

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4618 - L2 Version 4
Chandra X-Ray Center

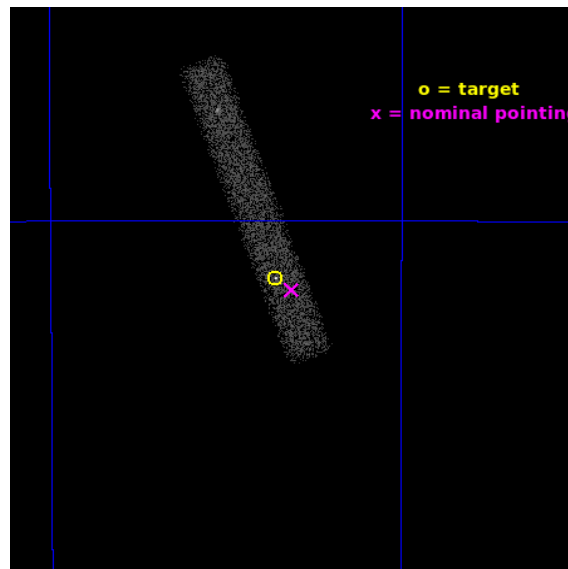
L2 Processing Date : Sep 23 2020

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

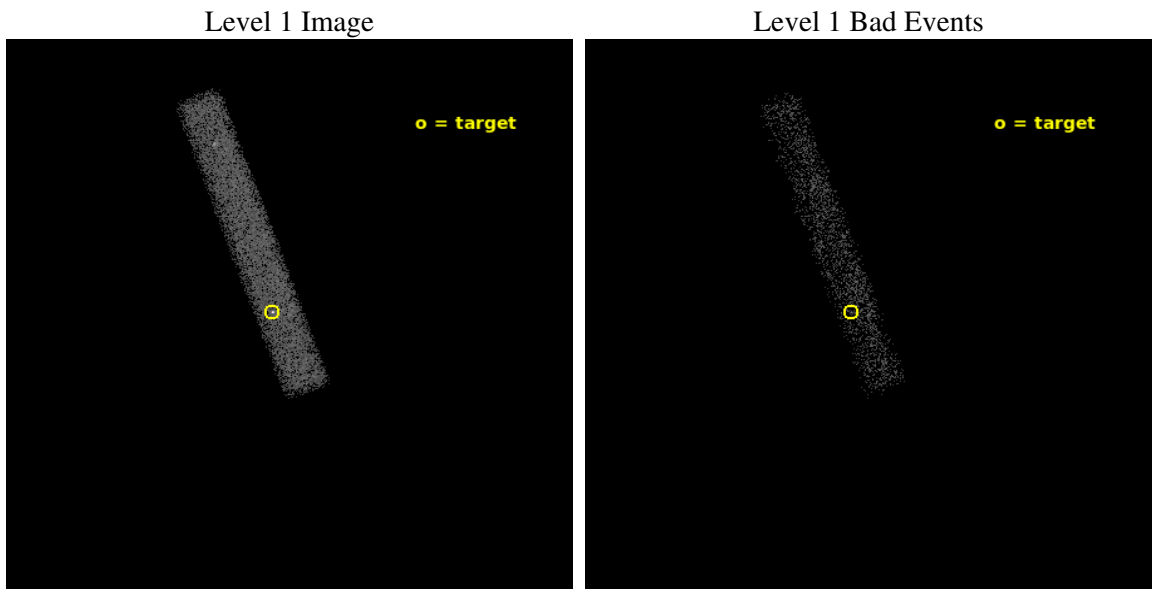
seq_num	500443	Sequence number
obs_id	4618	Observation id
title	PRECISION TIMING OF A POSSIBLE NEW ANOMALOUS X-RAY PULSAR	Proposal
observer	Prof. Bryan Gaensler	Principal investigator
object	CXOU J010043.1-721134	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	15.179583	Observer's specified target RA [deg]
dec_targ	-72.192722	Observer's specified target Dec [deg]
ra_nom	15.155921501063	Nominal RA [deg]
dec_nom	-72.198096433913	Nominal Dec [deg]
roll_nom	250.11525118453	Nominal Roll [deg]
revision	4	Processing version of data
ontime	16542.400246471	Sum of GTIs [s]
livetime	15003.08384407	Livetime [s]
ontime7	16542.400246471	Sum of GTIs [s]
l2events	9634	Number of level 2 events



2 OBI

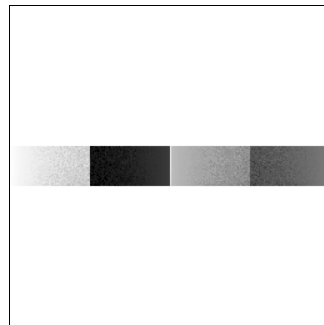
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	16397.912000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	16542.400246471	Sum of GTIs [s]
caldbver	4.9.2	 	ontime7	16542.400246471	Sum of GTIs [s]
date	2020-09-23T16:38:55	Date and time of file creation	l1events	21459	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

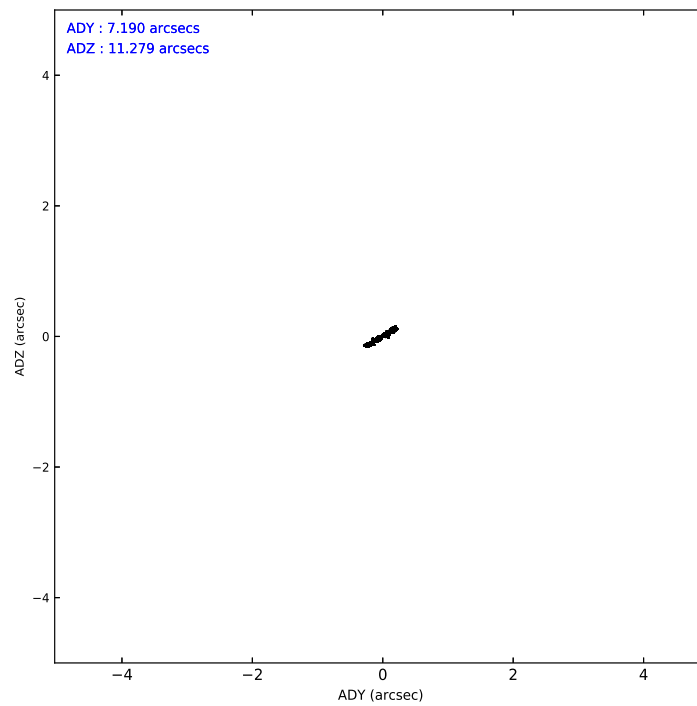
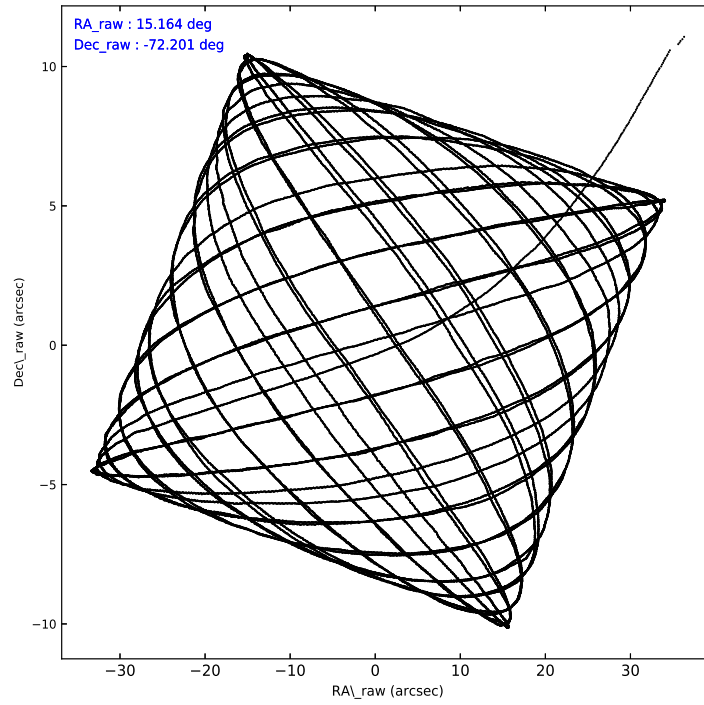
	ccd 7
level 1 events	21459
rejected events	11515
rejected %	53%

