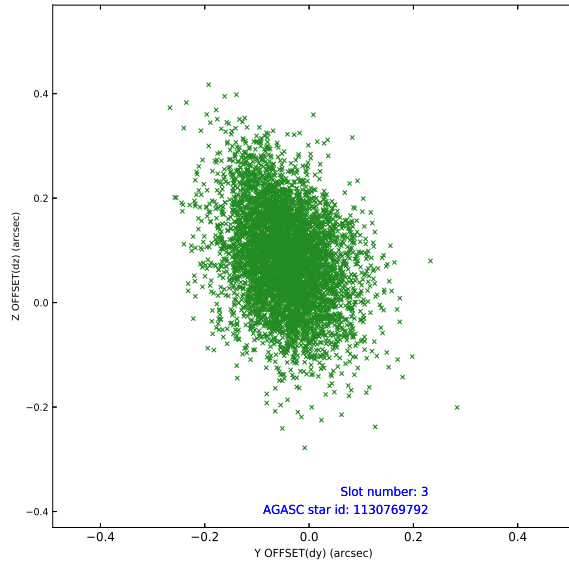


Slot Statistics

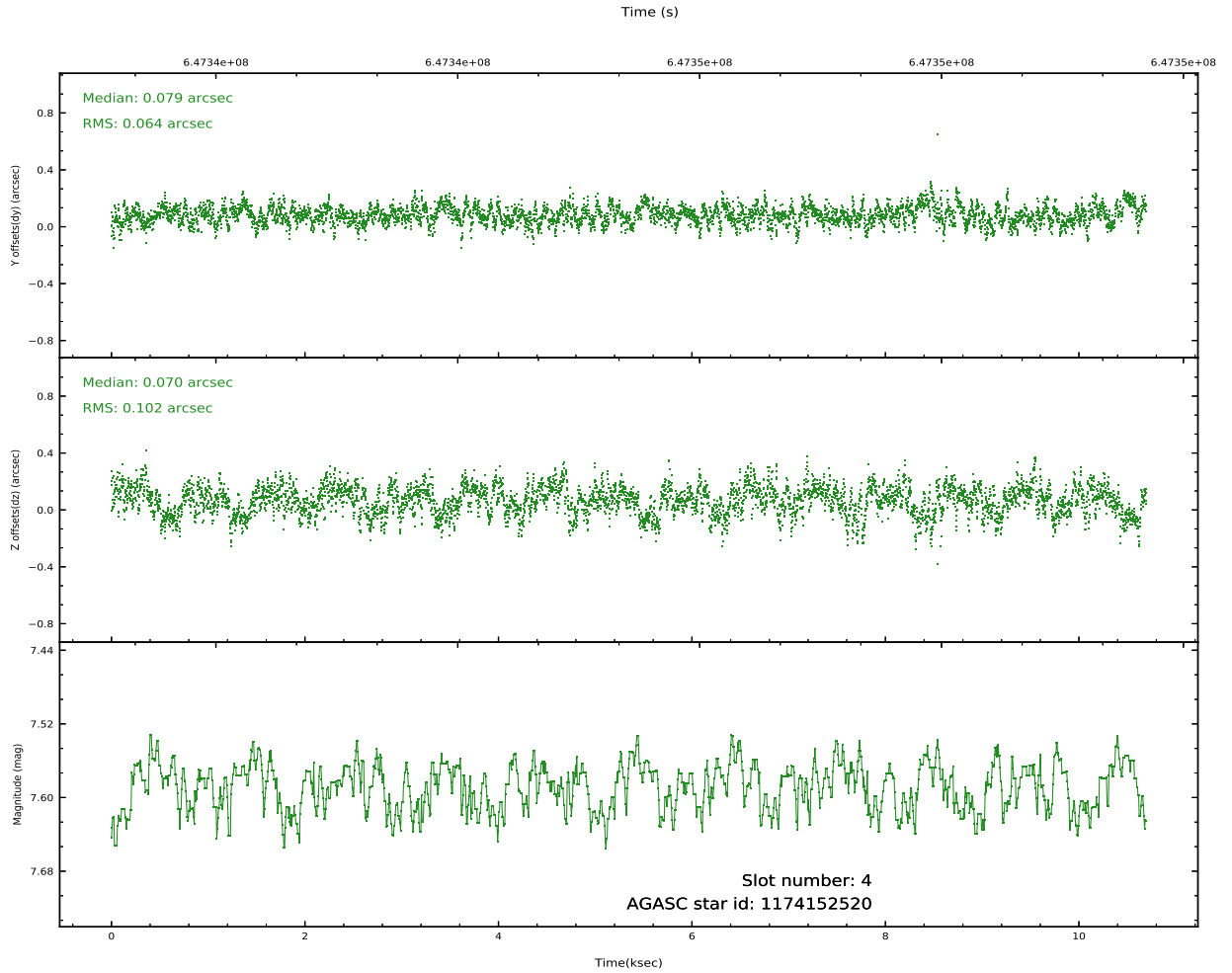
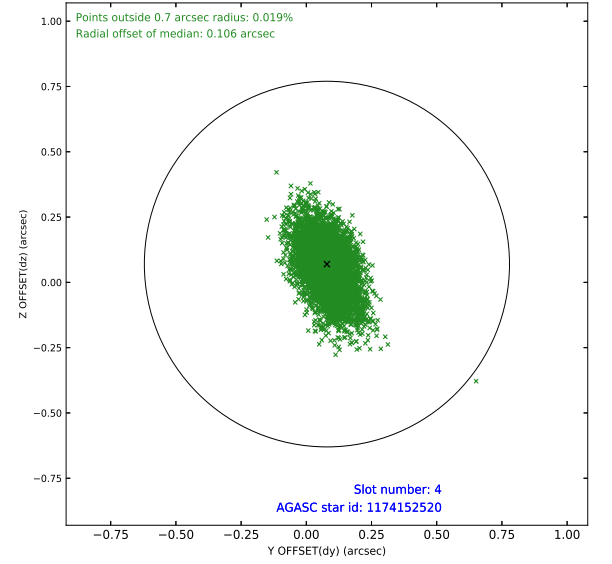
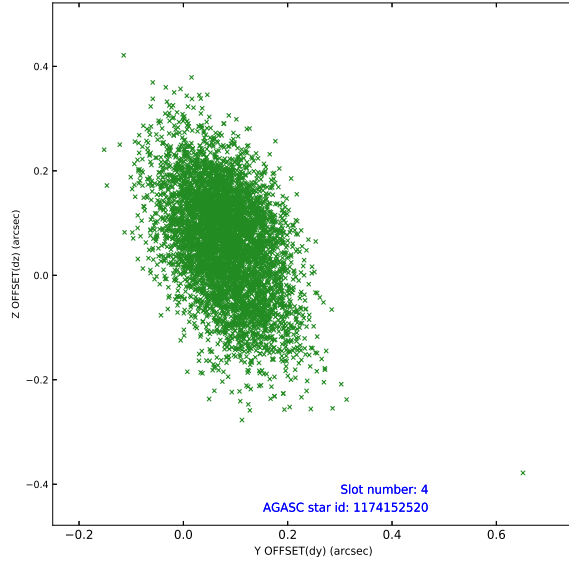
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.10	