

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5533 - L2 Version 4
Chandra X-Ray Center

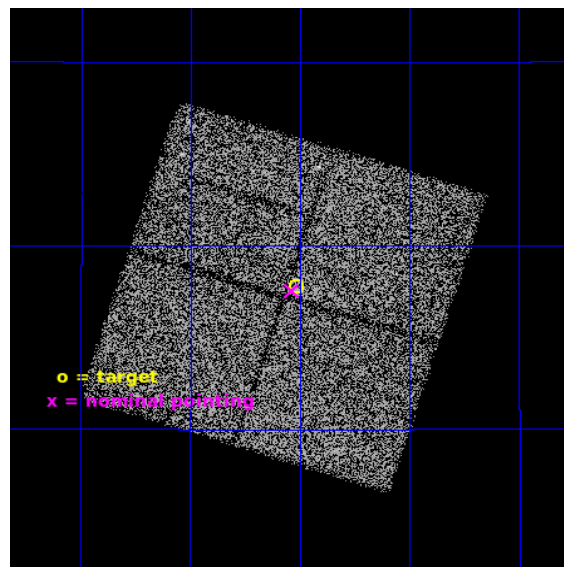
L2 Processing Date : Oct 6 2020

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1 Front

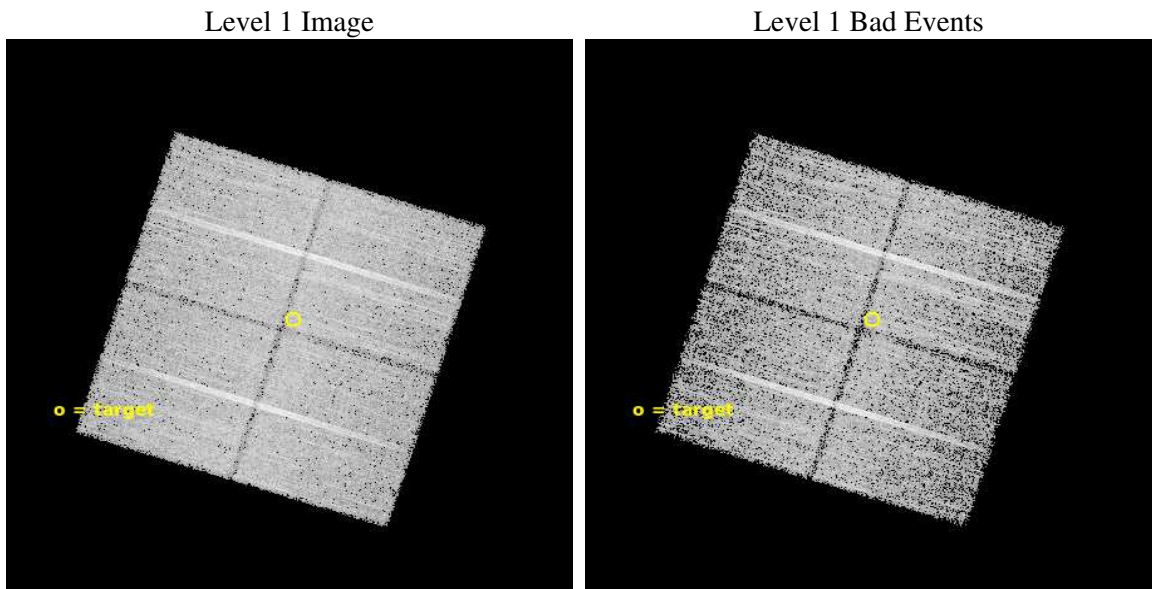
seq_num	500527	Sequence number
obs_id	5533	Observation id
title	A Search for the X-ray counterpart of the Unidentified Gamma-Ray source 3EG J2020+4017	Proposal title
observer	Dr. Martin Weisskopf	Principal investigator
object	3EG J2020+4017	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	305.254167	Observer's specified target RA [deg]
dec_targ	40.296667	Observer's specified target Dec [deg]
ra_nom	305.25901402301	Nominal RA [deg]
dec_nom	40.292506703997	Nominal Dec [deg]
roll_nom	17.63005913825	Nominal Roll [deg]
revision	4	Processing version of data
ontime	14348.983916819	Sum of GTIs [s]
liveltime	14161.503878378	Livetime [s]
ontime0	14348.860796809	Sum of GTIs [s]
ontime1	14345.760846674	Sum of GTIs [s]
ontime2	14348.942876816	Sum of GTIs [s]
ontime3	14348.983916819	Sum of GTIs [s]
l2events	49339	Number of level 2 events



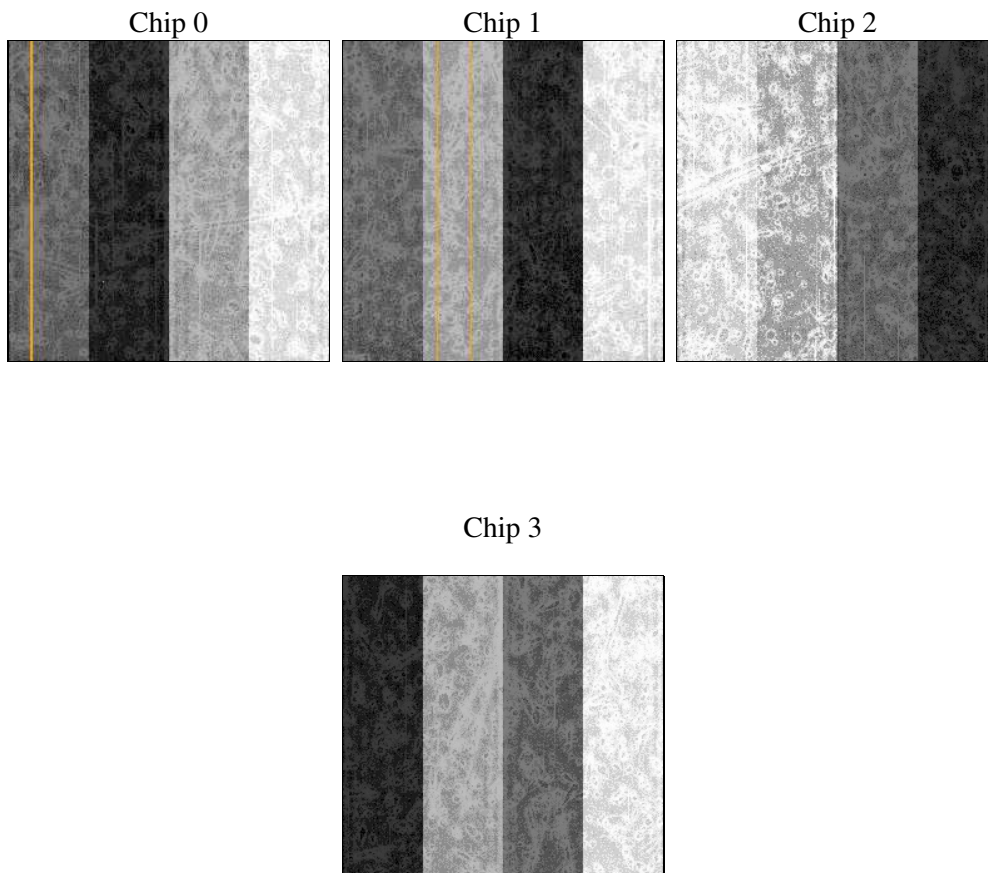
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14278.877000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	14348.983916819	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	14348.860796809	Sum of GTIs [s]
date	2020-10-06T14:58:46	Date and time of file creation	ontime1	14345.760846674	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	14348.942876816	Sum of GTIs [s]
			ontime3	14348.983916819	Sum of GTIs [s]
			l1events	407703	Number of level 1 events