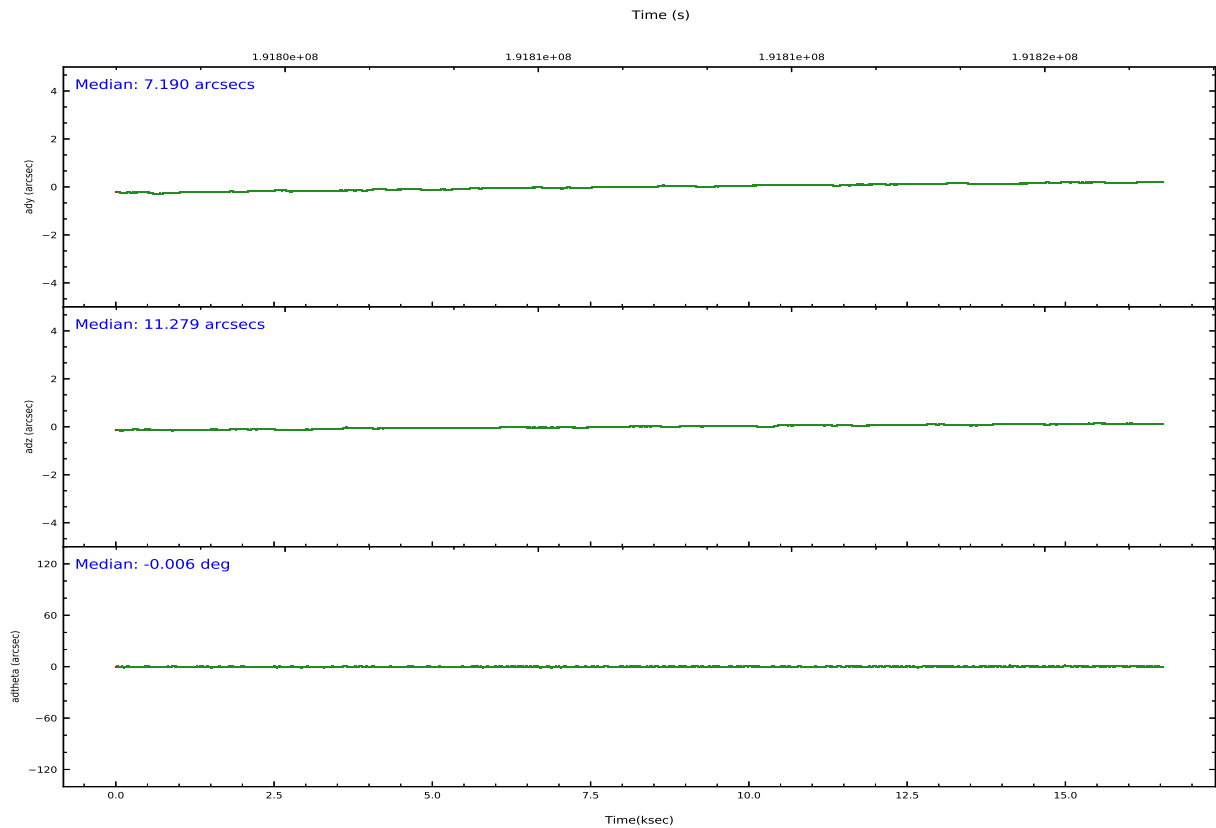
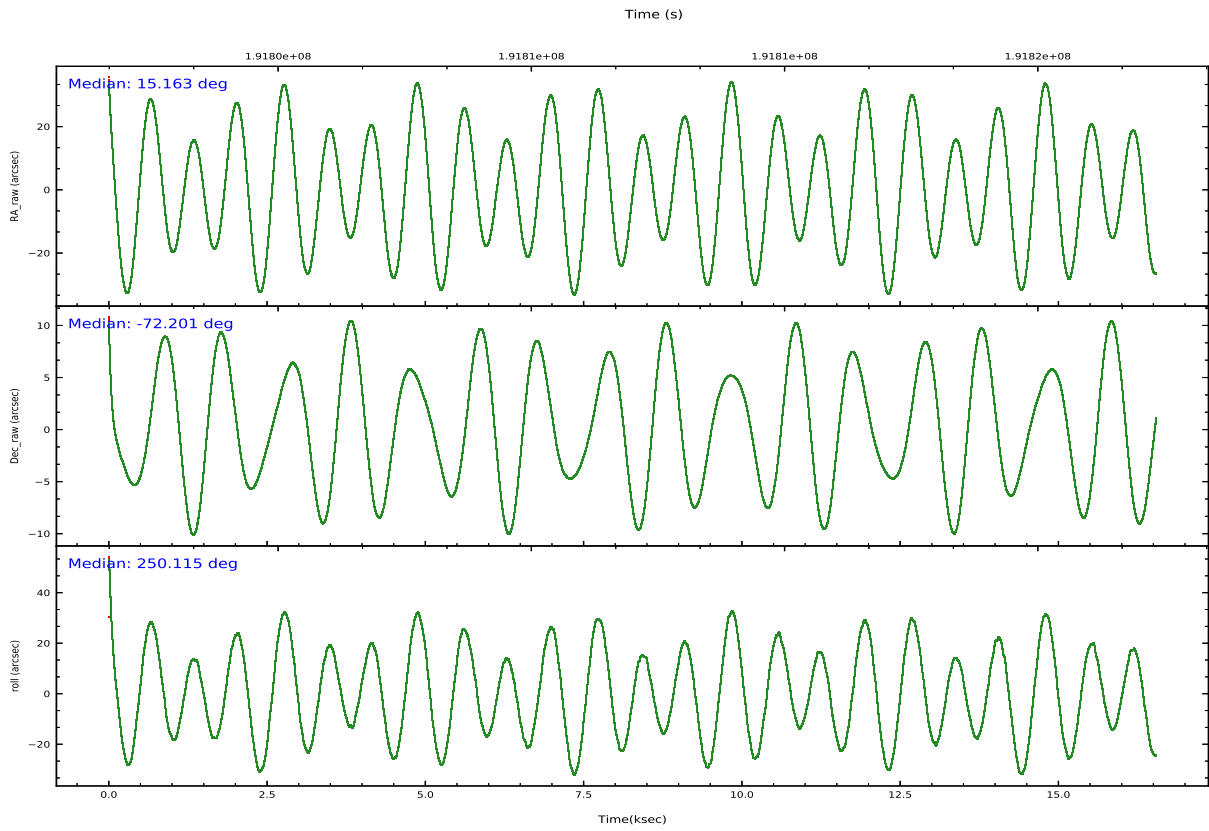
	ccd 7
grade 0 events	1482
	6%
grade 1 events	19
	0%
grade 2 events	2202
	10%
grade 3 events	1380
	6%
grade 4 events	1280
	5%
grade 5 events	1875
	8%
grade 6 events	4396
	20%
grade 7 events	8825
	41%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	15.146993	15.155921501063	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-72.174375	-72.19809643391299	Subarray start row	449	449
[deg] Pointing Roll	249.936157	250.11525118453	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)	191801471.184000	191799716.9568			
Observation start date	2004-01-29T22:10:07	2004-01-29T21:41:56			
[s] Observation end time (MET)	191817869.184000	191819206.82015			
Observation end date	2004-01-30T02:43:25	2004-01-30T03:06:46			
Read mode	TIMED	TIMED			

