

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5526 - L2 Version 5
Chandra X-Ray Center

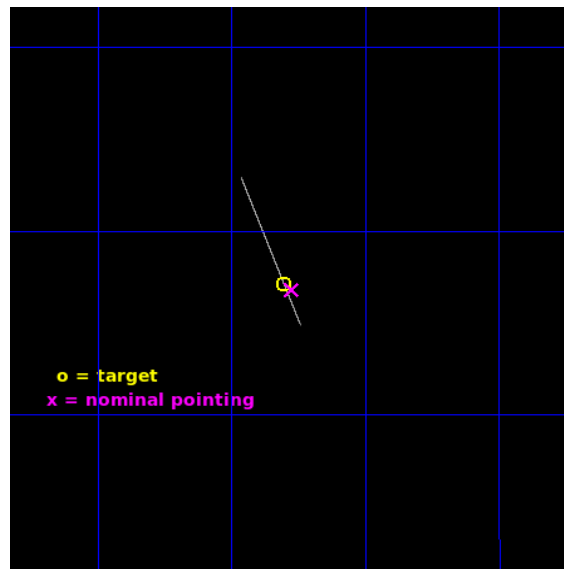
L2 Processing Date : Oct 9 2020

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1 Front

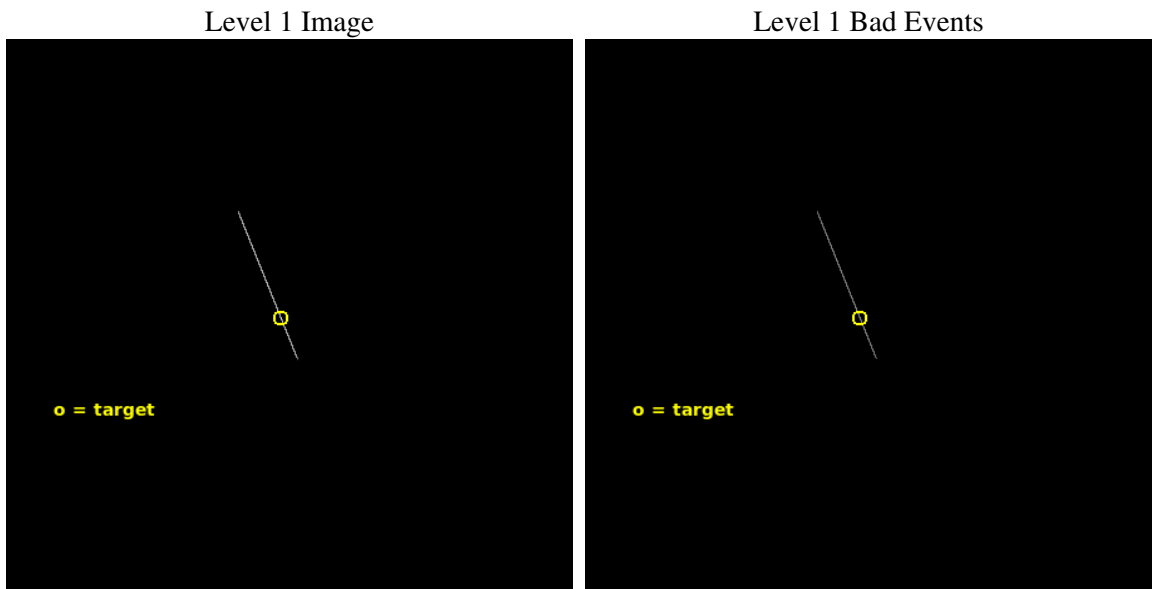
seq_num	500520	Sequence number
obs_id	5526	Observation id
title	Timing the Enigmatic Nearby Neutron Star RX J1308.8+2127	Proposal
observer	Prof. David Kaplan	Principal investigator
object	RX J1308.8+2127	Source name
ra_targ	197.20125	Observer's specified target RA [deg]
dec_targ	21.451889	Observer's specified target Dec [deg]
ra_nom	197.19349731614	Nominal RA [deg]
dec_nom	21.446726331938	Nominal Dec [deg]
roll_nom	248.86244137643	Nominal Roll [deg]
revision	5	Processing version of data
ontime	15187.5	Sum of GTIs [s]
livetime	15128.173828125	Livetime [s]
ontime7	15187.5	Sum of GTIs [s]
l2events	70456	Number of level 2 events



2 OBI

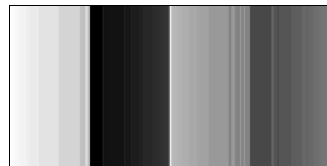
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	15187.5	Sum of GTIs [s]
caldbver	4.9.2	 	ontime7	15187.5	Sum of GTIs [s]
date	2020-10-09T07:22:05	Date and time of file creation	l1events	92362	Number of level 1 events
revision	5	Processing version of data			

2.1.4 Events

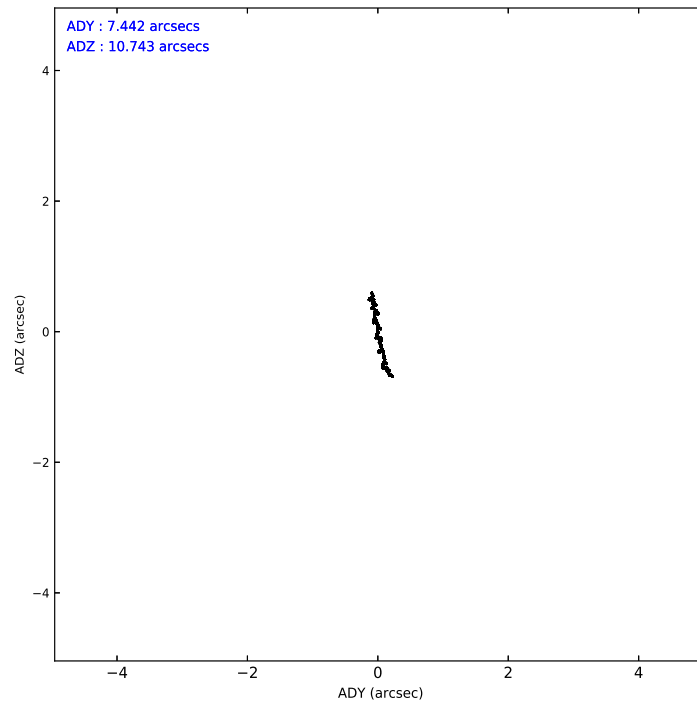
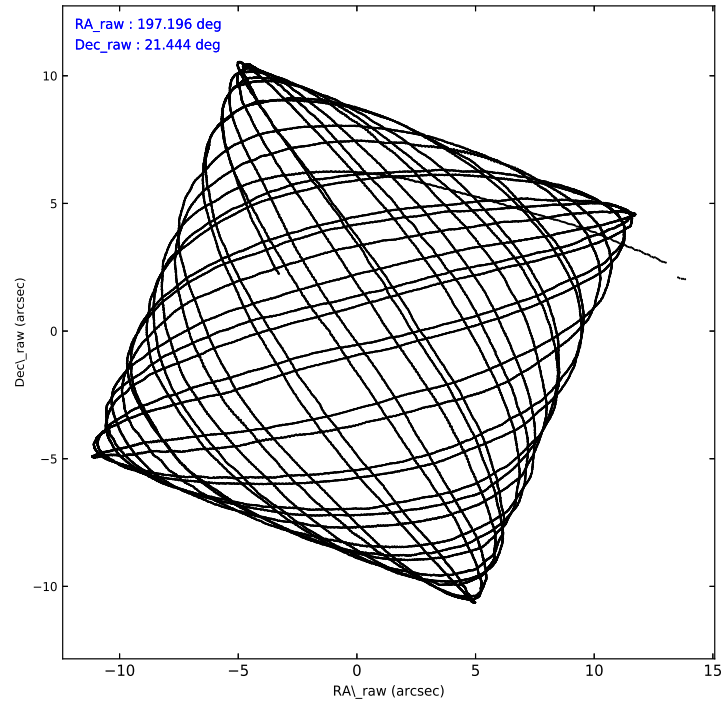
	ccd 7
level 1 events	92362
rejected events	18601
rejected %	20%

