

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4672 - L2 Version 5
Chandra X-Ray Center

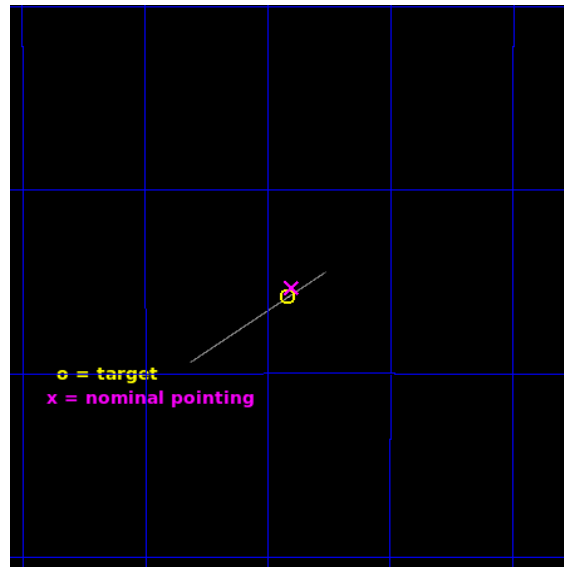
L2 Processing Date : Sep 28 2020

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1 Front

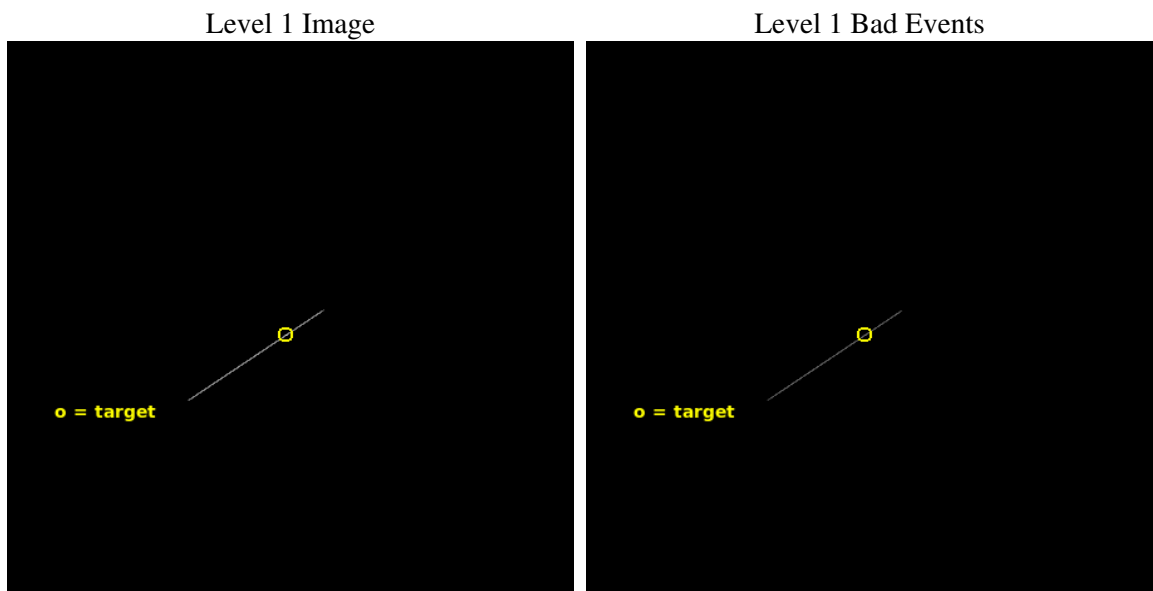
seq_num	500491	Sequence number
obs_id	4672	Observation id
title	Timing the Enigmatic Nearby Neutron Star RX J0720.4-3125	Proposal
observer	Prof. David Kaplan	Principal investigator
object	RX J0720.4-3125	Source name
ra_targ	110.104167	Observer's specified target RA [deg]
dec_targ	-31.430444	Observer's specified target Dec [deg]
ra_nom	110.10007744684	Nominal RA [deg]
dec_nom	-31.422397916118	Nominal Dec [deg]
roll_nom	145.1355195179	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5118.5	Sum of GTIs [s]
livetime	5098.505859375	Livetime [s]
ontime7	5118.5	Sum of GTIs [s]
l2events	28411	Number of level 2 events



2 OBI

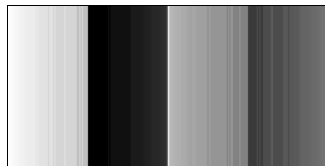
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5118.5	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	5118.5	Sum of GTIs [s]
date	2020-09-28T09:39:44	Date and time of file creation	l1events	41824	Number of level 1 events
revision	5	Processing version of data			

2.1.4 Events

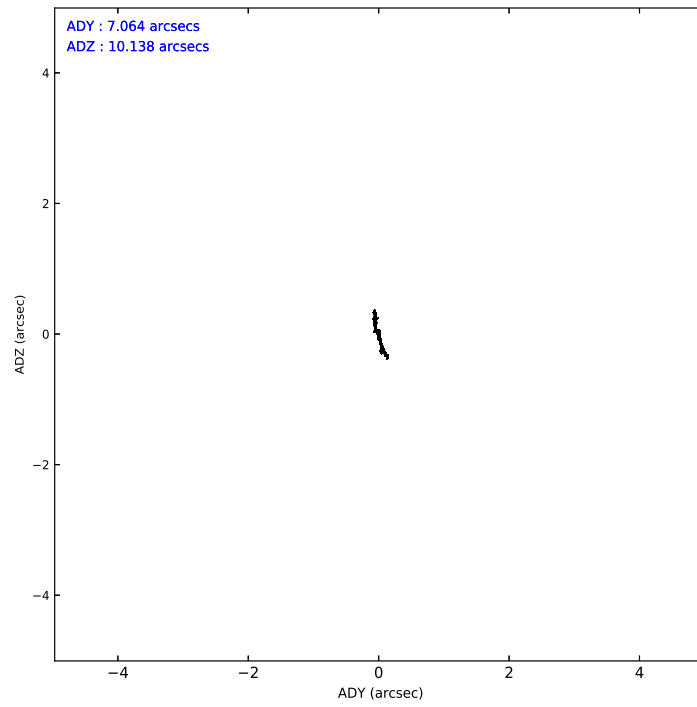
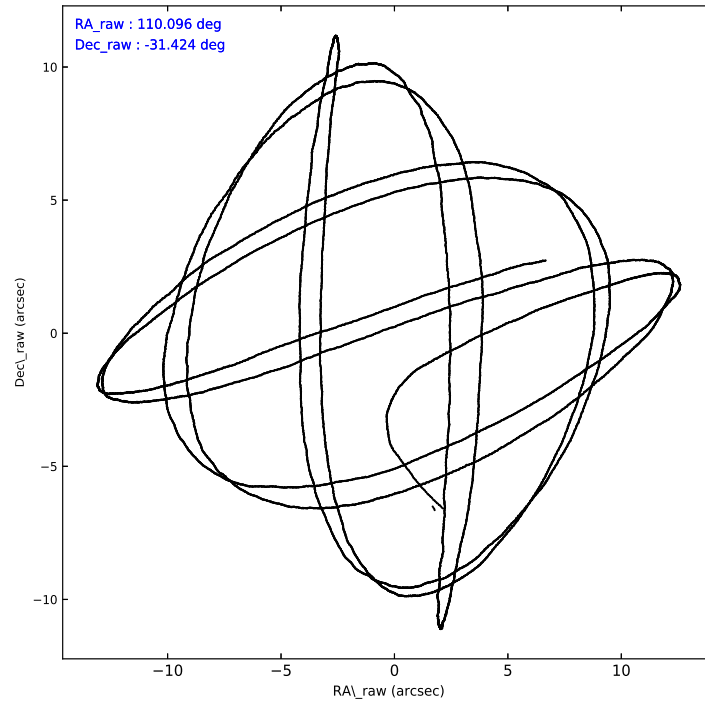
	ccd 7
level 1 events	41824
rejected events	12511
rejected %	29%

