

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5744 - L2 Version 4
Chandra X-Ray Center

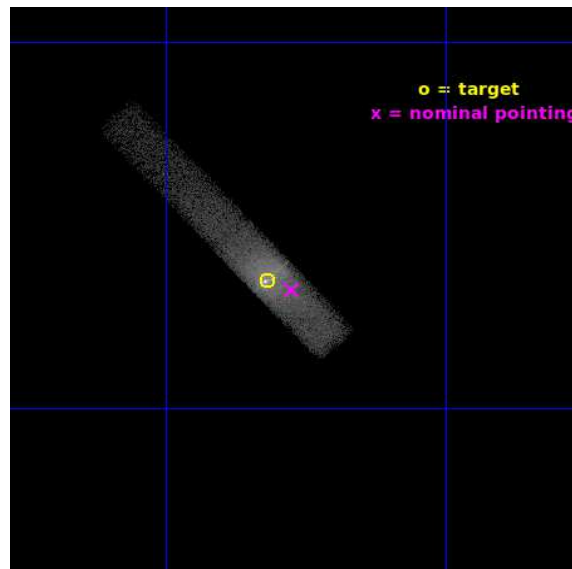
L2 Processing Date : Oct 7 2020

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1 Front

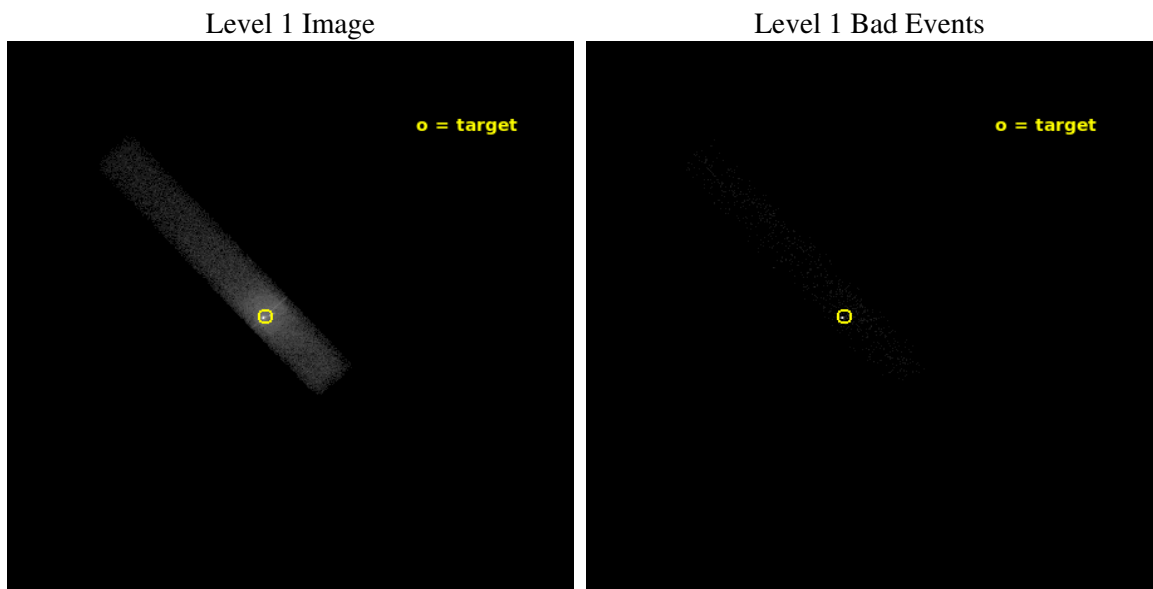
seq_num	701166	Sequence number
obs_id	5744	Observation id
title	The X-ray Flares of Knot 'HST-1' in the M87 Jet (monitoring)	Pro
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.69359074966	Nominal RA [deg]
dec_nom	12.387448751989	Nominal Dec [deg]
roll_nom	227.41690248945	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5181.2000771761	Sum of GTIs [s]
livetime	4699.0749838347	Livetime [s]
ontime7	5181.2000771761	Sum of GTIs [s]
l2events	59441	Number of level 2 events



2 OBI

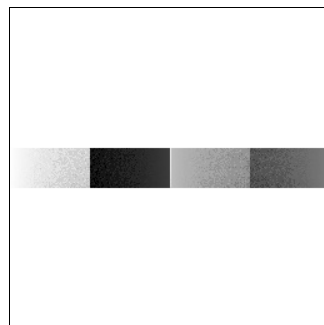
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5181.2000771761	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	5181.2000771761	Sum of GTIs [s]
date	2020-10-08T00:43:37	Date and time of file creation	l1events	77431	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