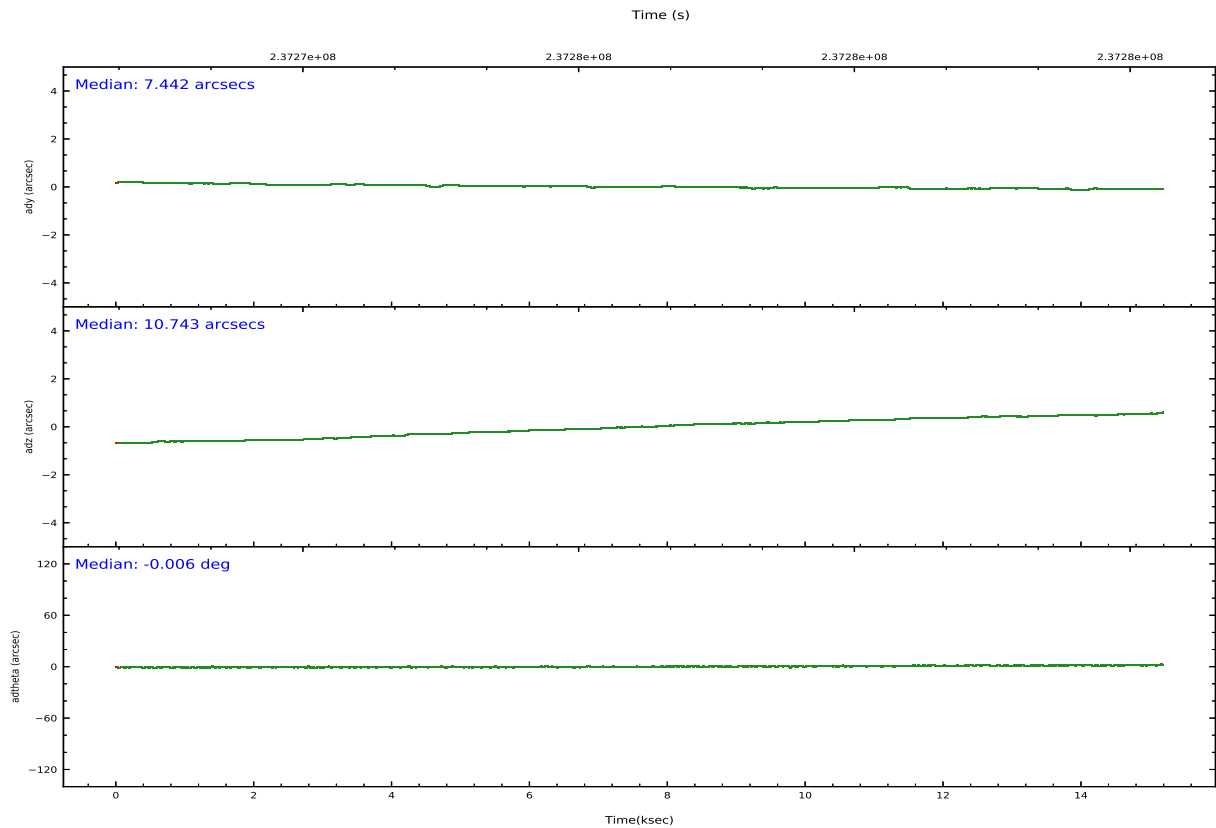
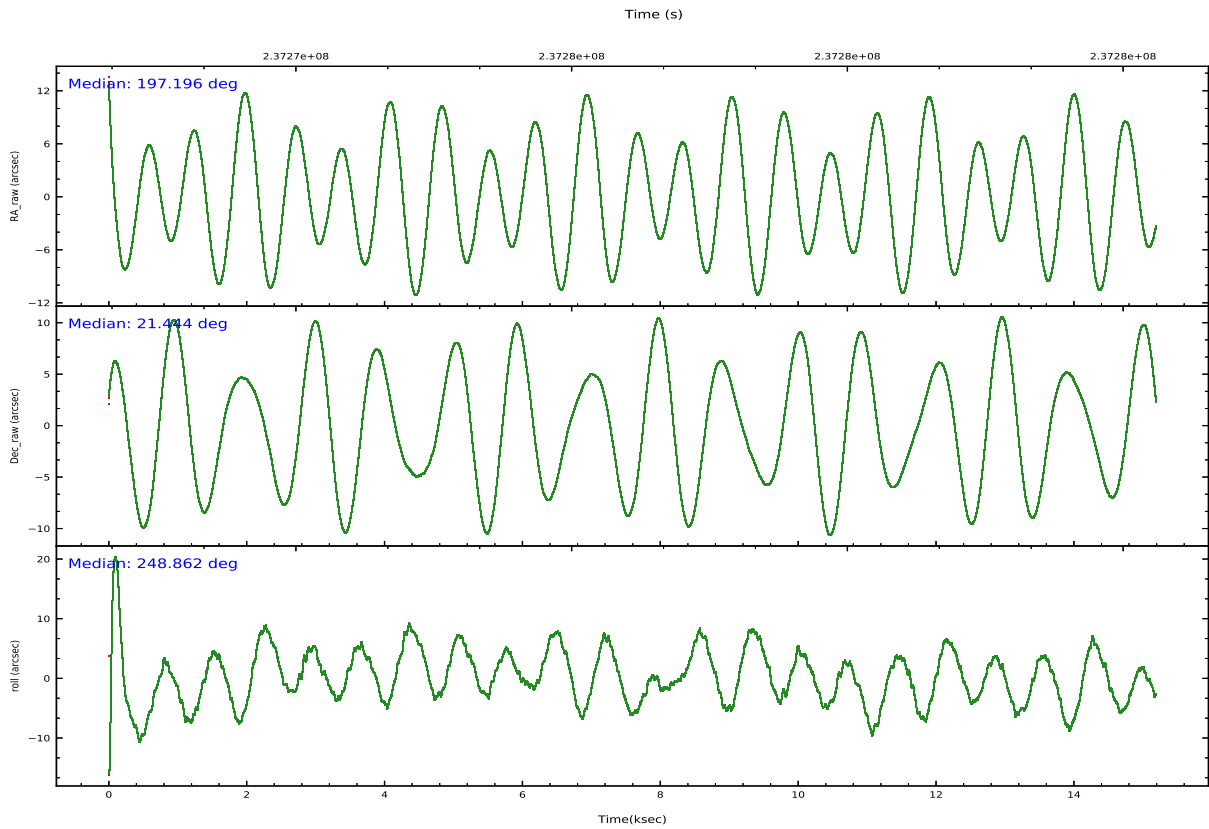
	ccd 7
grade 0 events	10511
	11%
grade 1 events	186
	0%
grade 2 events	19033
	20%
grade 3 events	5584
	6%
grade 4 events	5692
	6%
grade 5 events	14483
	15%
grade 6 events	36873
	39%
grade 7 events	0
	0%

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	197.190970	197.19349731614	Subarray requested	NONE	NONE
[deg] Pointing Dec	21.470467	21.446726331938	Alternating exposures requested	N	N
[deg] Pointing Roll	248.703766	248.86244137643	[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)	237269480.184000	237268367.92921			
Observation start date	2005-07-09T04:10:16	2005-07-09T03:52:47			
[s] Observation end time (MET)	237284480.184000	237286017.40502			
Observation end date	2005-07-09T08:20:16	2005-07-09T08:46:57			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



