

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20367 - L2 Version 2
Chandra X-Ray Center

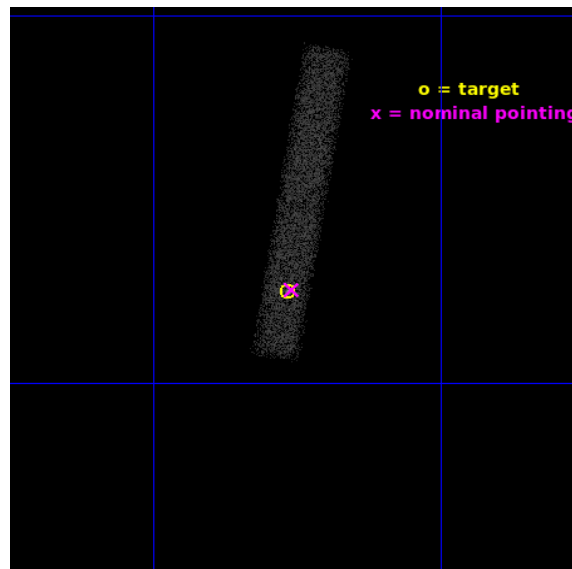
L2 Processing Date : Oct 24 2020

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1 Front

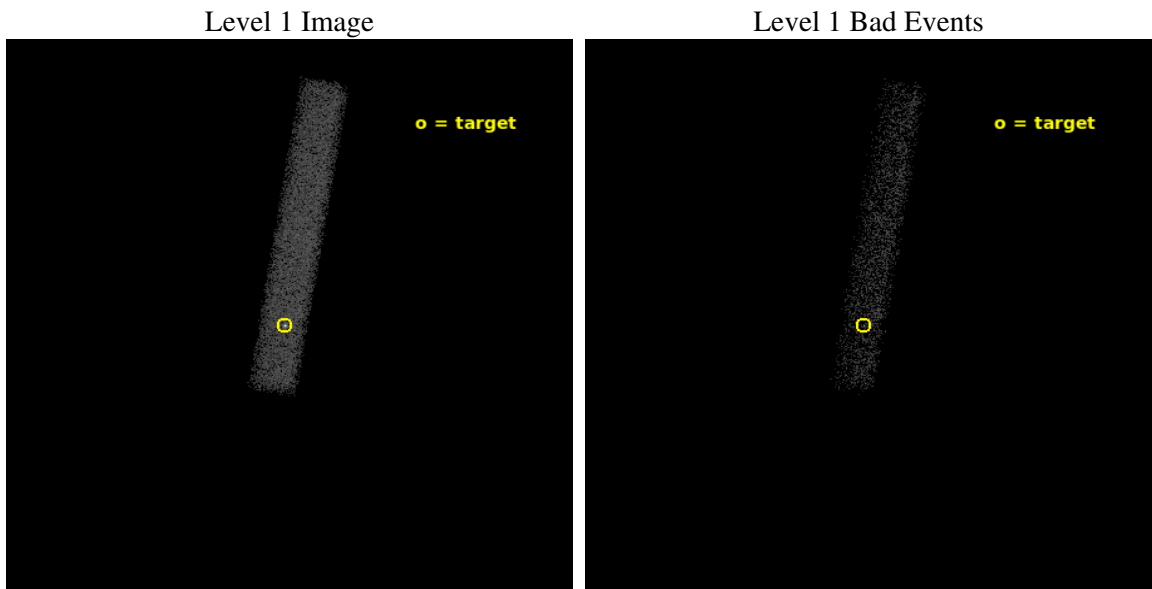
seq_num	703472	Sequence number
obs_id	20367	Observation id
title	Catching a Changing Look Quasar as it undergoes significant changes in accretion rate	Proposal title
observer	Mirko Krumpe	Principal investigator
object	Mrk1018	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	31.566667	Observer's specified target RA [deg]
dec_targ	-0.291389	Observer's specified target Dec [deg]
ra_nom	31.564770600396	Nominal RA [deg]
dec_nom	-0.29076755254263	Nominal Dec [deg]
roll_nom	279.33996139426	Nominal Roll [deg]
revision	2	Processing version of data
ontime	19069.150843978	Sum of GTIs [s]
livetime	17294.713263176	Livetime [s]
ontime7	19069.150843978	Sum of GTIs [s]
l2events	14487	Number of level 2 events



2 OBI

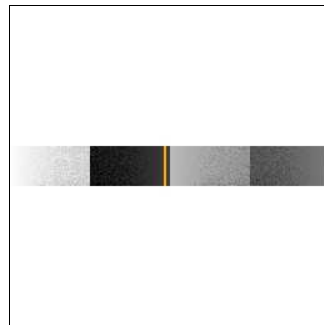
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	19069.150843978	Sum of GTIs [s]
caldbver	4.9.3	 	ontime7	19069.150843978	Sum of GTIs [s]
date	2020-10-25T00:44:21	Date and time of file creation	l1events	27436	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

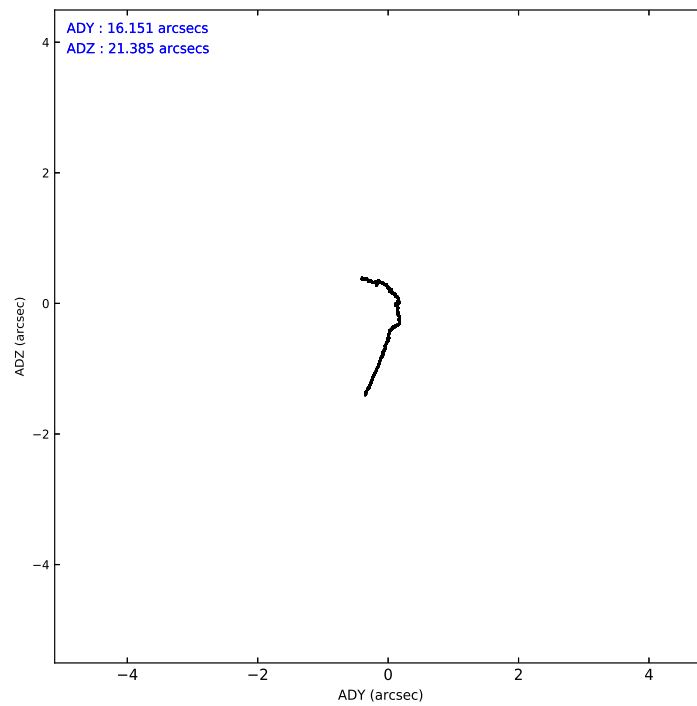
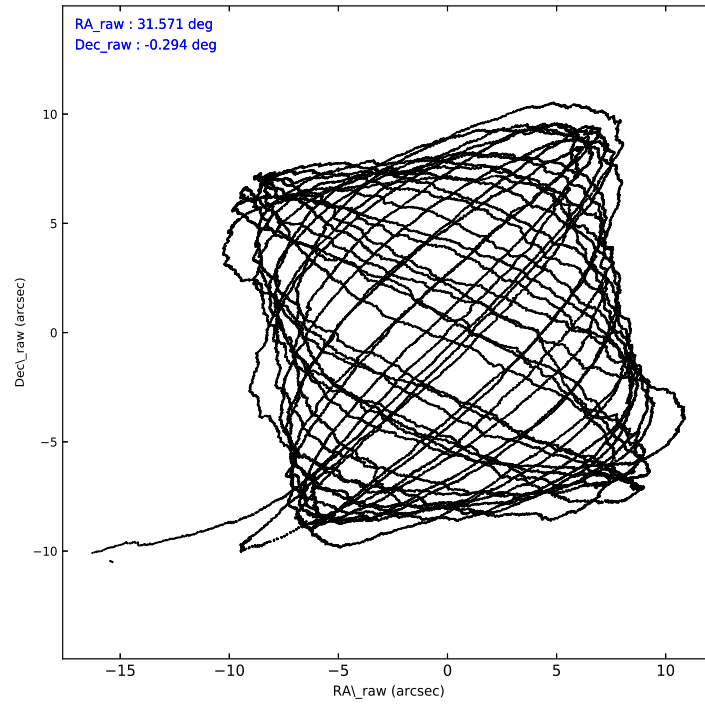
	ccd 7
level 1 events	27436
rejected events	12443
rejected %	45%

