

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20200 - L2 Version 2
Chandra X-Ray Center

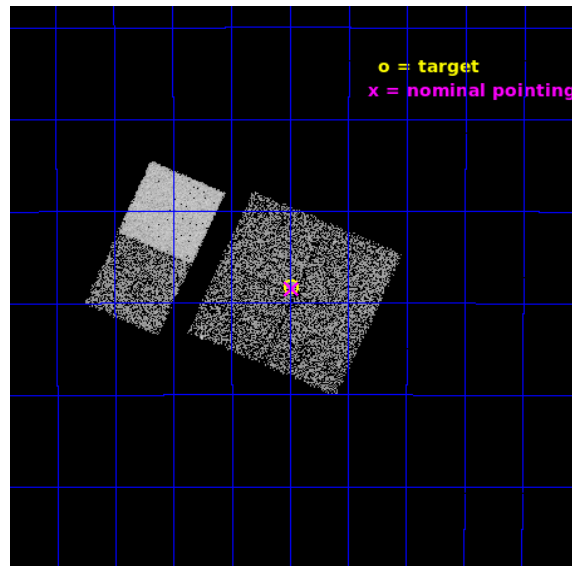
L2 Processing Date : Oct 26 2020

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

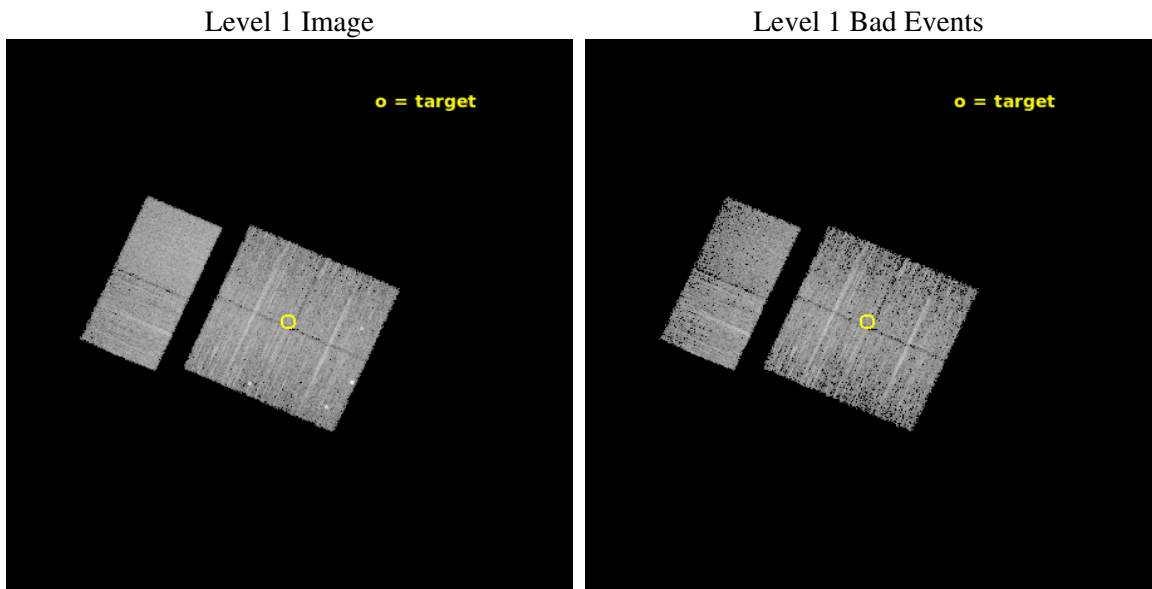
seq_num	401927	Sequence number
obs_id	20200	Observation id
title	The Nature of INTEGRAL Sources in the Galactic Plane	Proposal titl
observer	John Tomsick	Principal investigator
object	IGR J18017-3542	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	270.370833	Observer's specified target RA [deg]
dec_targ	-35.638	Observer's specified target Dec [deg]
ra_nom	270.37045560123	Nominal RA [deg]
dec_nom	-35.641215708903	Nominal Dec [deg]
roll_nom	294.209907713	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4952.9092741013	Sum of GTIs [s]
livetime	4890.1925545887	Livetime [s]
ontime0	4949.545093894	Sum of GTIs [s]
ontime1	4952.8271940947	Sum of GTIs [s]
ontime2	4952.8682341576	Sum of GTIs [s]
ontime3	4952.9092741013	Sum of GTIs [s]
ontime6	4952.9913541079	Sum of GTIs [s]
ontime7	4952.9503141642	Sum of GTIs [s]
l2events	38166	Number of level 2 events



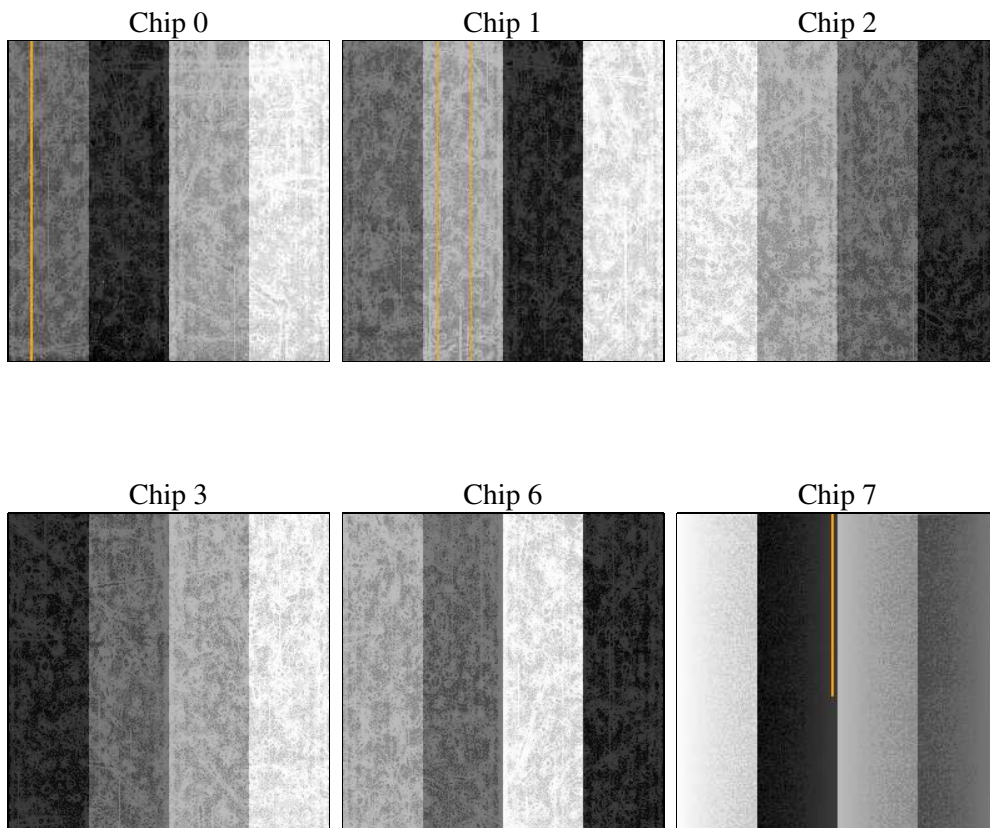
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	4952.9092741013	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	4949.545093894	Sum of GTIs [s]
date	2020-10-26T19:44:35	Date and time of file creation	ontime1	4952.8271940947	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4952.8682341576	Sum of GTIs [s]
			ontime3	4952.9092741013	Sum of GTIs [s]
			ontime6	4952.9913541079	Sum of GTIs [s]
			ontime7	4952.9503141642	Sum of GTIs [s]
			l1events	234629	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	35758	34860	41733	35389	38810	48079
rejected events	29704	30009	37228	31401	34381	27344
rejected %	83%	86%	89%	88%	88%	56%