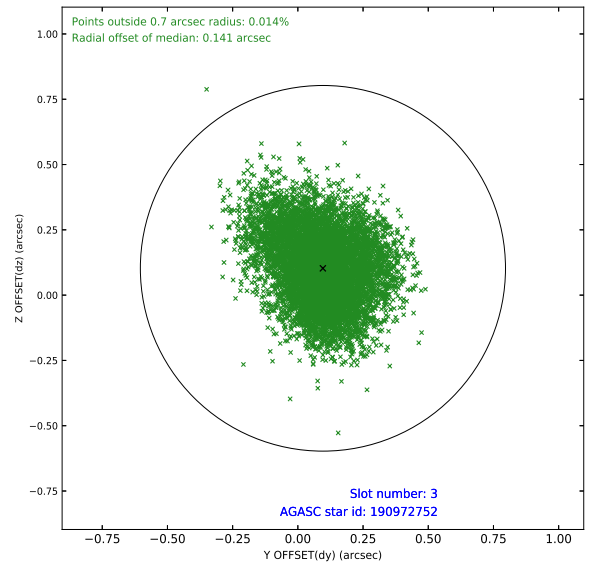
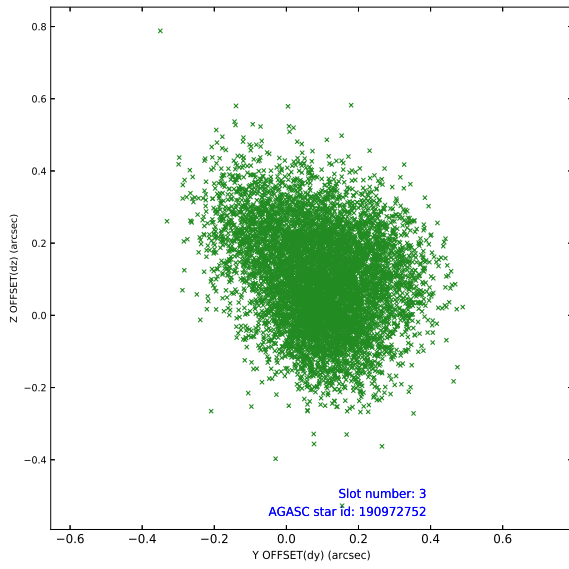


Slot Statistics

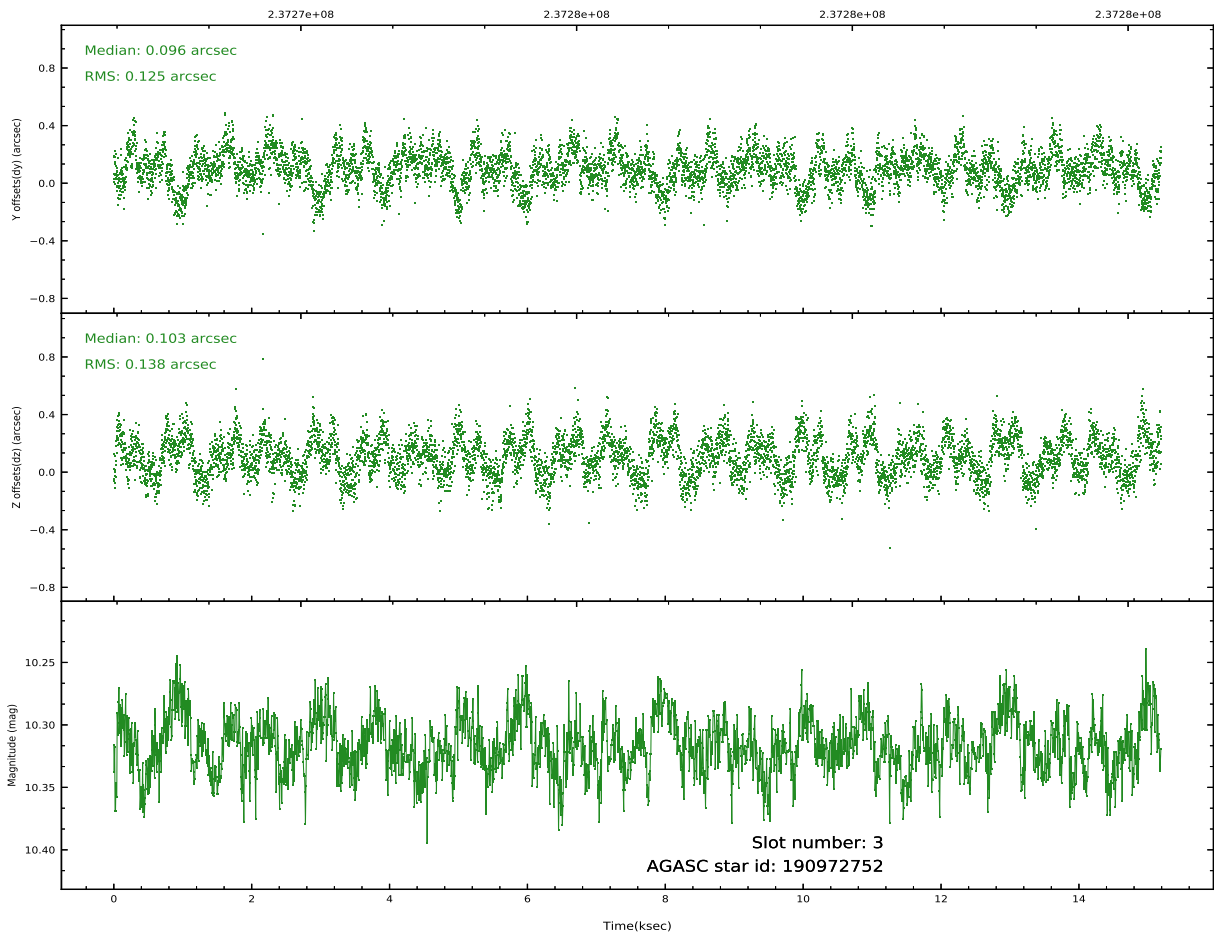
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	3706	1.000	-0.077	-0.055	0.007	0.013	0.000000	0.000000	-760.24	-1732
1	FID		ACIS-S-4	7.21	3705	1.000	0.156	0.052	0.010	0.016	0.000000	0.000000	2153.07	176
2	FID		ACIS-S-5	7.23	3706	1.000	-0.108	0.012	0.010	0.018	0.000000	0.000000	-1812.80	170
3	GUIDE	used	190972752	10.32	7398	1.000	0.096	0.103	0.200	0.318	197.567107	21.351082	-58.95	1330
4	GUIDE	used	190973928	9.81	7397	1.000	-0.032	-0.031	0.168	0.274	197.904188	21.564389	-1187.47	2100
5	GUIDE	used	190979840	10.35	7395	1.000	0.158	-0.114	0.169	0.266	197.337465	20.846267	1914.45	1276
6	GUIDE	used	190974376	6.79	7412	1.000	-0.342	-0.010	0.059	0.098	197.884749	21.918670	-2349.76	1571
7	GUIDE	used	190977688	7.90	7410	1.000	0.127	0.044	0.079	0.129	197.454100	20.653773	2416.72	1894

2.4 Star Slots

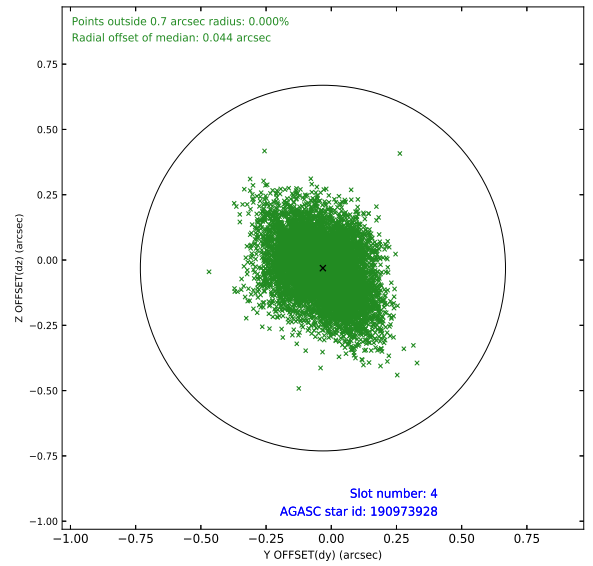
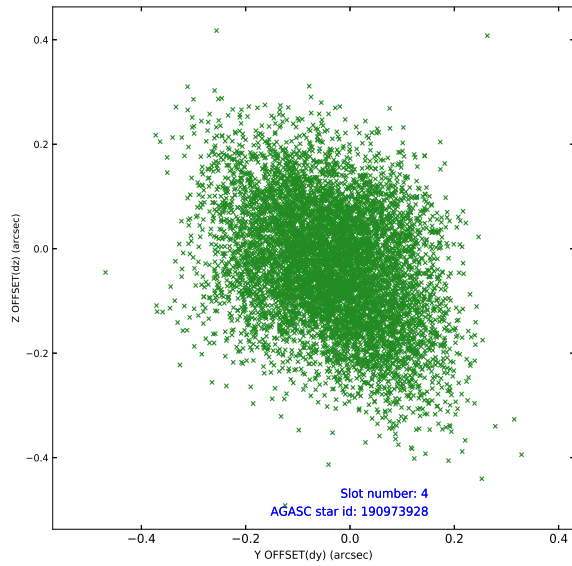
2.4.1 Slot 3