2.1.4 Events

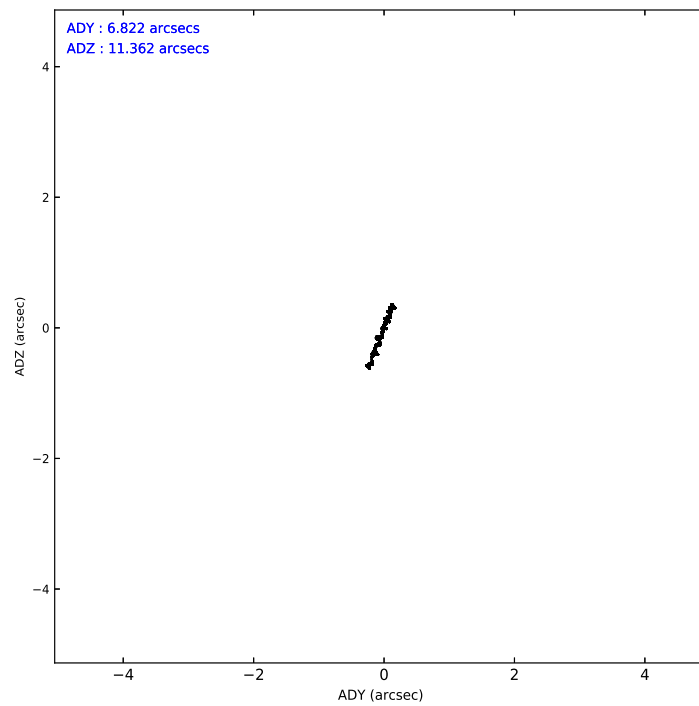
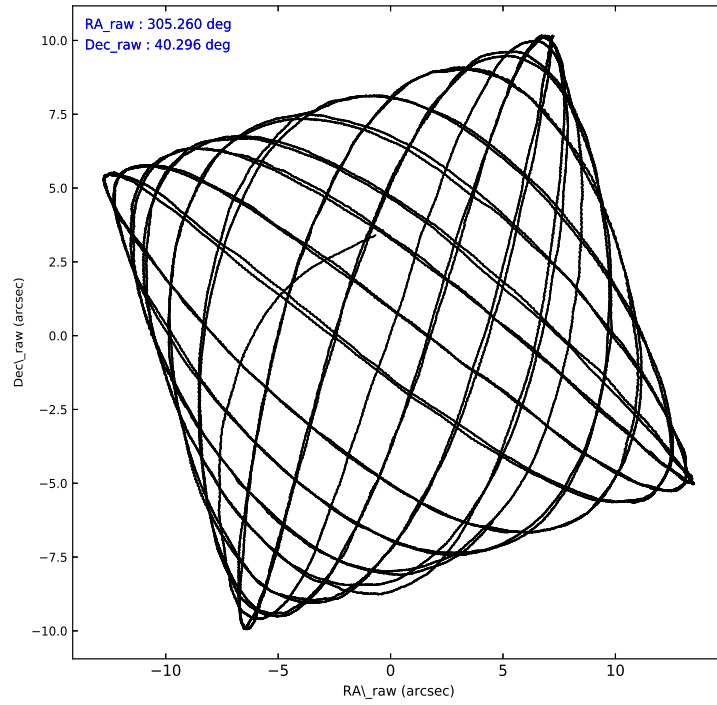
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	98130	97956	105756	105861
rejected events	83371	82834	91456	92709
rejected %	84%	84%	86%	87%

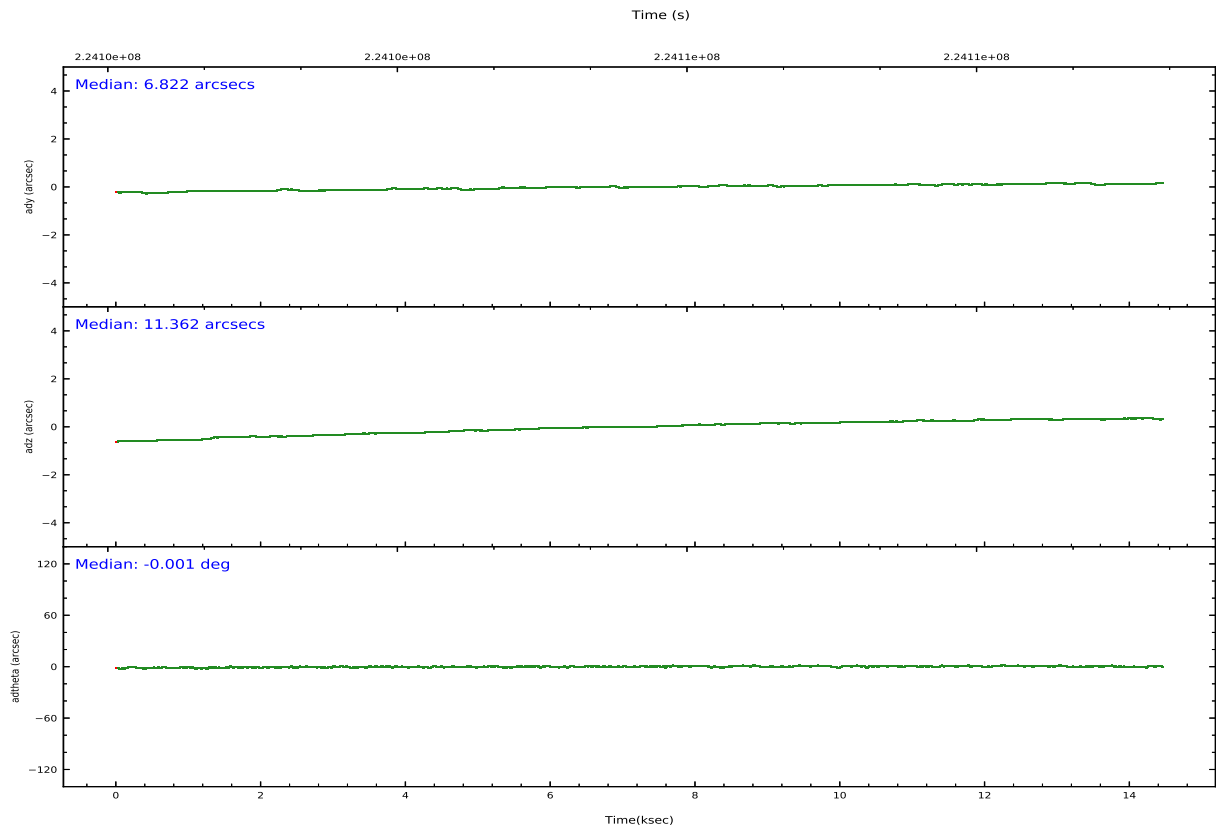
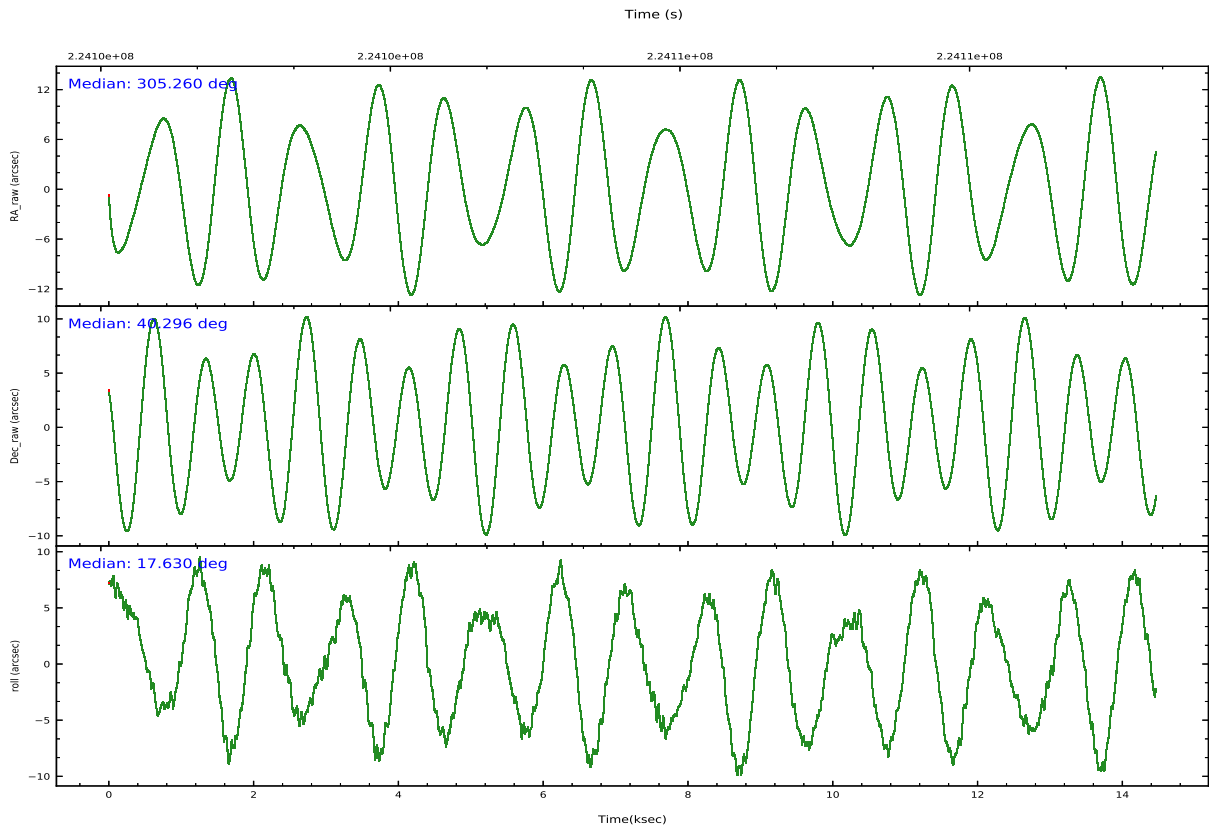
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	7040	6709	7056	6005
	7%	6%	6%	5%
grade 1 events	77	57	74	66
	0%	0%	0%	0%
grade 2 events	2896	3052	2669	2493
	2%	3%	2%	2%
grade 3 events	1389	1356	1196	1257
	1%	1%	1%	1%
grade 4 events	1209	1396	1258	1181
	1%	1%	1%	1%
grade 5 events	4364	4621	4112	4768
	4%	4%	3%	4%
grade 6 events	2230	2615	2122	2229
	2%	2%	2%	2%
grade 7 events	78925	78150	87269	87862
	80%	79%	82%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	305.236144	305.25901402301	Subarray requested	NONE	NONE
[deg] Pointing Dec	40.275929	40.292506703997	Alternating exposures requested	N	N
[deg] Pointing Roll	17.439640	17.63005913825	[s] Primary exposure time	0.000000	3.1
[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)	224100298.184000	224099417.43029			
Observation start date	2005-02-06T18:03:54	2005-02-06T17:50:17			
[s] Observation end time (MET)	224114577.184000	224114818.56848			
Observation end date	2005-02-06T22:01:53	2005-02-06T22:06:58			
Read mode	TIMED	TIMED			