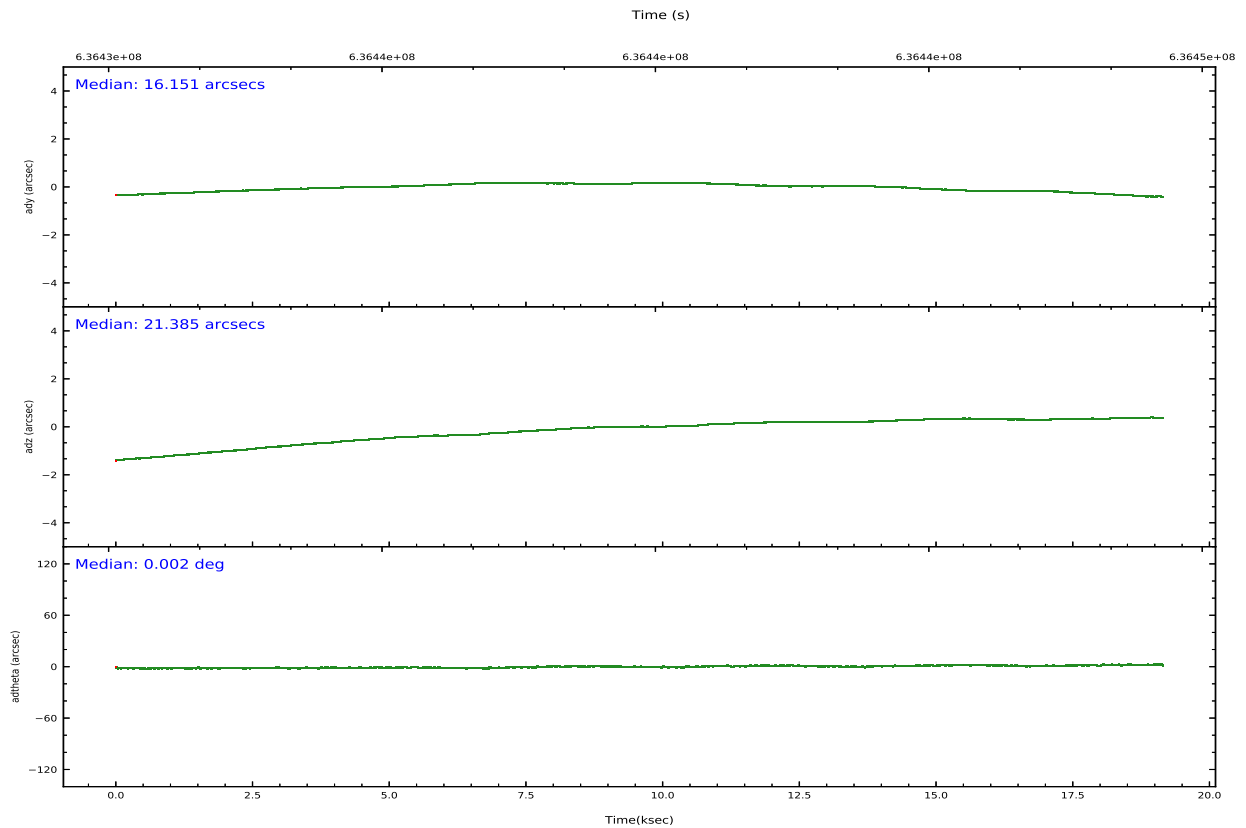
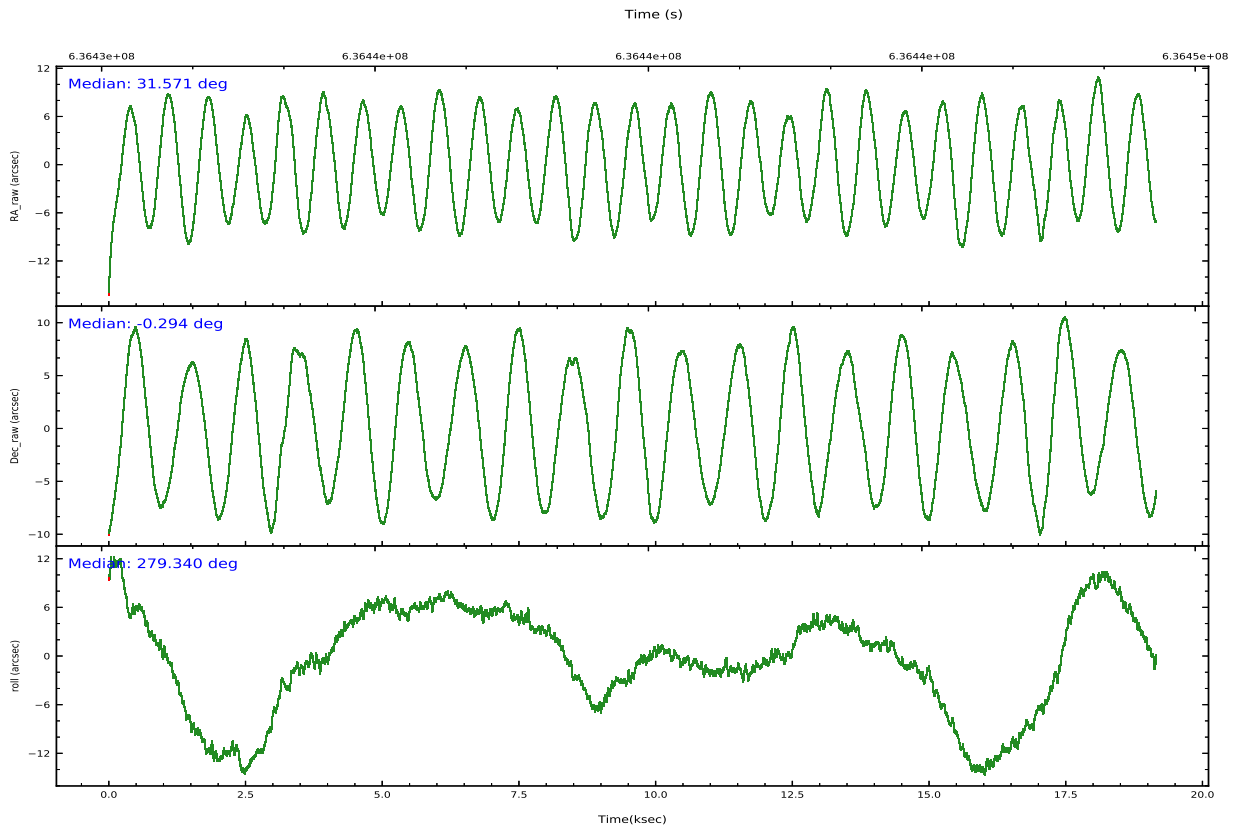
	ccd 7
grade 0 events	1999
	7%
grade 1 events	46
	0%
grade 2 events	3160
	11%
grade 3 events	1851
	6%
grade 4 events	1712
	6%
grade 5 events	2536
	9%
grade 6 events	6272
	22%
grade 7 events	9860
	35%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	31.553852	31.564770600396	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-0.273386	-0.29076755254263	Subarray start row	449	449
[deg] Pointing Roll	279.192360	279.33996139426	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	636430284.184000	636429030.70025			
Observation start date	2018-03-03T02:10:15	2018-03-03T01:50:30			
[s] Observation end time (MET)	636449284.184000	636450333.789			
Observation end date	2018-03-03T07:26:55	2018-03-03T07:45:33			
Read mode	TIMED	TIMED			