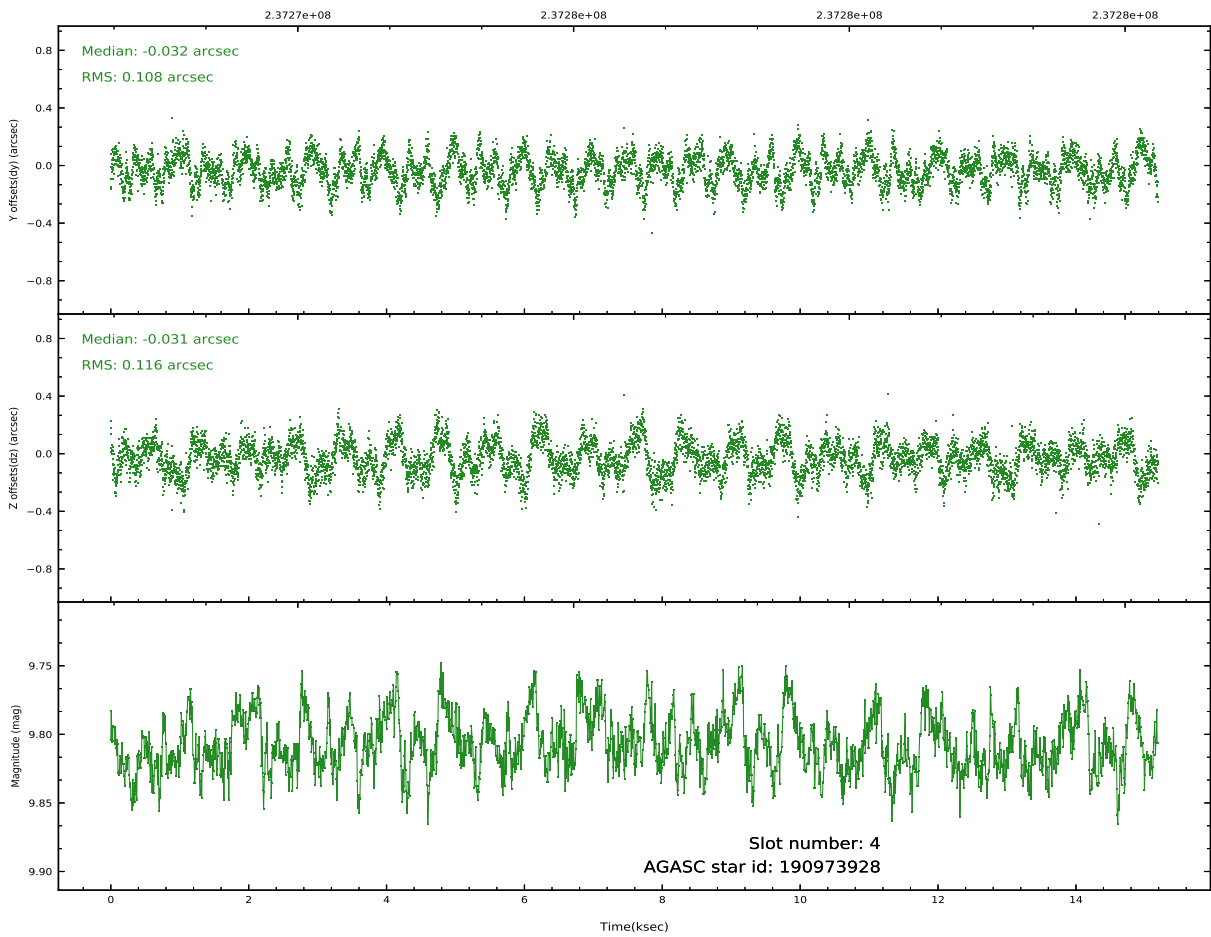
Time (s)



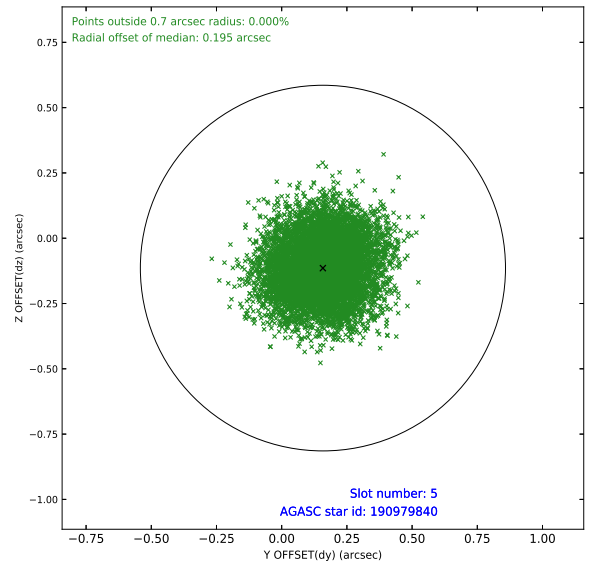
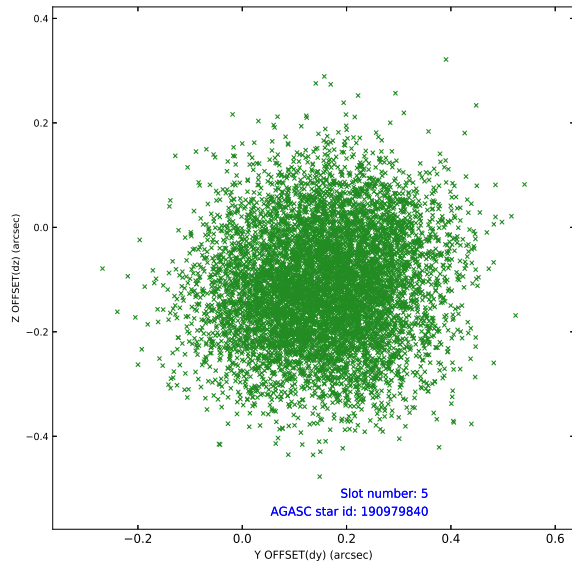
2.4.2 Slot 4