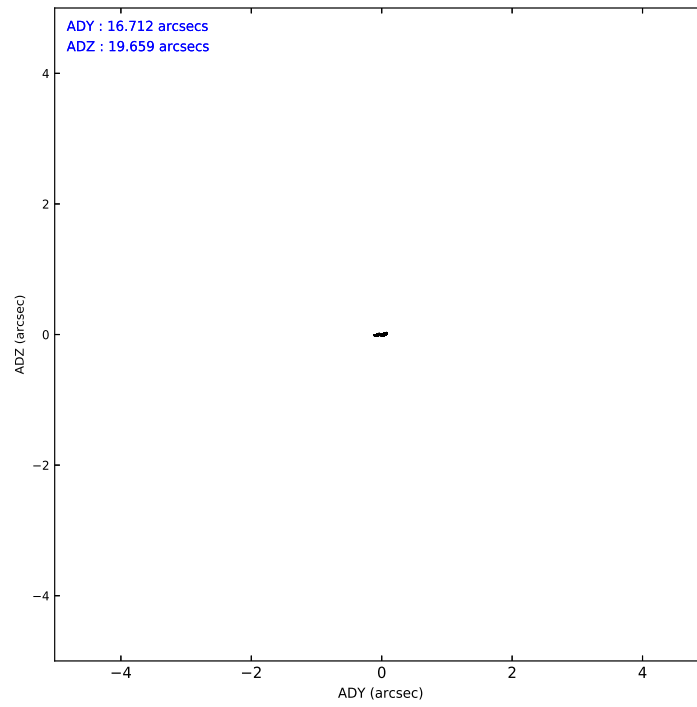
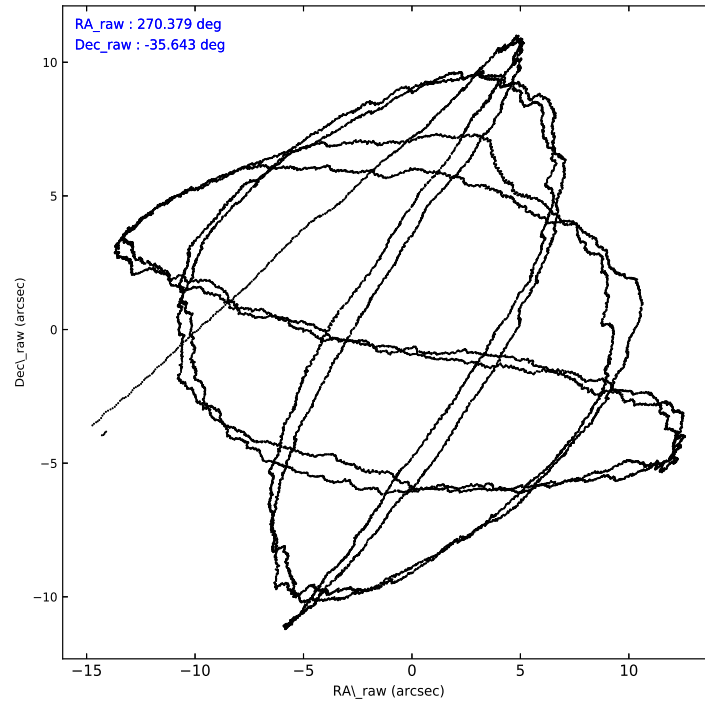
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	1902	1852	2010	1504	1492	1741
	5%	5%	4%	4%	3%	3%
grade 1 events	27	22	23	24	23	85
	0%	0%	0%	0%	0%	0%
grade 2 events	2448	1113	910	839	1046	4406
	6%	3%	2%	2%	2%	9%
grade 3 events	417	428	375	441	404	1693
	1%	1%	0%	1%	1%	3%
grade 4 events	378	416	423	385	350	1543
	1%	1%	1%	1%	0%	3%
grade 5 events	1585	1591	1472	1701	1750	4786
	4%	4%	3%	4%	4%	9%
grade 6 events	912	1052	790	826	1143	11379
	2%	3%	1%	2%	2%	23%
grade 7 events	28089	28386	35730	29669	32602	22446
	78%	81%	85%	83%	84%	46%

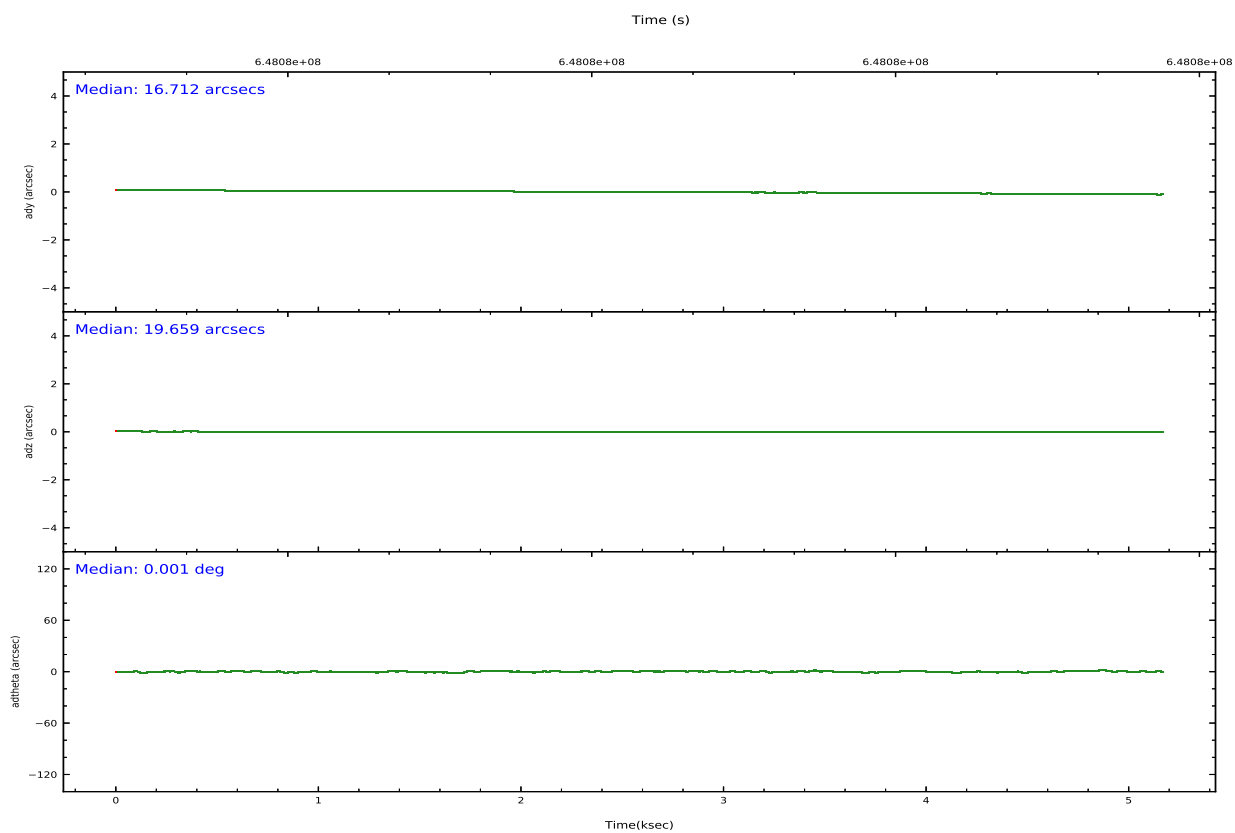
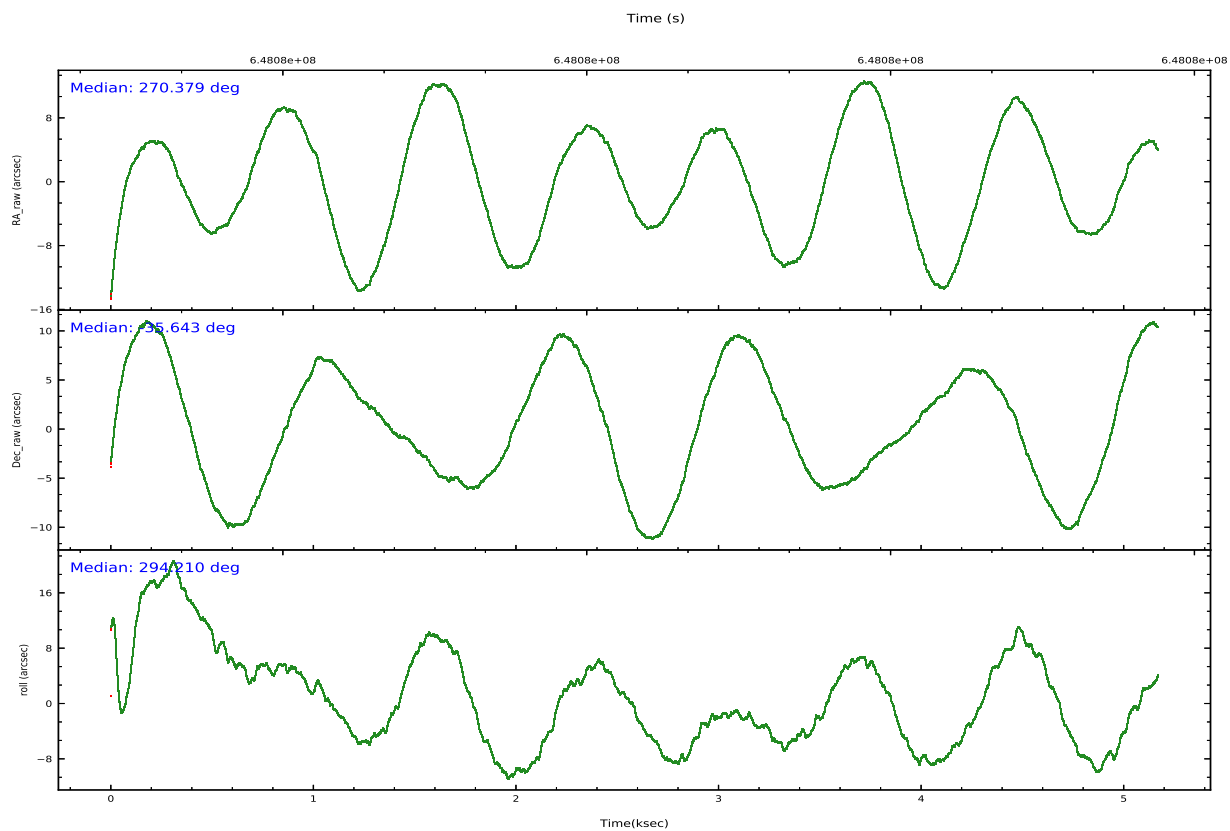
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	270.351588	270.37045560123
[deg] Pointing Dec	-35.627358	-35.641215708903
[deg] Pointing Roll	293.988789	294.209907713
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	648079821.184000	648078641.7261
Observation start date	2018-07-15T22:09:12	2018-07-15T21:50:41
[s] Observation end time (MET)	648084821.184000	648085496.9265
Observation end date	2018-07-15T23:32:32	2018-07-15T23:44:56
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	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	O2	Y
CCD S4 on	N	N
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	3.2