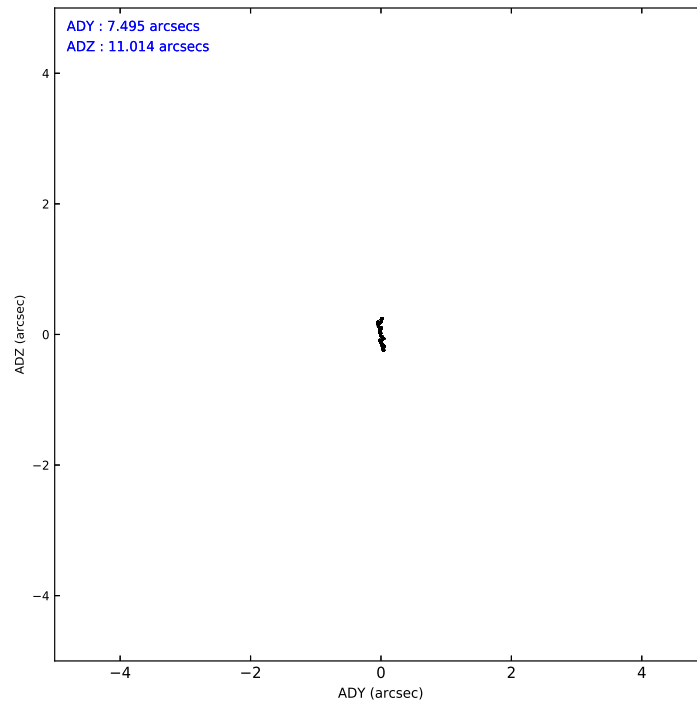
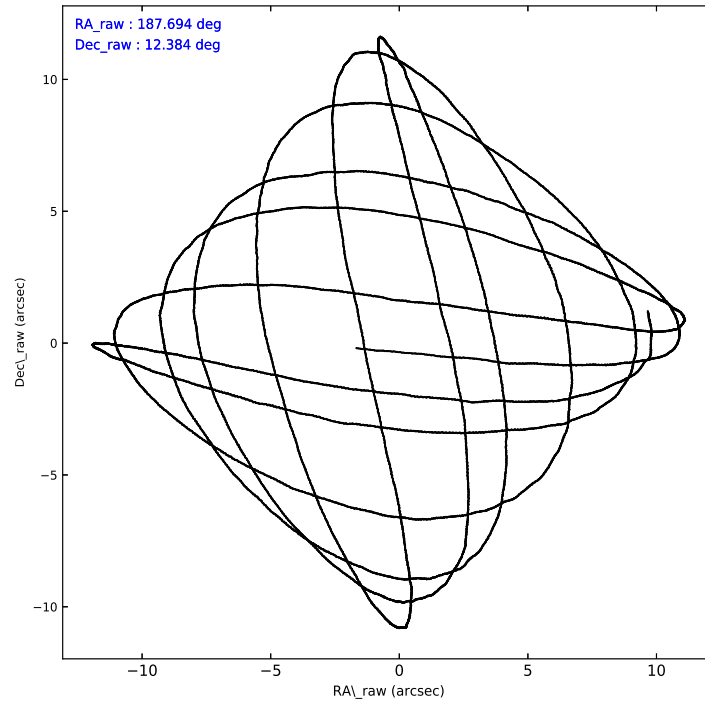
	ccd 7
level 1 events	77431
rejected events	17387
rejected %	22%

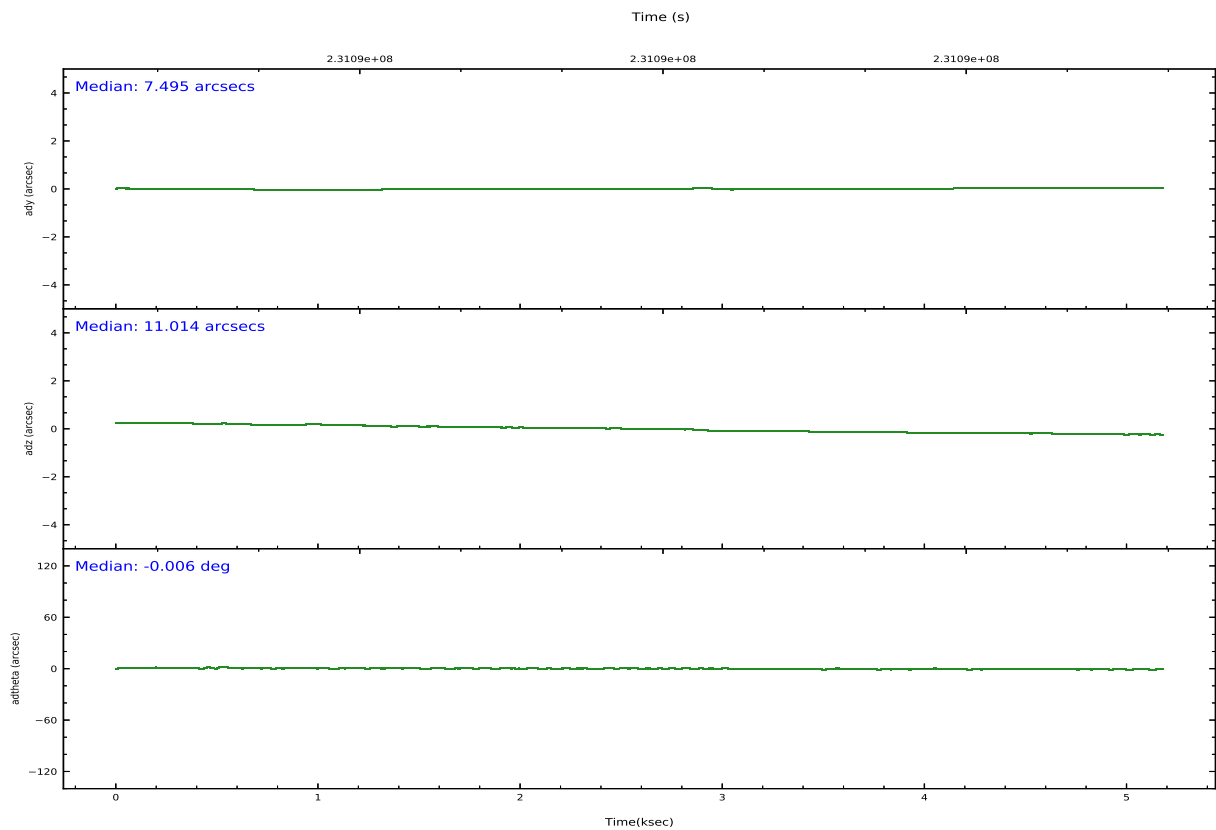
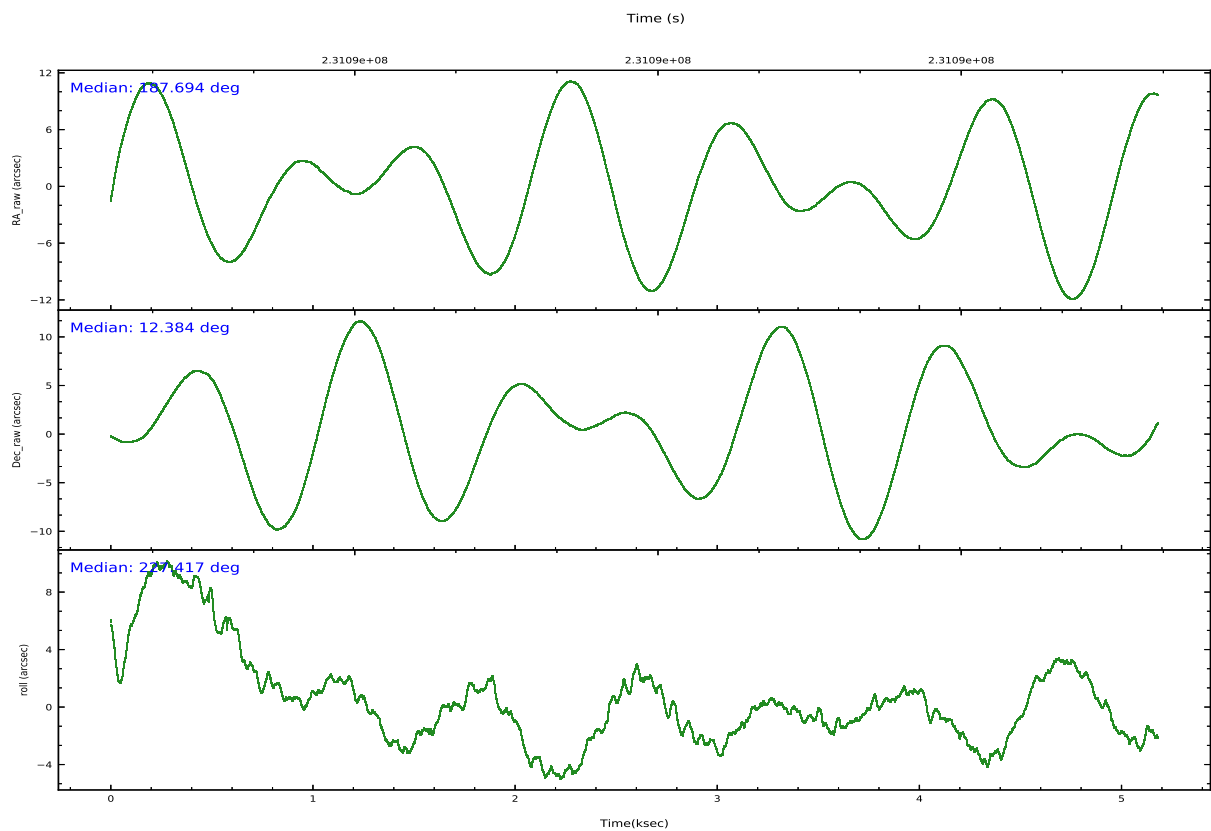
	ccd 7
grade 0 events	18353
	23%
grade 1 events	416
	0%
grade 2 events	15414
	19%
grade 3 events	7171
	9%
grade 4 events	7038
	9%
grade 5 events	3073
	3%
grade 6 events	14450
	18%
grade 7 events	11516
	14%