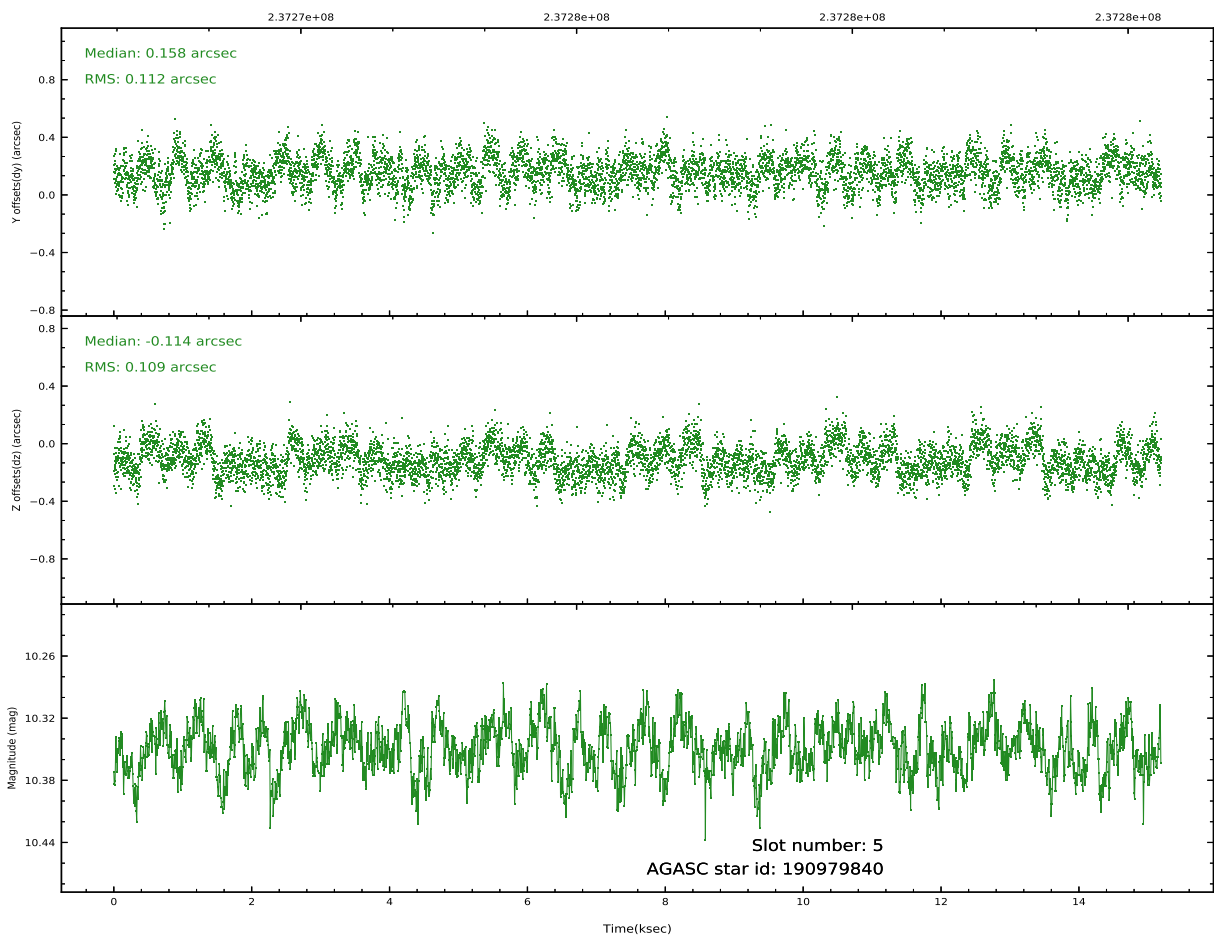
Time (s)



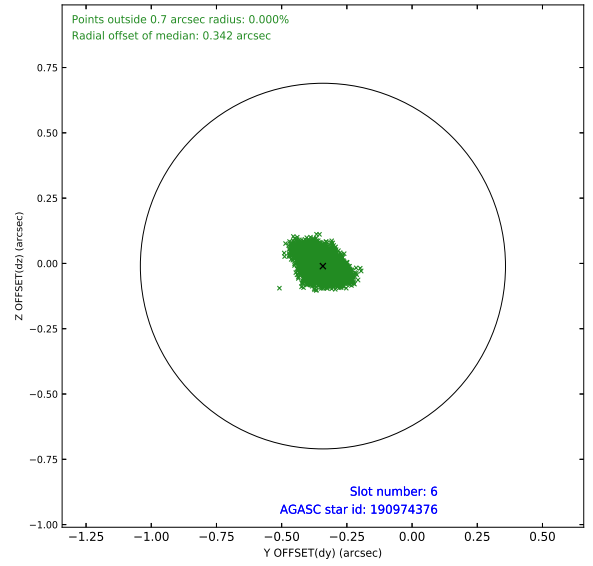
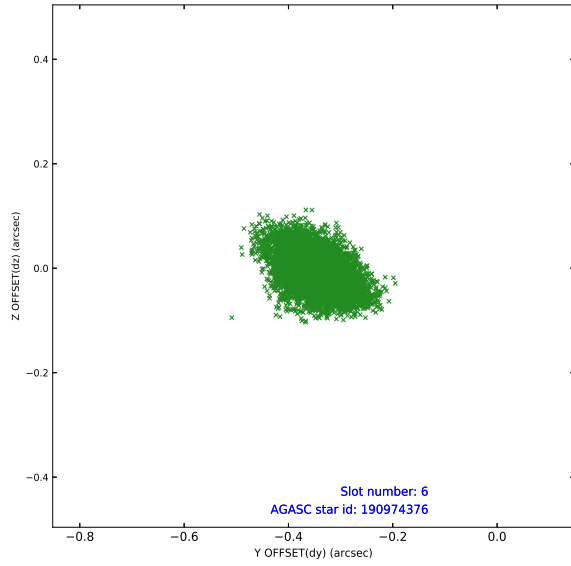
2.4.3 Slot 5



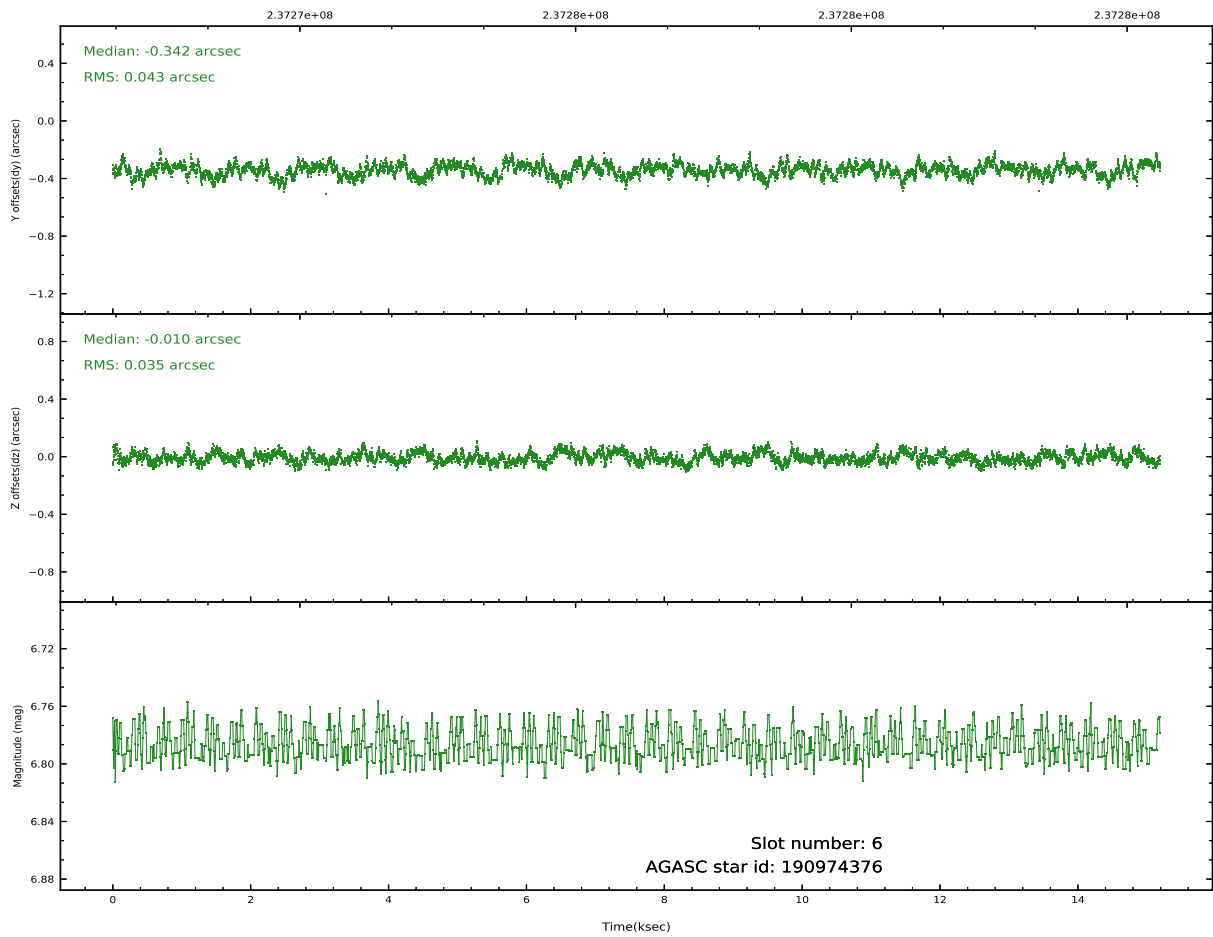
Time (s)