2.3 Aspect





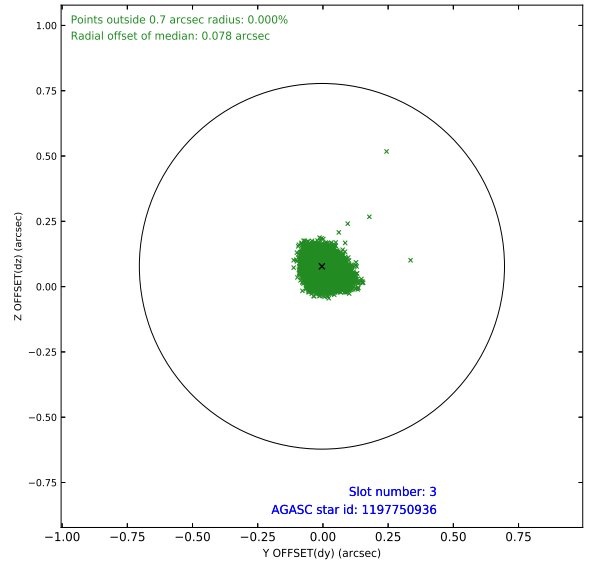
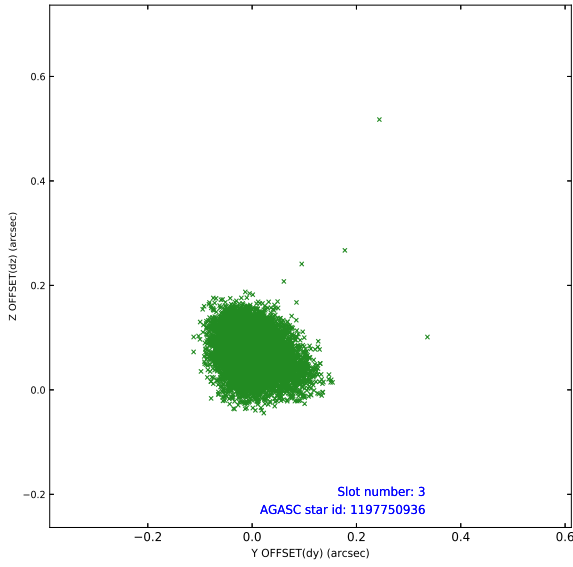
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	4036	1.000	-0.058	-0.039	0.008	0.013	0.000000	0.000000	-759.95	-1732
1	FID		ACIS-S-4	7.20	4036	1.000	0.105	0.038	0.006	0.012	0.000000	0.000000	2153.32	175
2	FID		ACIS-S-5	7.23	4036	1.000	-0.078	0.009	0.008	0.013	0.000000	0.000000	-1812.53	169
3	GUIDE	used	1197750936	7.57	8071	1.000	-0.004	0.078	0.060	0.099	15.387940	-71.549550	-2206.44	-513
4	GUIDE	used	1197884536	8.50	8069	1.000	0.028	-0.021	0.067	0.109	17.160729	-71.835289	-1886.68	1716
5	GUIDE	used	1197884712	8.30	8068	1.000	0.037	0.055	0.058	0.090	16.087398	-72.252690	-81.82	1069
6	GUIDE	used	1197885328	7.23	8071	1.000	-0.004	-0.098	0.049	0.085	16.283090	-71.733943	-1918.11	664
7	GUIDE	used	1198189696	7.36	8069	1.000	-0.065	-0.011	0.050	0.079	15.223750	-72.697522	1740.58	723