2.3 Aspect





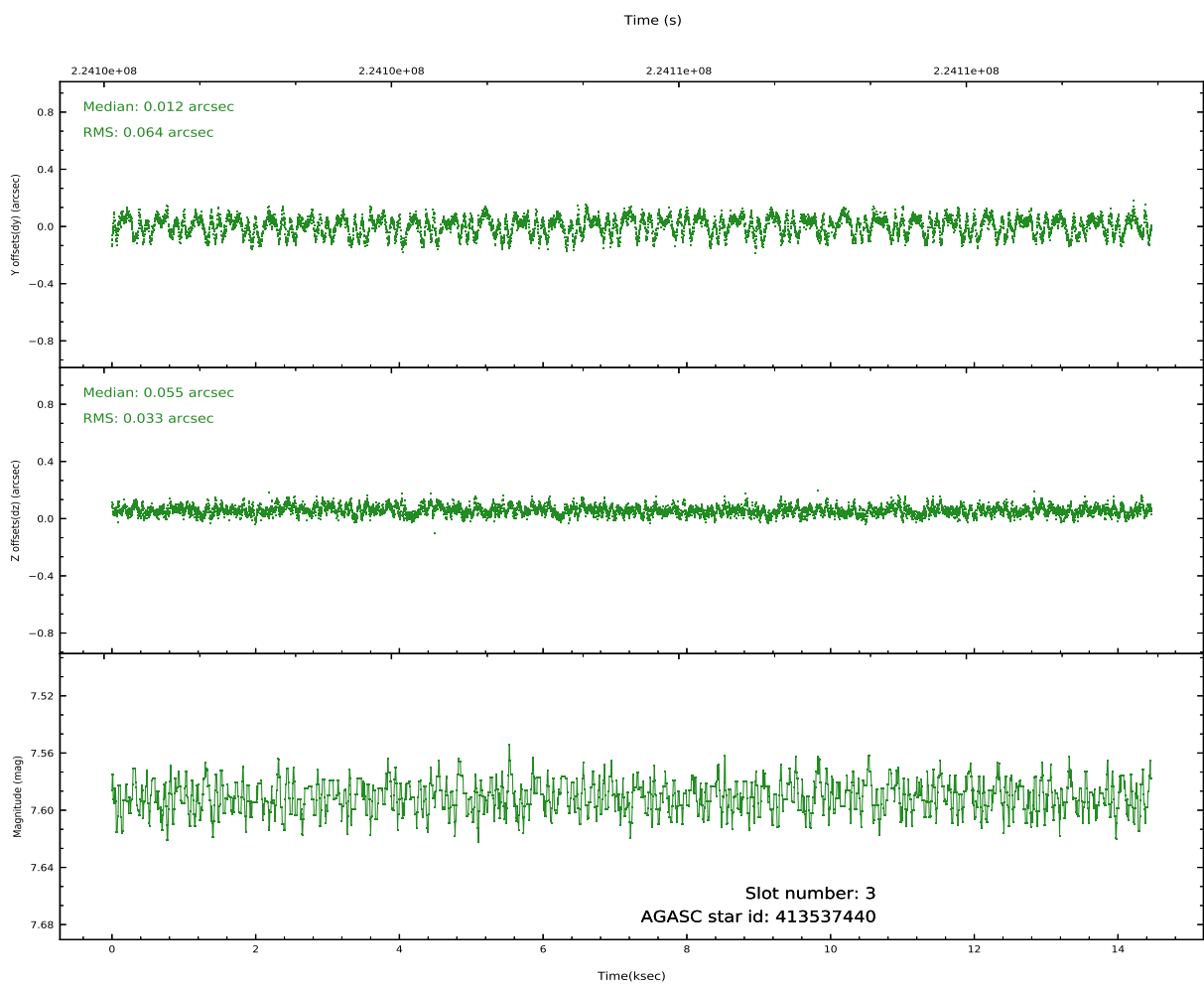
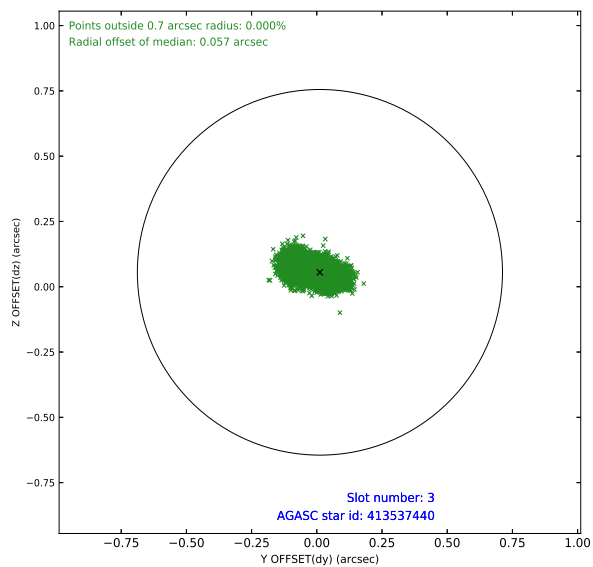
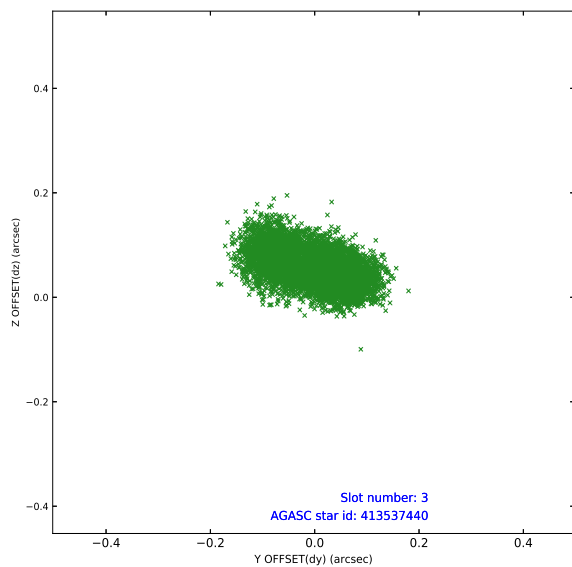
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.24	3529	1.000	0.050	-0.045	0.009	0.014	0.000000	0.000000	932.92	-834
1	FID		ACIS-I-5	7.23	3529	1.000	-0.207	0.049	0.009	0.015	0.000000	0.000000	-1815.25	1062
2	FID		ACIS-I-6	7.25	3529	1.000	0.065	0.067	0.012	0.018	0.000000	0.000000	398.16	1707
3	GUIDE	used	413537440	7.59	7057	1.000	0.012	0.055	0.076	0.130	304.302199	40.591389	-2091.23	1861
4	GUIDE	used	413665176	8.94	7055	1.000	0.117	-0.074	0.081	0.130	306.182911	40.093346	2295.01	-1394
5	GUIDE	used	413676032	8.19	7057	1.000	-0.059	0.018	0.057	0.094	305.794948	40.874960	2099.47	1606
6	GUIDE	used	413680112	8.82	7056	1.000	0.091	0.053	0.072	0.115	306.015834	40.339755	2113.55	-412
7	GUIDE	used	413549024	7.95	7053	1.000	-0.152	-0.052	0.059	0.092	304.639472	39.606765	-2298.66	-1797