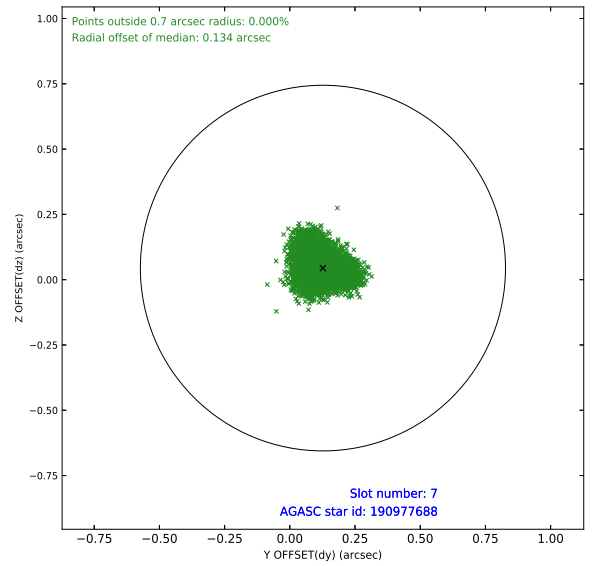
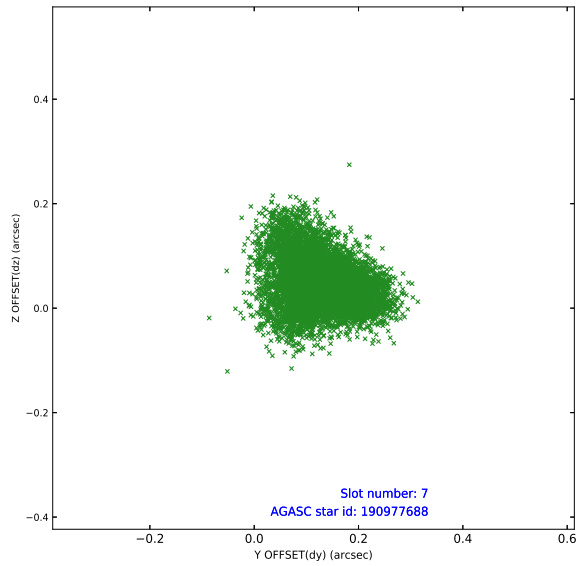
2.4.4 Slot 6



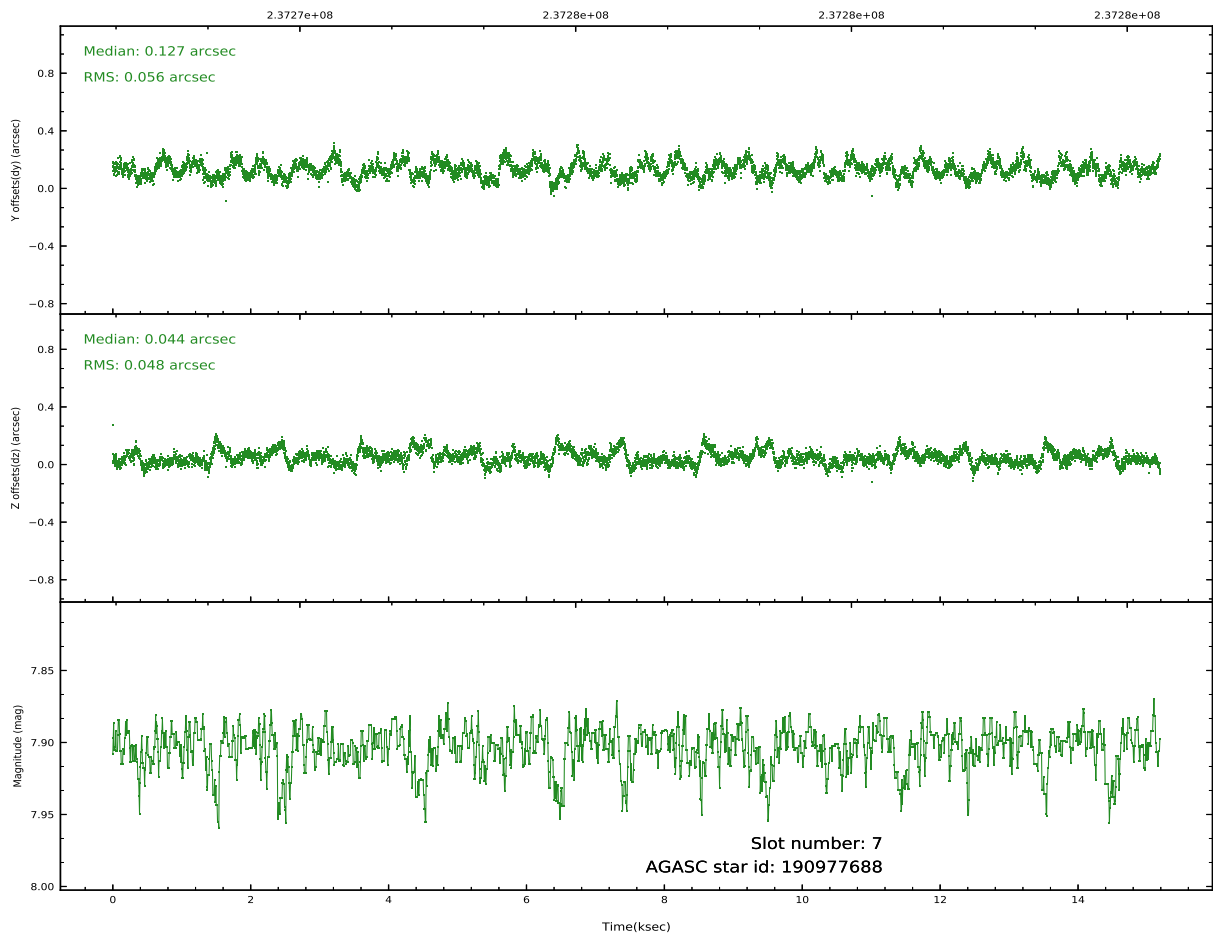
Time (s)



2.4.5 Slot 7

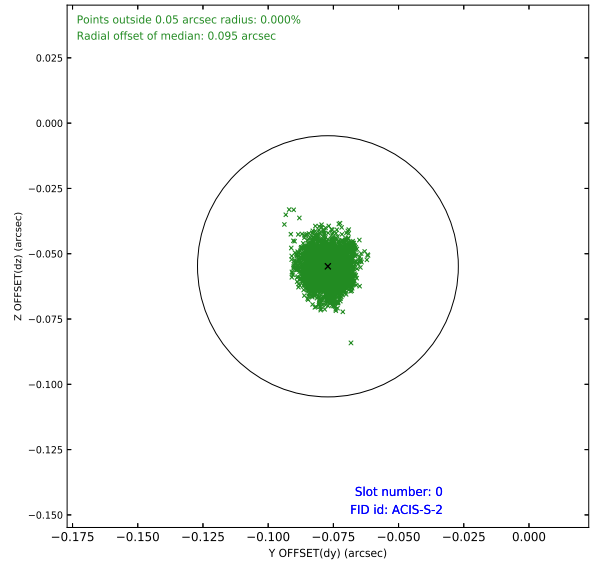
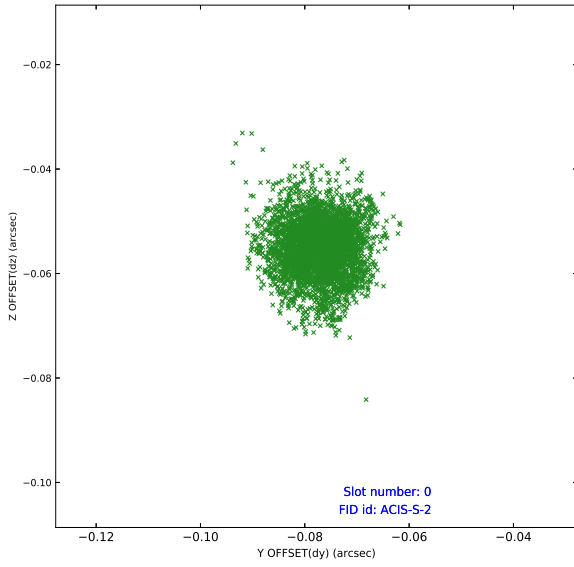