2609	1.000	0.177	-0.059	0.016	0.026	0.000000	0.000000	919.64	-847
1	FID		ACIS-I-5	7.08	2609	1.000	-0.273	0.173	0.009	0.017	0.000000	0.000000	-1828.52	1050
2	FID		ACIS-I-6	7.10	2609	1.000	0.004	-0.043	0.011	0.017	0.000000	0.000000	384.65	1695
3	GUIDE	used	1130769792	8.04	5216	1.000	-0.047	0.084	0.116	0.199	166.107050	-59.868361	-1941.05	-1754
4	GUIDE	used	1174152520	7.59	5217	1.000	0.079	0.070	0.123	0.218	165.769535	-60.824851	1178.36	-178
5	GUIDE	used	1174178160	7.95	5217	1.000	-0.084	-0.092	0.109	0.179	167.045219	-60.246389	-1836.93	409
6	GUIDE	used	1174174824	7.33	5217	1.000	0.334	-0.217	0.115	0.208	164.692322	-60.862830	2433.11	-1597
7	GUIDE	used	1174280192	8.23	5212	1.000	-0.285	0.166	0.122	0.200	167.524962	-60.249140	-2327.03	1112

2.4 Star Slots

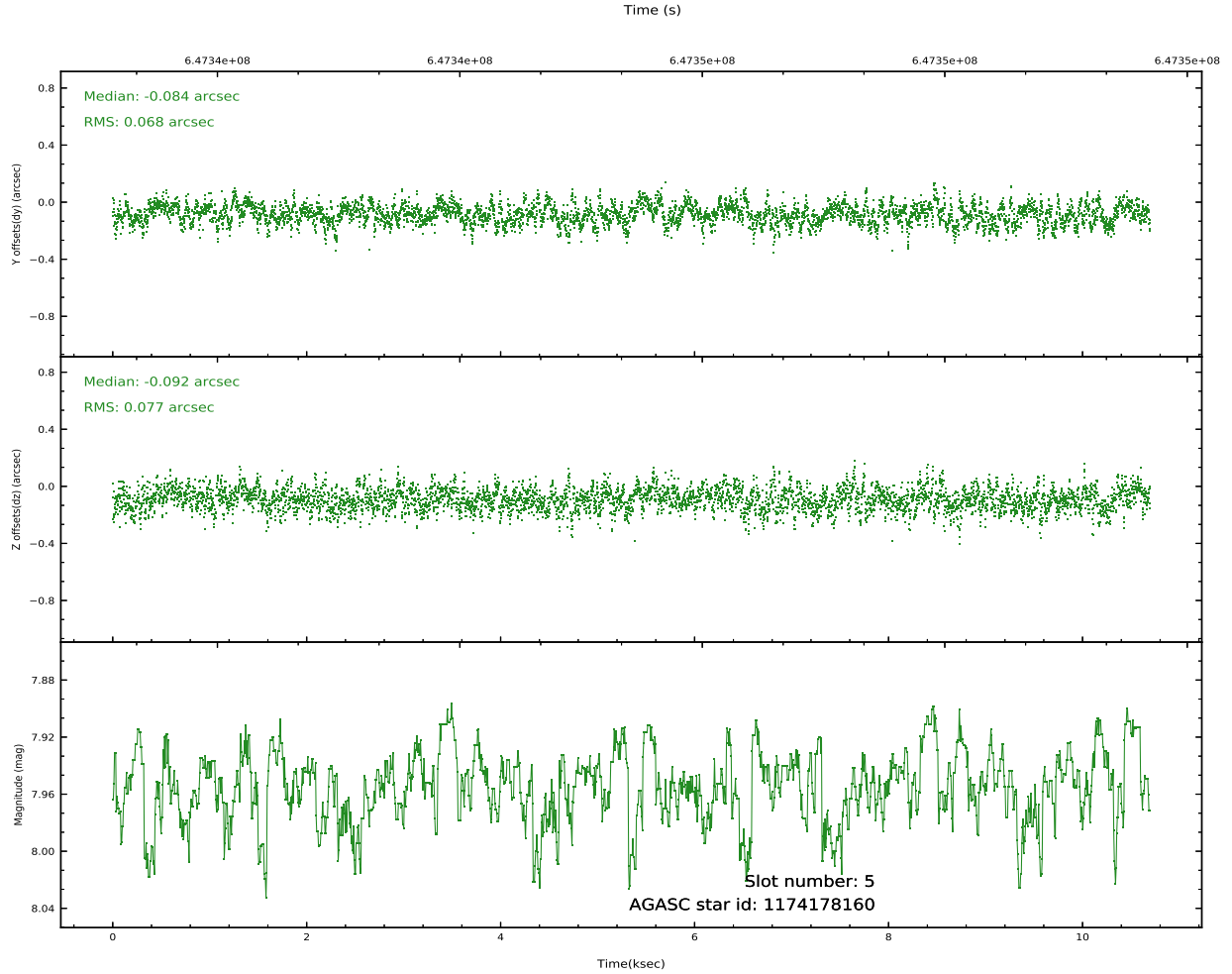
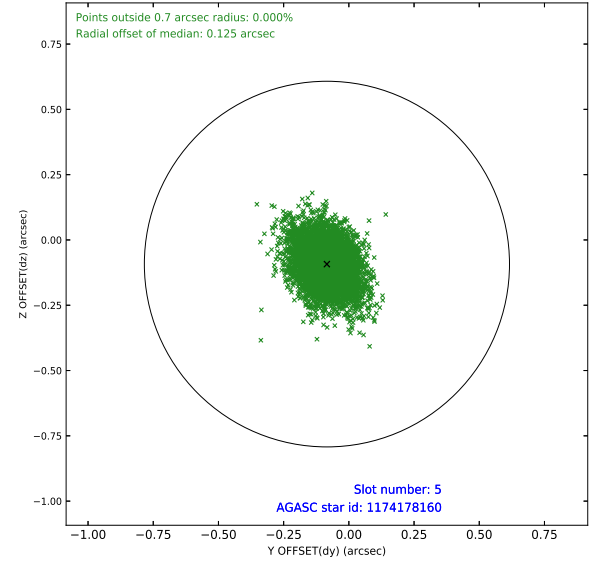
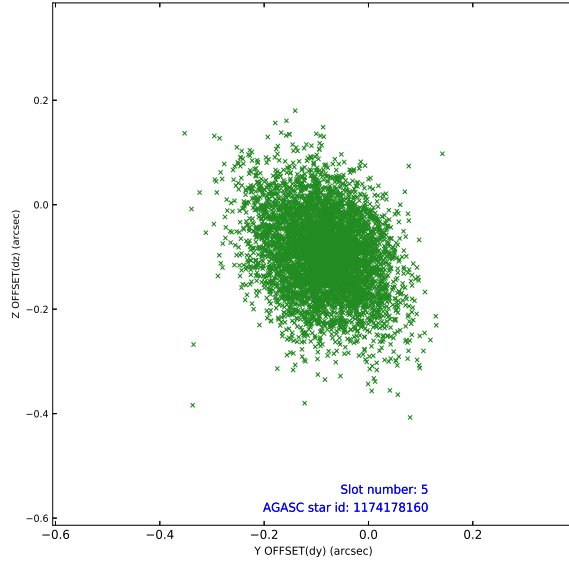
2.4.1 Slot 3



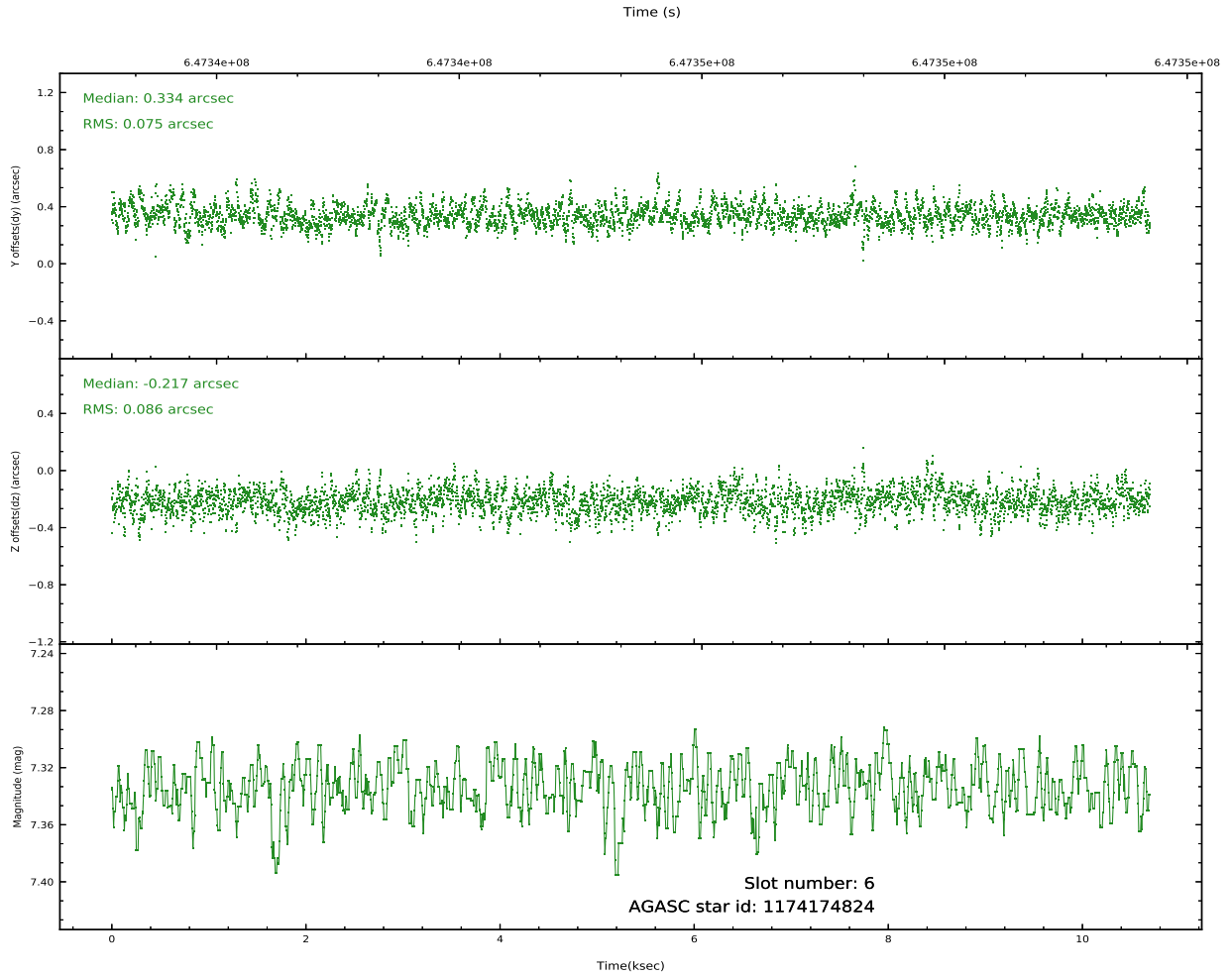
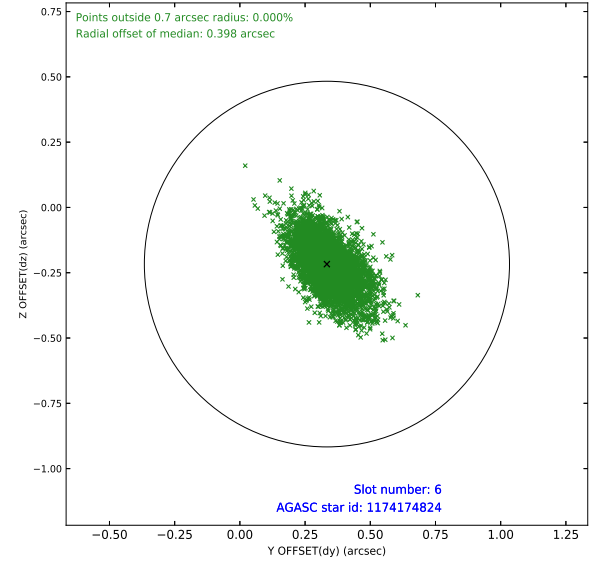