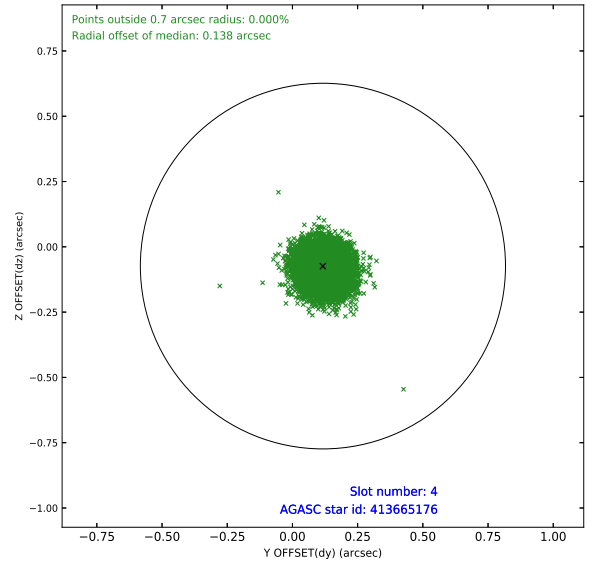
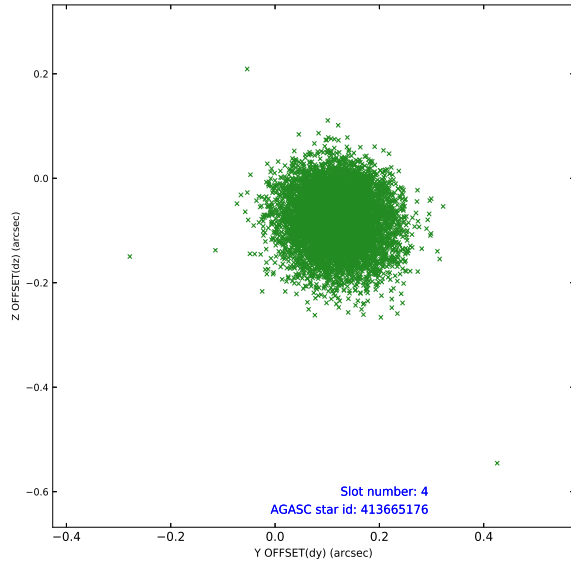
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2.4 Star Slots

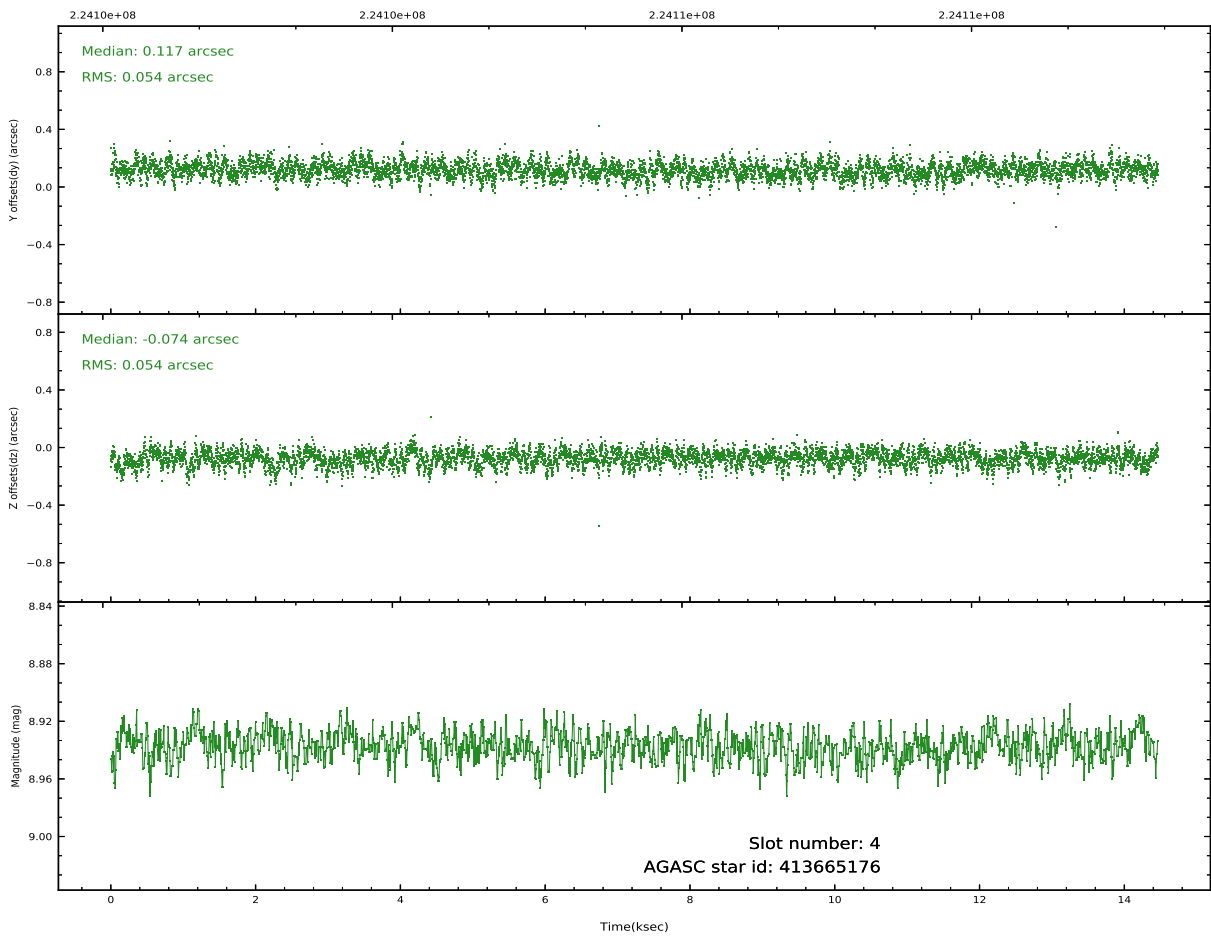
2.4.1 Slot 3



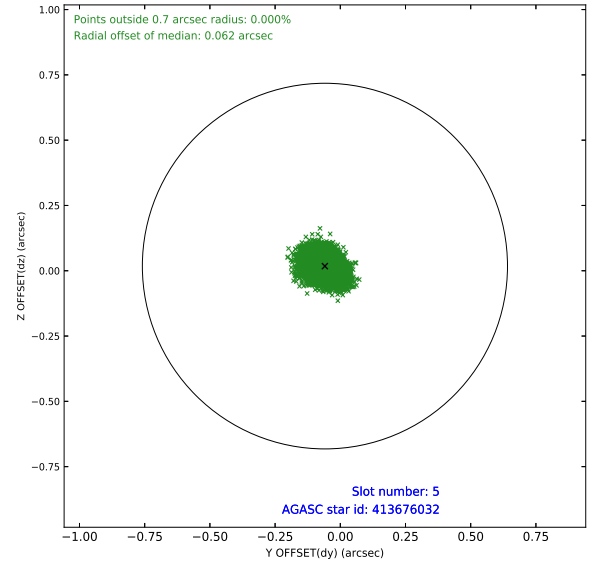
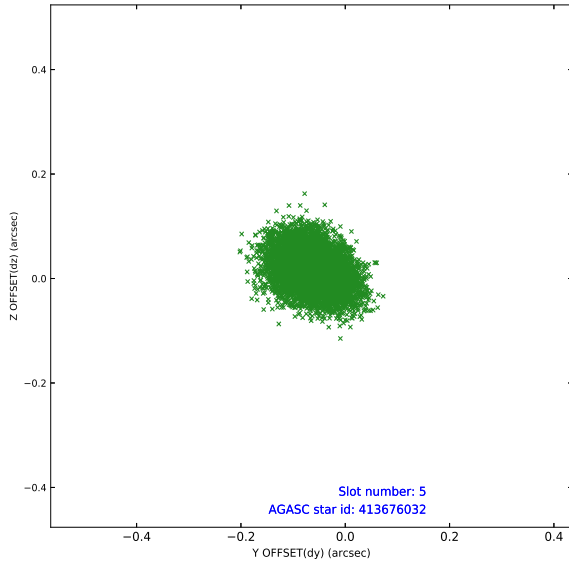
2.4.2 Slot 4