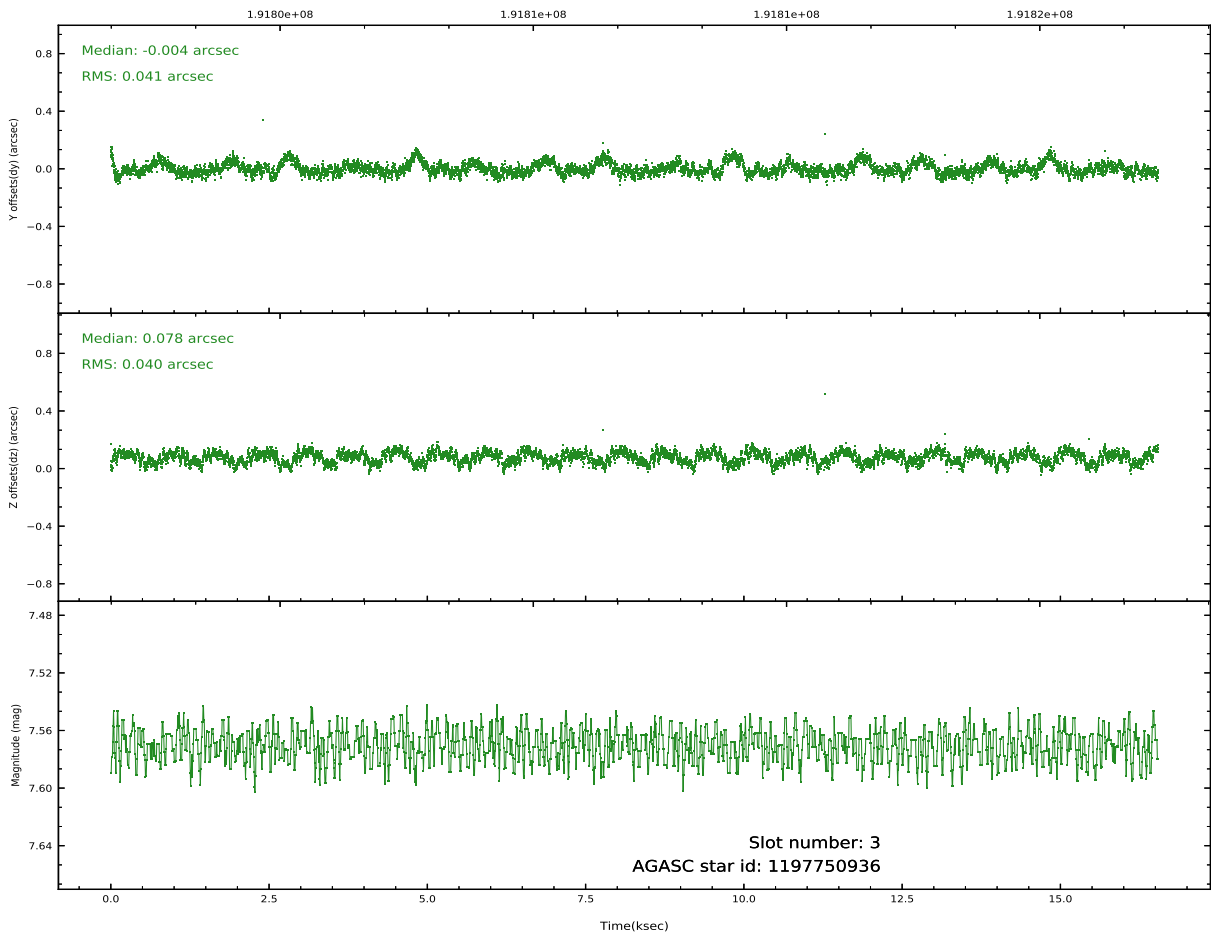
∞

2.4 Star Slots

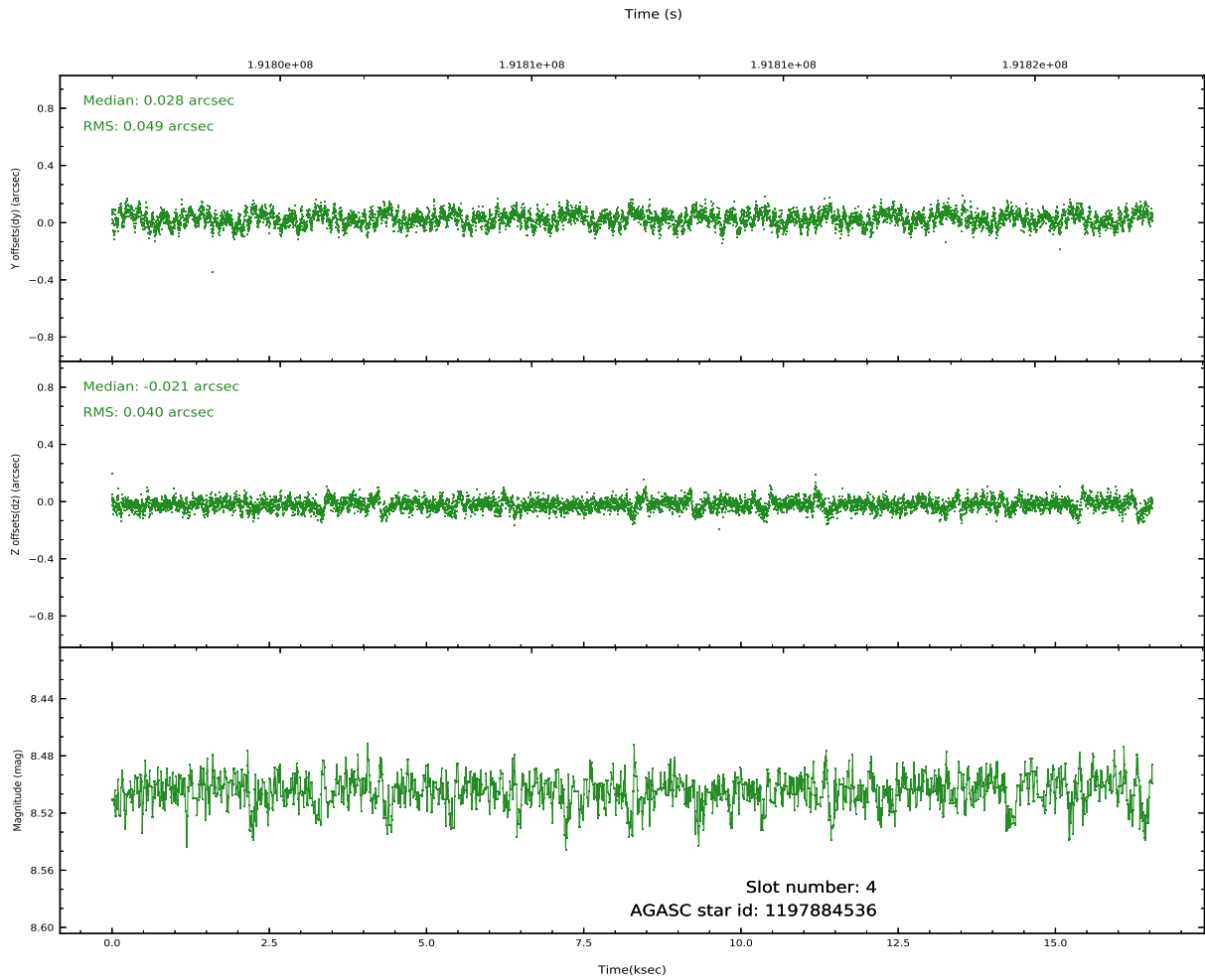
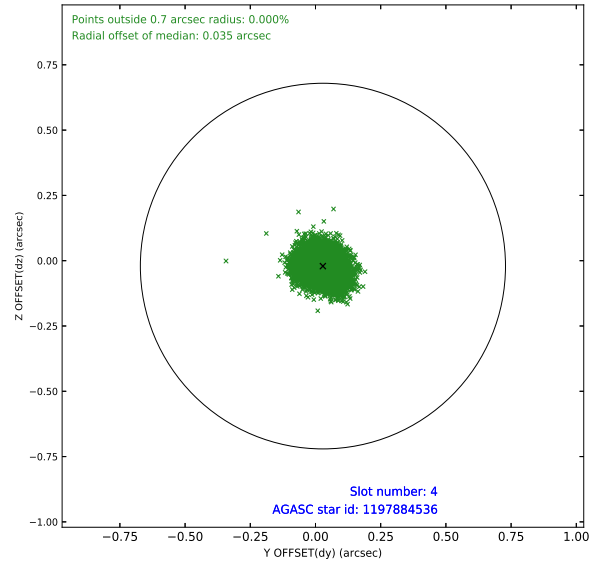
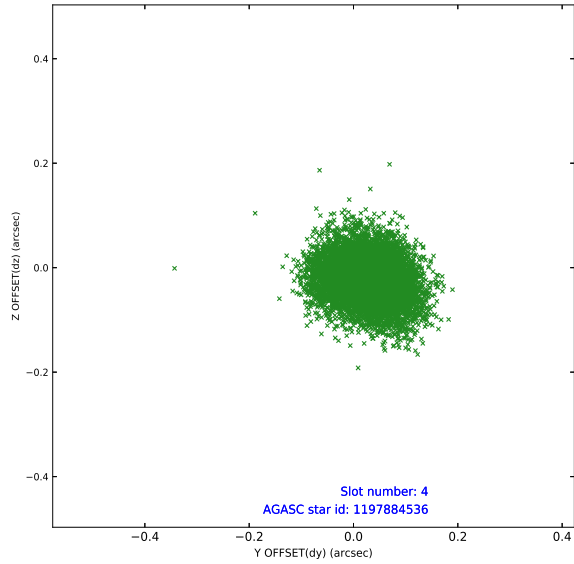
2.4.1 Slot 3



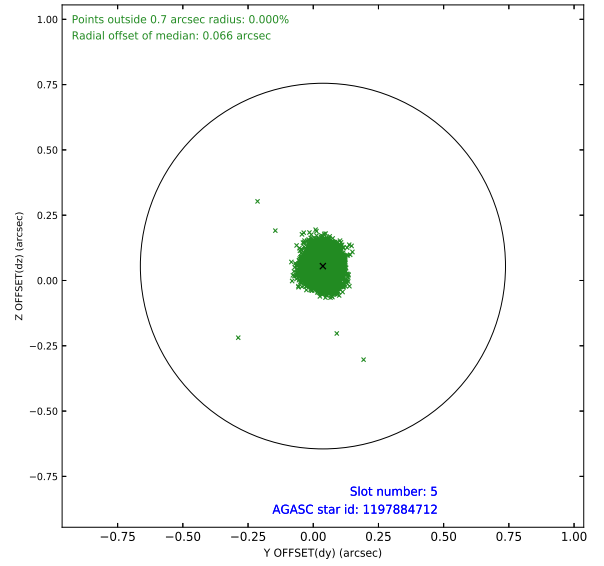
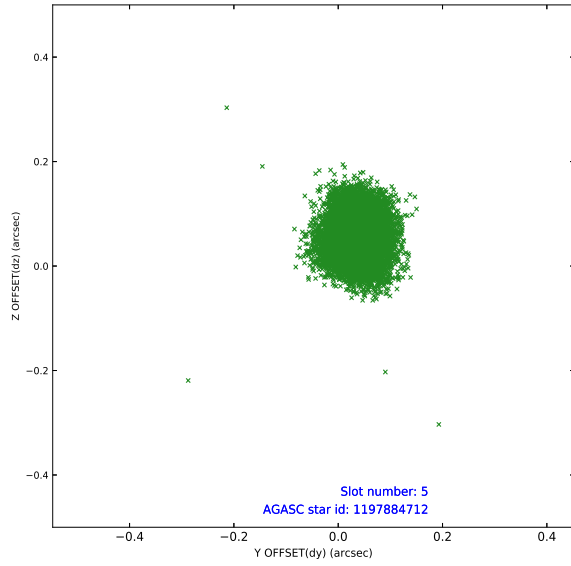
Time (s)