2.3 Aspect



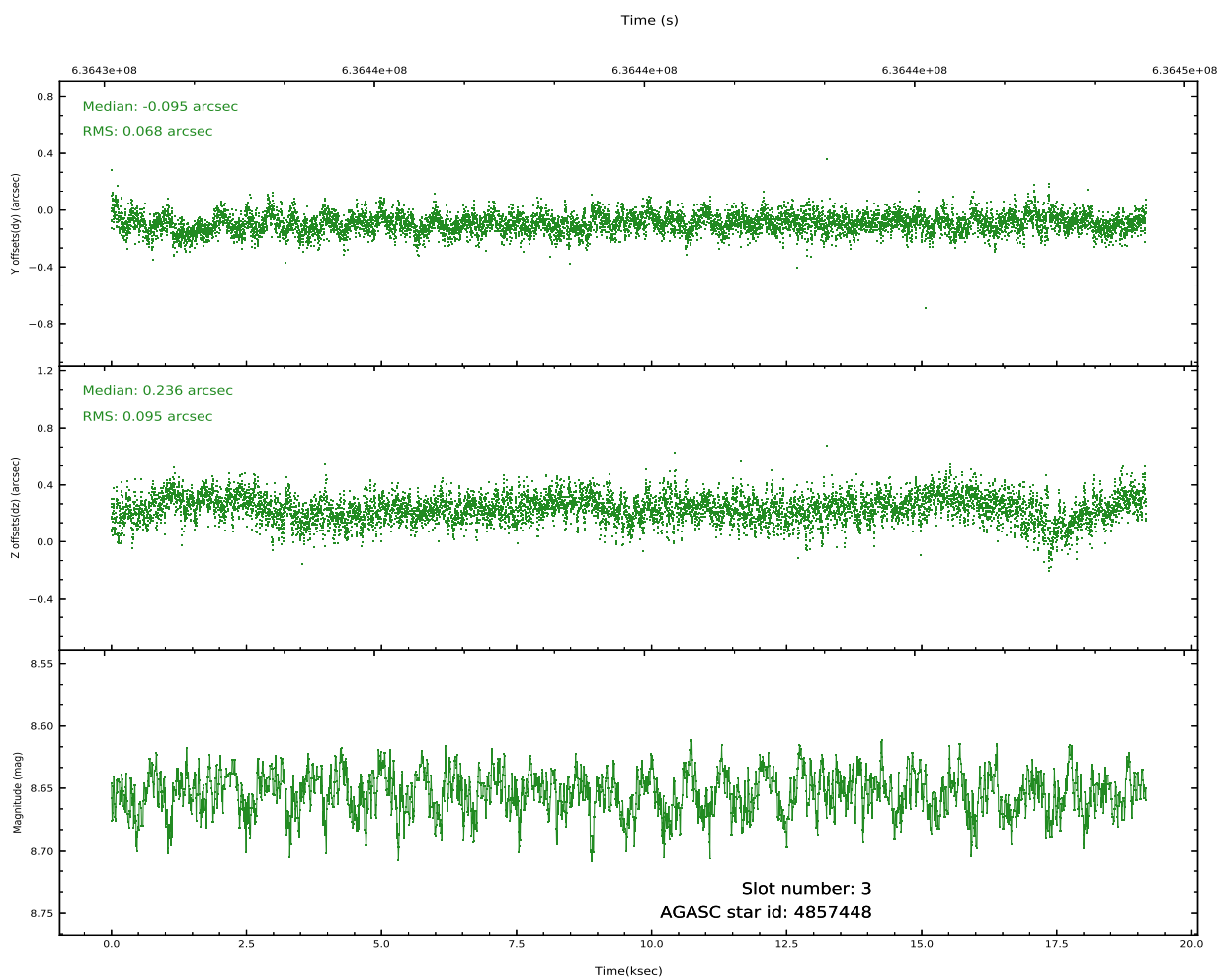
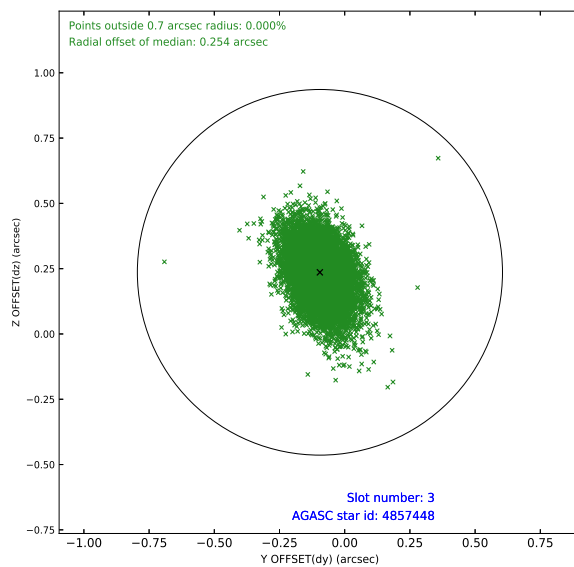
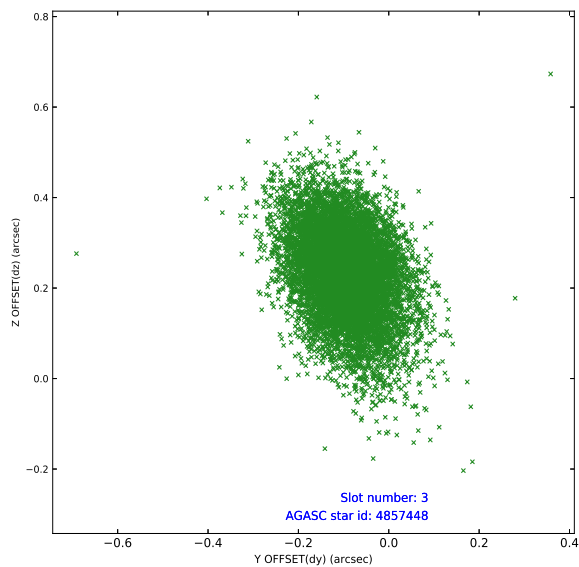


Slot Statistics

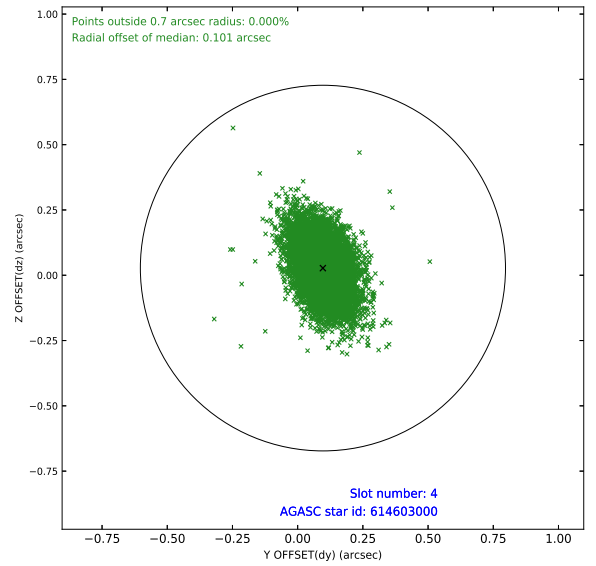
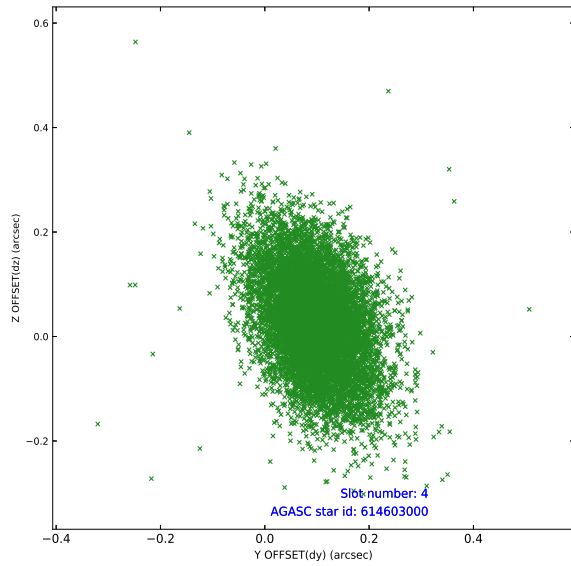
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.07	4671	1.000	0.081	-0.092	0.012	0.027	0.000000	0.000000	-769.22	-1742
1	FID		ACIS-S-4	7.18	4671	1.000	0.114	-0.014	0.014	0.032	0.000000	0.000000	2144.21	165
2	FID		ACIS-S-5	7.17	4672	1.000	-0.230	0.116	0.015	0.028	0.000000	0.000000	-1821.91	159
3	GUIDE	used	4857448	8.65	9335	1.000	-0.095	0.236	0.120	0.209	31.329717	0.322843	-2247.05	-453
4	GUIDE	used	614603000	8.71	9337	1.000	0.097	0.027	0.113	0.198	31.292832	-0.000879	-1117.86	-770
5	GUIDE	used	614603456	8.83	9337	1.000	0.169	-0.064	0.138	0.234	30.926579	-0.024024	-1246.38	-2085
6	GUIDE	used	614605504	7.27	9344	1.000	-0.187	-0.052	0.123	0.218	32.113697	-0.419301	840.05	1905
7	GUIDE	used	614606448	6.96	9341	1.000	0.020	-0.148	0.121	0.226	31.892805	-0.617418	1423.29	1001