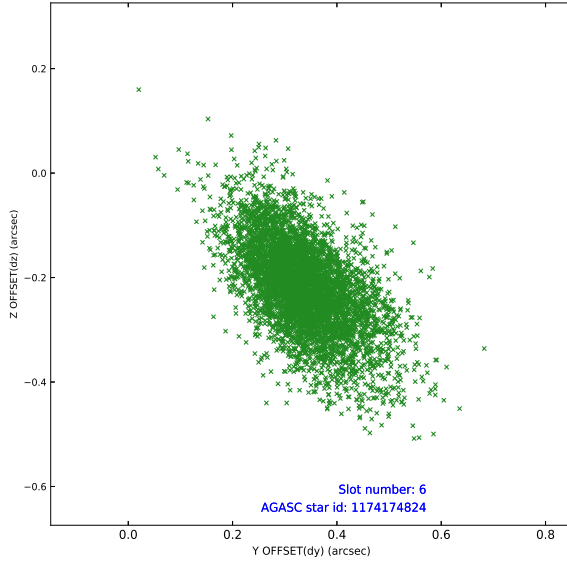
2.4.2 Slot 4



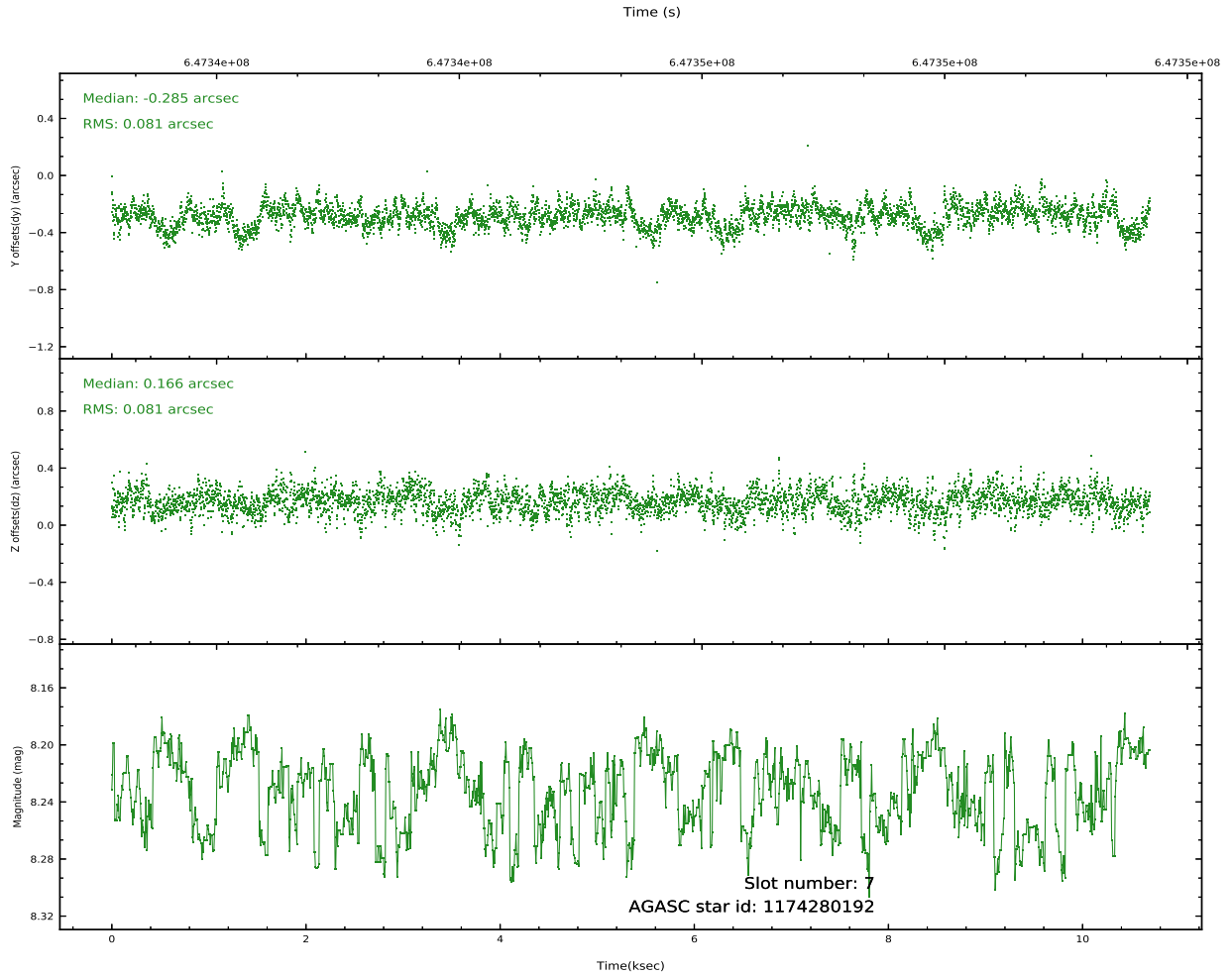
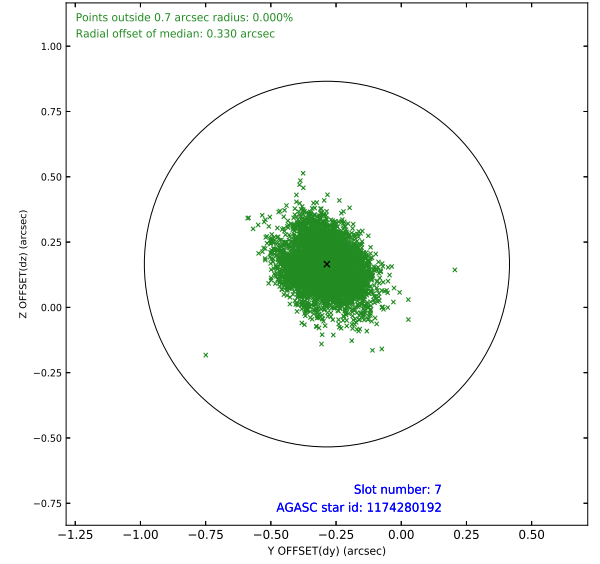
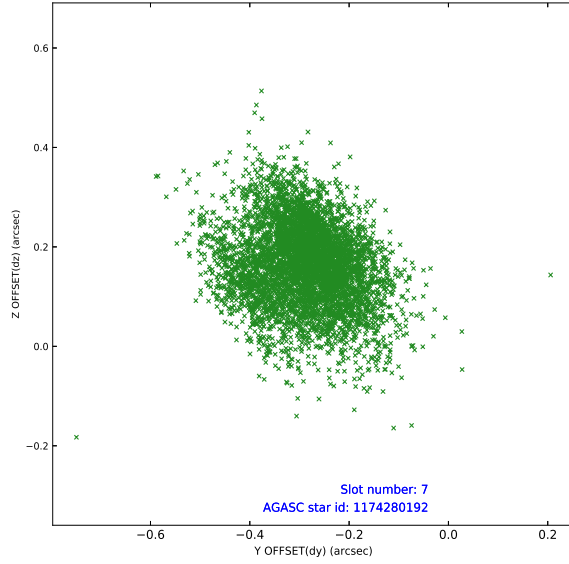
2.4.3 Slot 5



2.4.4 Slot 6