2.3 Aspect



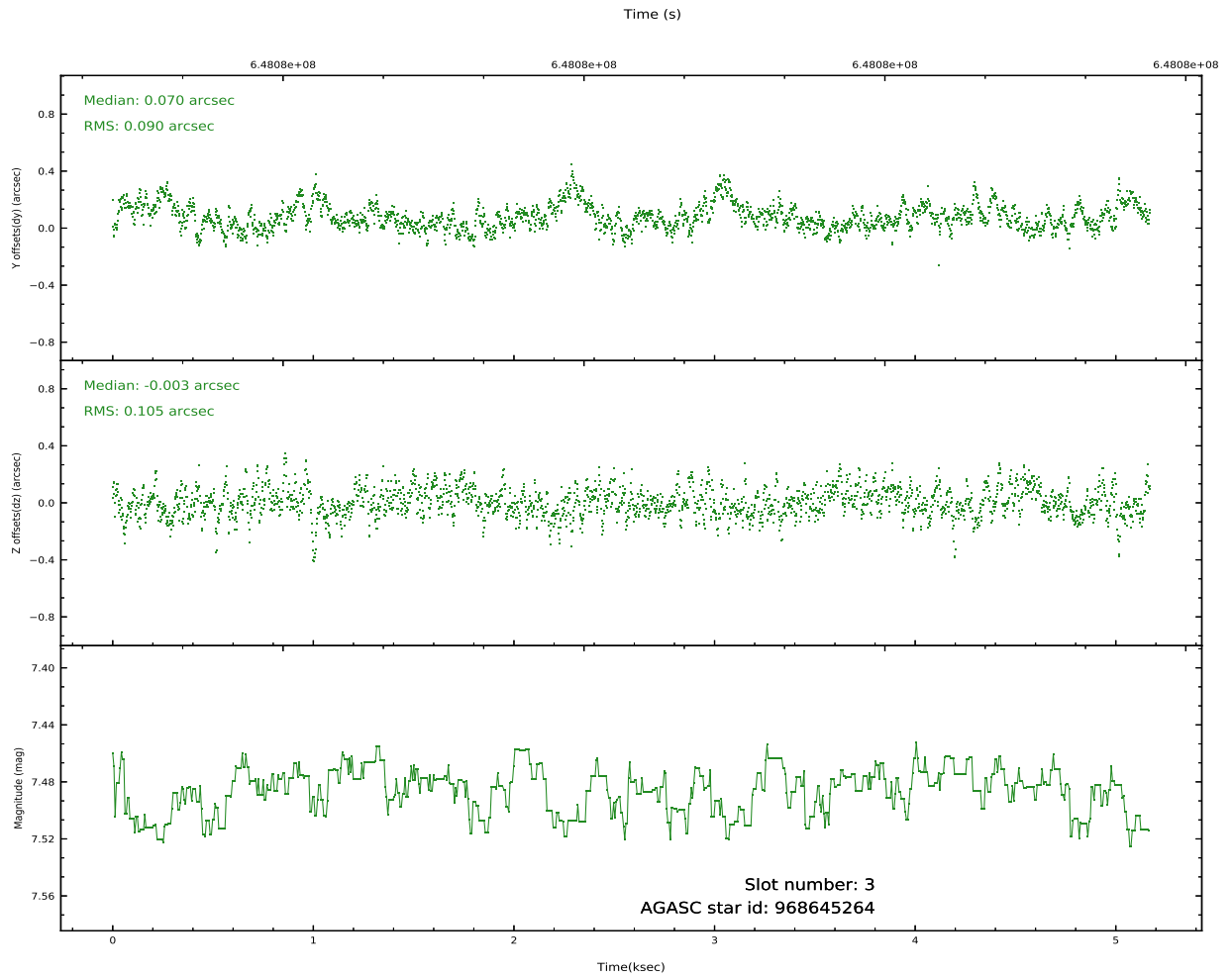
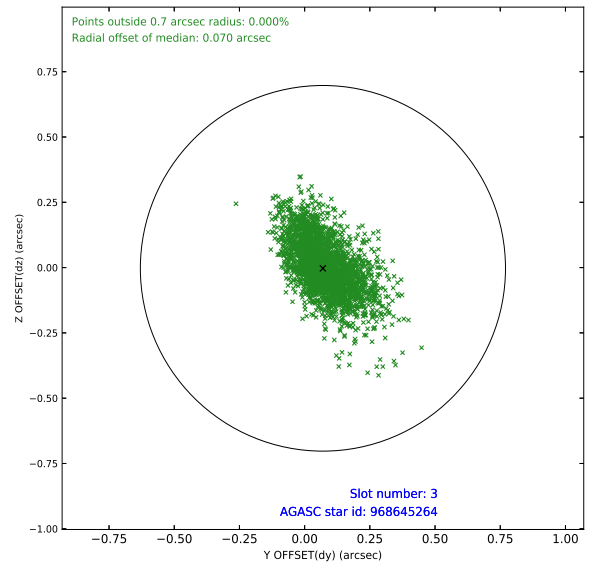
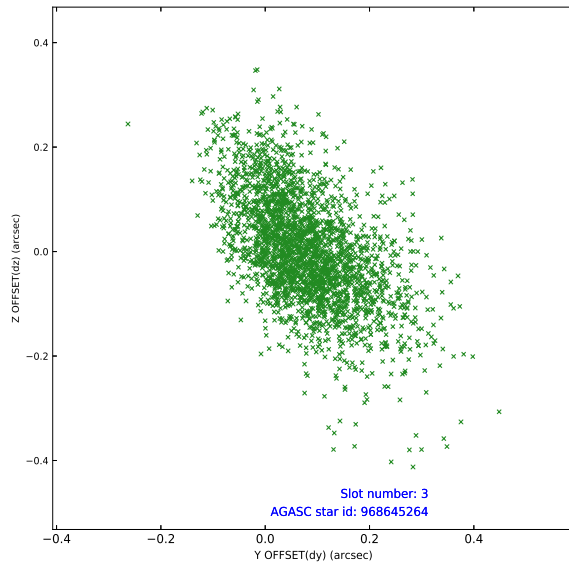