Time (s)

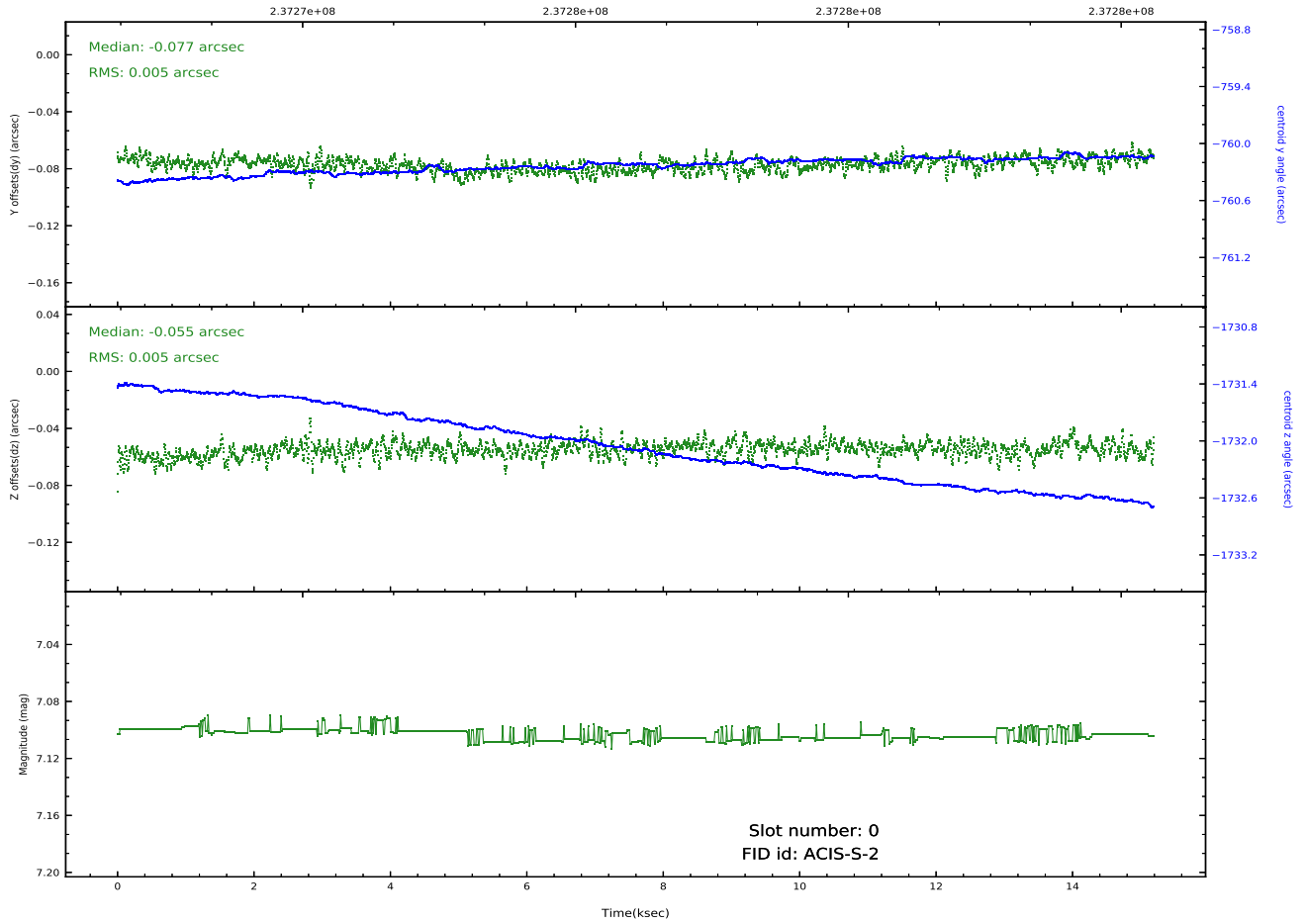


2.5 FID Slots

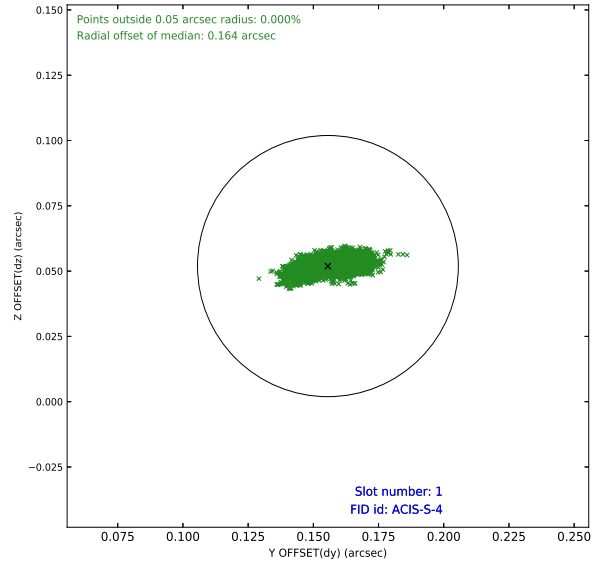
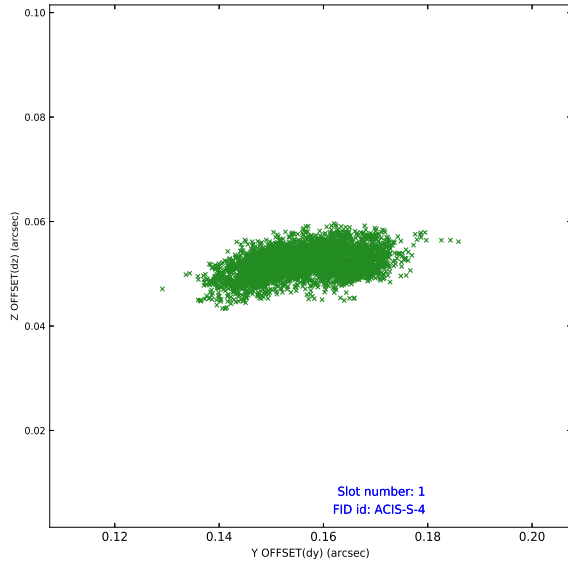
2.5.1 Slot 0