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	187.700028	187.69359074966	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.410376	12.387448751989	Subarray start row	449	449
[deg] Pointing Roll	227.259019	227.41690248945	Subarray row count	128	128
[s] Window start time (MET)	230774464.184000	230774464.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	231379264.184000	231379264.184000	[s] Primary exposure time	0.000000	0.4
[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)	231085474.184000	231084105.48461			
Observation start date	2005-04-28T14:23:30	2005-04-28T14:01:45			
[s] Observation end time (MET)	231090474.184000	231090778.23491			
Observation end date	2005-04-28T15:46:50	2005-04-28T15:52:58			
Read mode	TIMED	TIMED			

2.3 Aspect



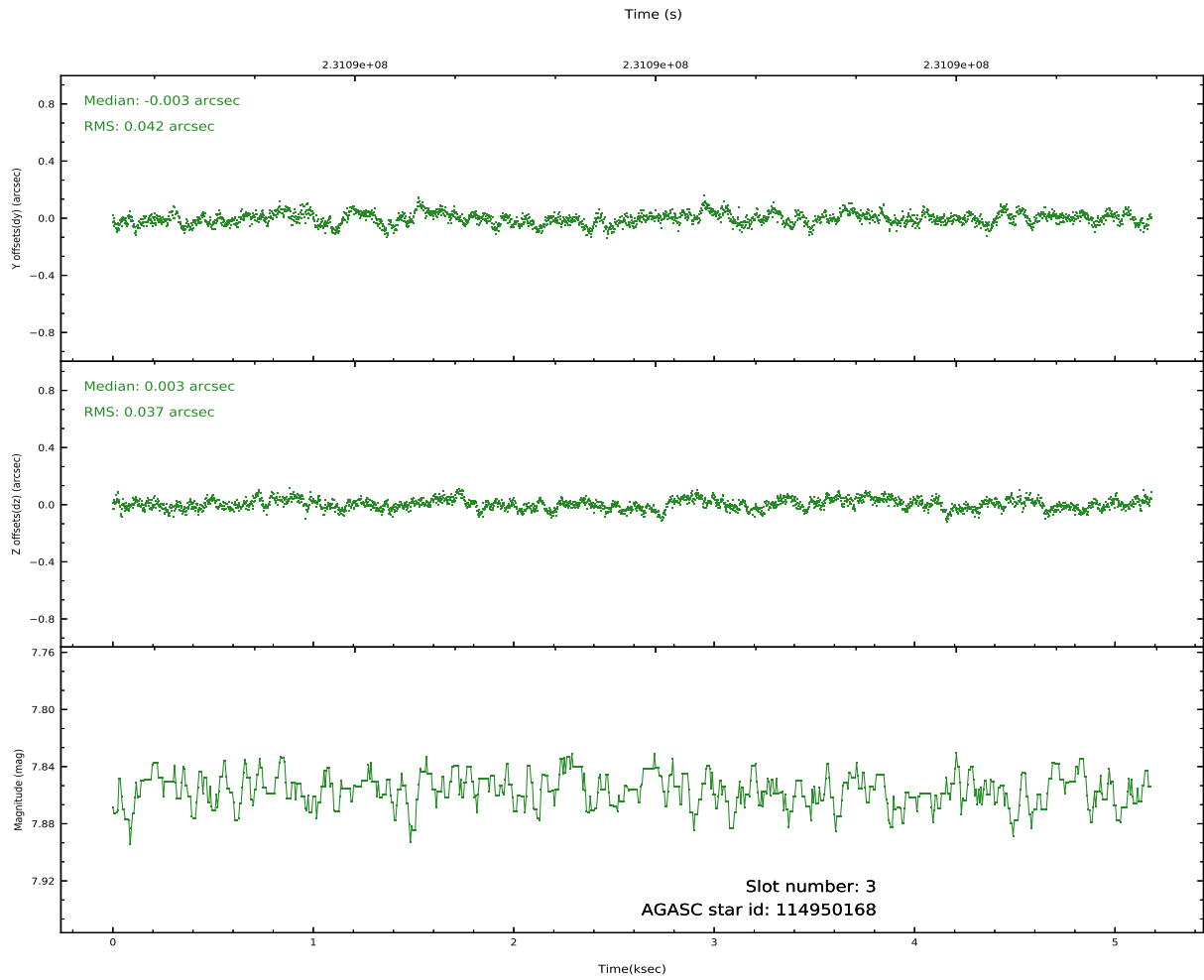
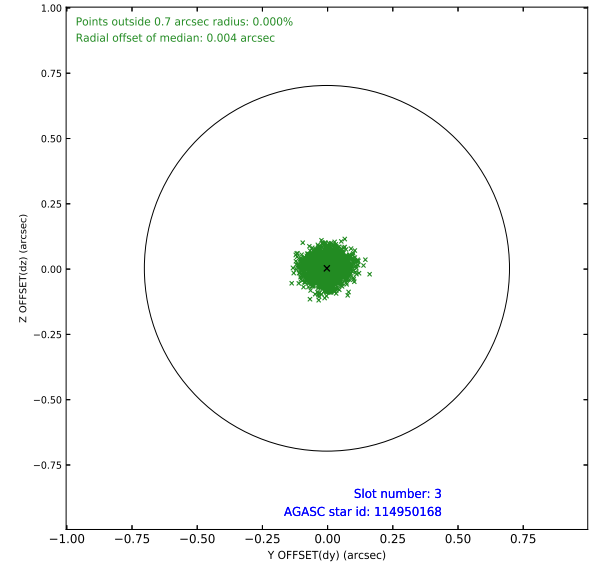
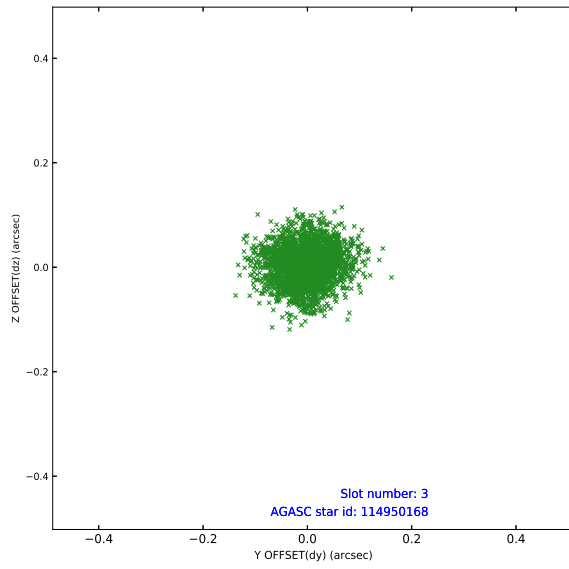