2.4 Star Slots

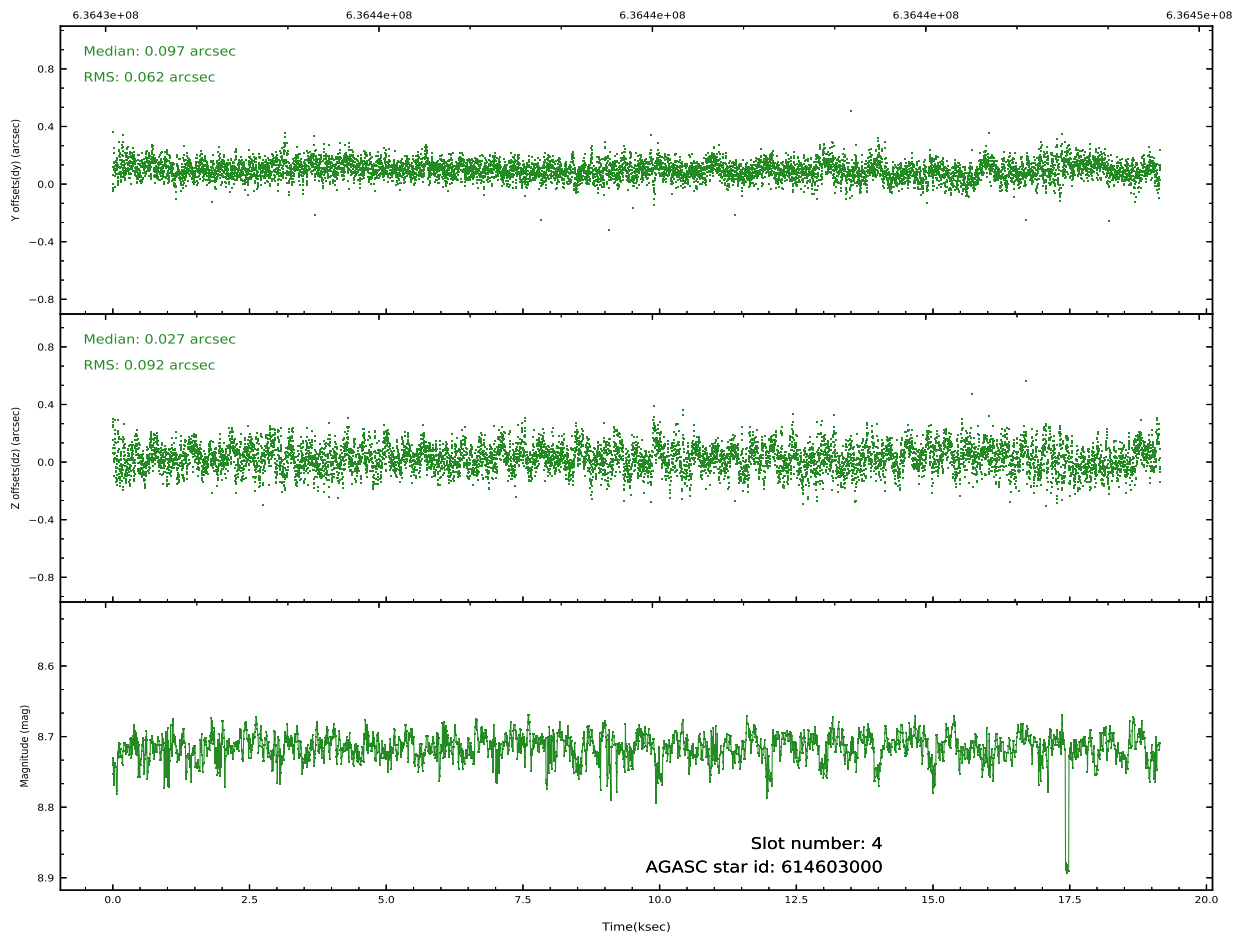
2.4.1 Slot 3



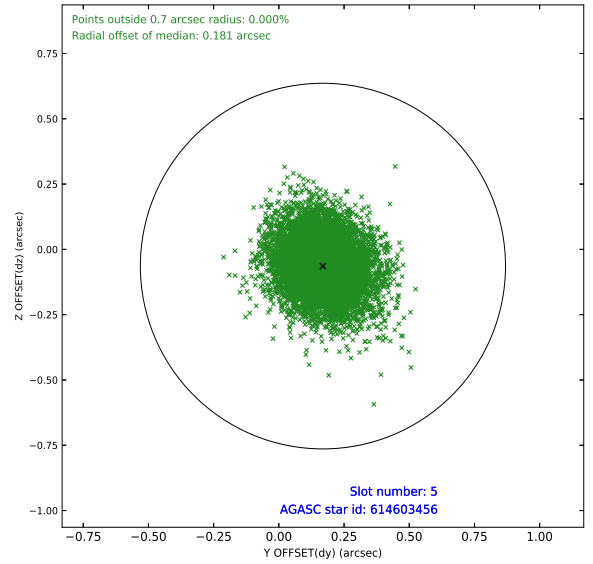
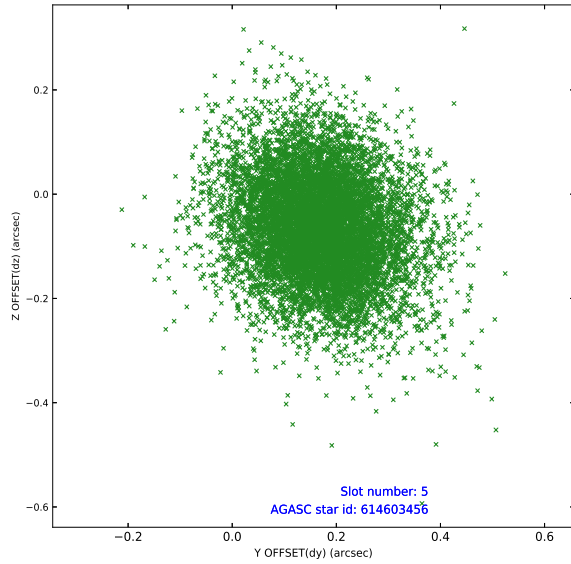
2.4.2 Slot 4