Slot Statistics

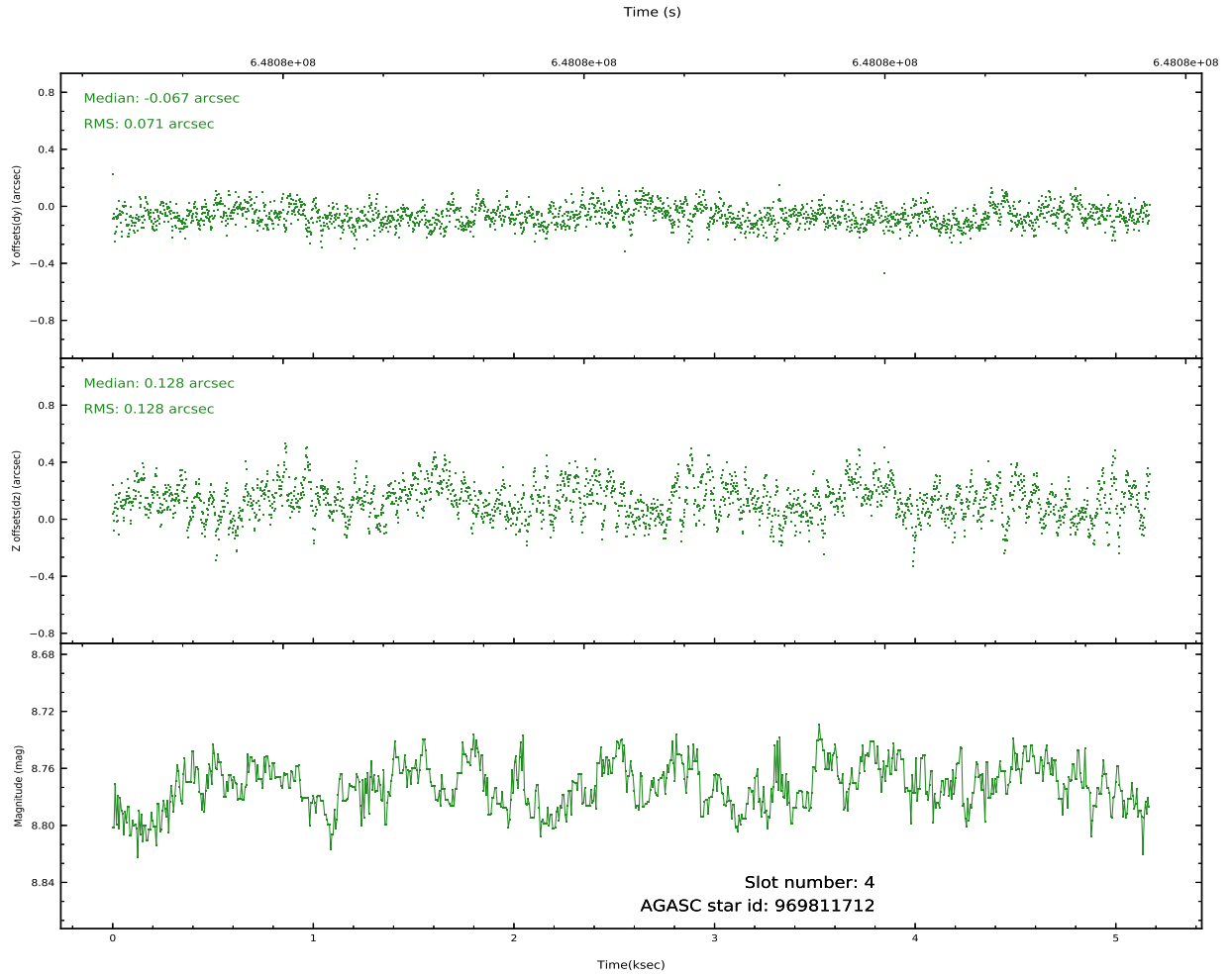
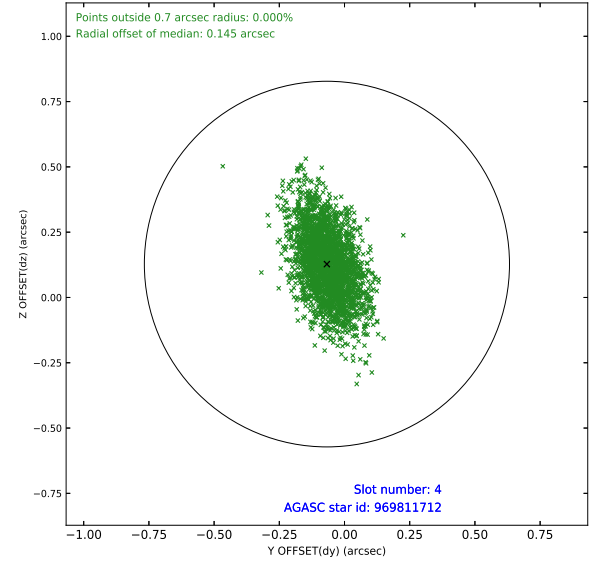
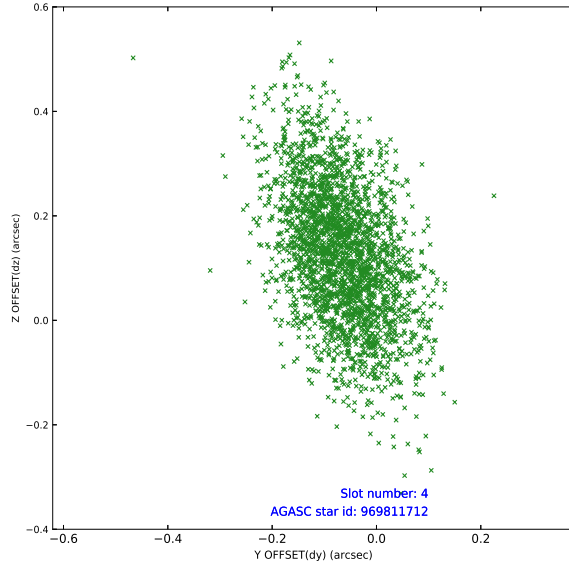
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.19	1262	1.000	0.159	-0.090	0.007	0.013	0.000000	0.000000	922.81	-843
1	FID		ACIS-I-5	7.19	1262	1.000	-0.287	0.140	0.007	0.012	0.000000	0.000000	-1824.99	1053
2	FID		ACIS-I-6	7.20	1262	1.000	0.036	0.020	0.007	0.011	0.000000	0.000000	387.10	1699
3	GUIDE	used	968645264	7.48	2522	1.000	0.070	-0.003	0.140	0.253	269.789149	-36.033961	677.30	-2093
4	GUIDE	used	969811712	8.77	2519	1.000	-0.067	0.128	0.150	0.264	270.805424	-35.613046	496.51	1232
5	GUIDE	used	970374648	9.26	2523	1.000	0.024	-0.054	0.158	0.277	271.004782	-36.011335	2043.70	1172
6	GUIDE	used	970378344	8.00	2521	1.000	-0.021	-0.114	0.136	0.234	270.748638	-35.894706	1353.62	666
7	GUIDE	used	969810808	9.08	2516	1.000	-0.023	0.042	0.173	0.292	270.299451	-35.329113	-1041.94	296