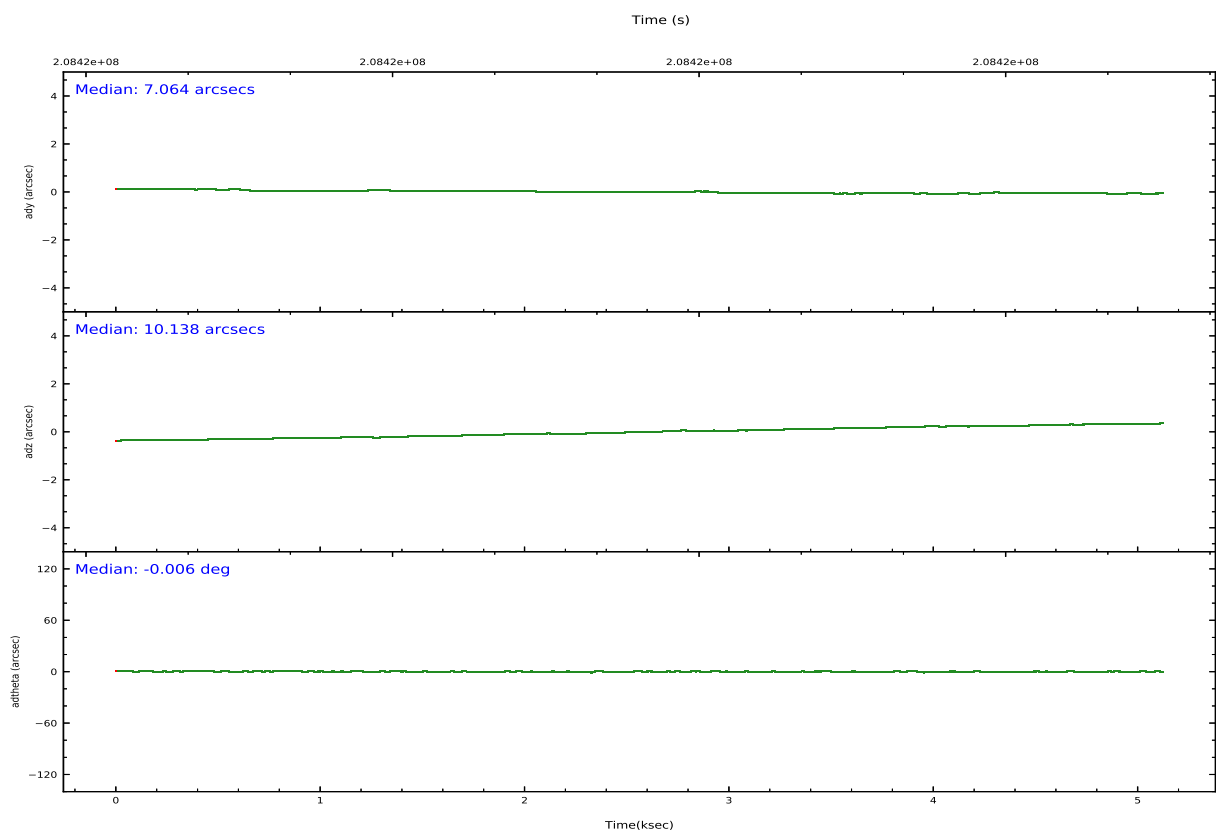
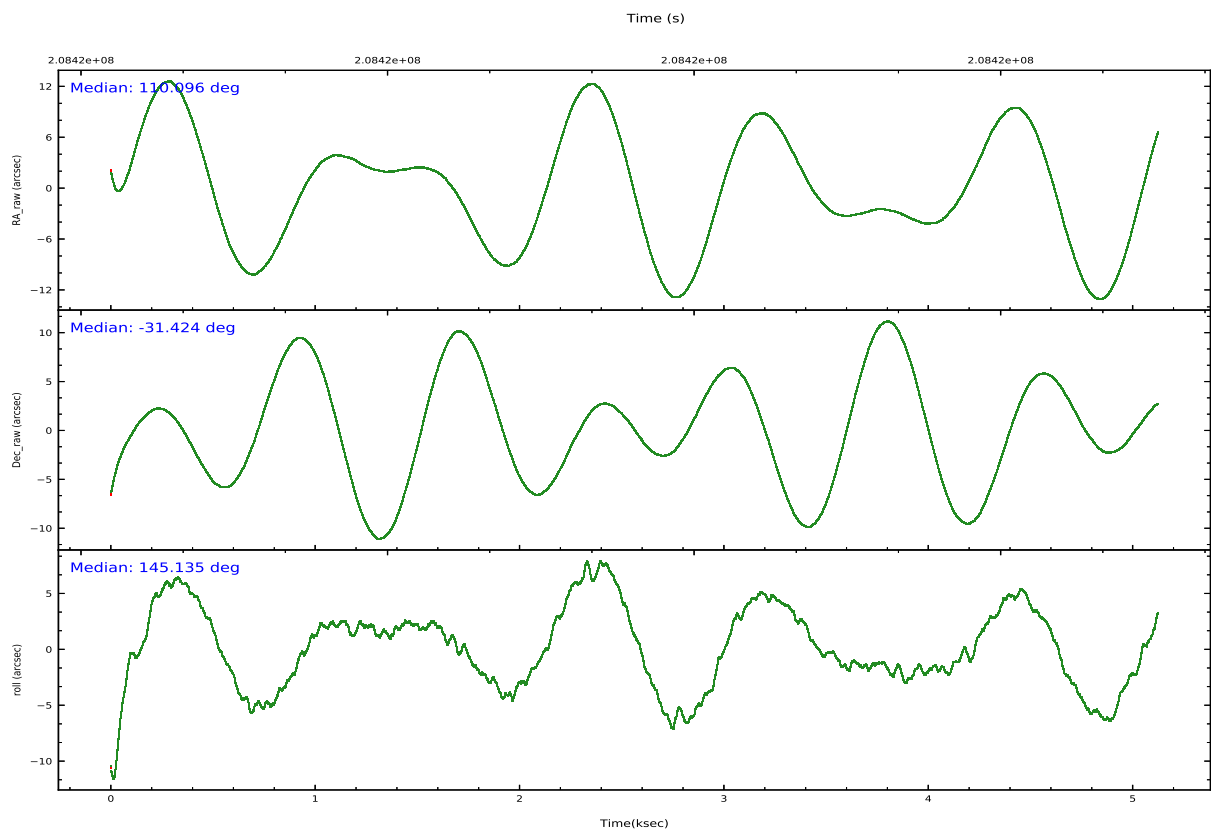
	ccd 7
grade 0 events	7965
	19%
grade 1 events	105
	0%
grade 2 events	8433
	20%
grade 3 events	2787
	6%
grade 4 events	2675
	6%
grade 5 events	5422
	12%
grade 6 events	14437
	34%
grade 7 events	0
	0%

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	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	110.127978	110.10007744684	Subarray requested	NONE	NONE
[deg] Pointing Dec	-31.425548	-31.422397916118	Alternating exposures requested	N	N
[deg] Pointing Roll	144.997790	145.1355195179	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	208415770.184000	208413915.52686			
Observation start date	2004-08-09T05:15:06	2004-08-09T04:45:15			
[s] Observation end time (MET)	208420770.184000	208422025.32722			
Observation end date	2004-08-09T06:38:26	2004-08-09T07:00:25			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