Slot Statistics

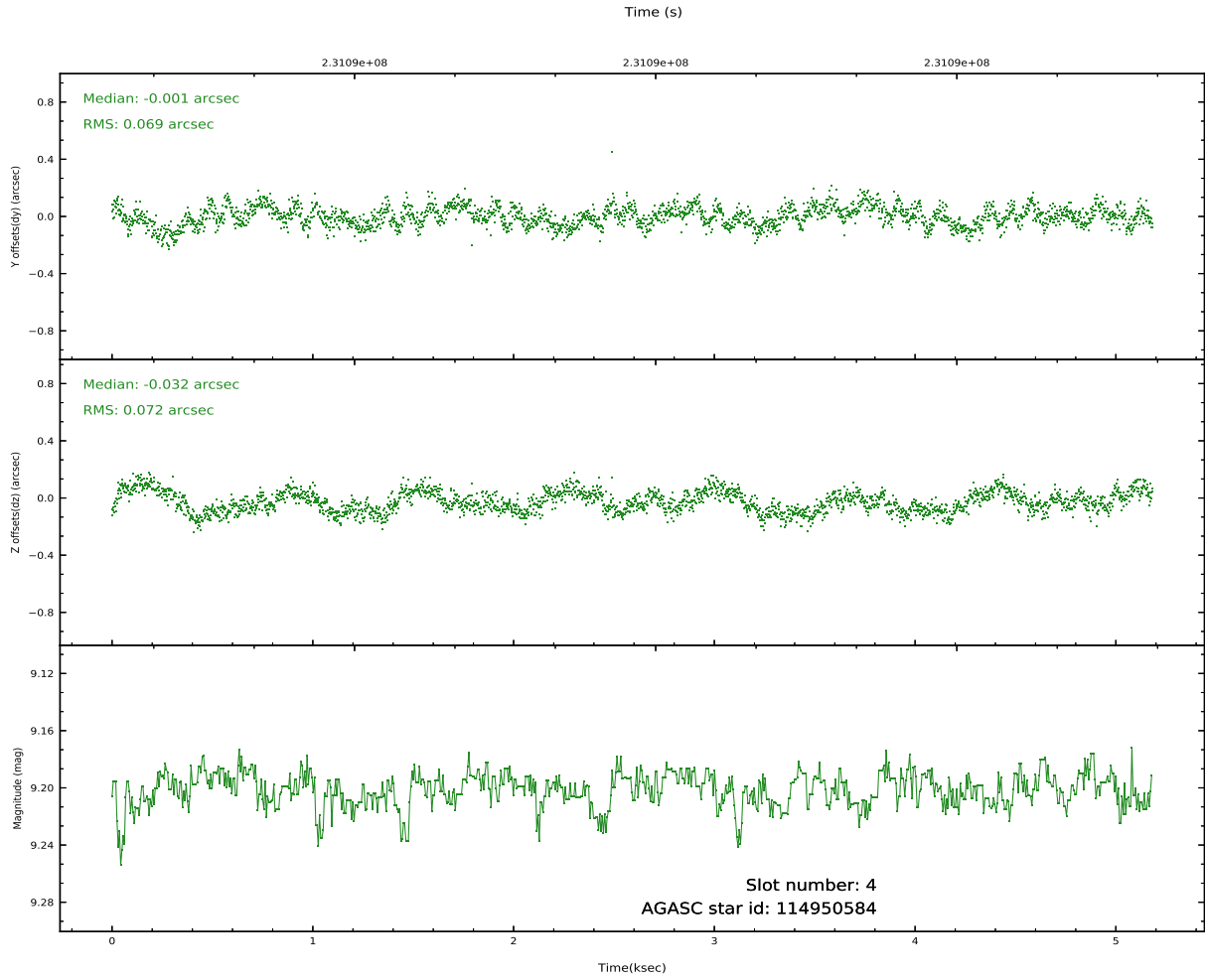
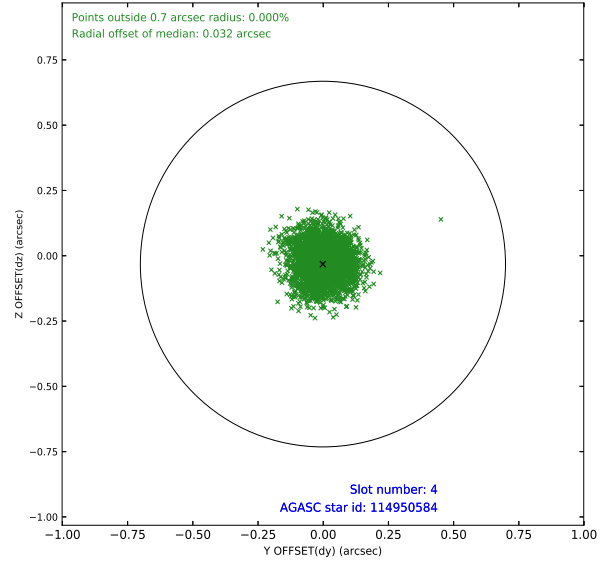
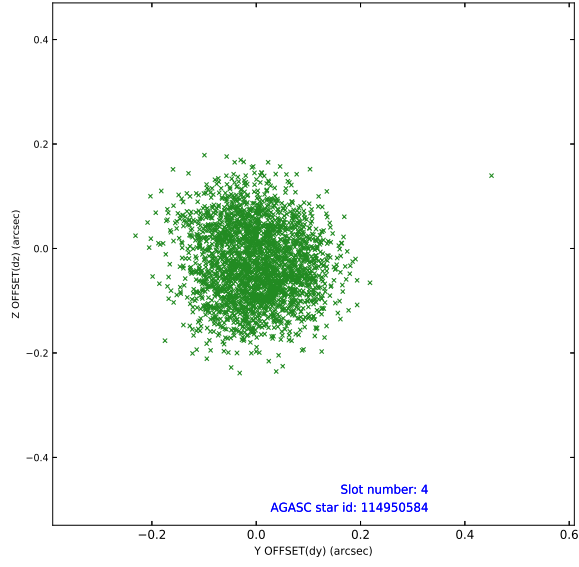
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1264	1.000	-0.069	-0.051	0.007	0.013	0.000000	0.000000	-760.27	-1732
1	FID		ACIS-S-4	7.21	1264	1.000	0.149	0.047	0.006	0.011	0.000000	0.000000	2152.63	175
2	FID		ACIS-S-5	7.23	1265	1.000	-0.111	0.013	0.007	0.012	0.000000	0.000000	-1811.72	169
3	GUIDE	used	114950168	7.86	2528	1.000	-0.003	0.003	0.061	0.095	187.143398	12.117441	2103.32	-724
4	GUIDE	used	114950584	9.20	2529	1.000	-0.001	-0.032	0.108	0.169	187.487323	11.827248	2051.57	873
5	GUIDE	used	114952824	8.58	2527	1.000	0.039	0.039	0.074	0.113	187.703904	12.486727	-209.61	-176
6	GUIDE	used	114955056	8.31	2529	1.000	-0.142	0.121	0.071	0.113	187.914001	12.127854	235.99	1242
7	GUIDE	used	114954440	9.19	2526	1.000	0.107	-0.131	0.104	0.168	186.915066	12.219118	2377.75	-1563