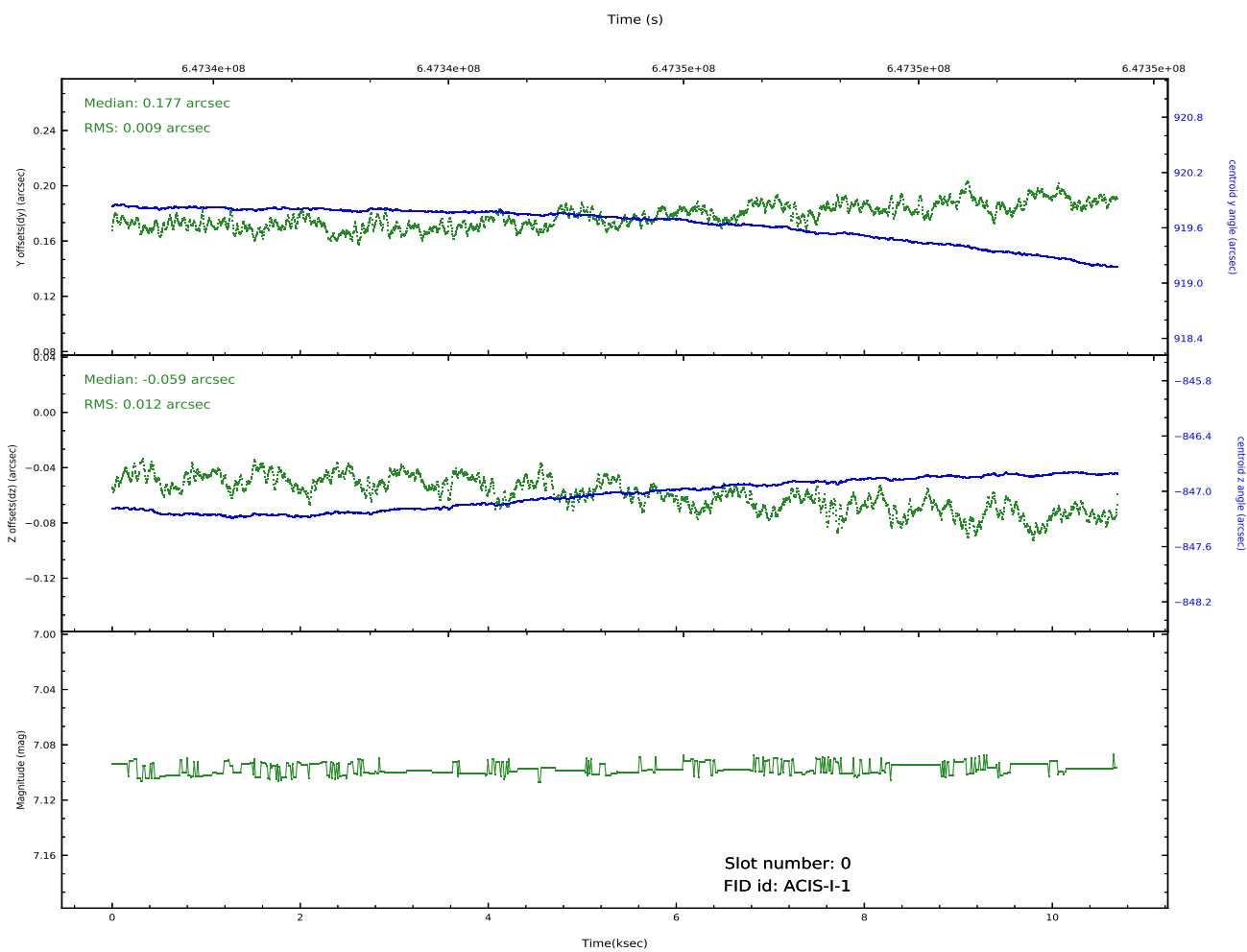
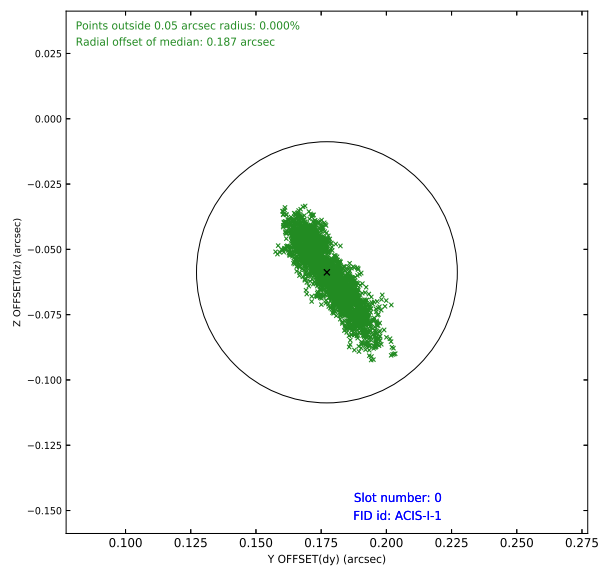
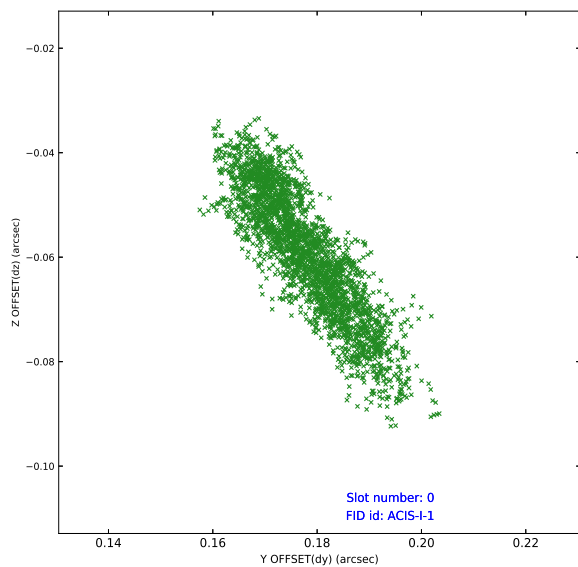


2.4.5 Slot 7

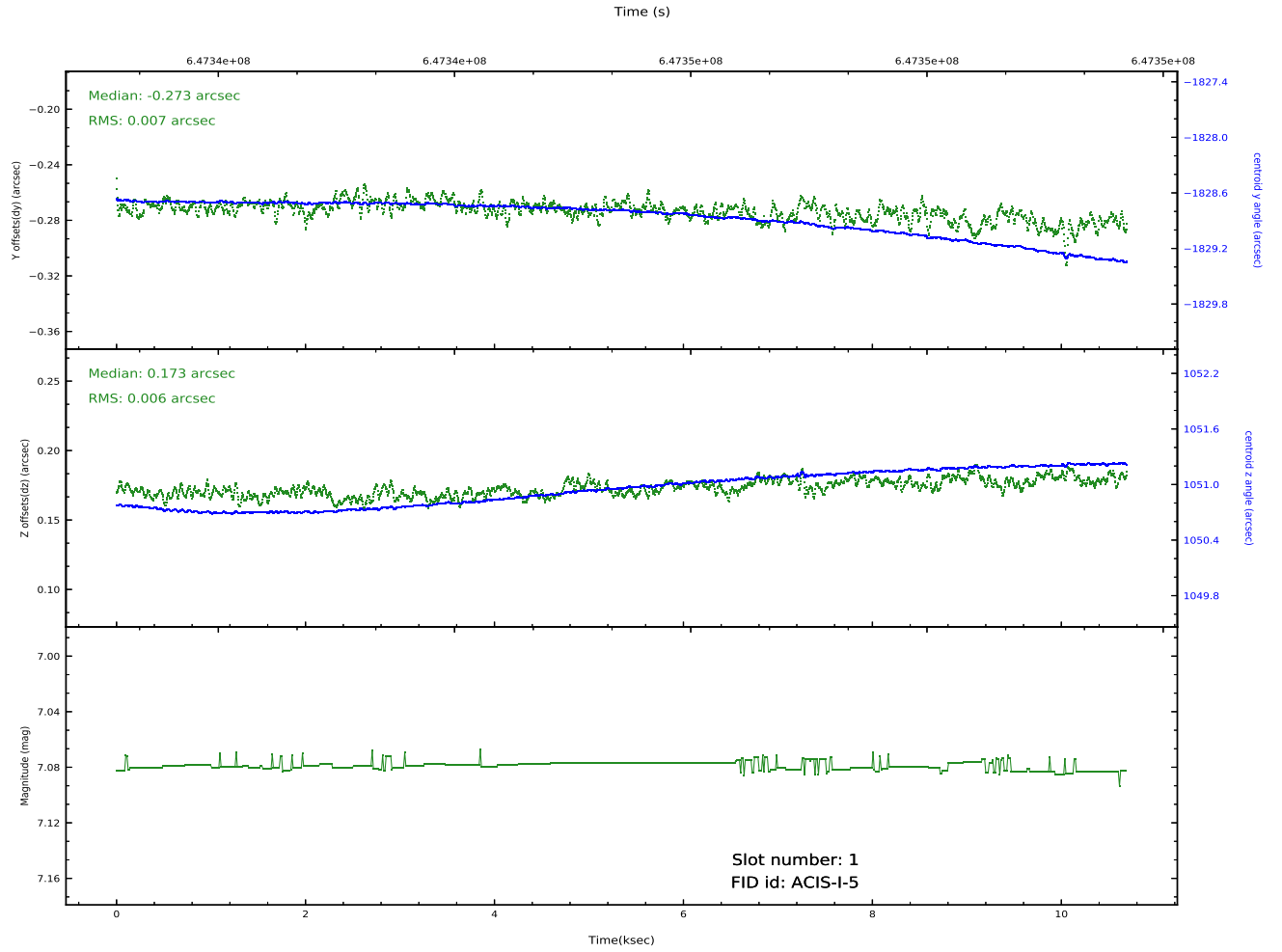
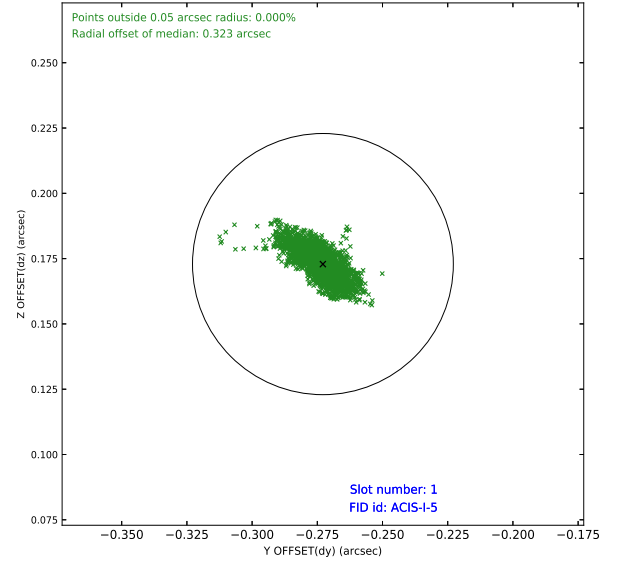
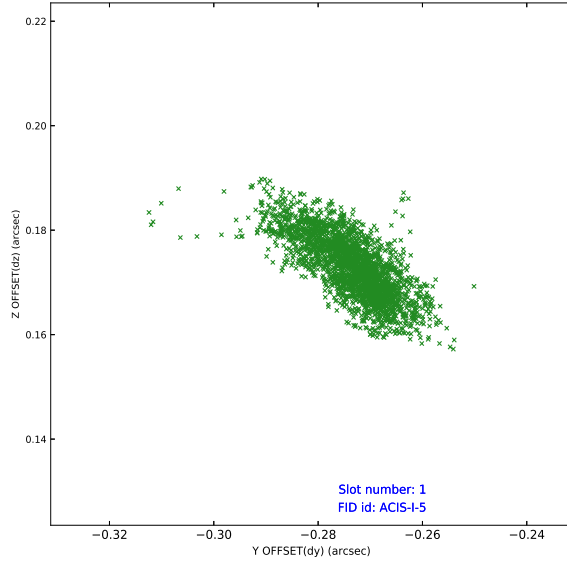