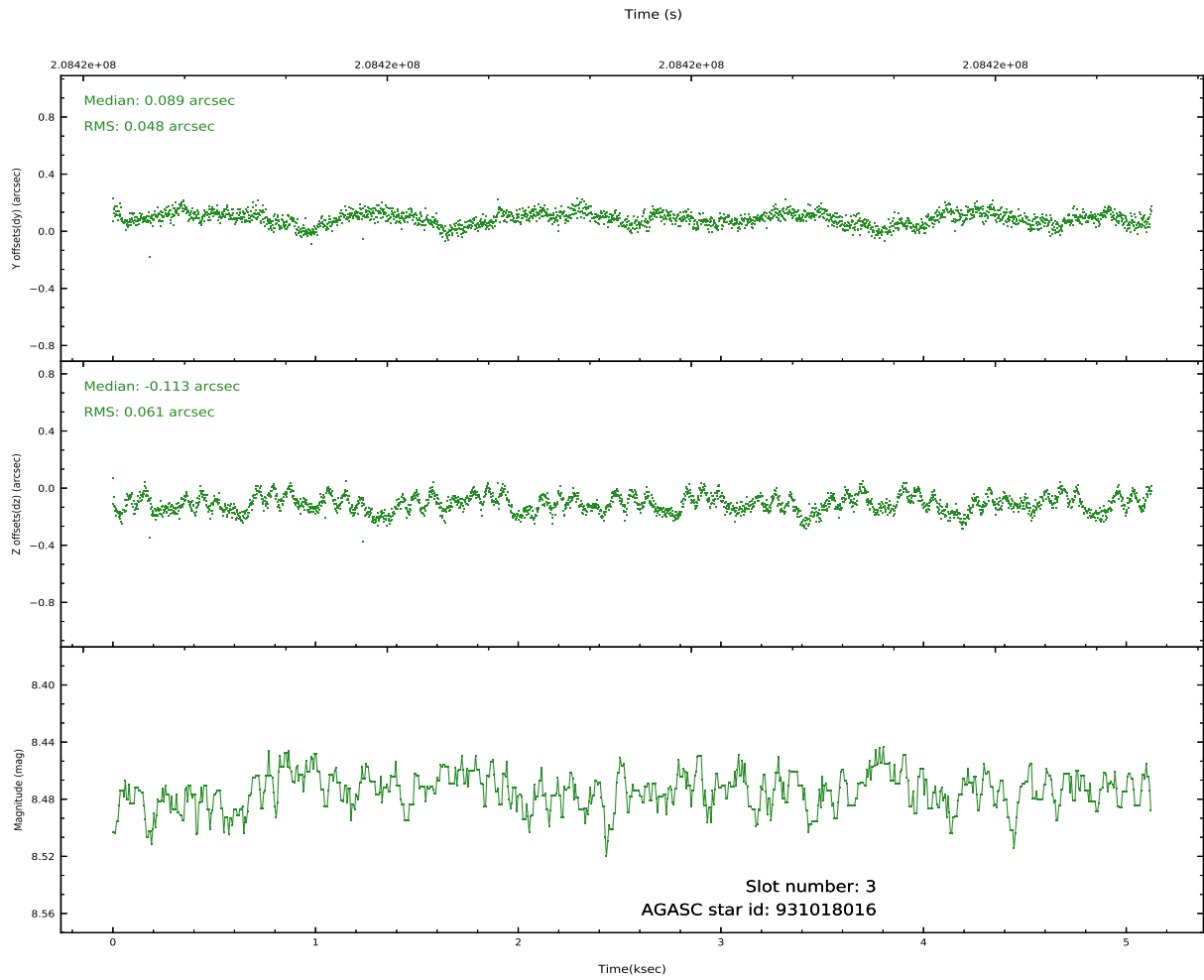
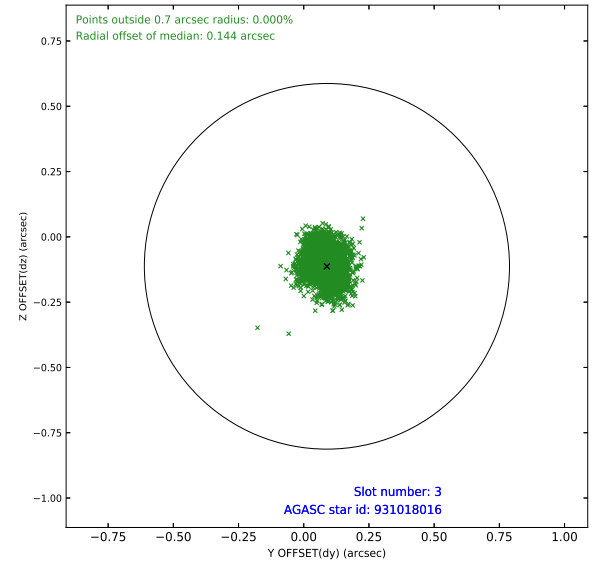
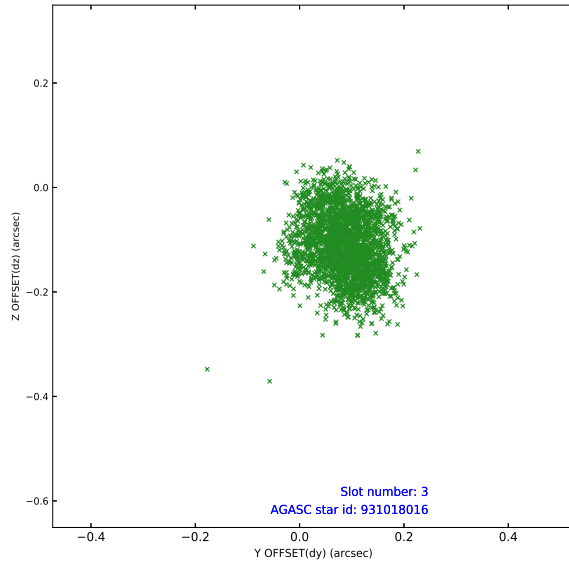