2.4 Star Slots

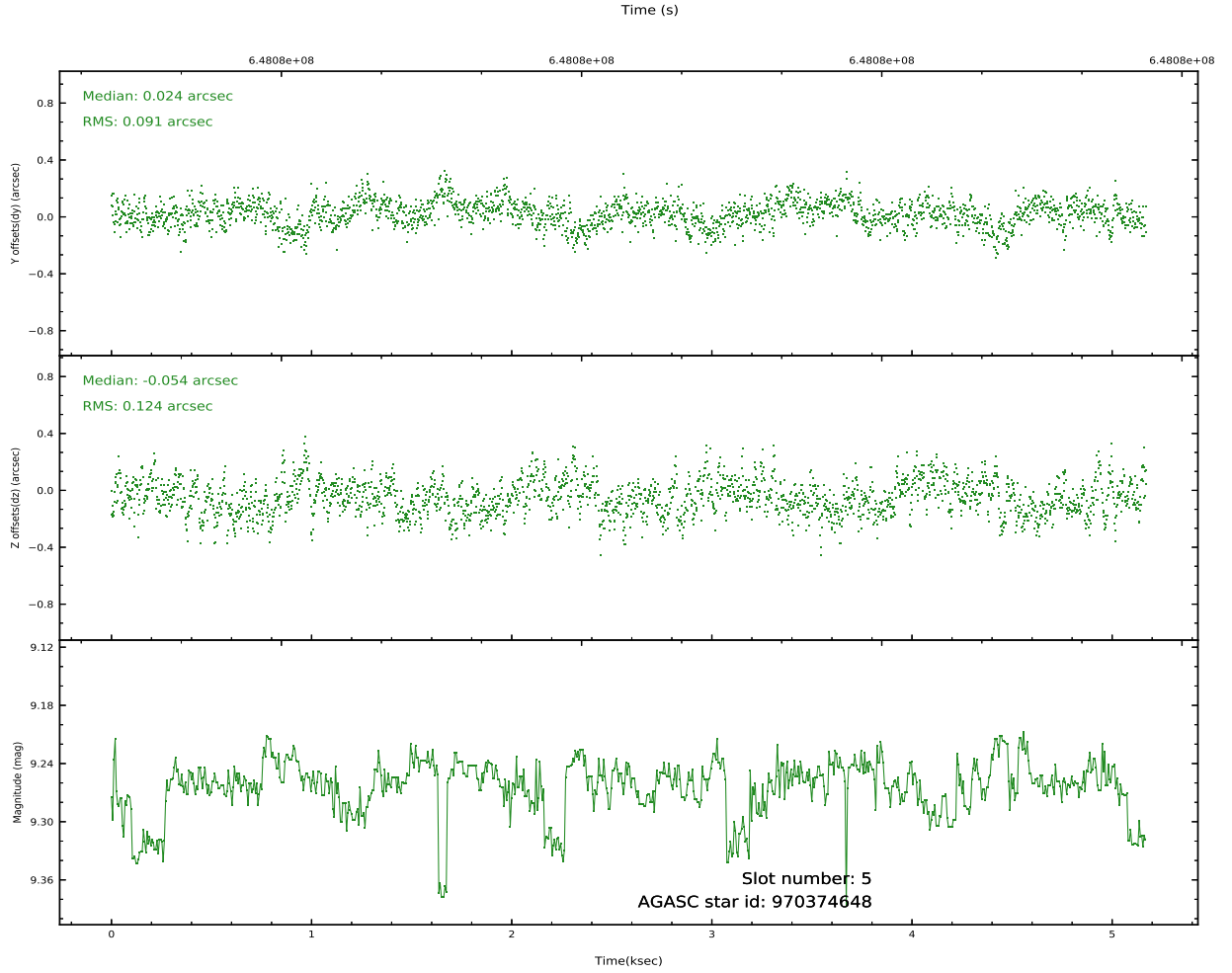
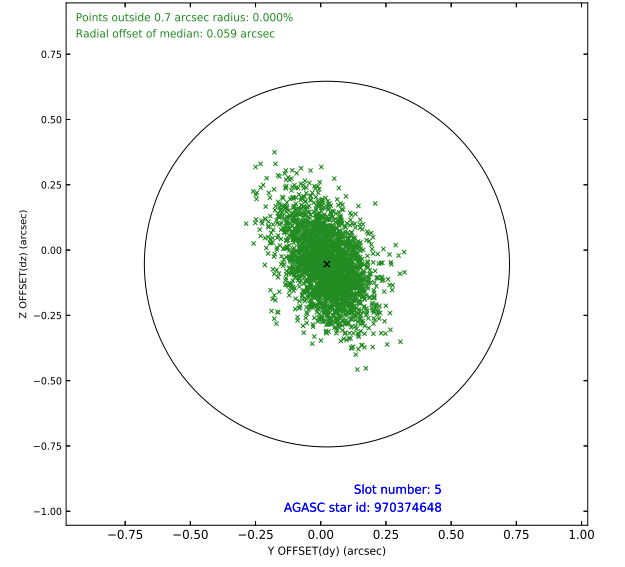
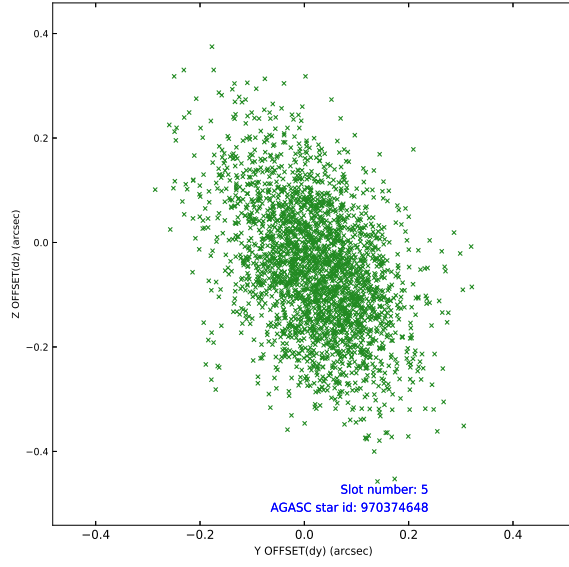
2.4.1 Slot 3



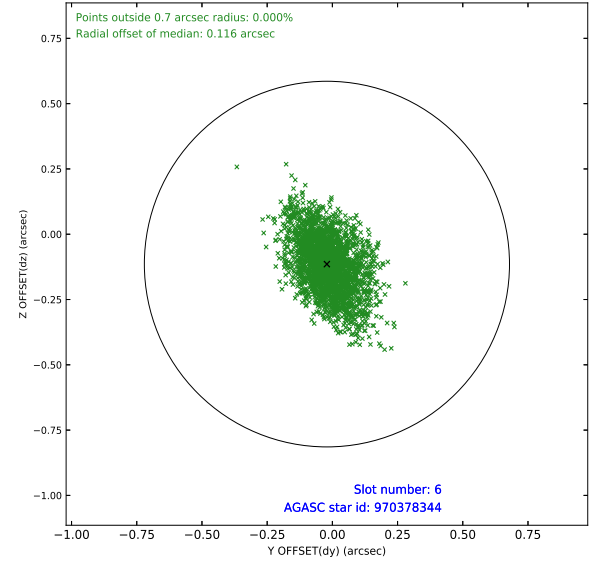
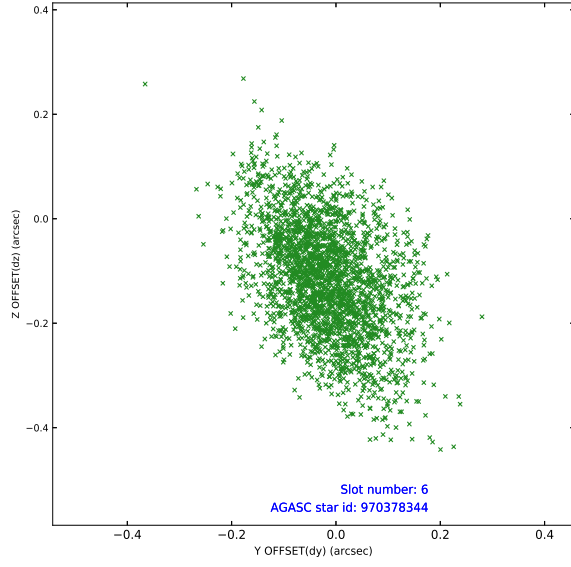
2.4.2 Slot 4