2.5 FID Slots

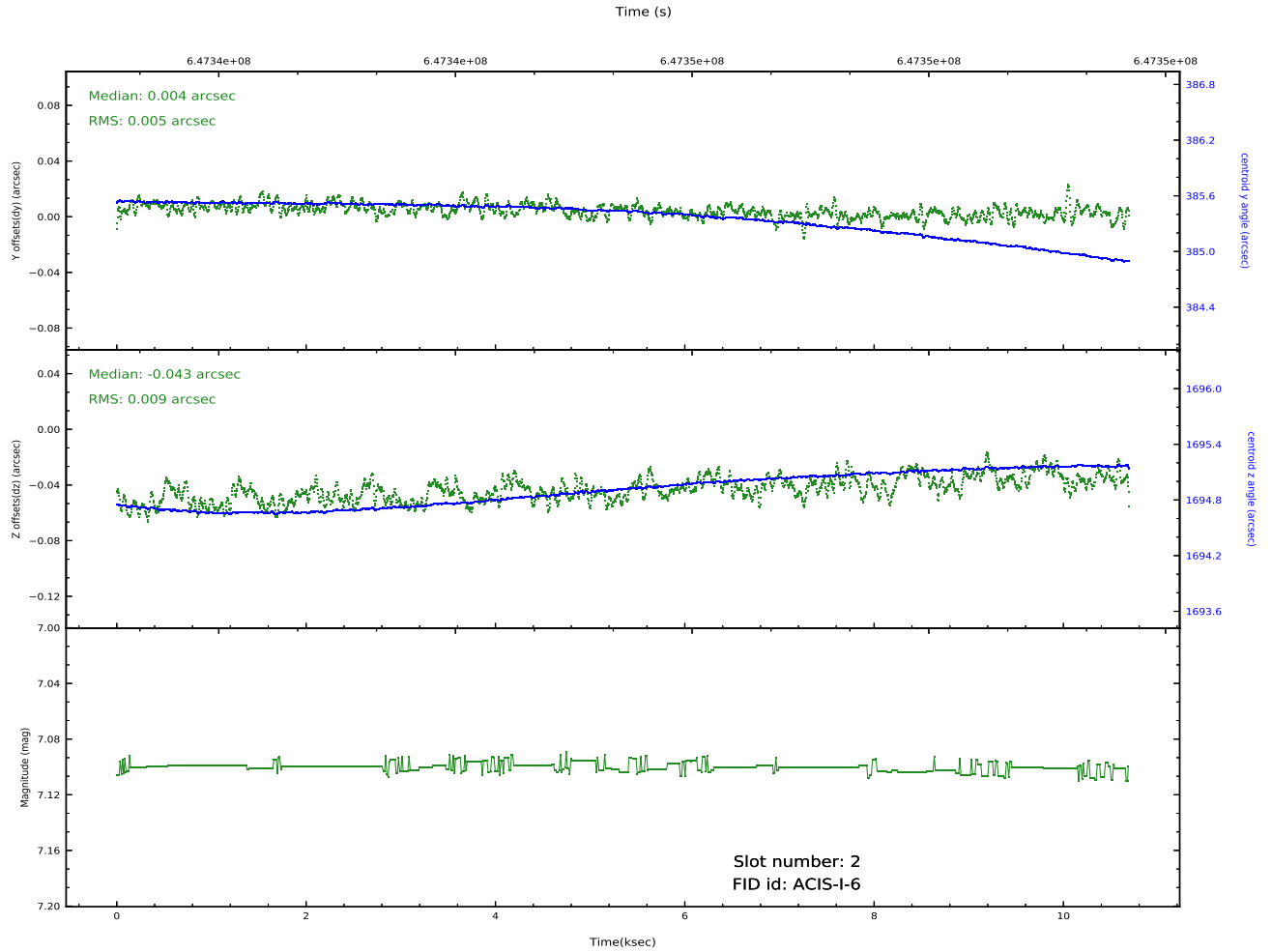
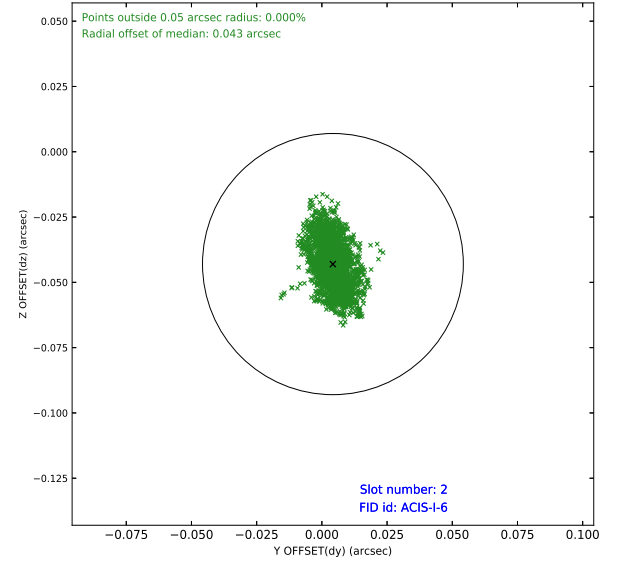
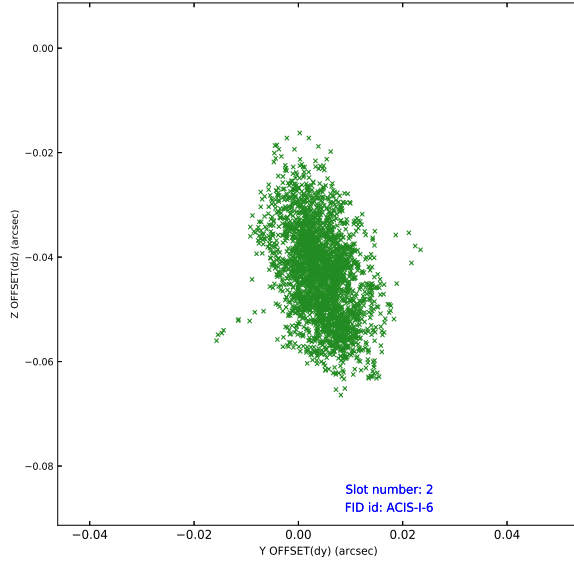
2.5.1 Slot 0



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	10.05628792274

A.2 Comments