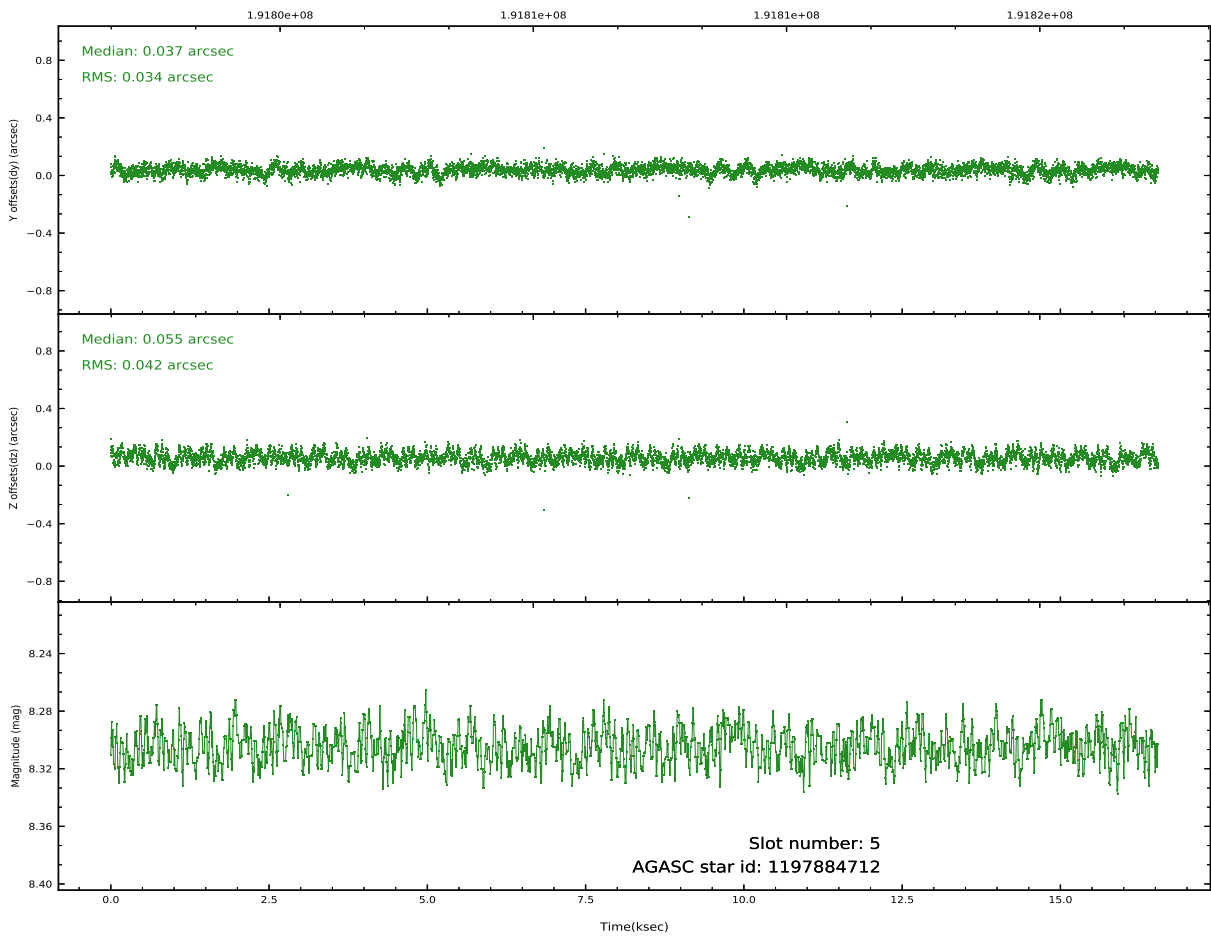
2.4.2 Slot 4



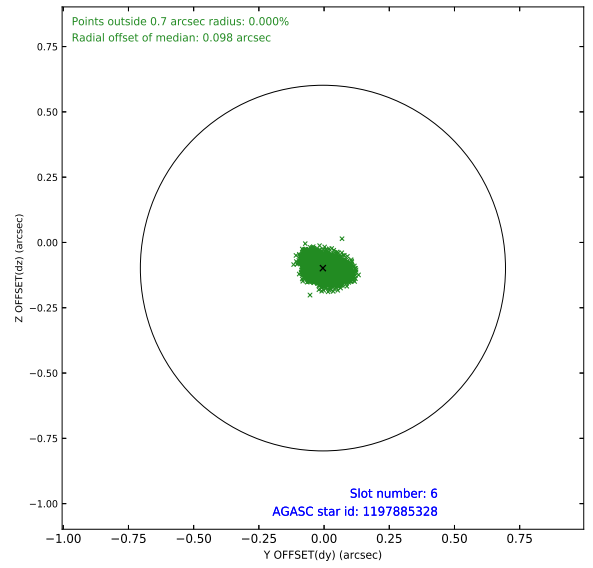
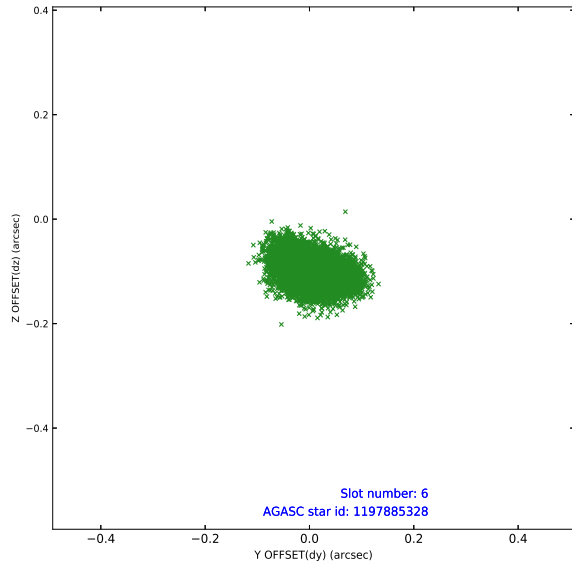
2.4.3 Slot 5



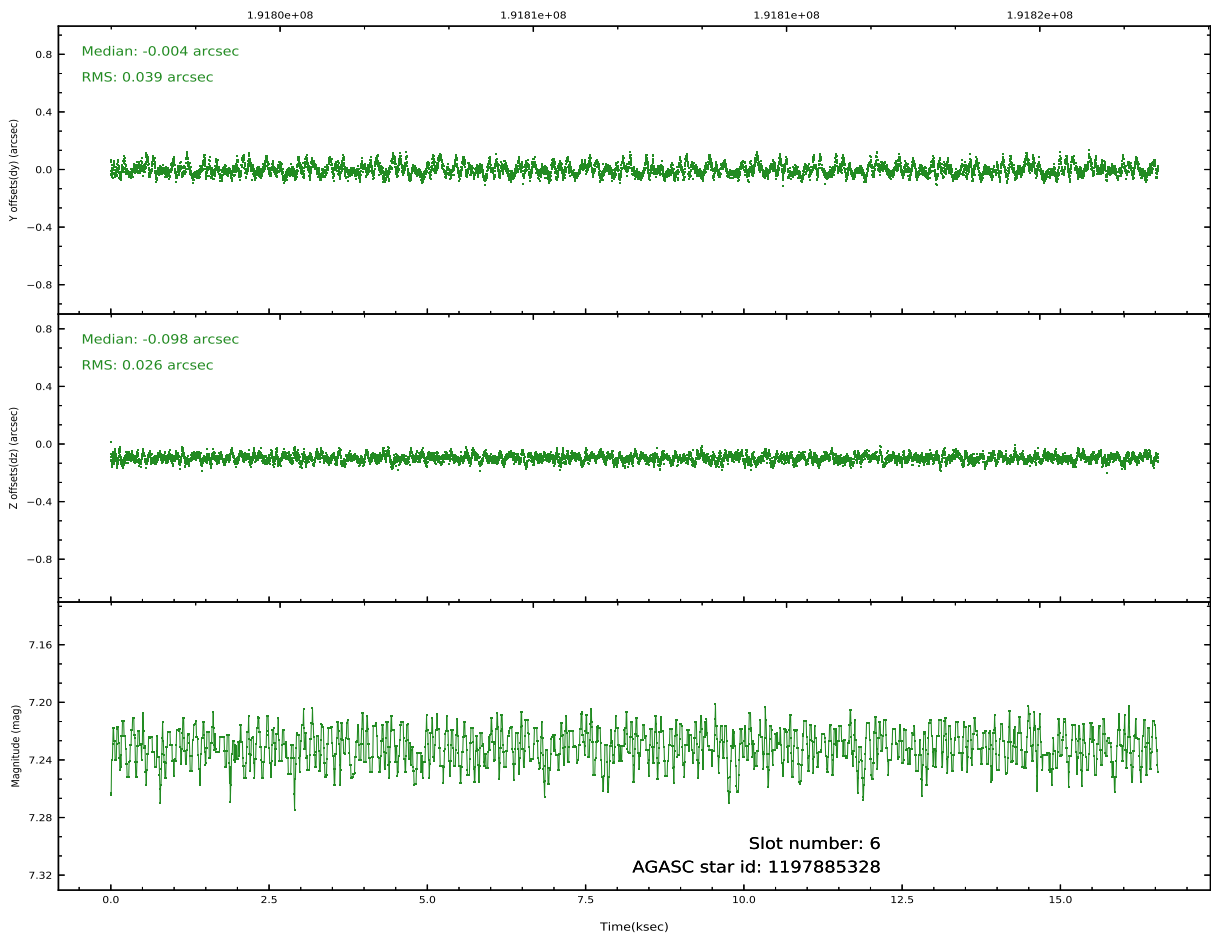
Time (s)