Slot Statistics

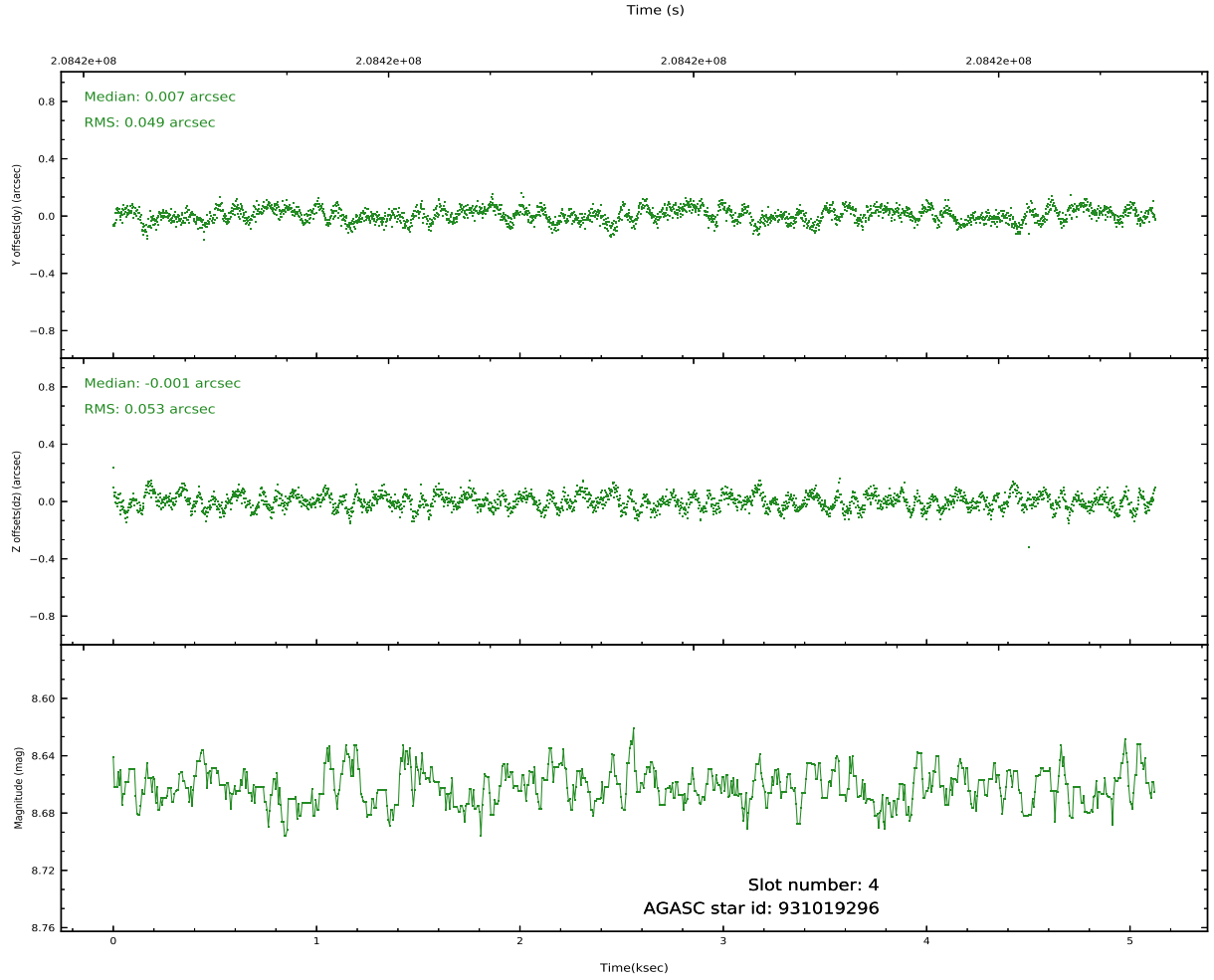
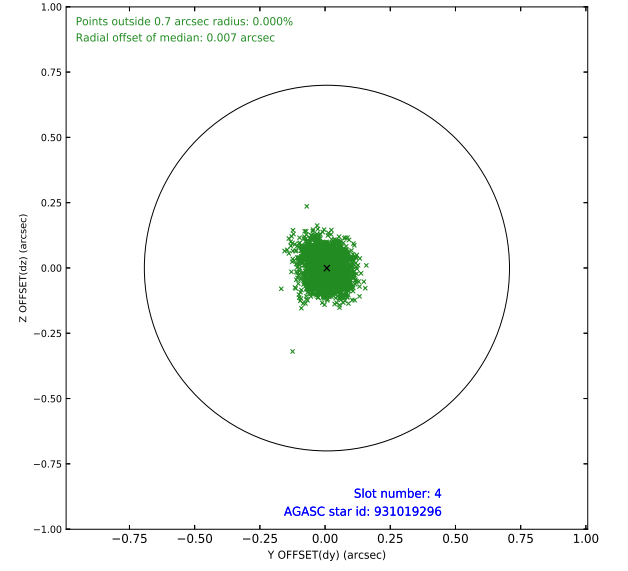
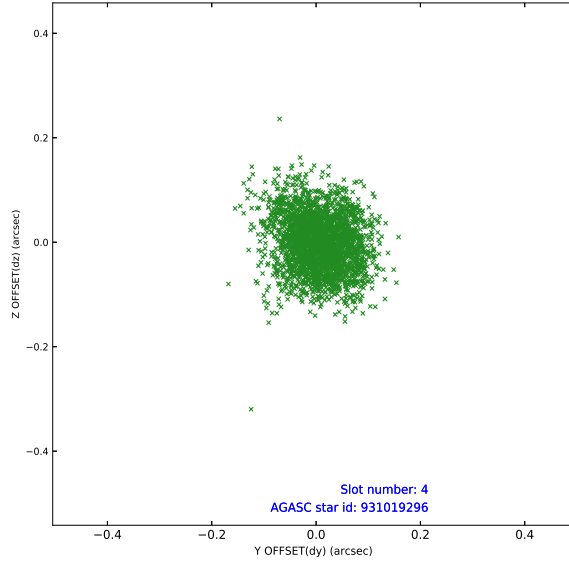
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1251	1.000	-0.086	-0.059	0.008	0.013	0.000000	0.000000	-759.84	-1731
1	FID		ACIS-S-4	7.20	1251	1.000	0.149	0.057	0.006	0.012	0.000000	0.000000	2153.06	176
2	FID		ACIS-S-5	7.23	1250	1.000	-0.094	0.010	0.009	0.016	0.000000	0.000000	-1811.24	170
3	GUIDE	used	931018016	8.47	2501	1.000	0.089	-0.113	0.084	0.129	109.684535	-31.226562	1527.80	198
4	GUIDE	used	931019296	8.66	2501	1.000	0.007	-0.001	0.077	0.122	109.471771	-31.694370	1088.44	1951
5	GUIDE	used	931160352	8.62	2501	1.000	0.009	0.084	0.073	0.117	110.268138	-30.864891	803.88	-1900
6	GUIDE	used	931163512	8.45	2501	1.000	-0.016	0.026	0.068	0.109	110.894384	-31.299941	-1675.69	-1716
7	GUIDE	used	931022960	8.95	2497	1.000	-0.092	0.008	0.079	0.127	109.733092	-31.864448	80.62	1987

2.4 Star Slots

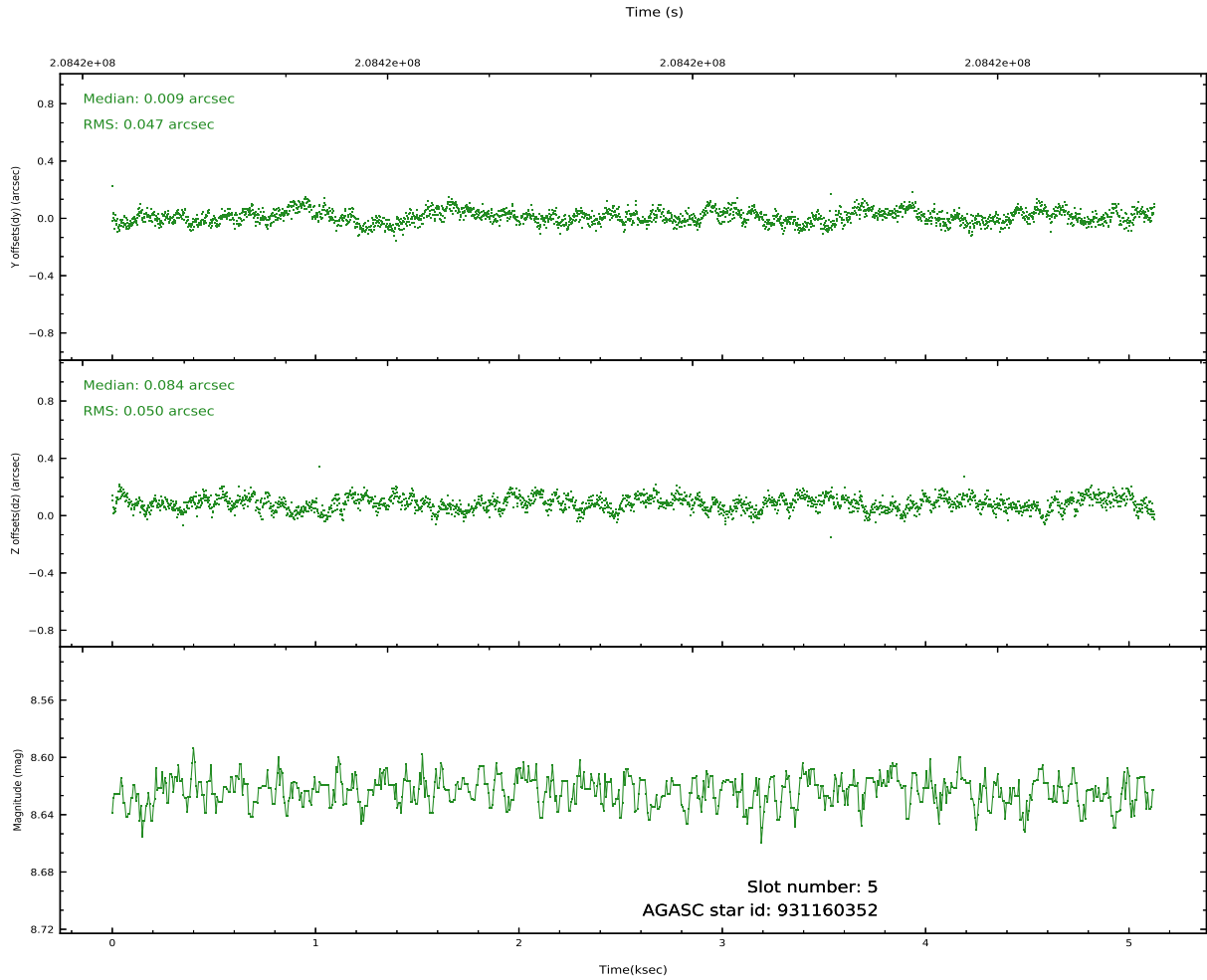
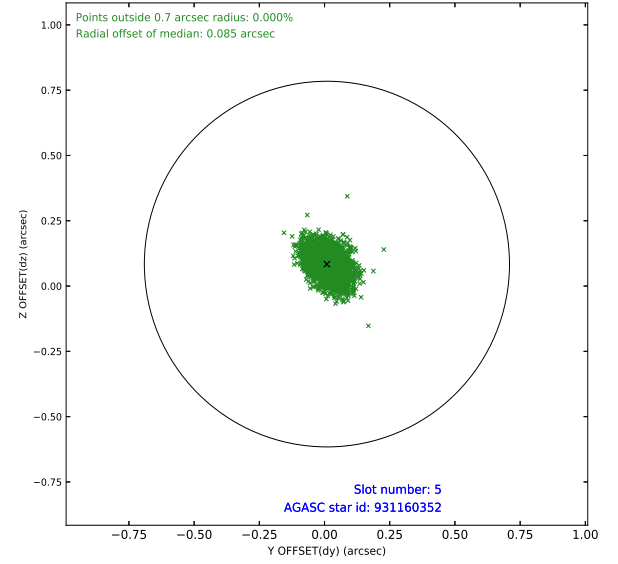
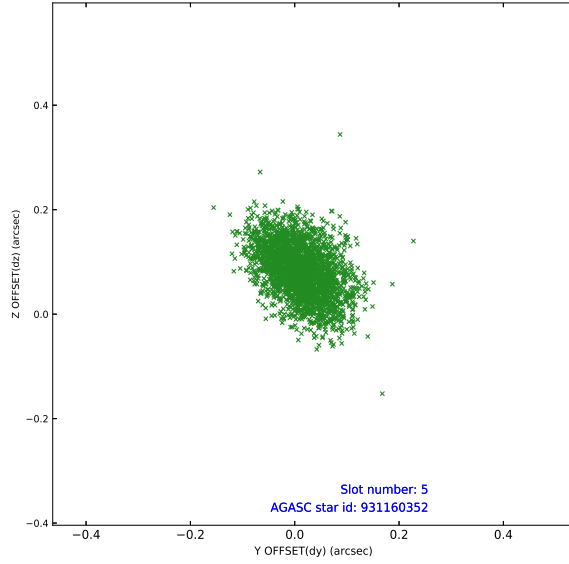
2.4.1 Slot 3