2.4 Star Slots

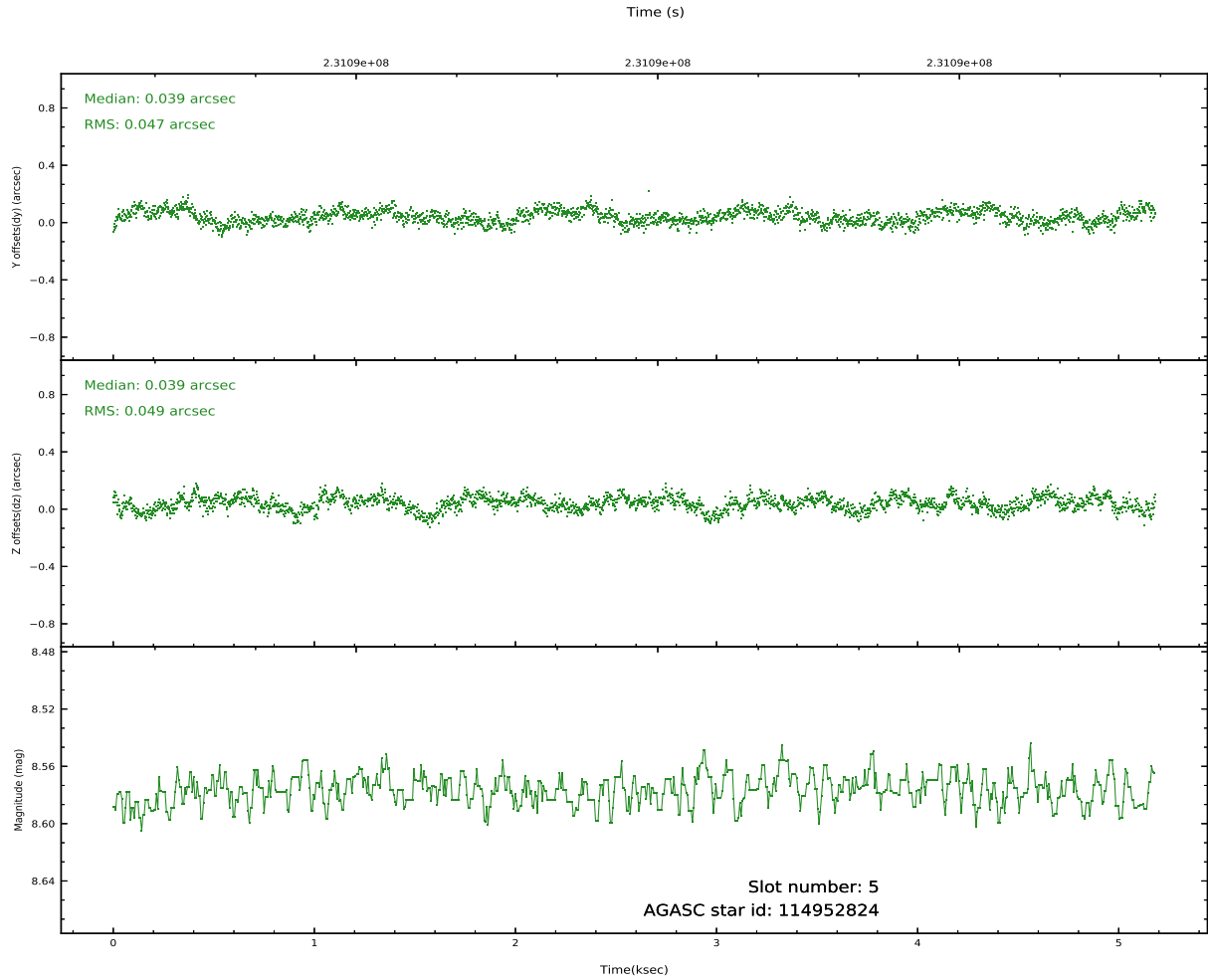
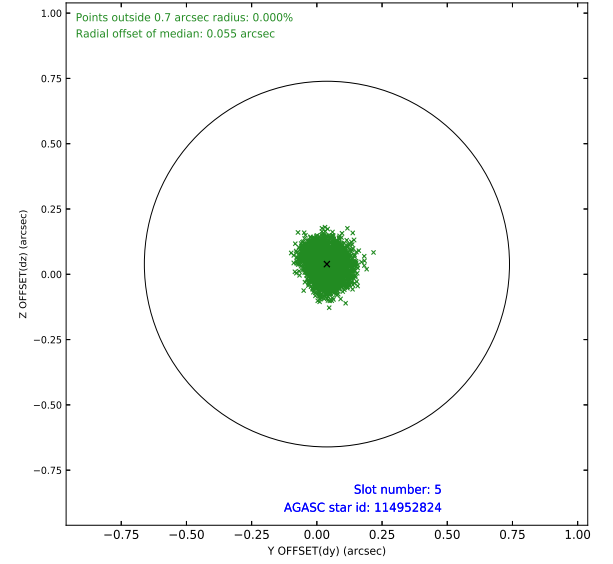
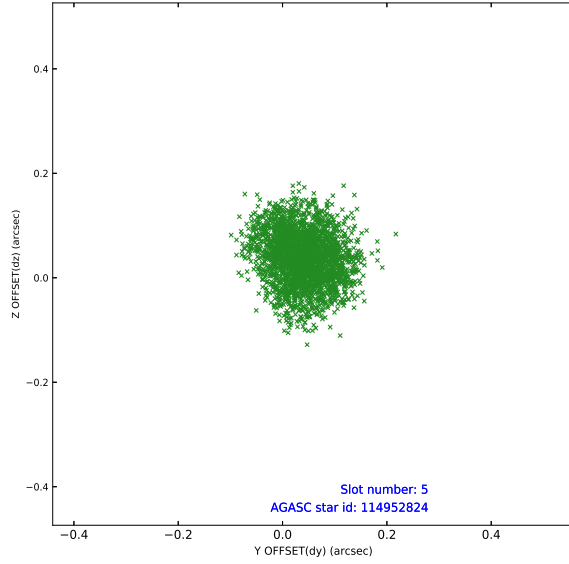
2.4.1 Slot 3