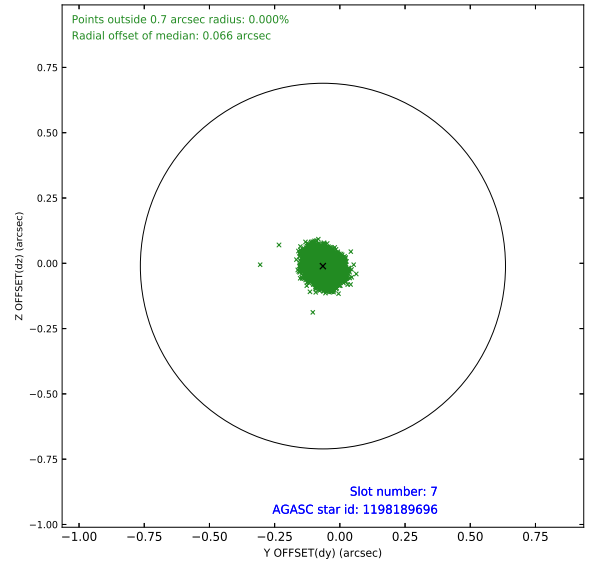
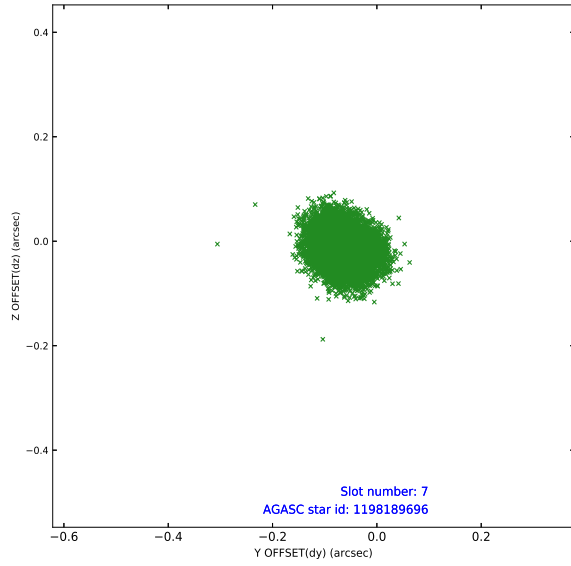
2.4.4 Slot 6



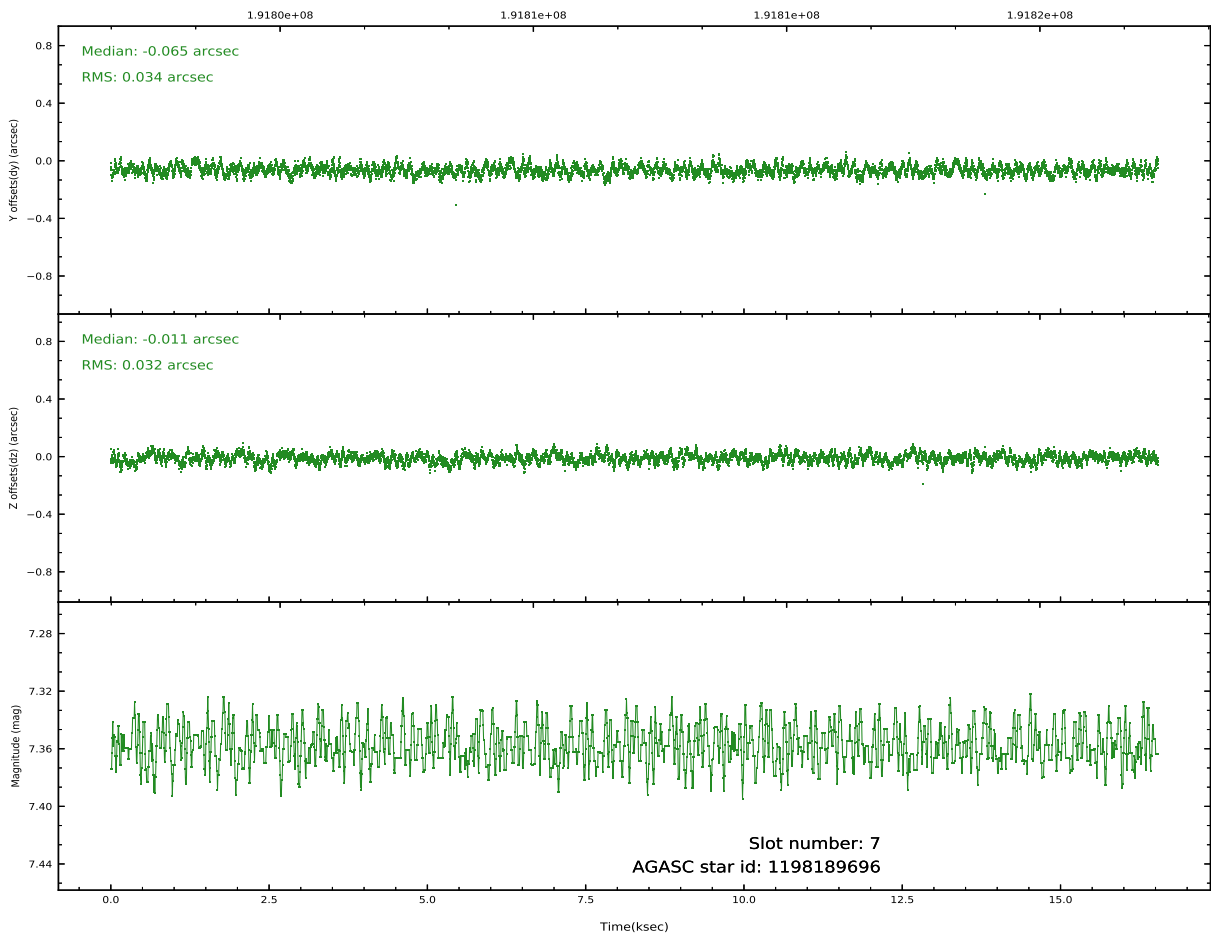
Time (s)