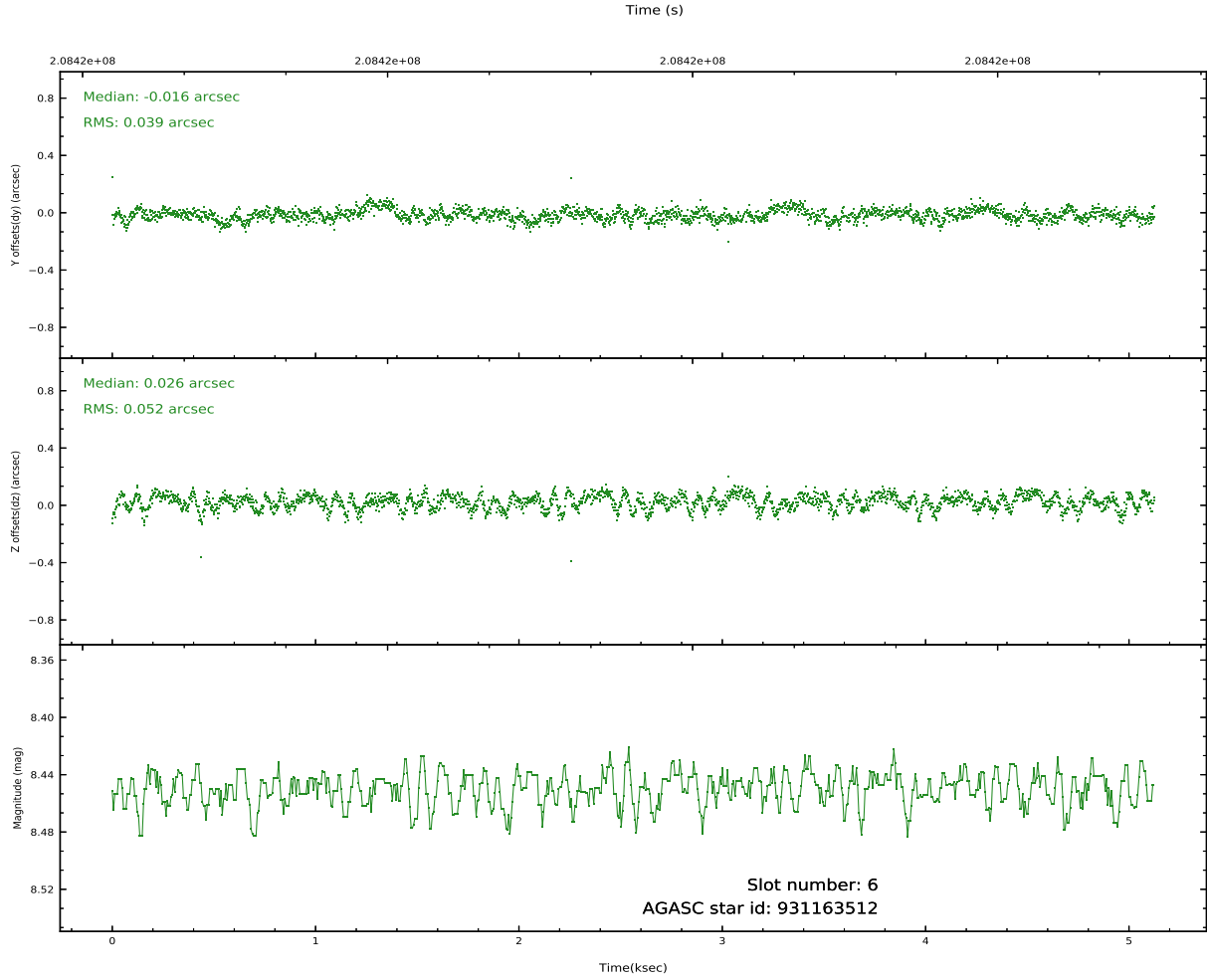
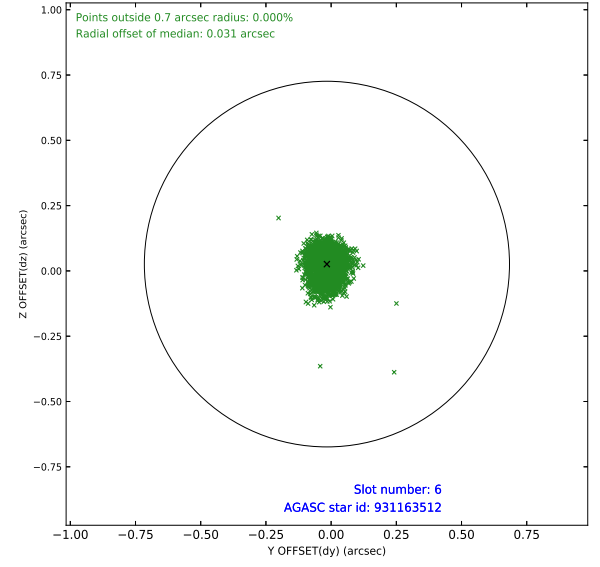
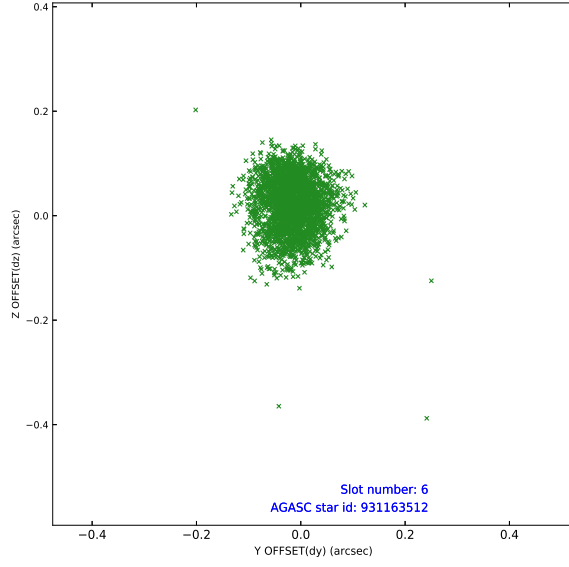
2.4.2 Slot 4