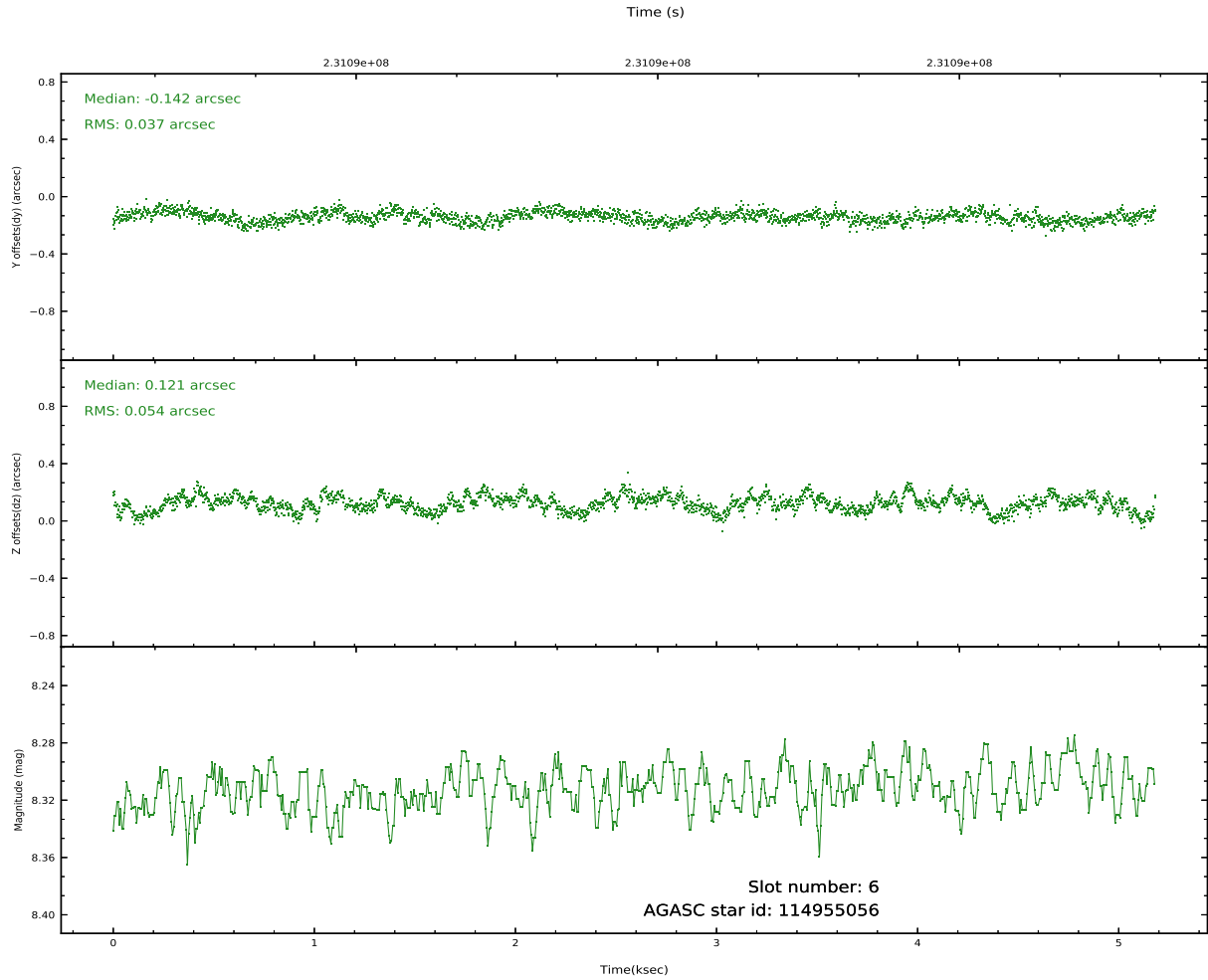
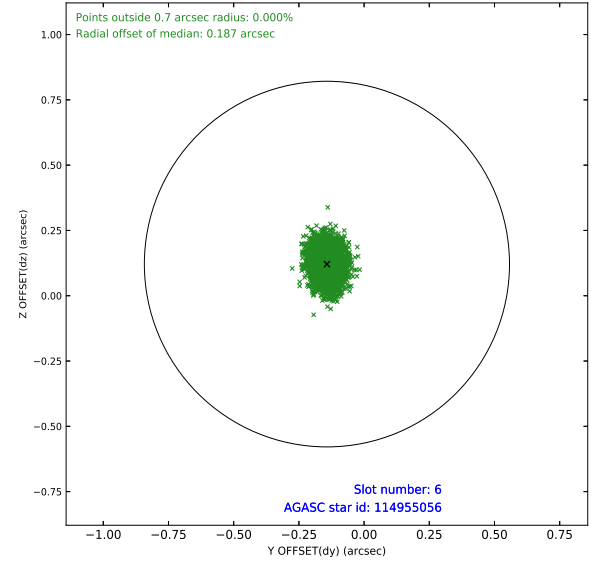
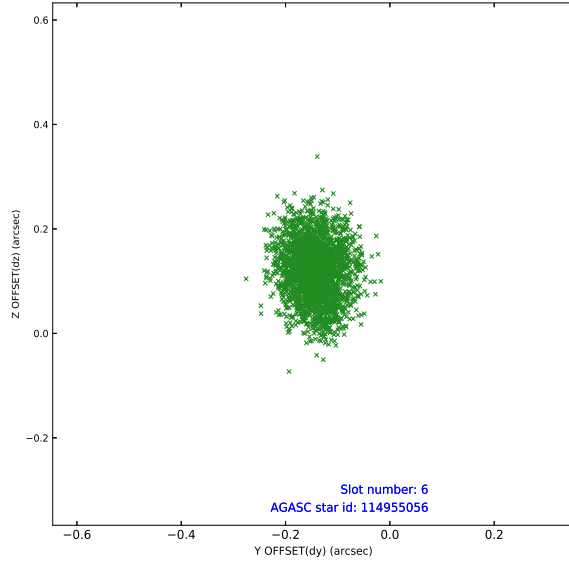
2.4.2 Slot 4