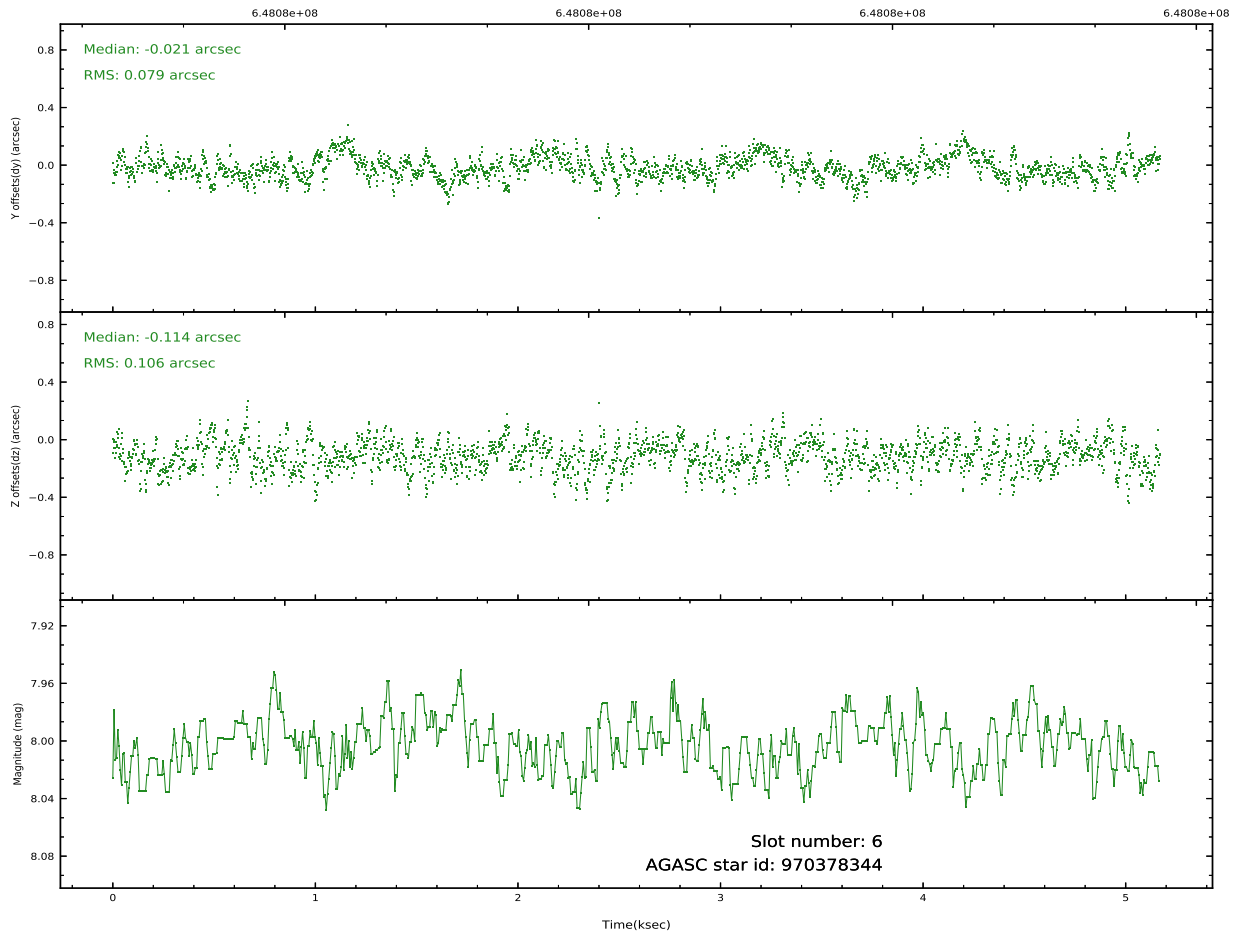
2.4.3 Slot 5



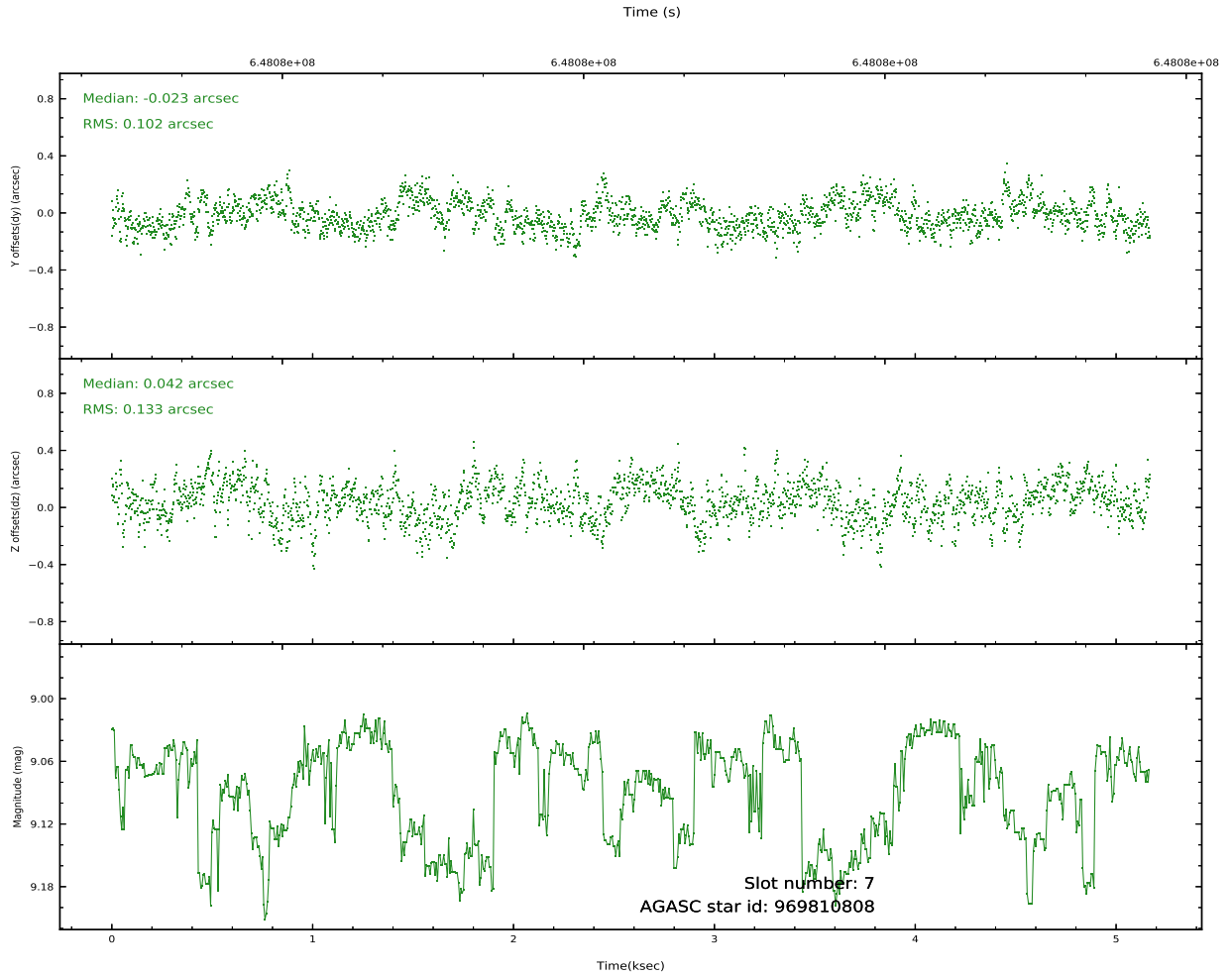
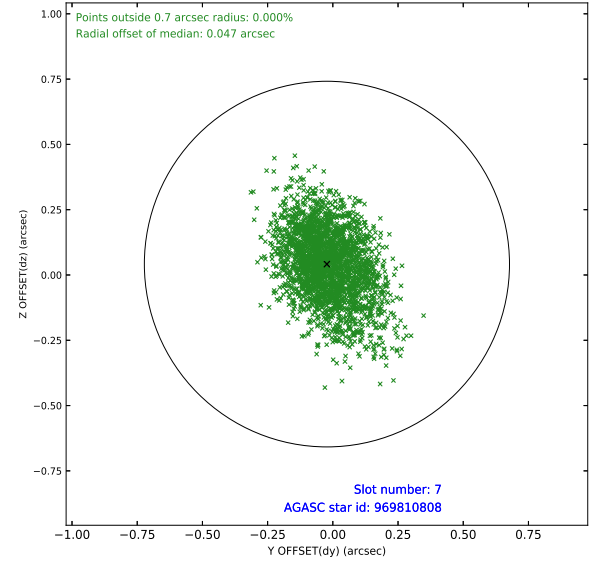
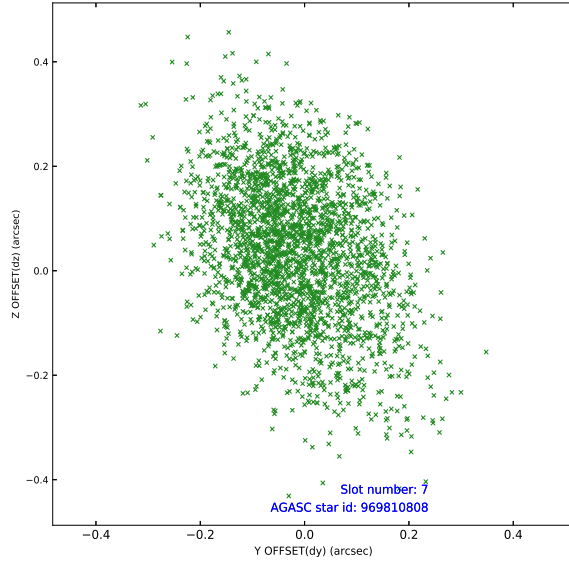
2.4.4 Slot 6



Time (s)