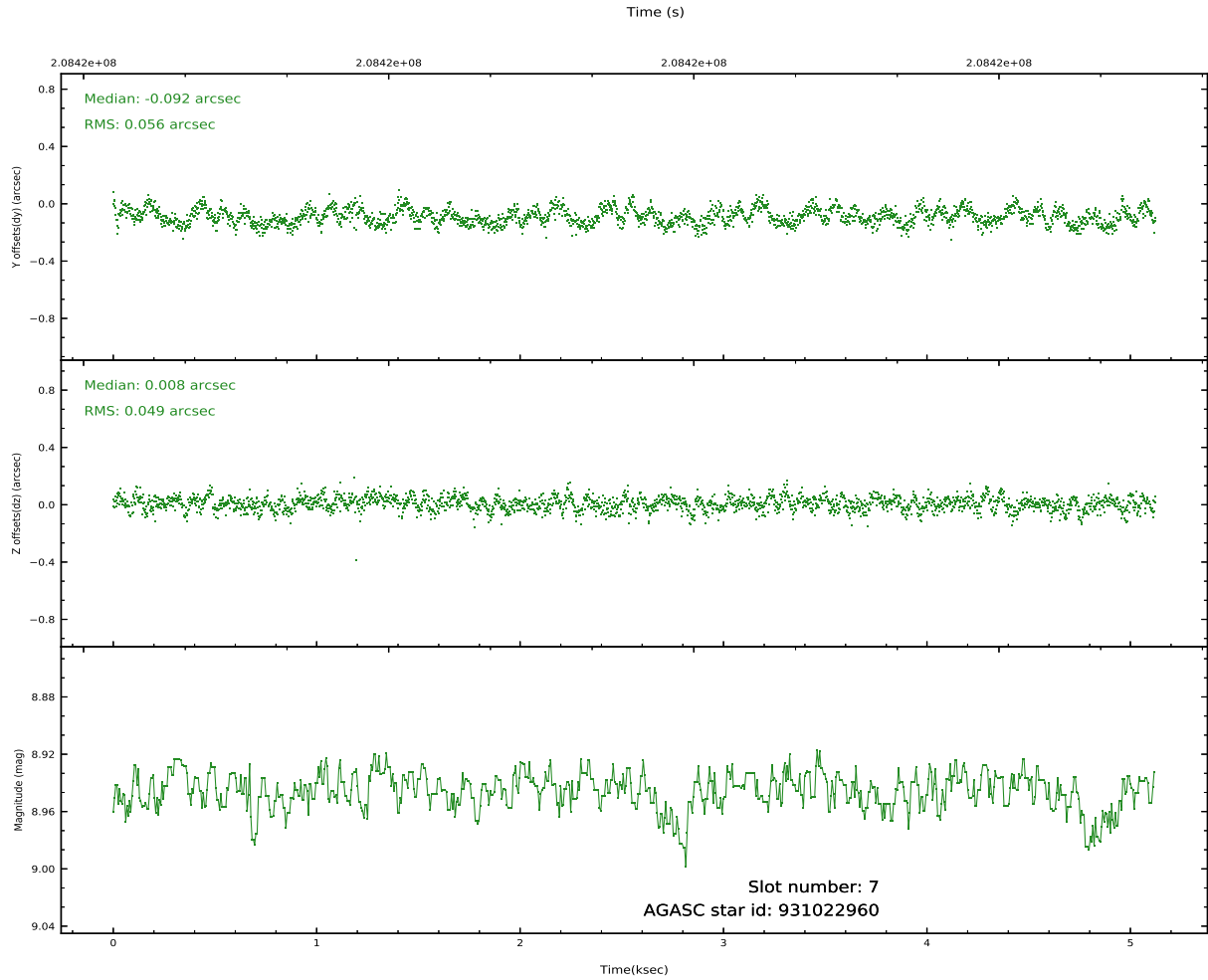
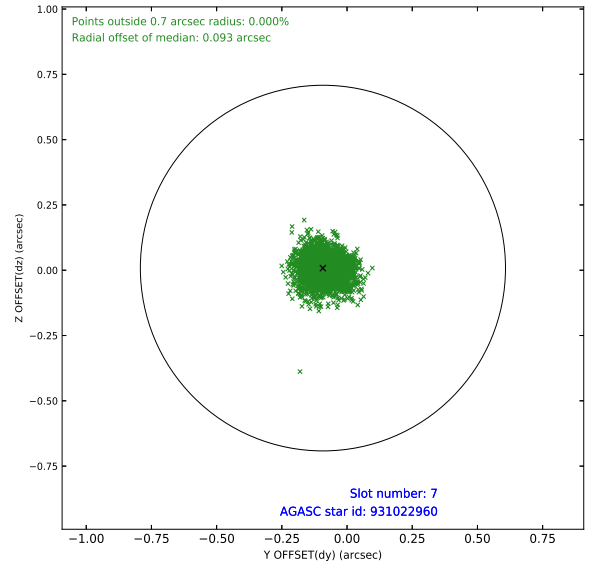
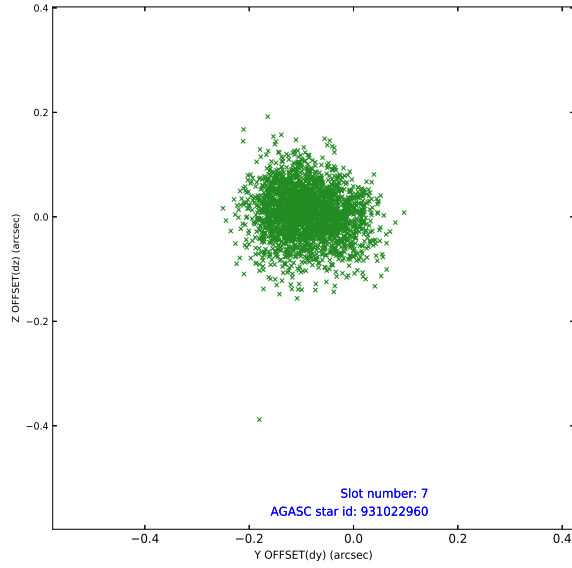
2.4.3 Slot 5