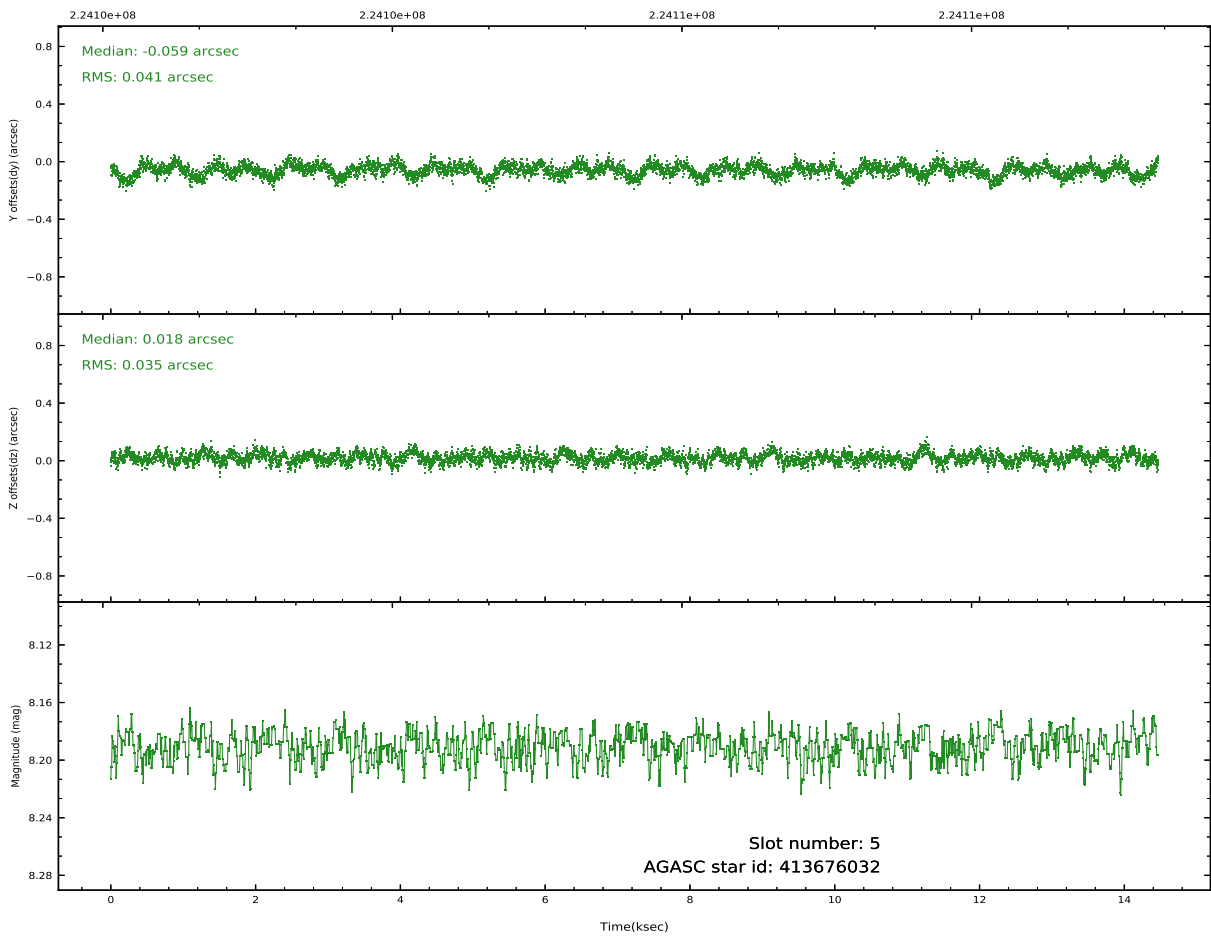
Time (s)



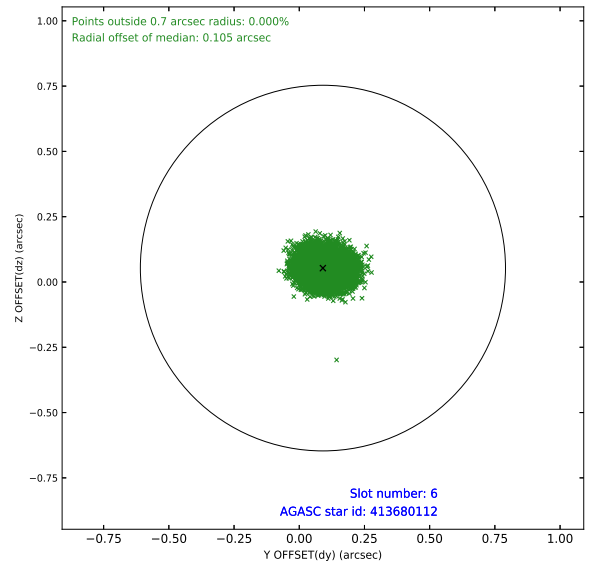
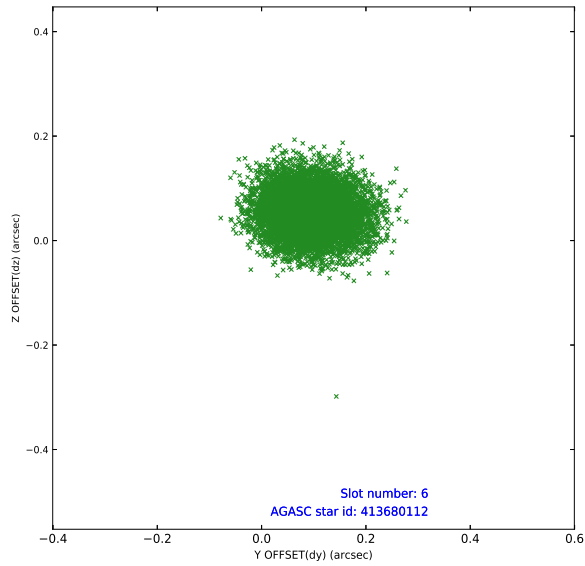
2.4.3 Slot 5



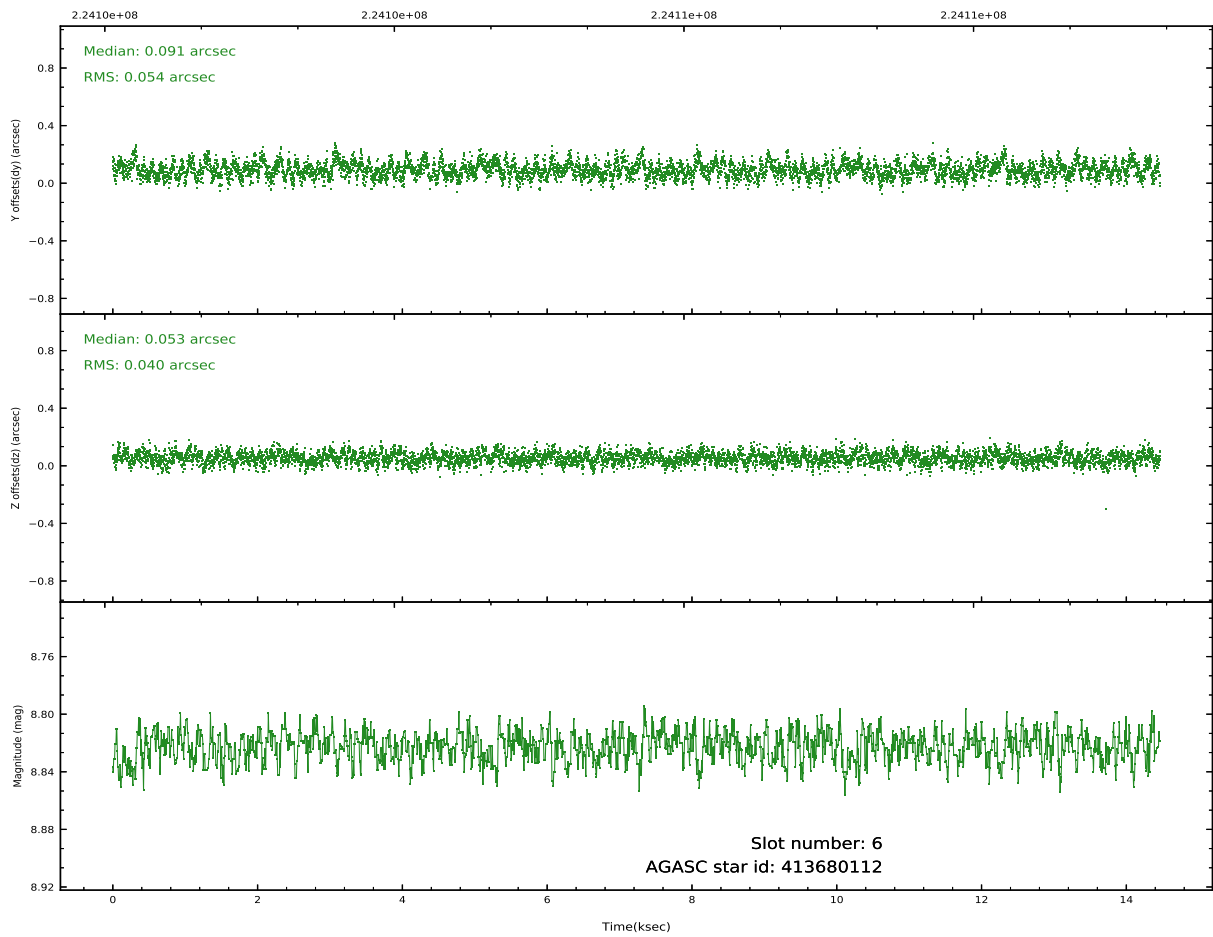
Time (s)