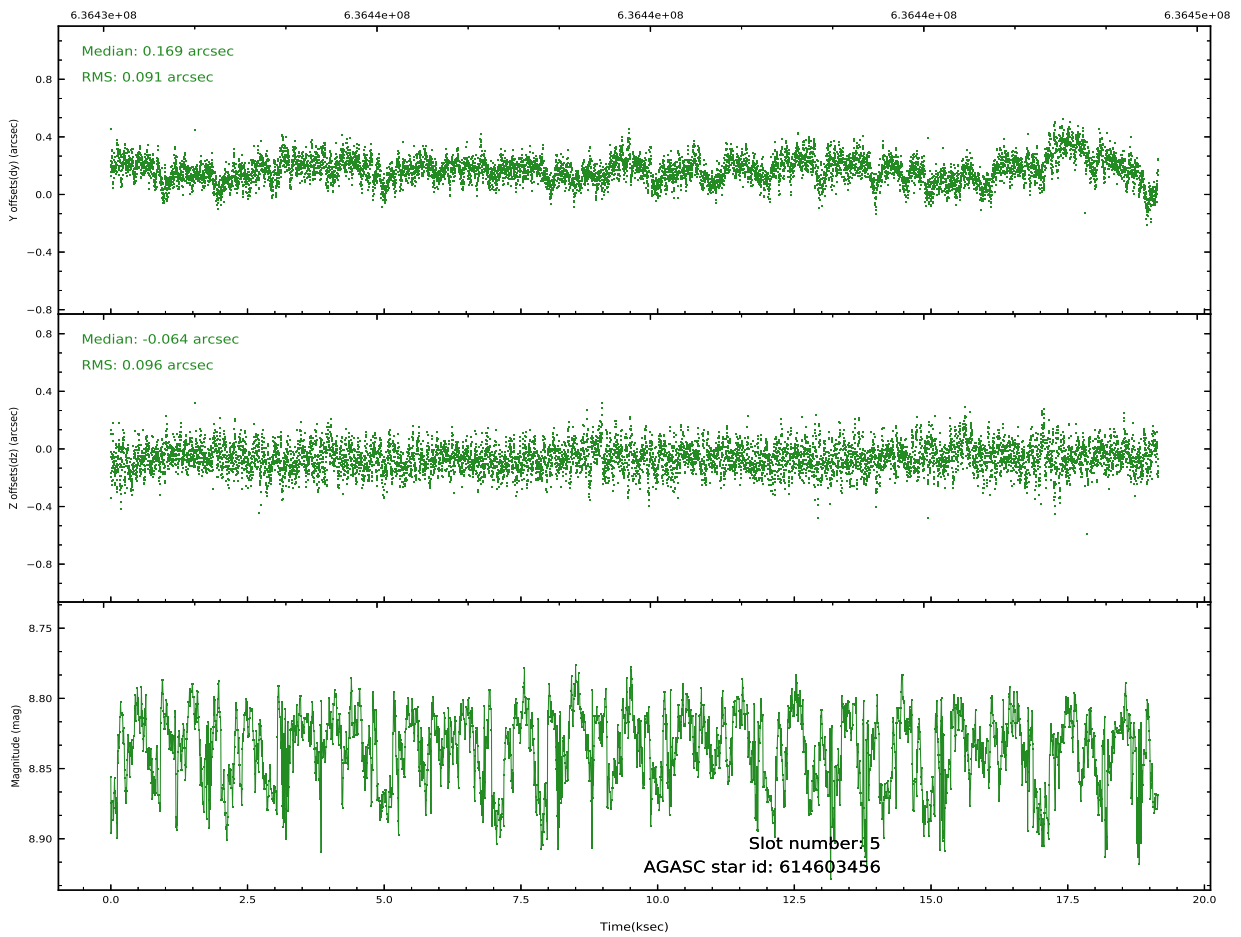
Time (s)



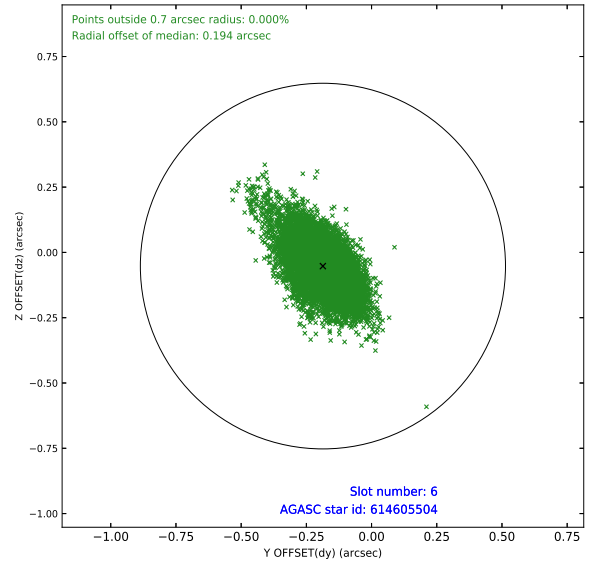
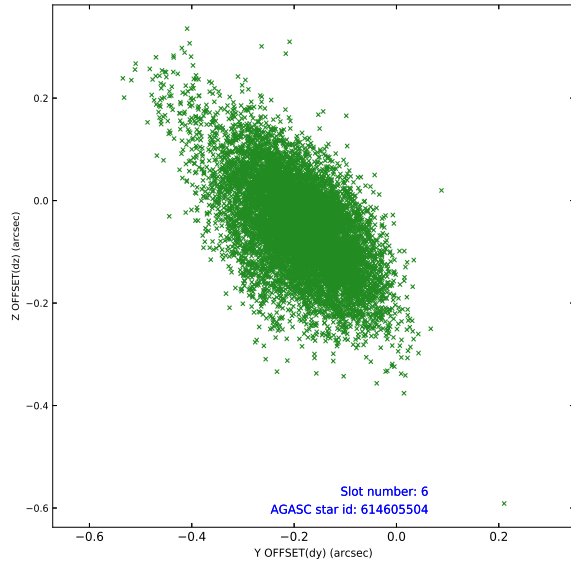
2.4.3 Slot 5



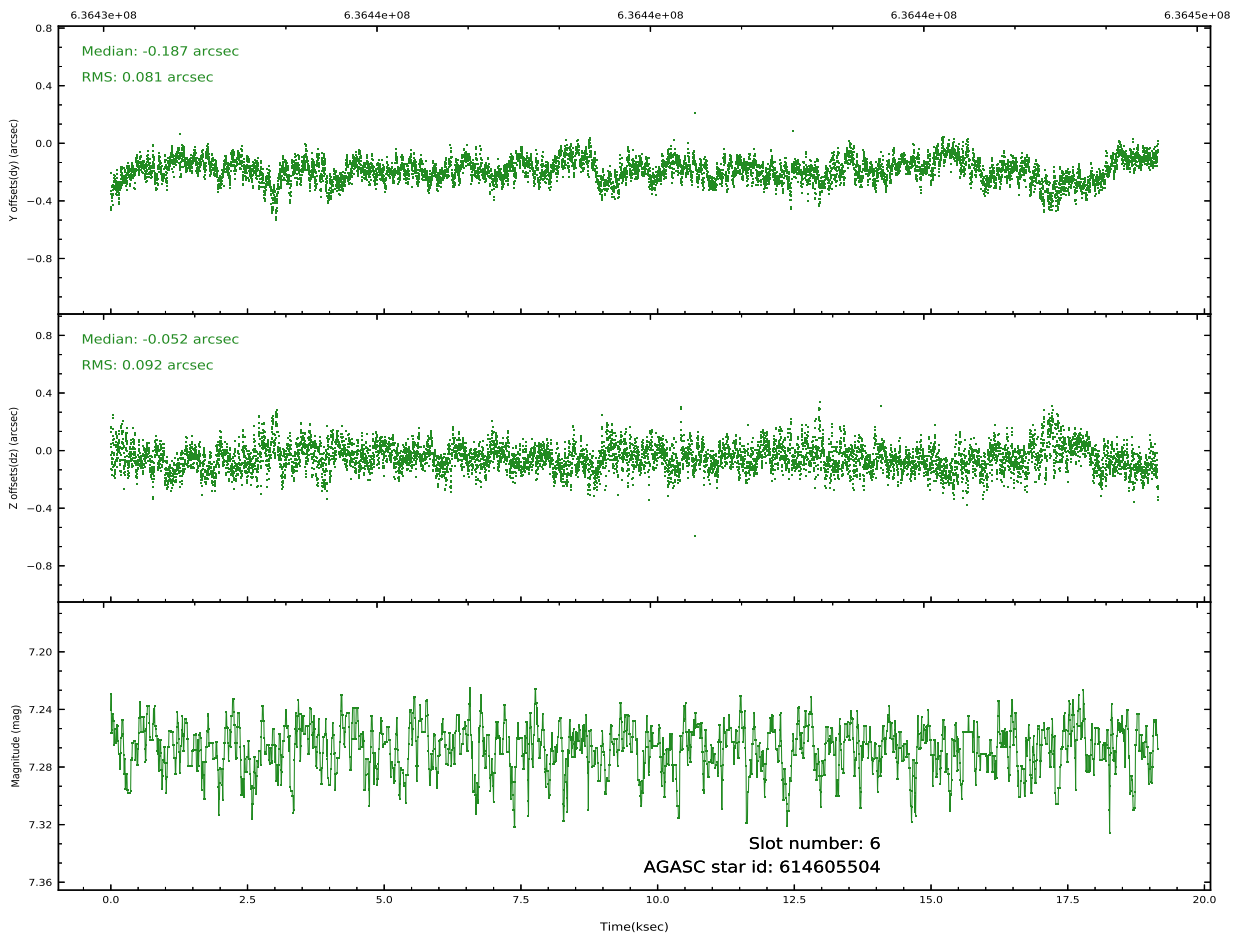
Time (s)