2.4.4 Slot 6

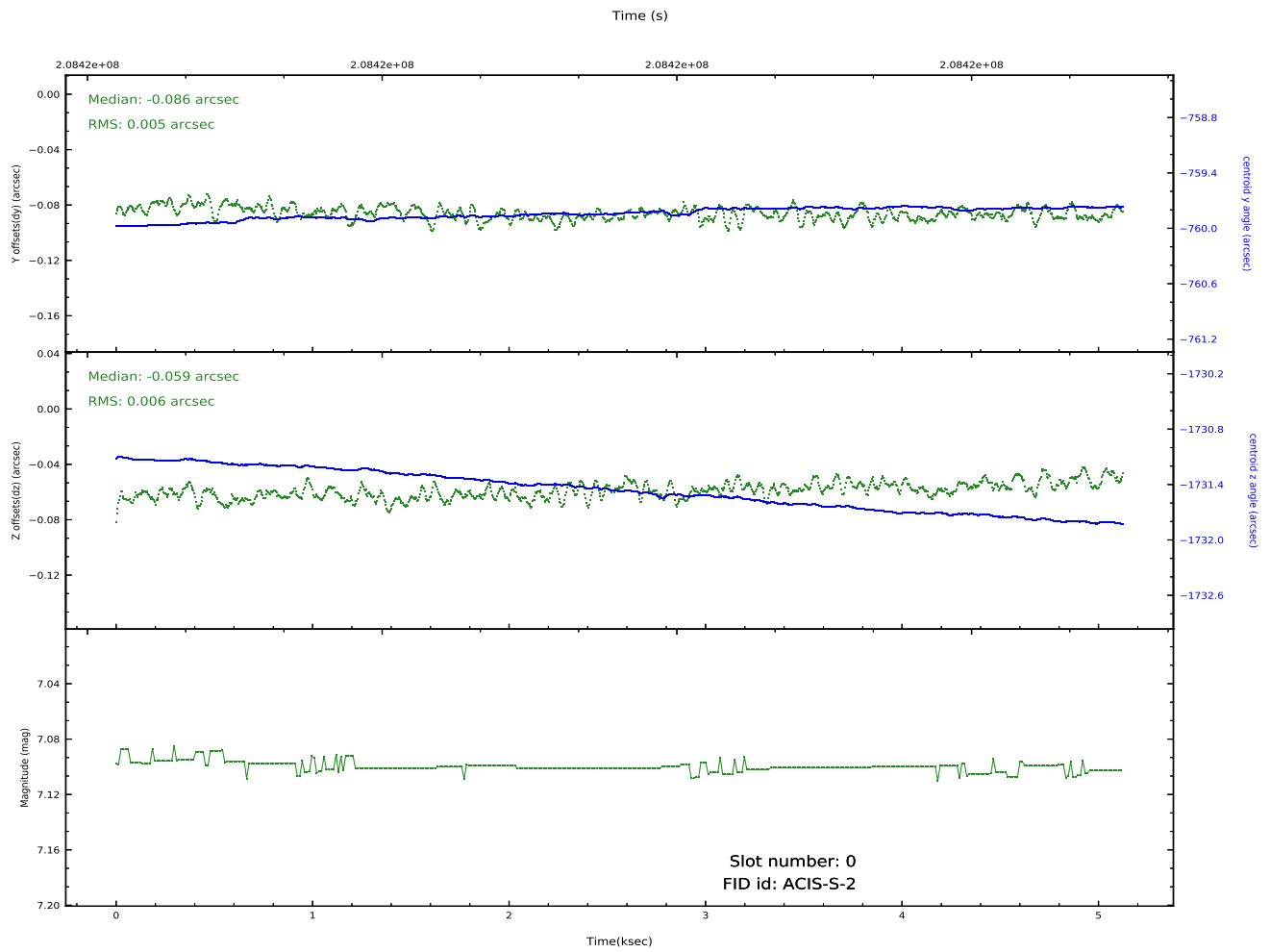
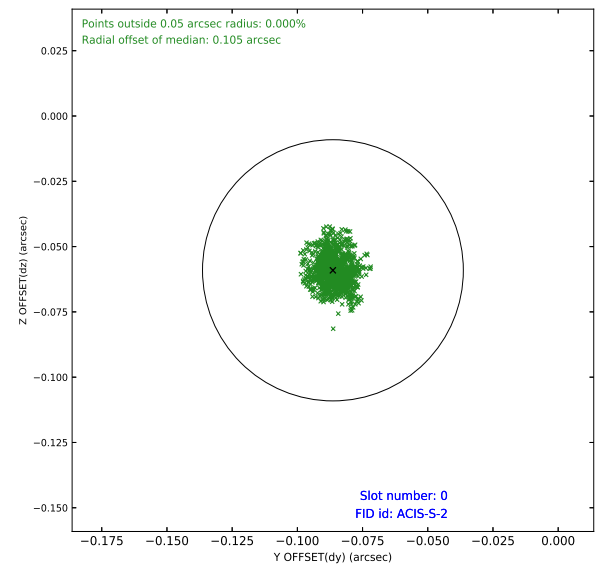
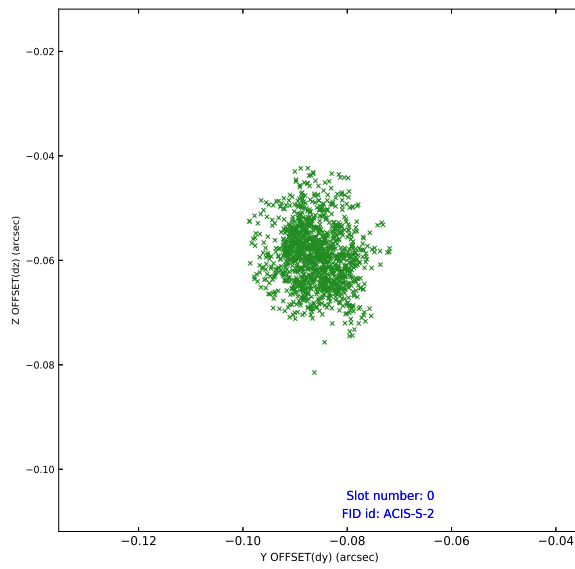


2.4.5 Slot 7

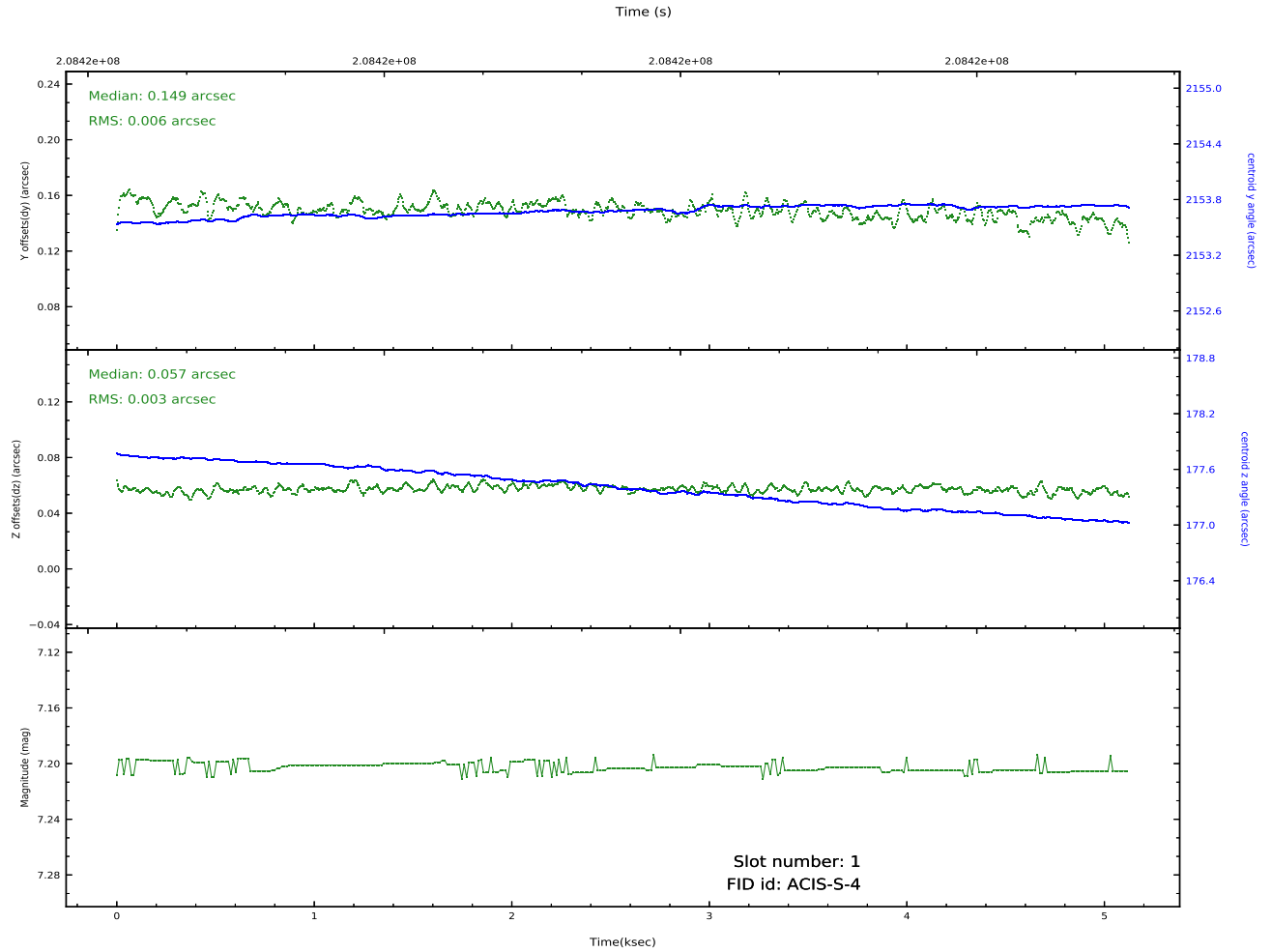
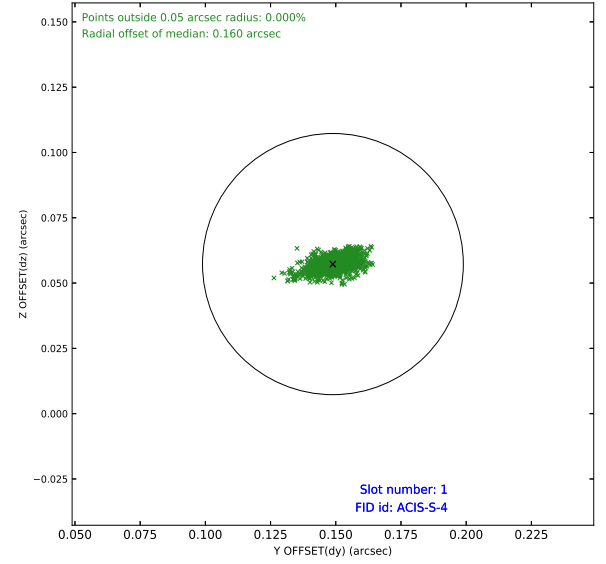
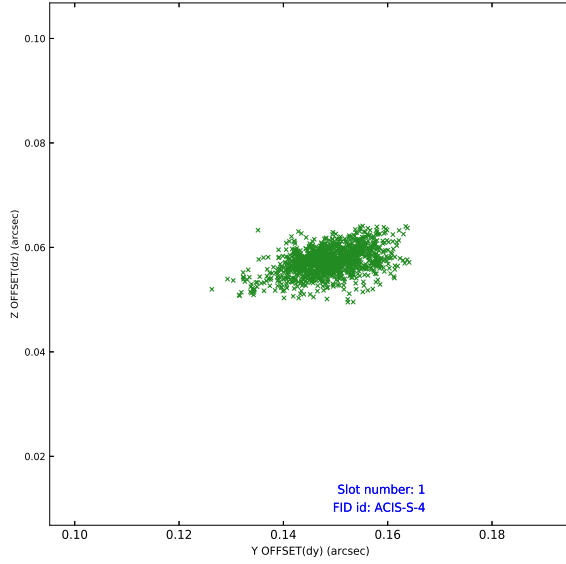