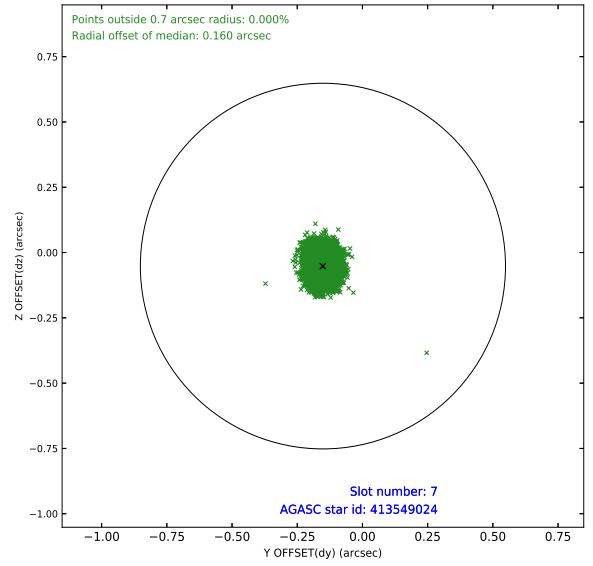
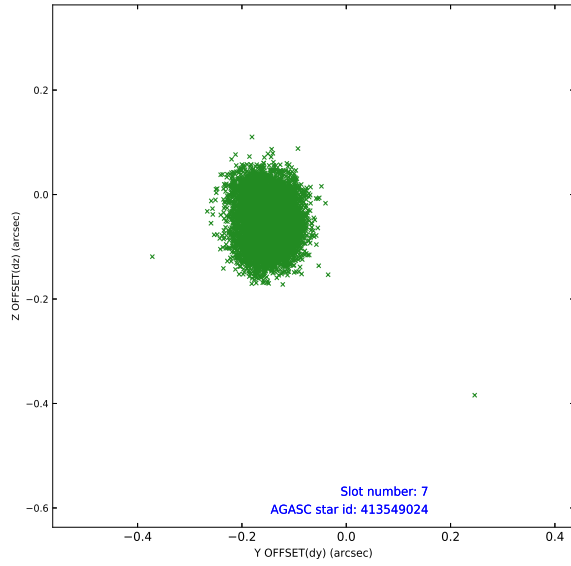
2.4.4 Slot 6



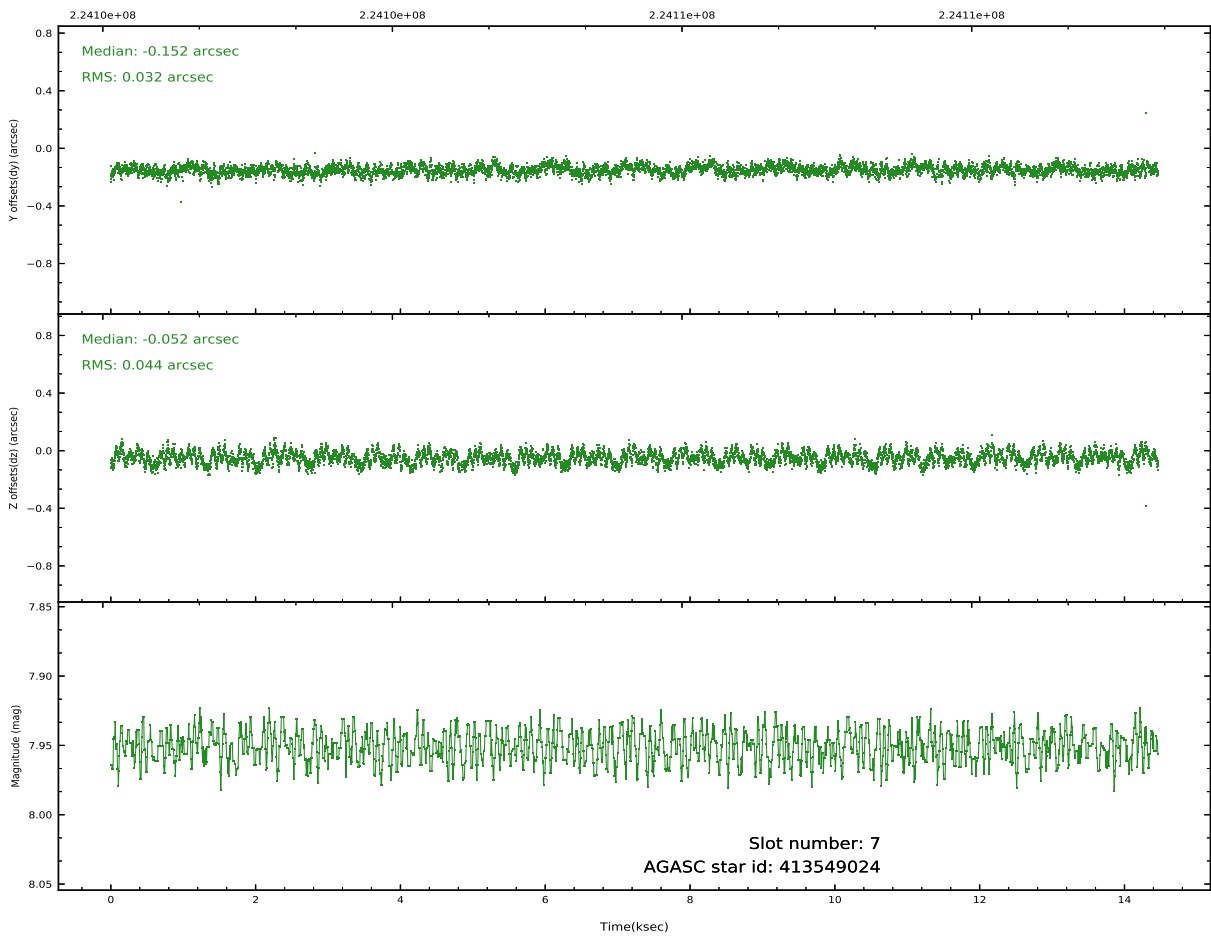
Time (s)