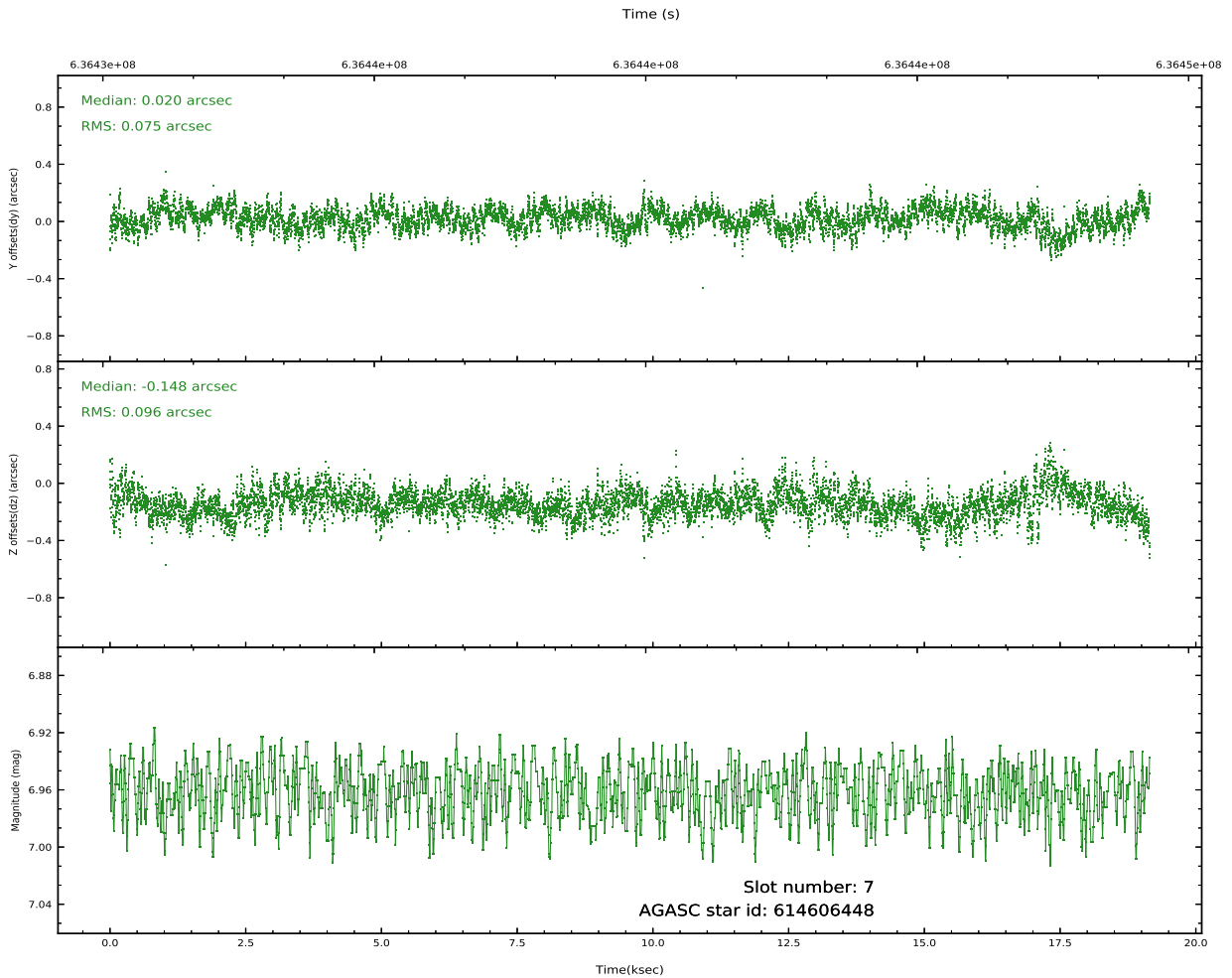
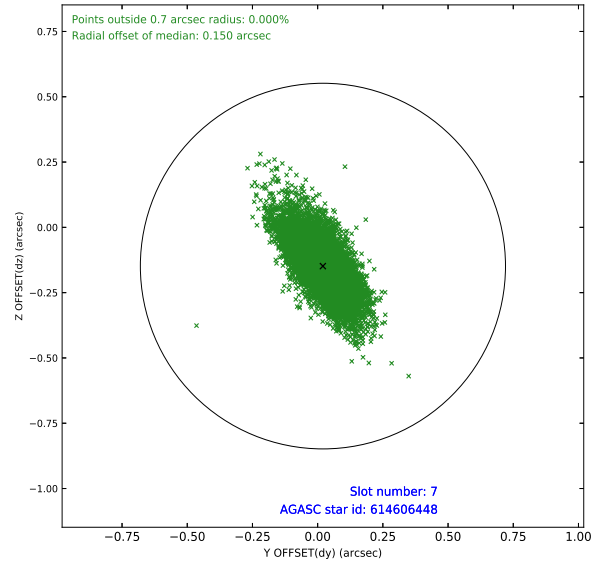
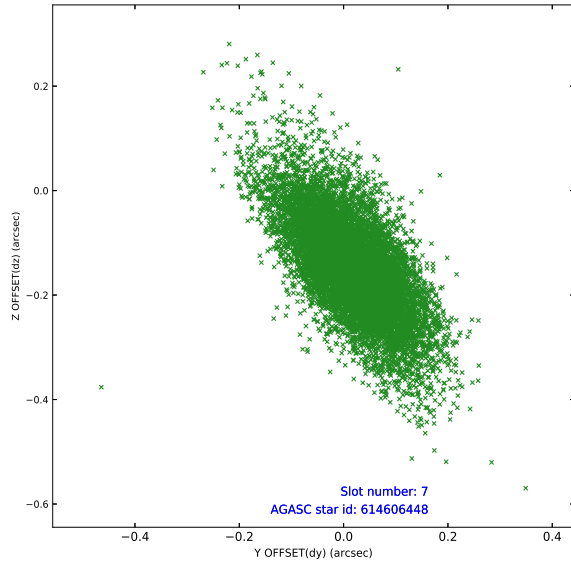
2.4.4 Slot 6



Time (s)