2.5 FID Slots

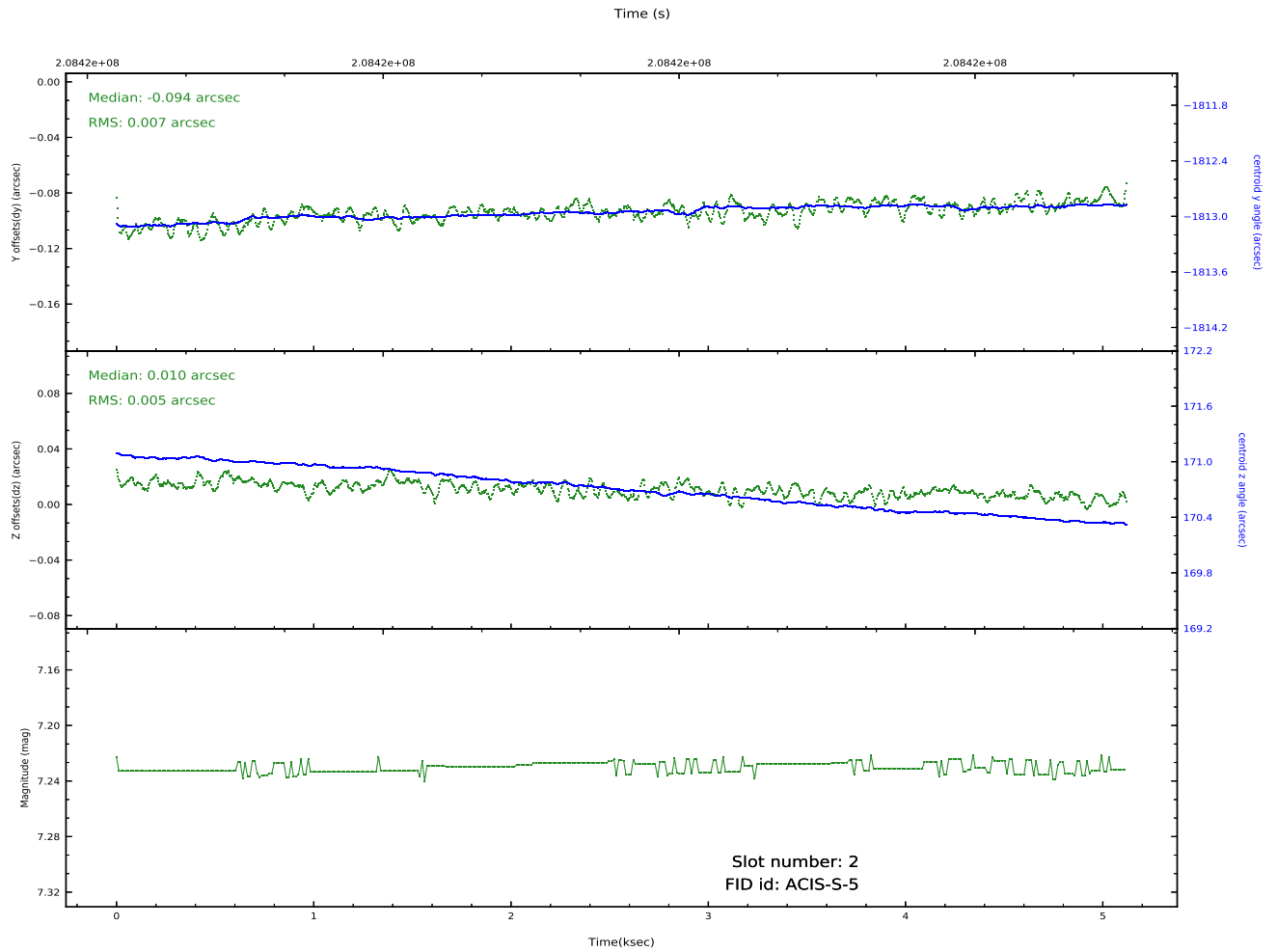
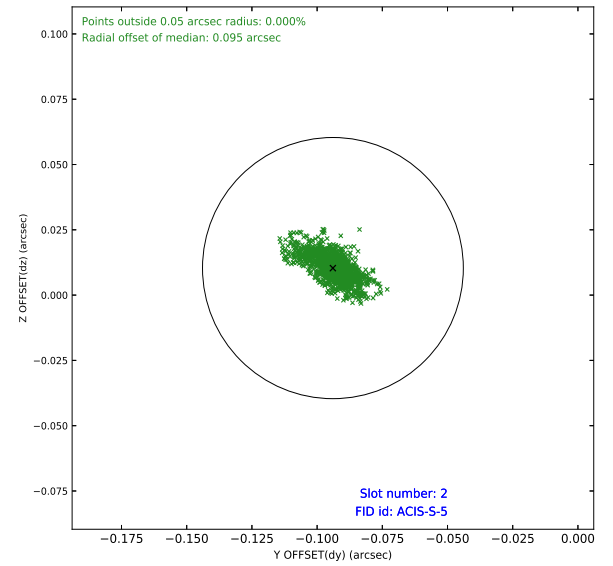
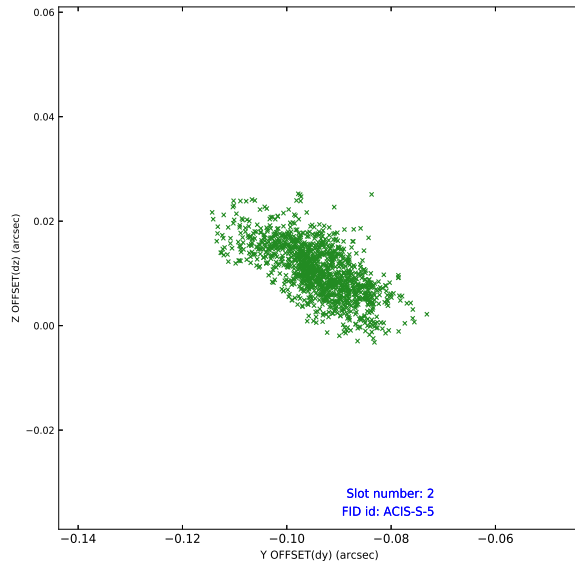
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Principe
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.122

A.2 Comments