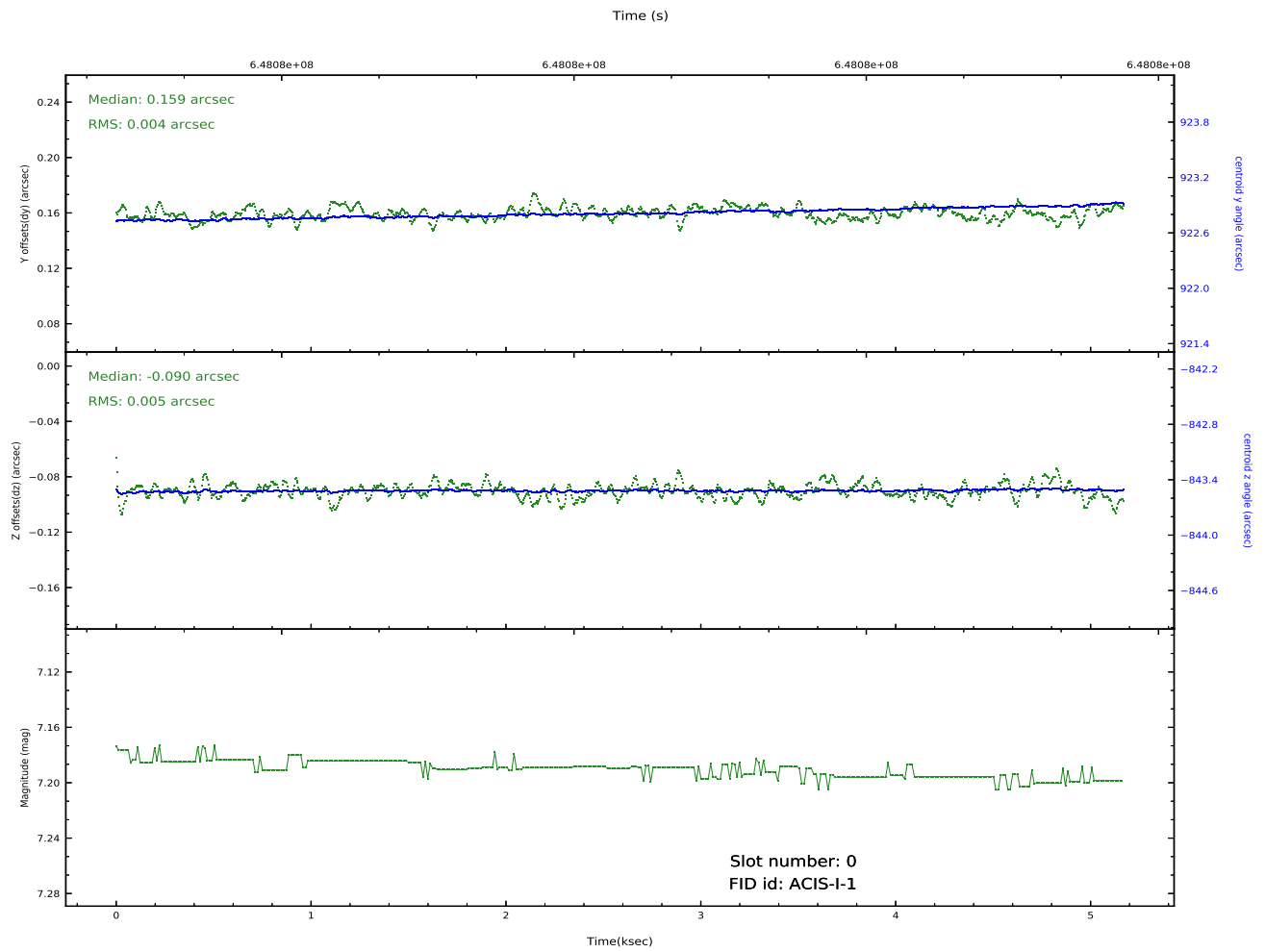
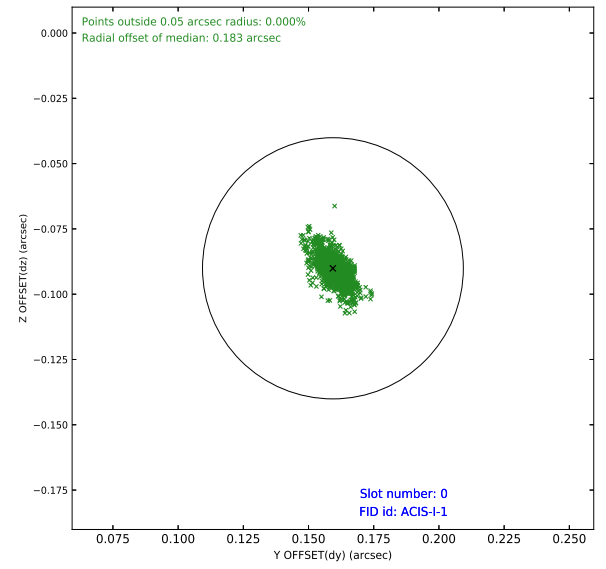
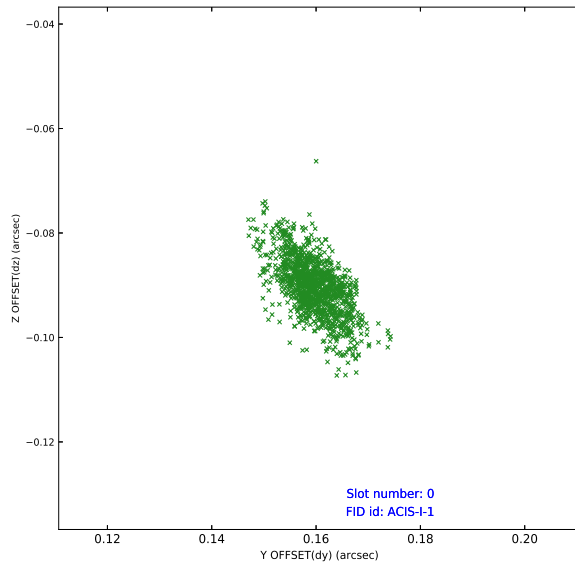


2.4.5 Slot 7

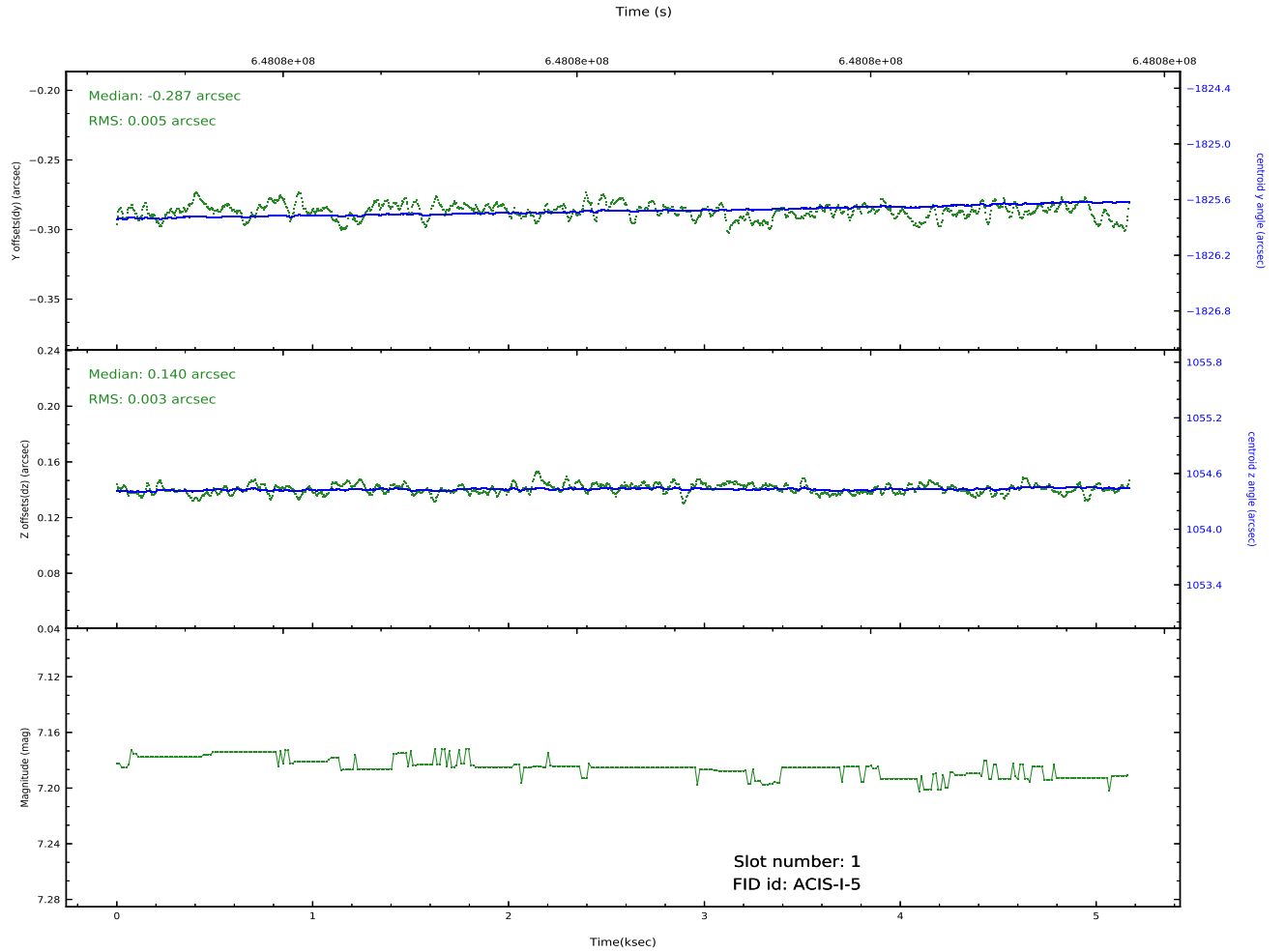
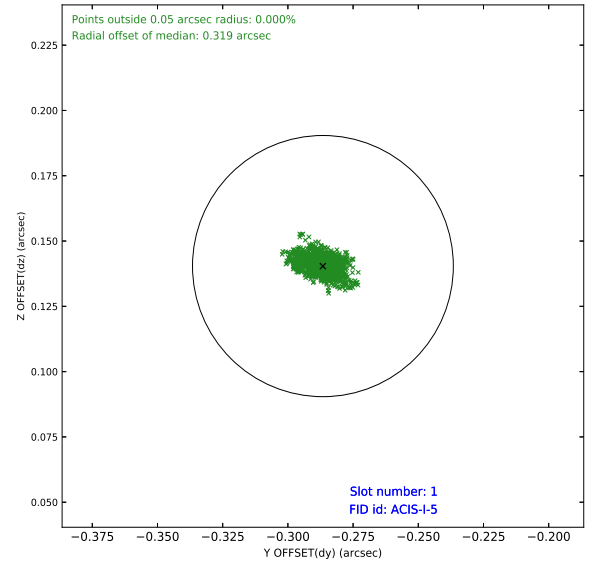
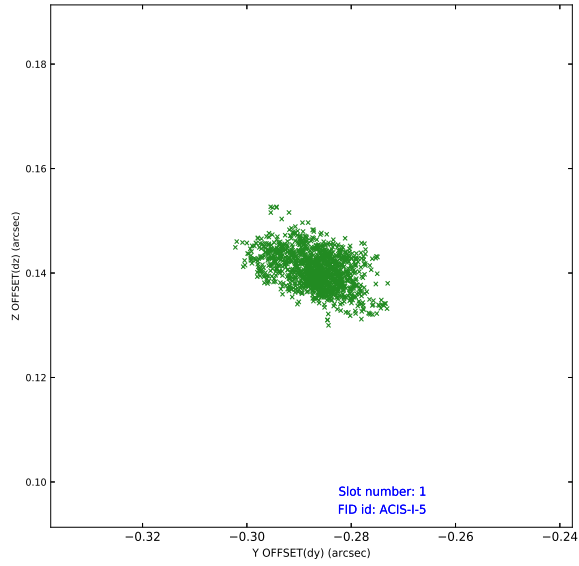