2.4.5 Slot 7

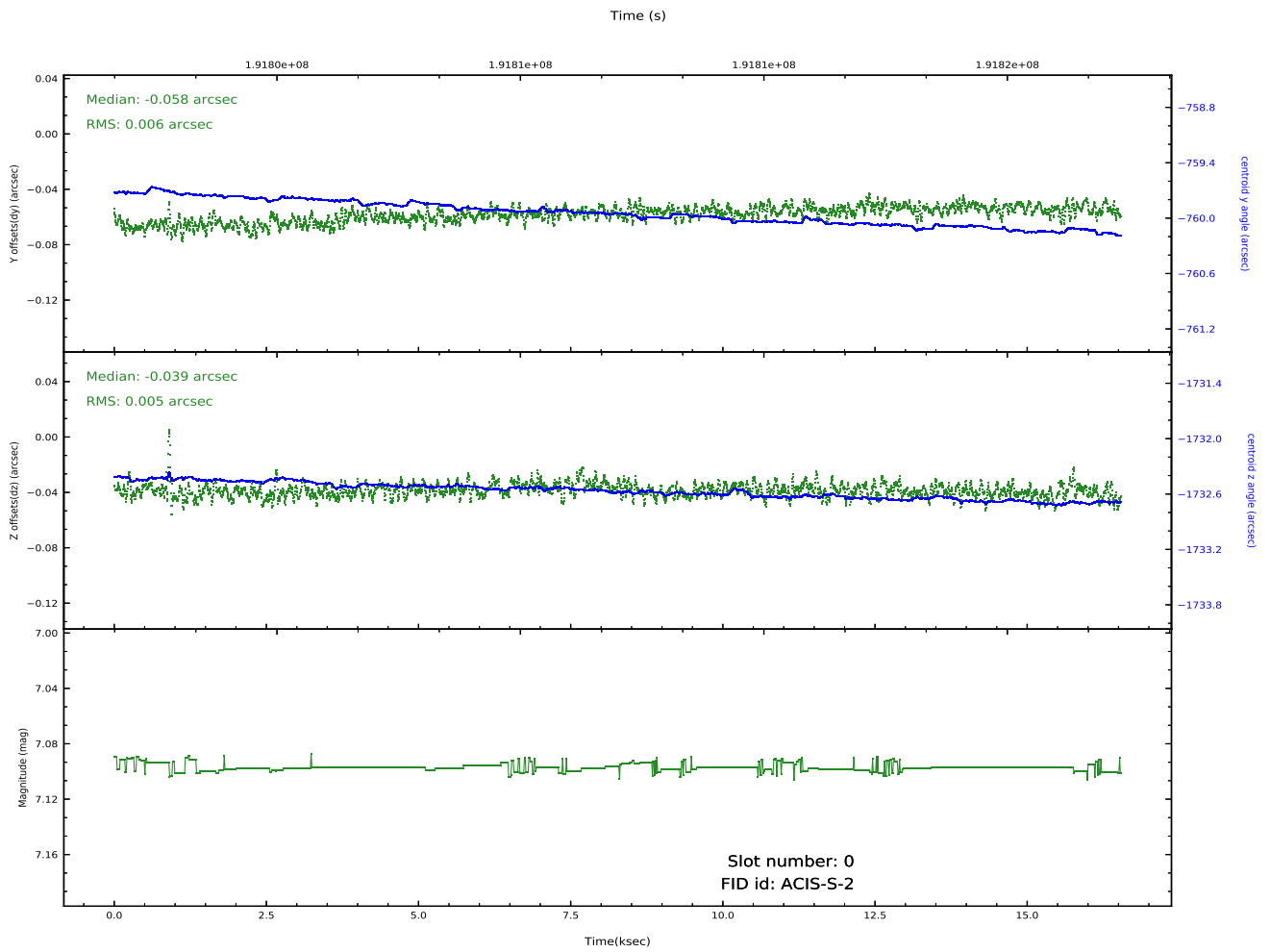
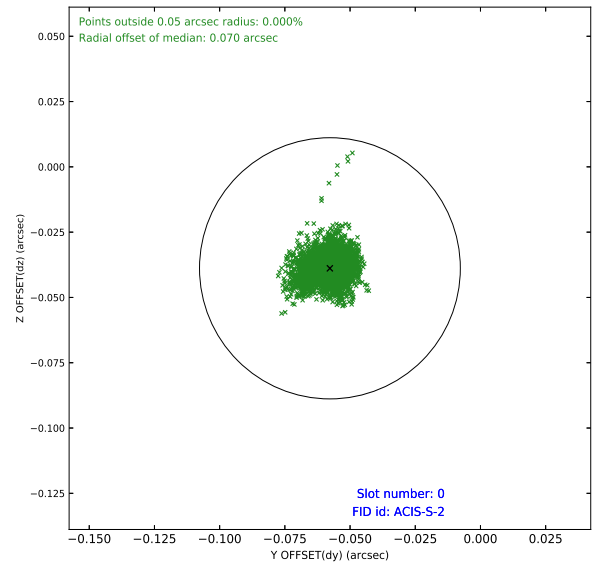
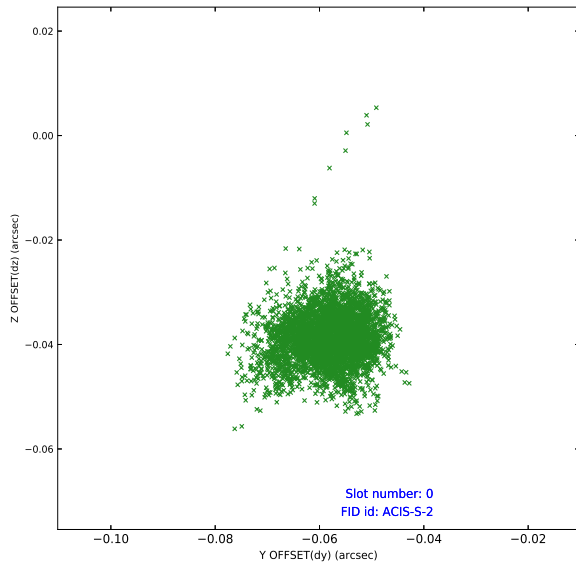


Time (s)

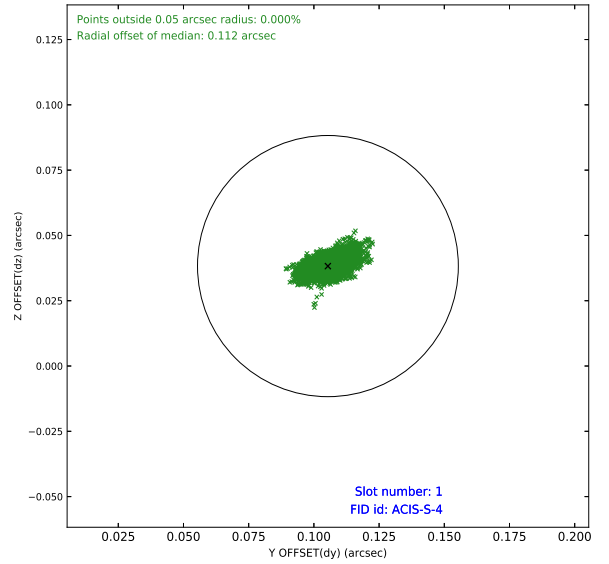
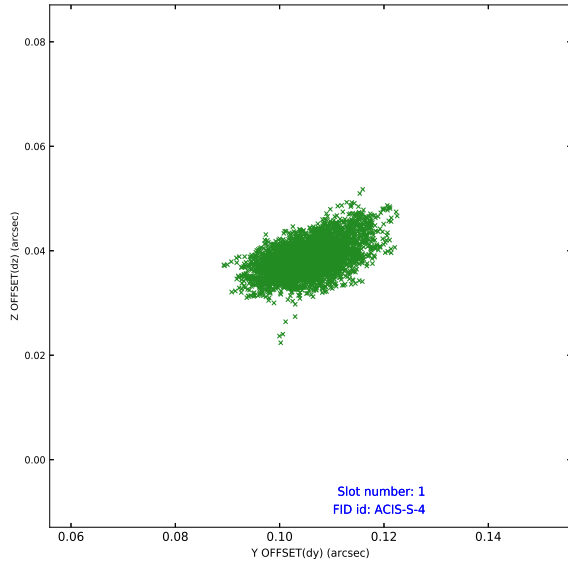