2.4.5 Slot 7

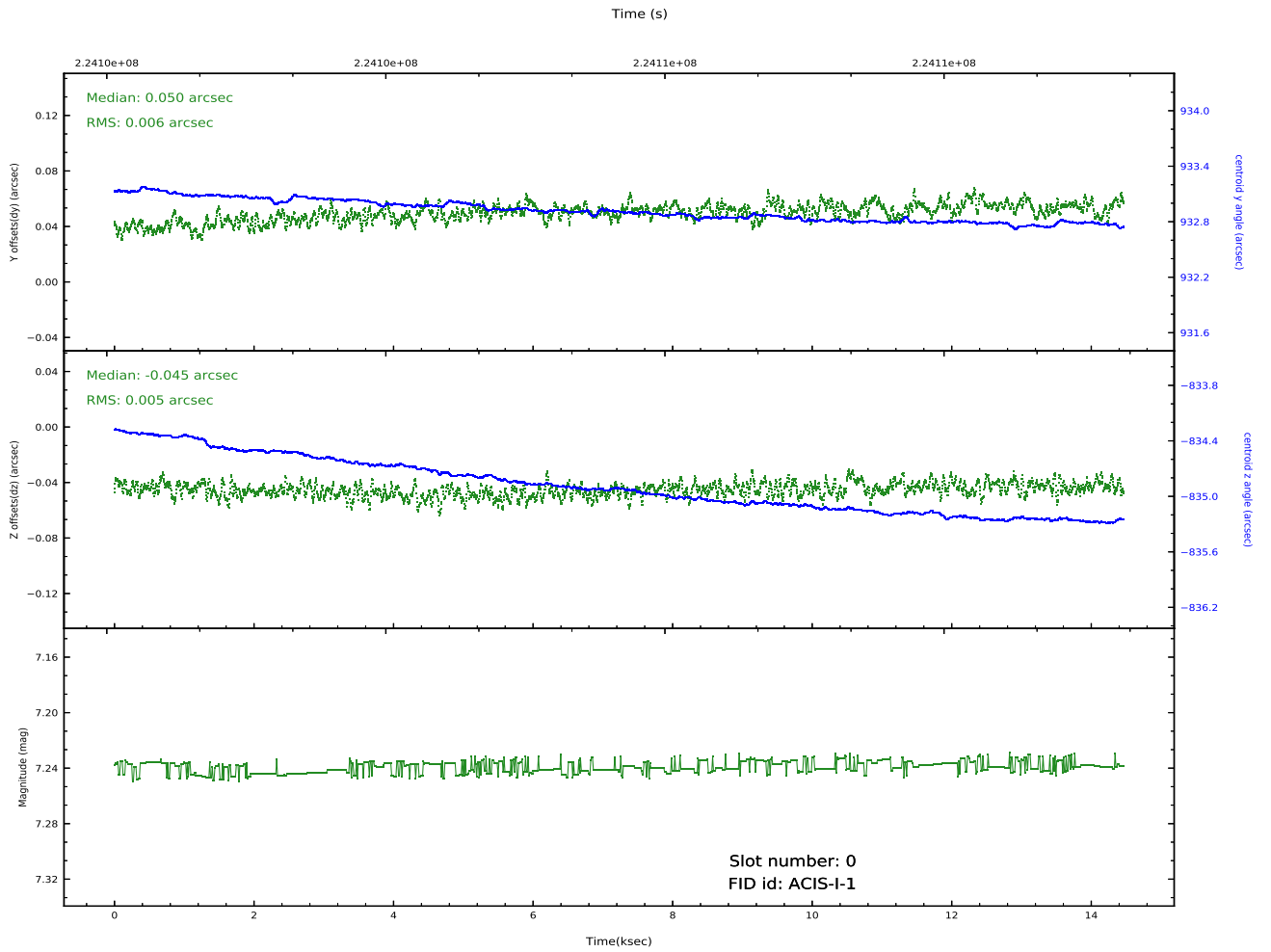
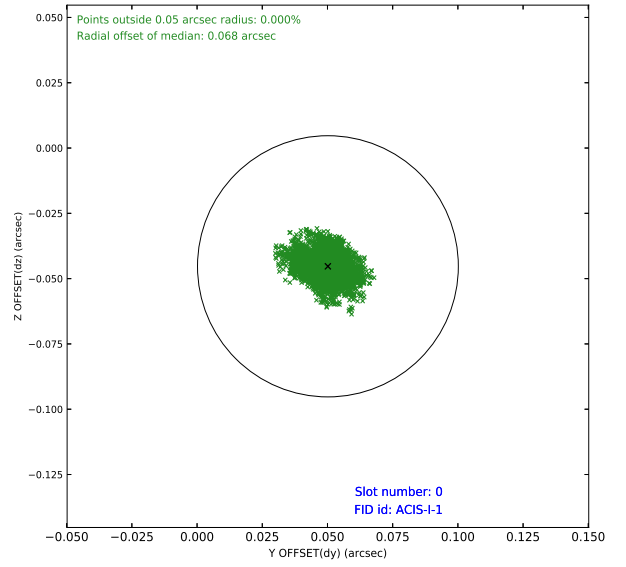
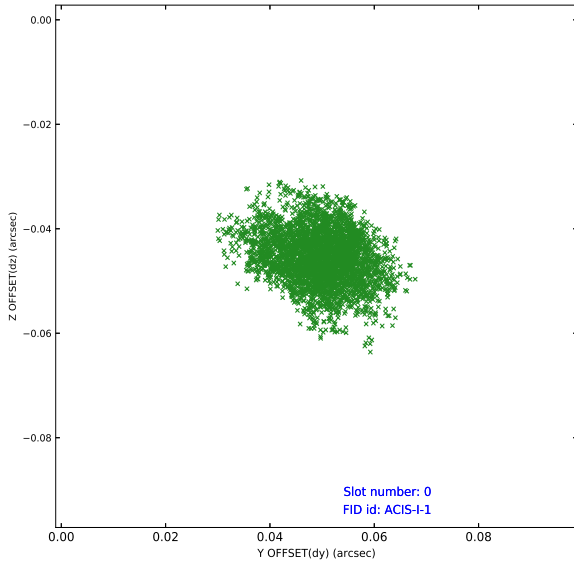


Time (s)

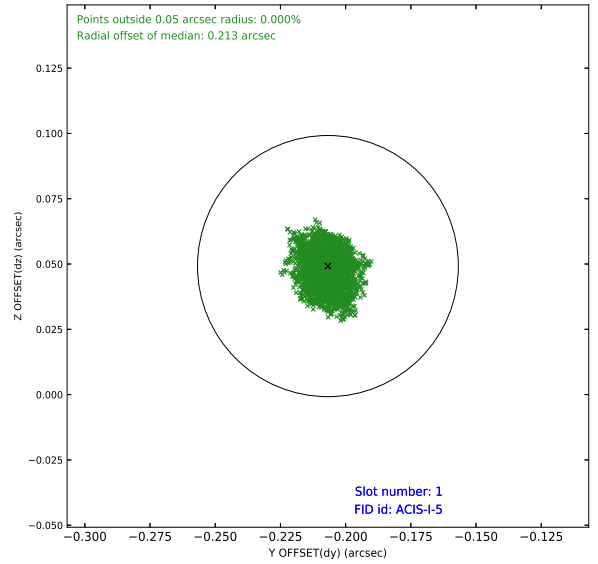
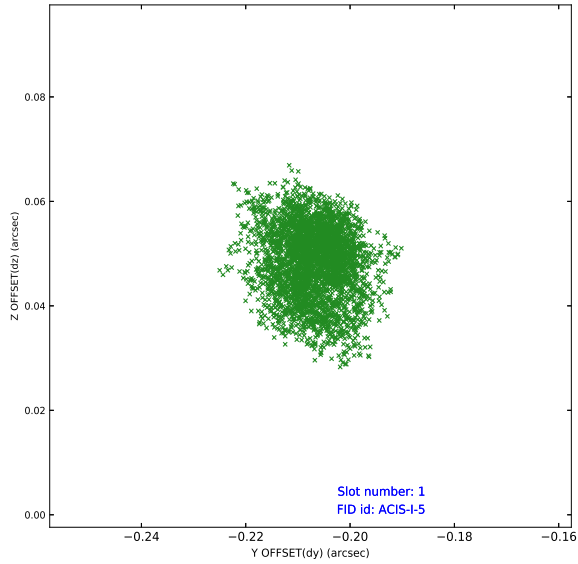