2.5 FID Slots

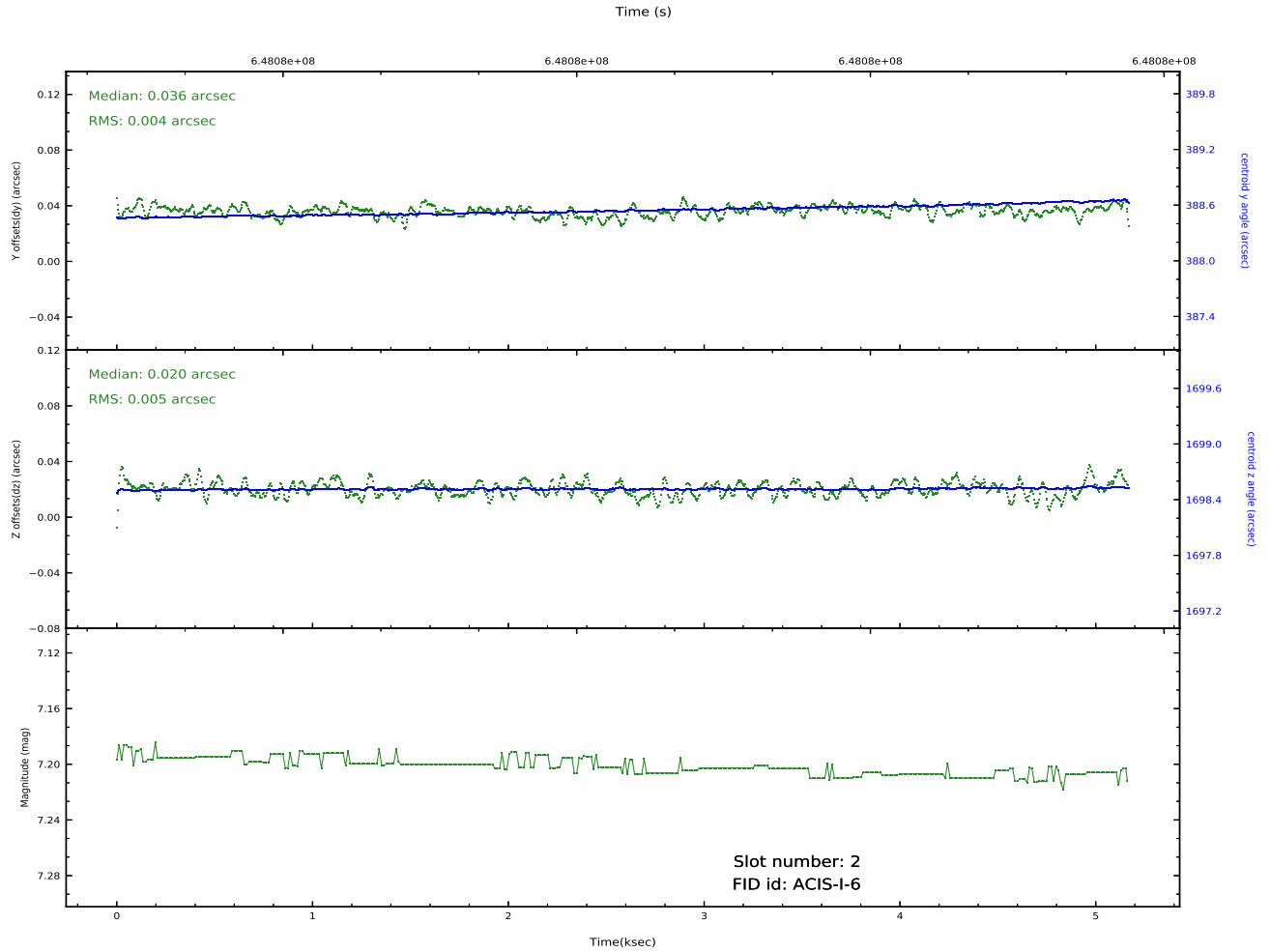
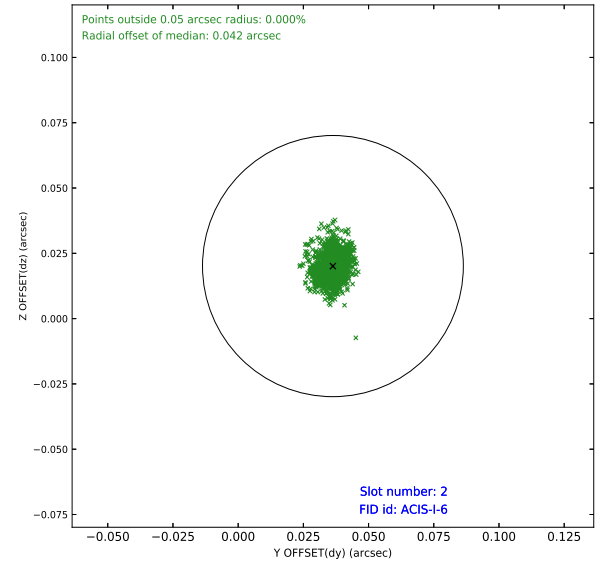
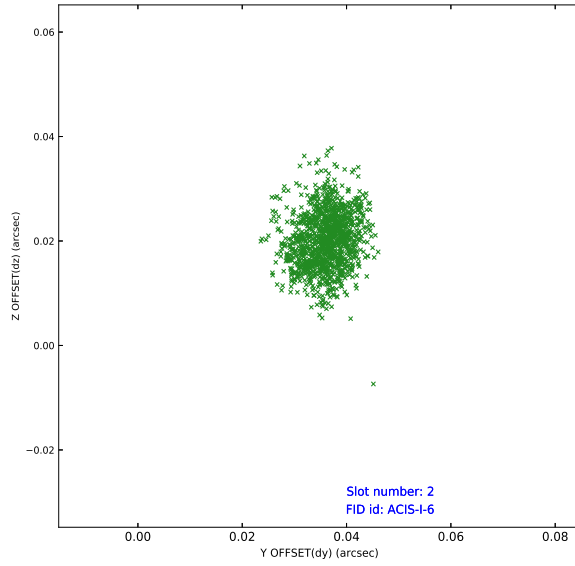
2.5.1 Slot 0



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)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9529092680216

A.2 Comments