2.5 FID Slots

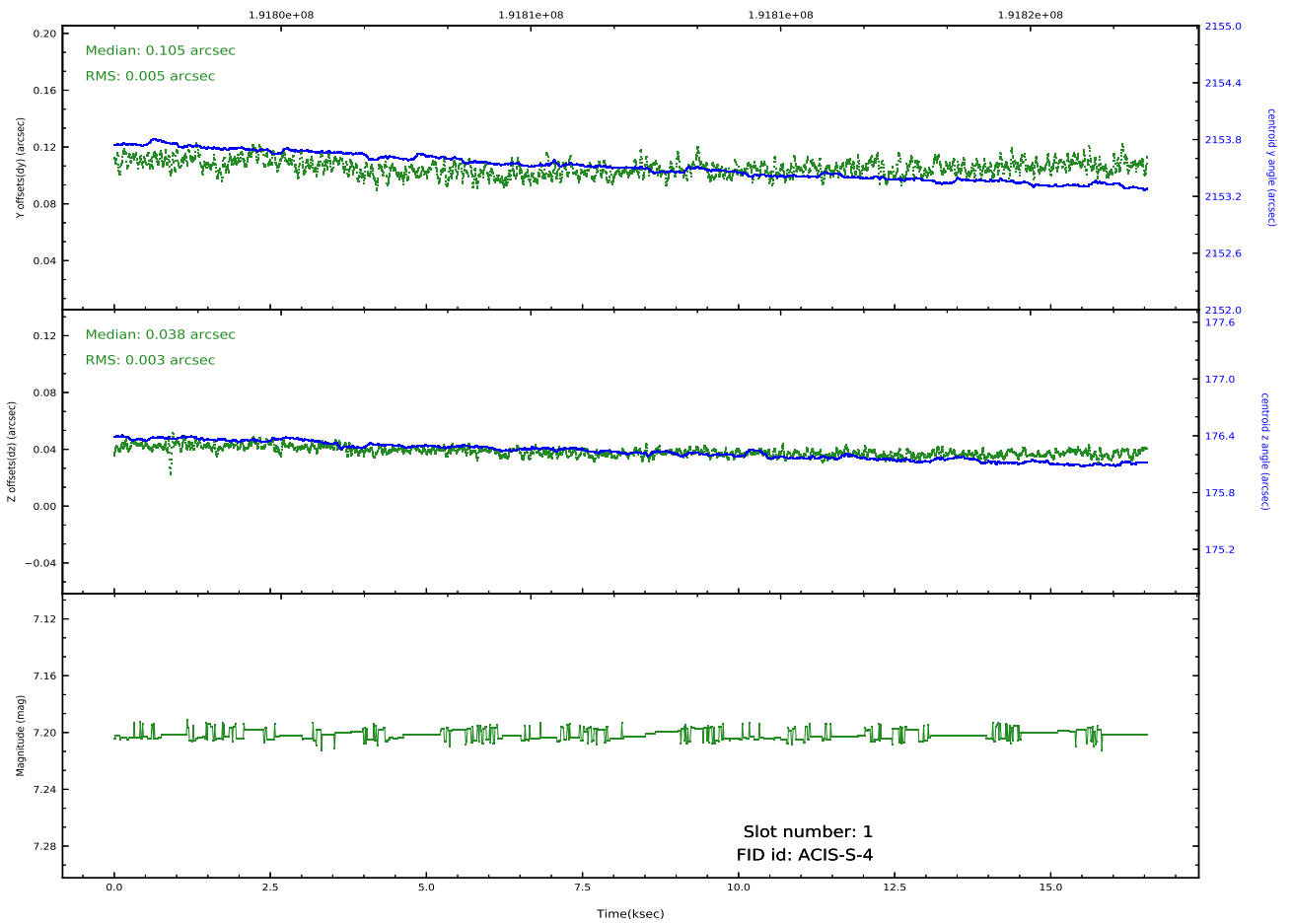
2.5.1 Slot 0



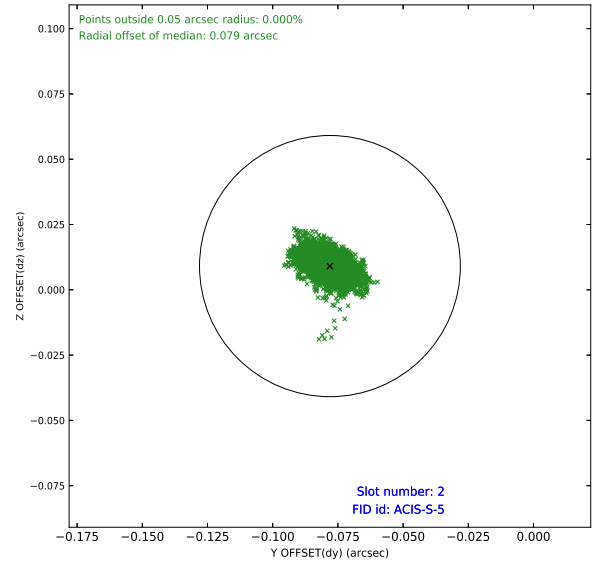
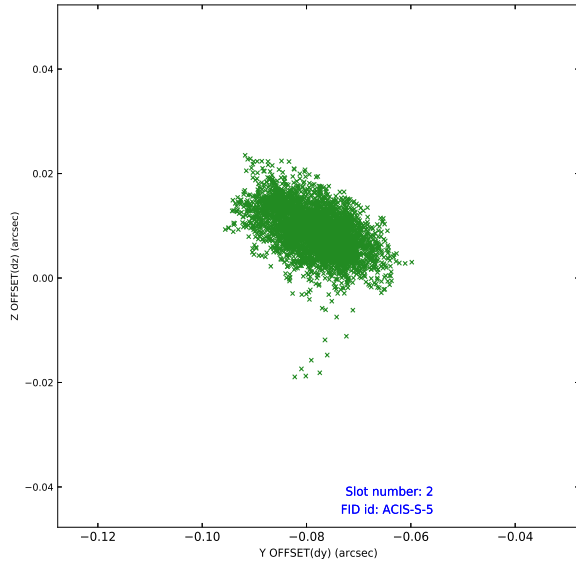
2.5.2 Slot 1



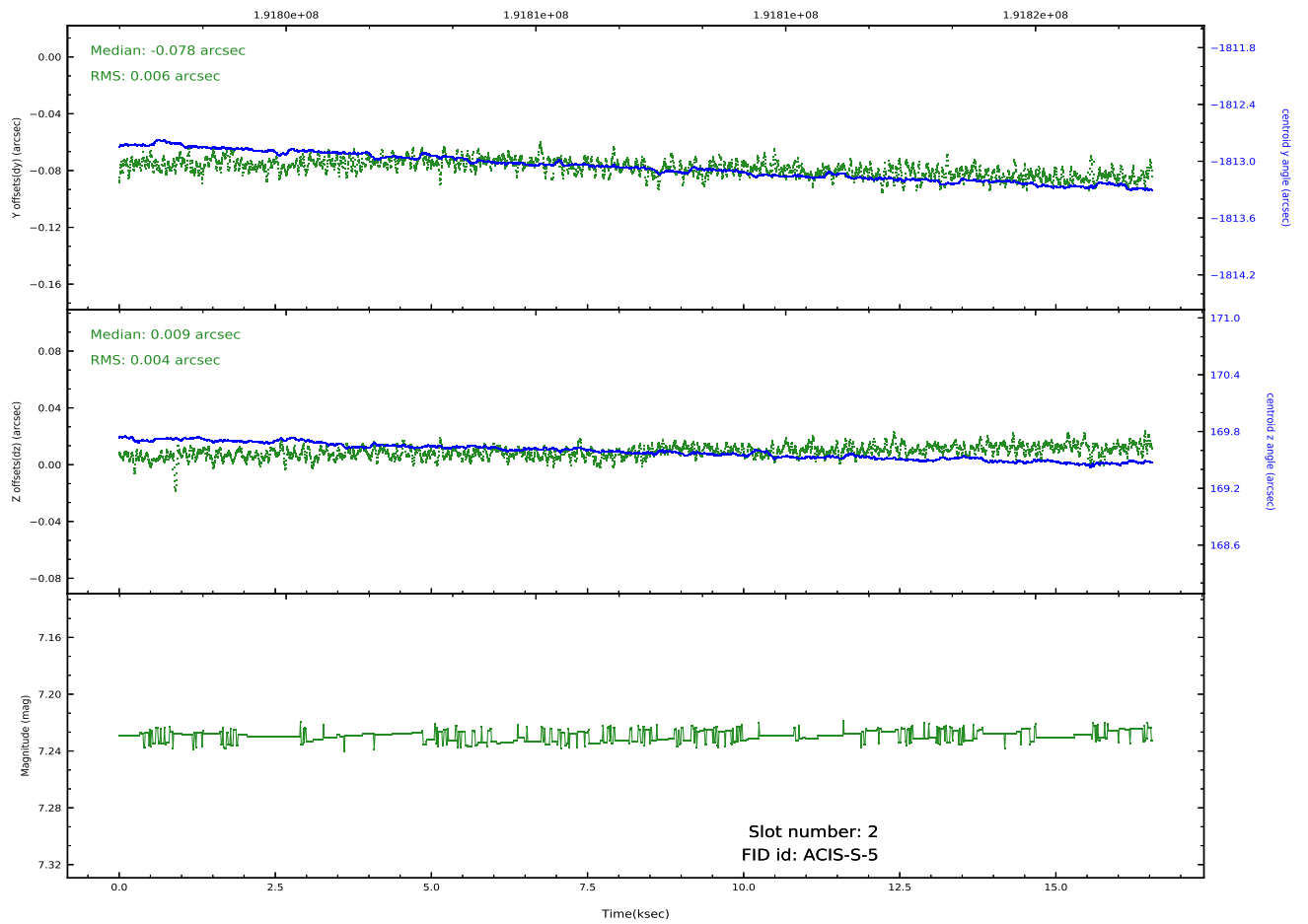
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Francesca Civano
V&V Date (YYYY-MM-DD)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.542

A.2 Comments

Monitor constraint met.