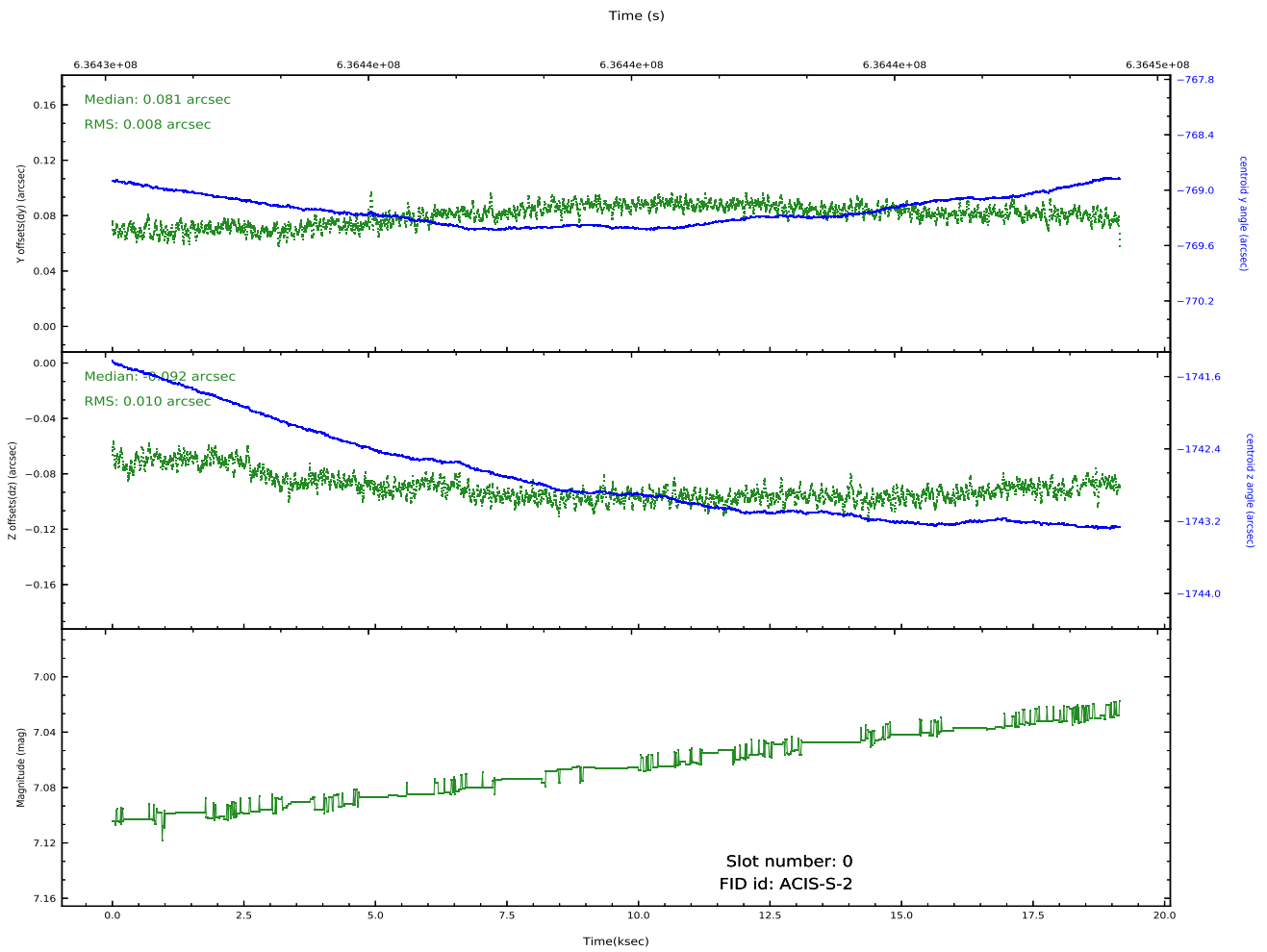
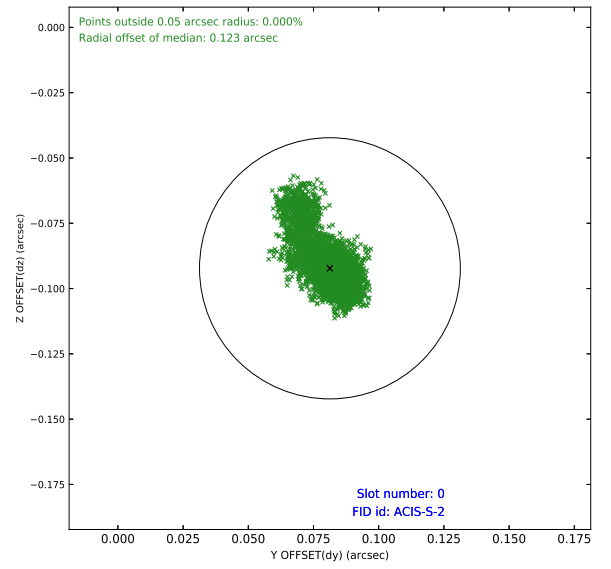
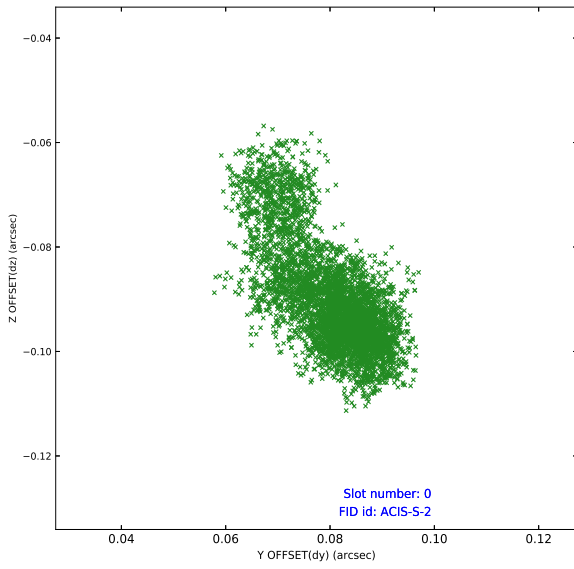


2.4.5 Slot 7

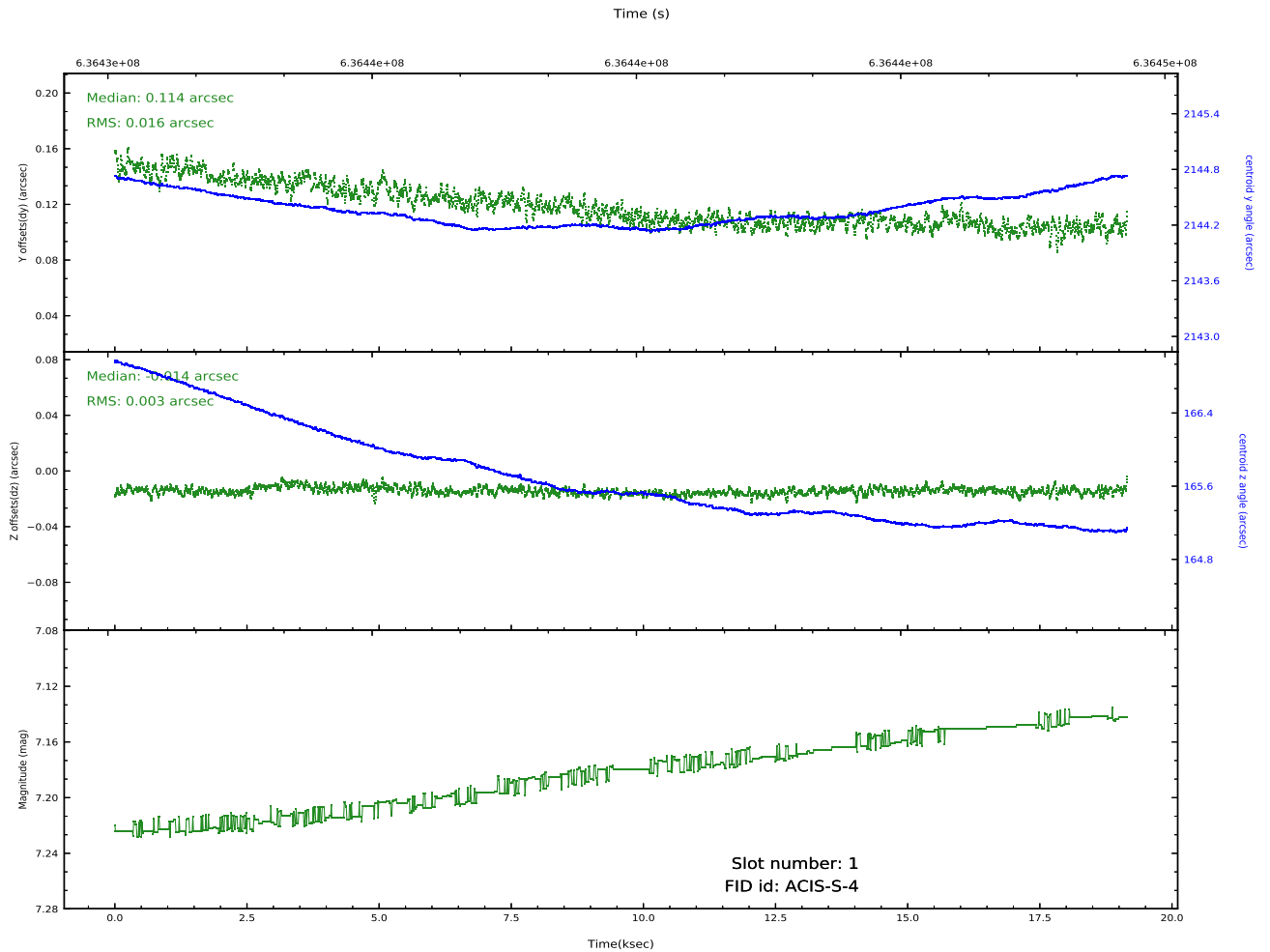
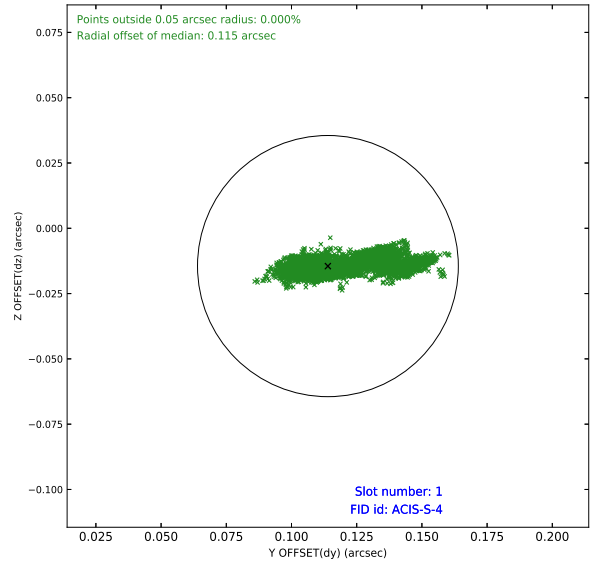
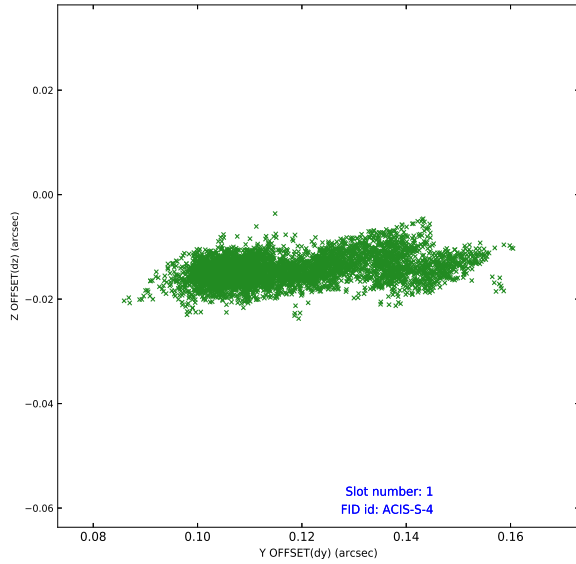