2.5 FID Slots

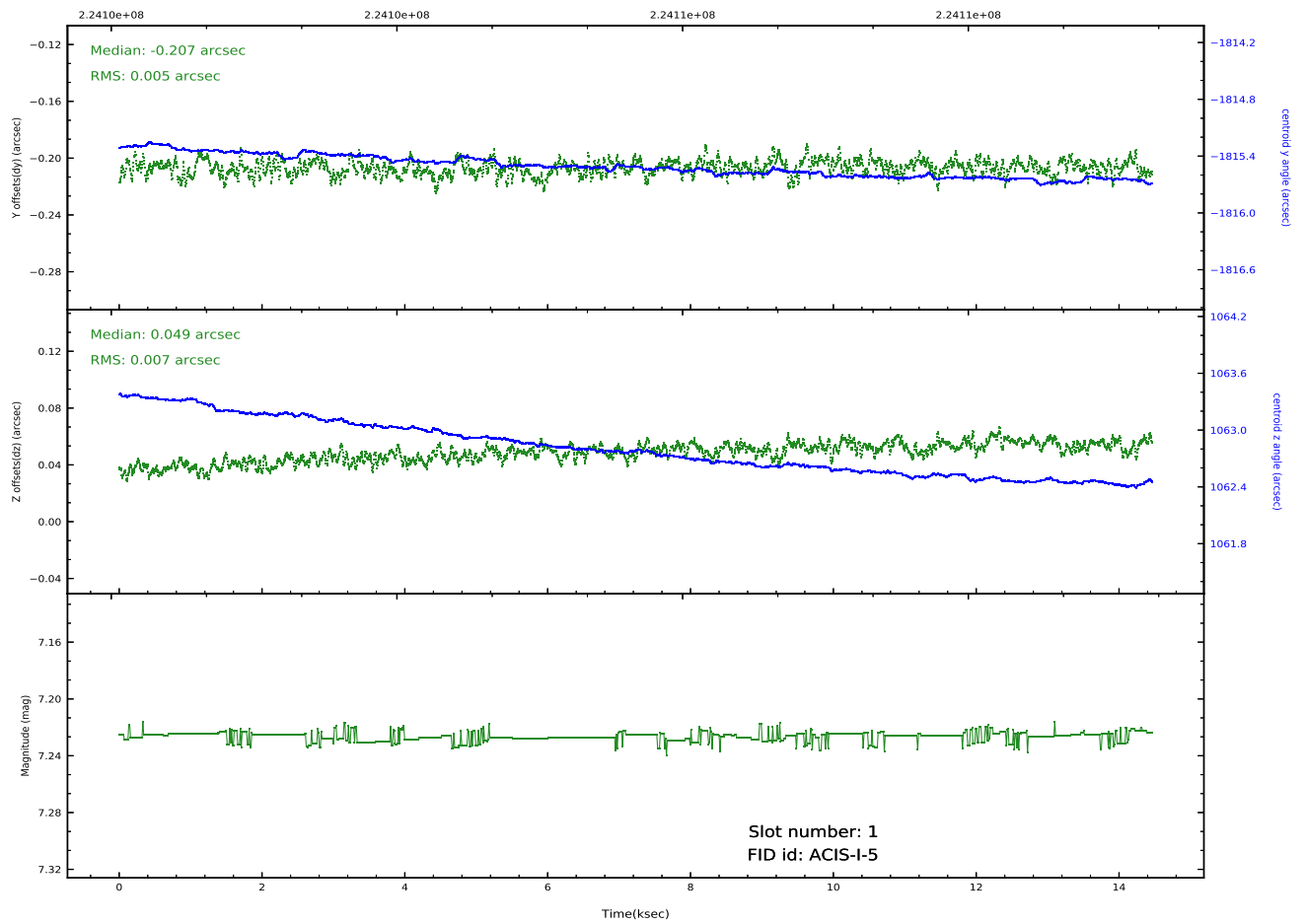
2.5.1 Slot 0



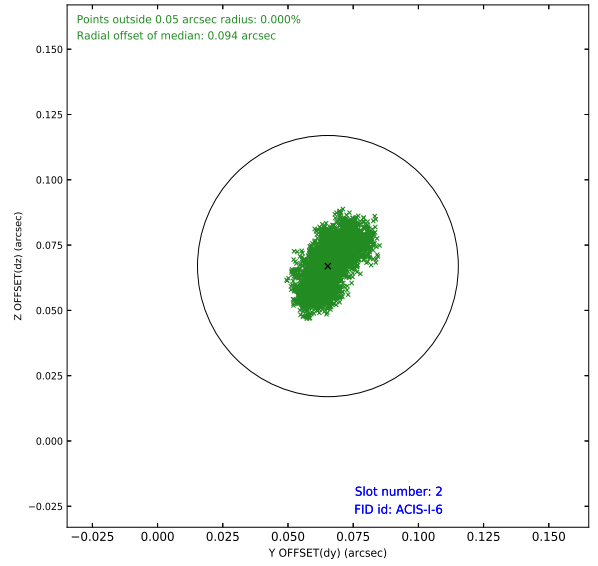
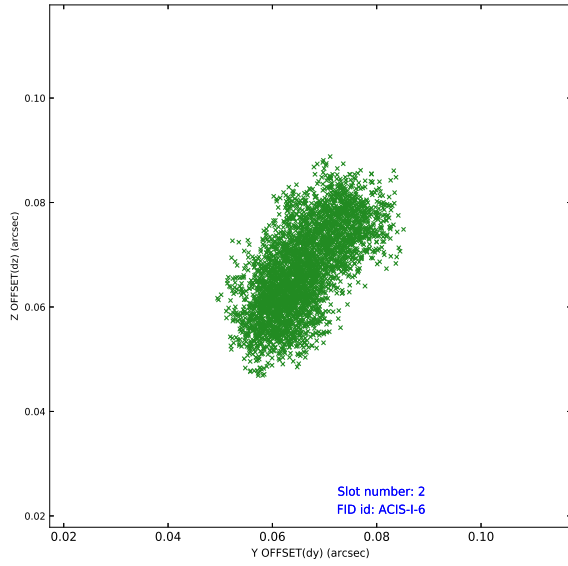
2.5.2 Slot 1



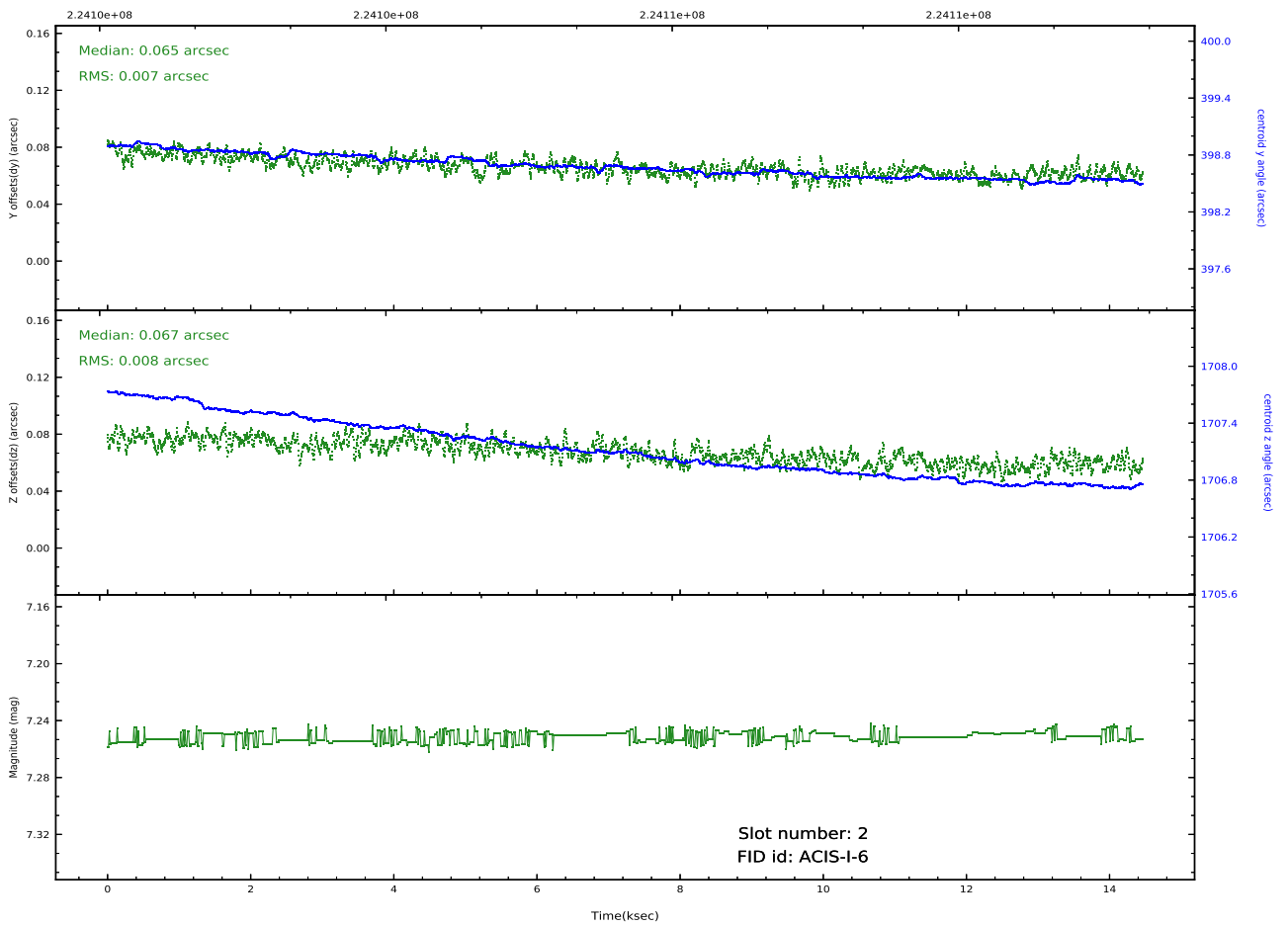
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.34989

A.2 Comments