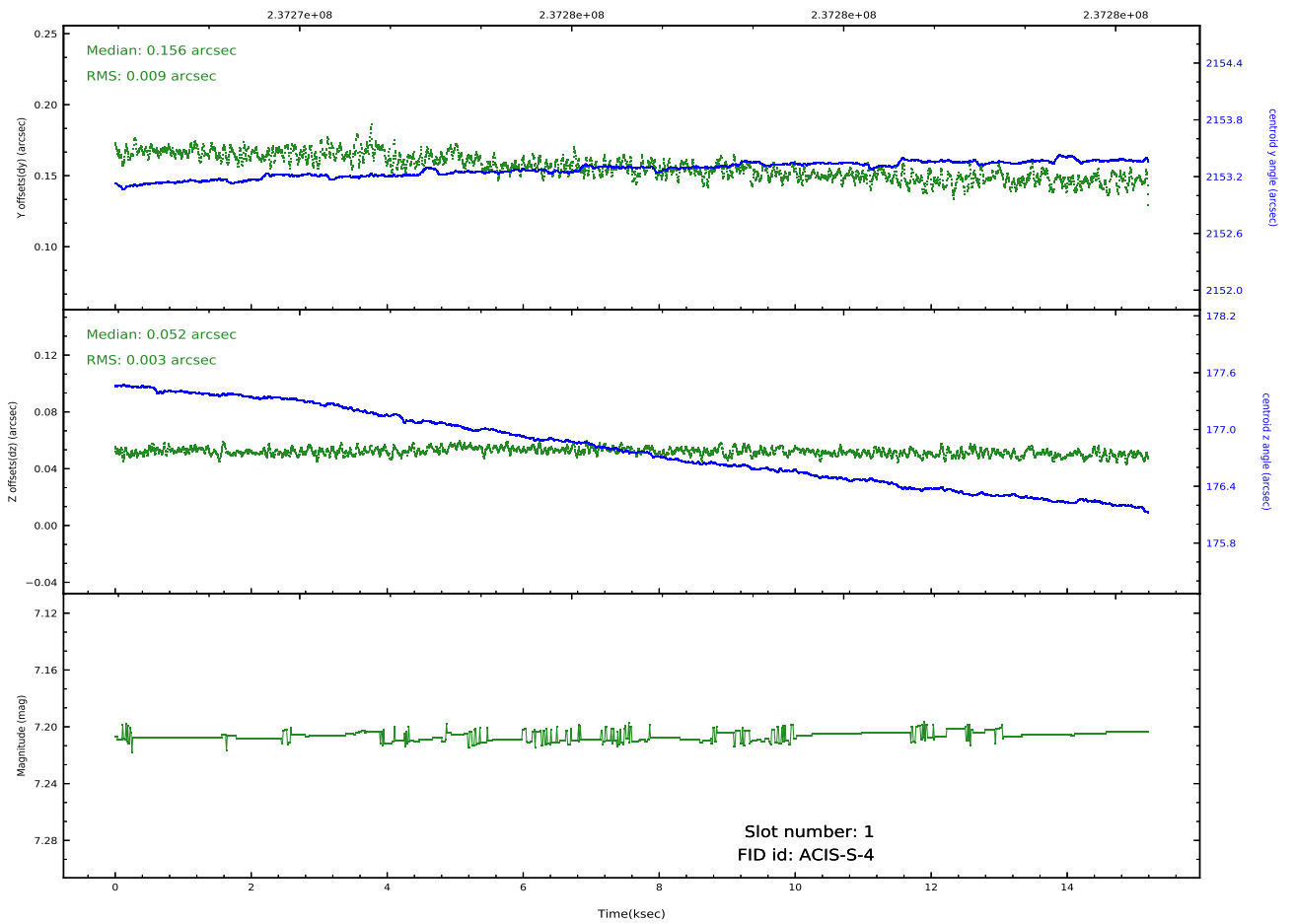
Time (s)



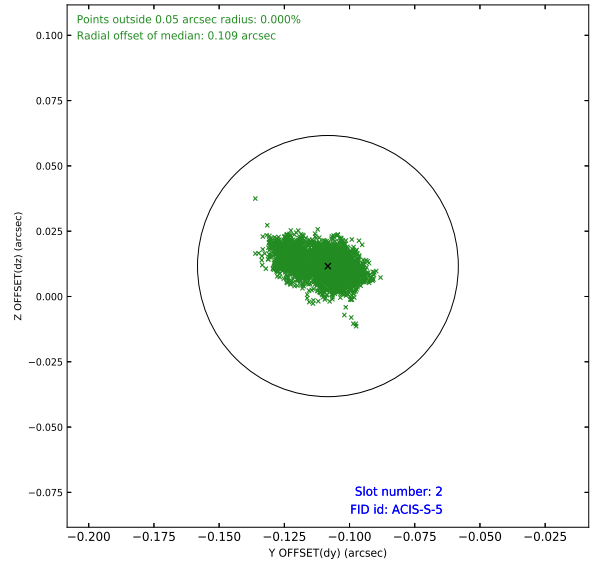
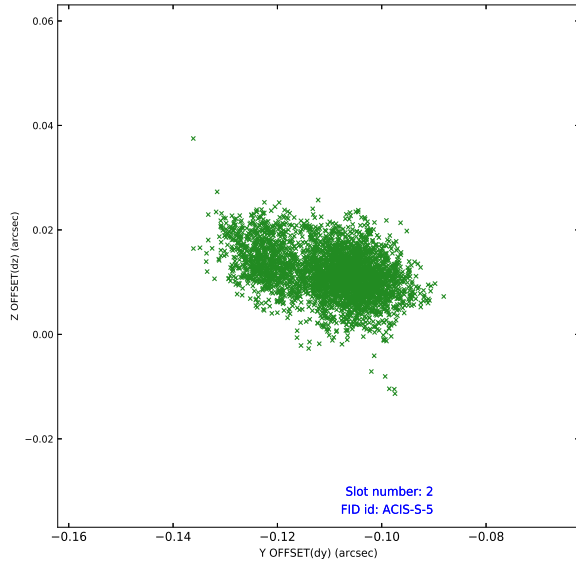
2.5.2 Slot 1



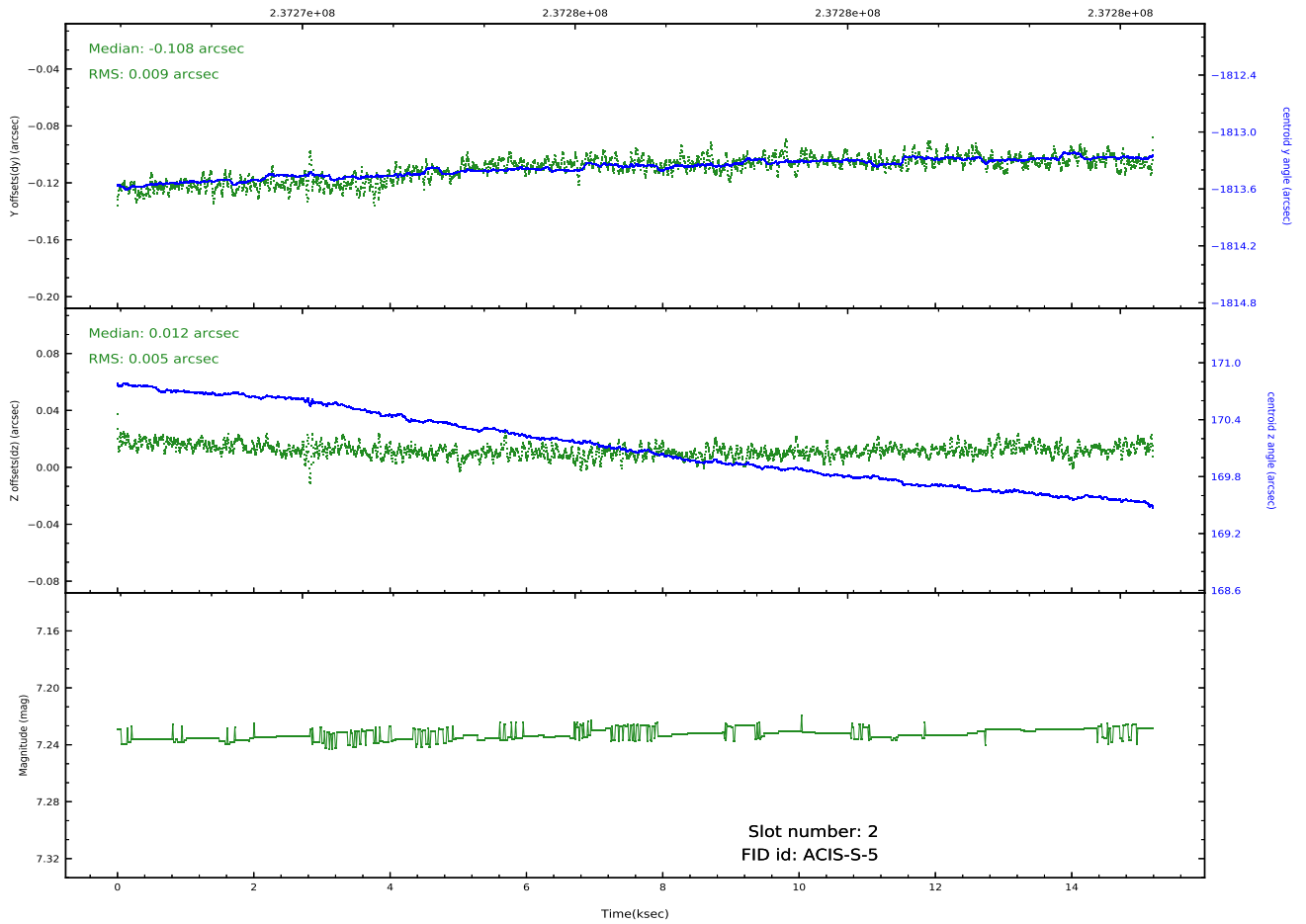
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.1875

A.2 Comments