2.5 FID Slots

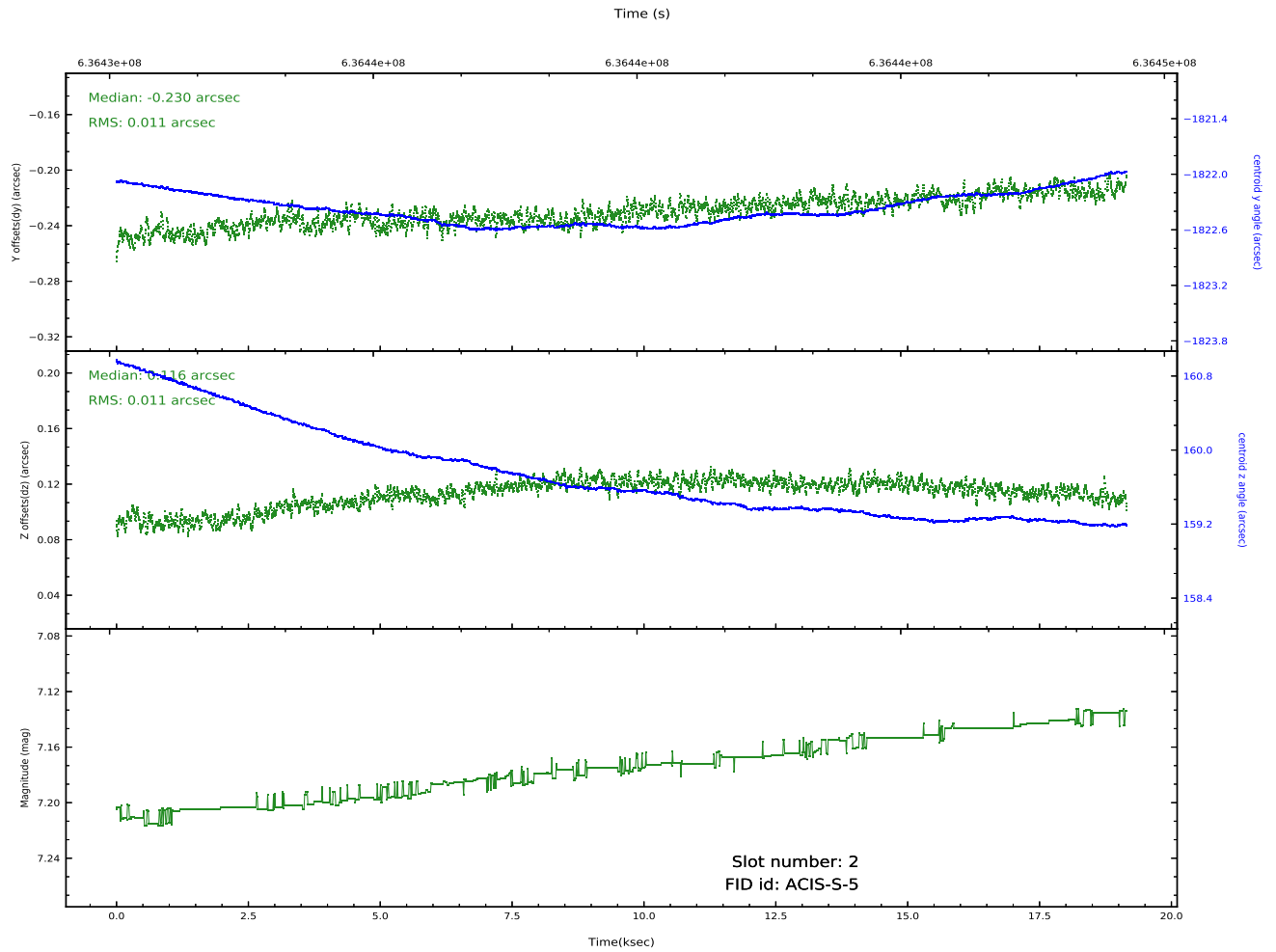
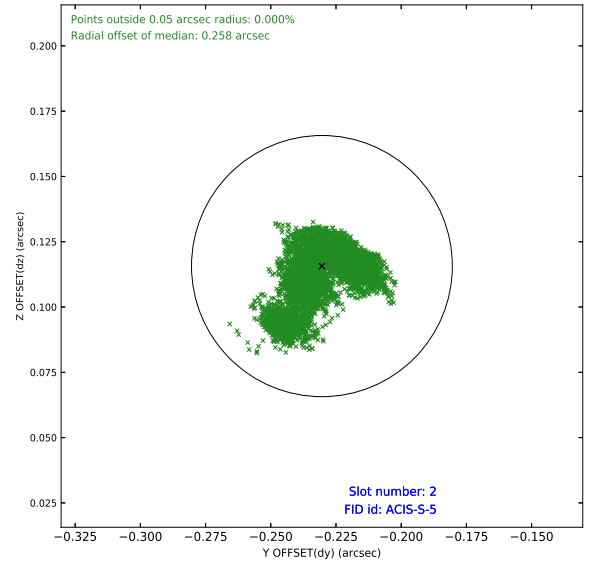
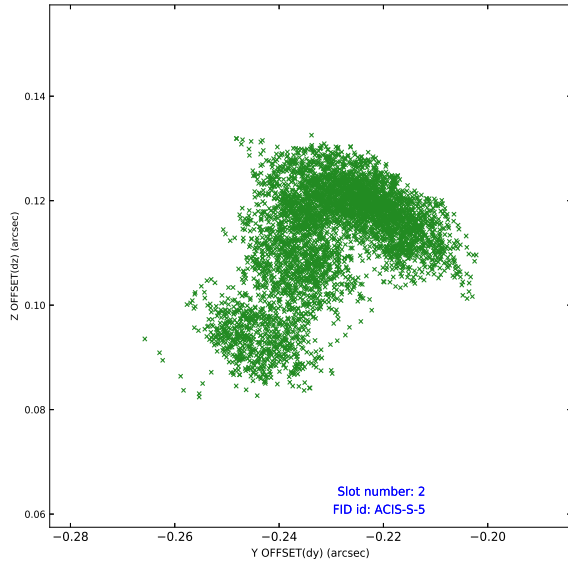
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.069150842309

A.2 Comments