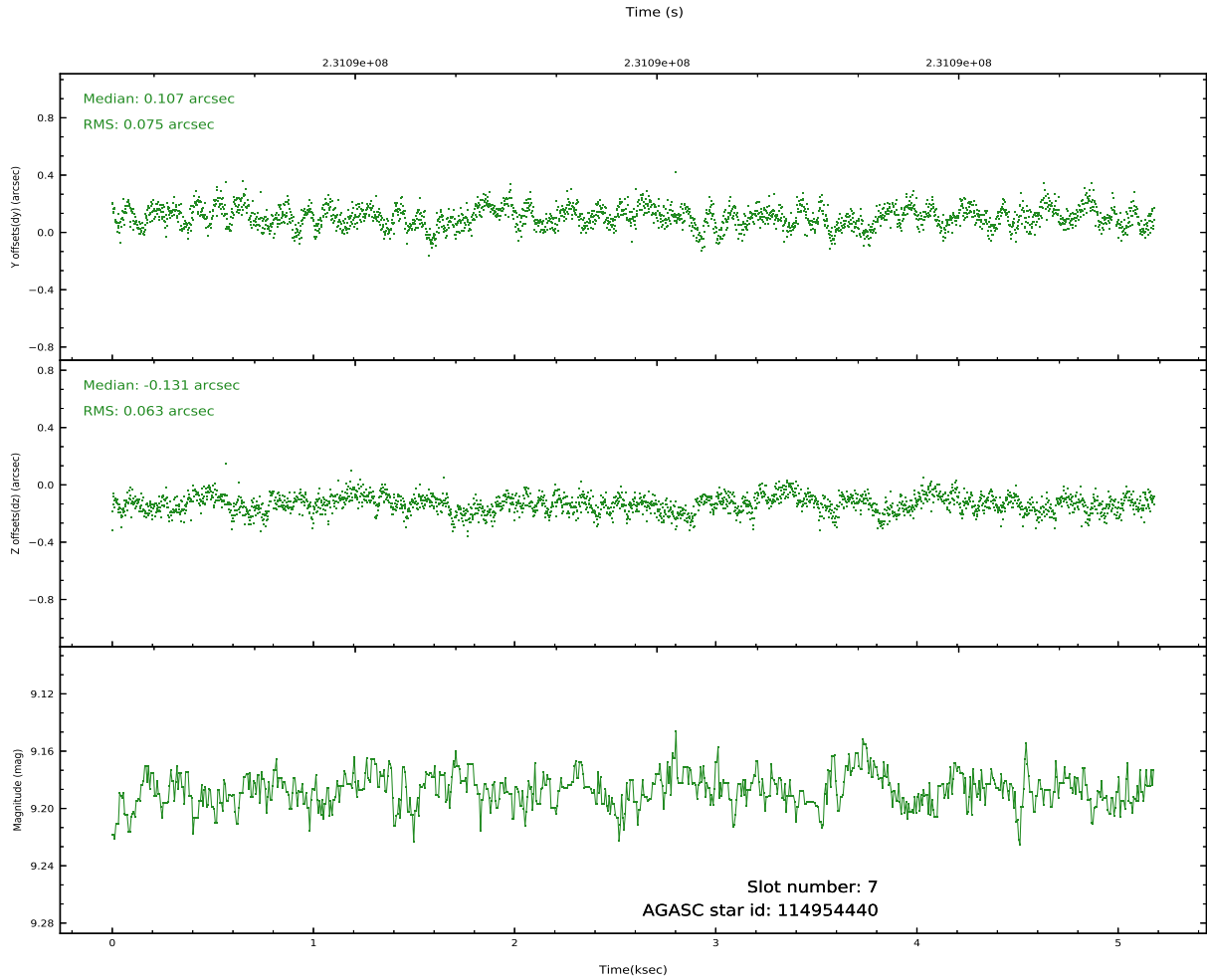
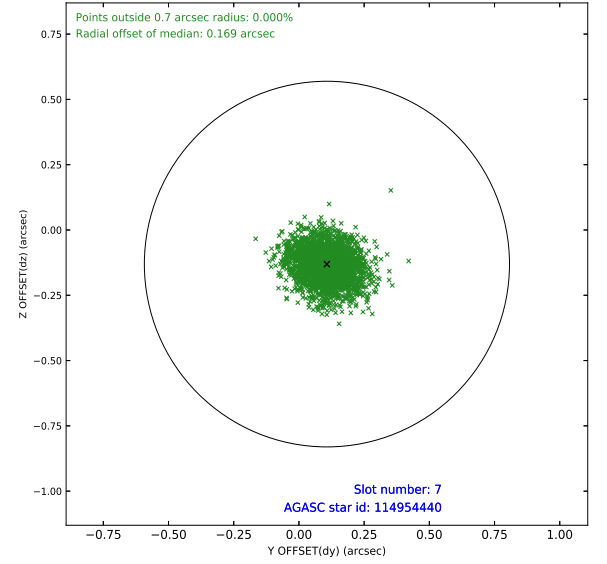
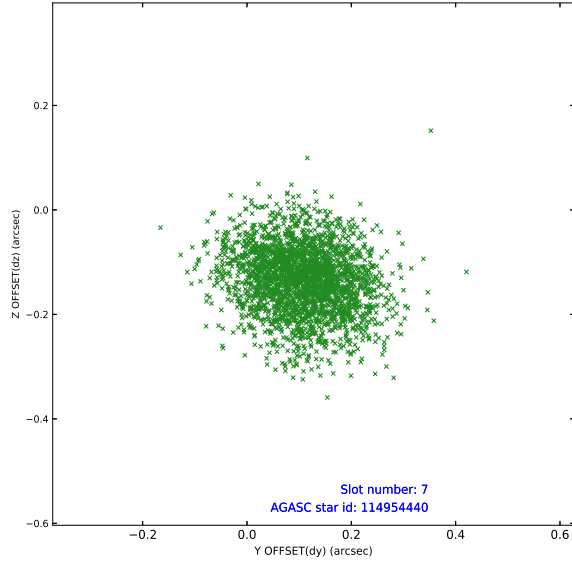
2.4.3 Slot 5



2.4.4 Slot 6

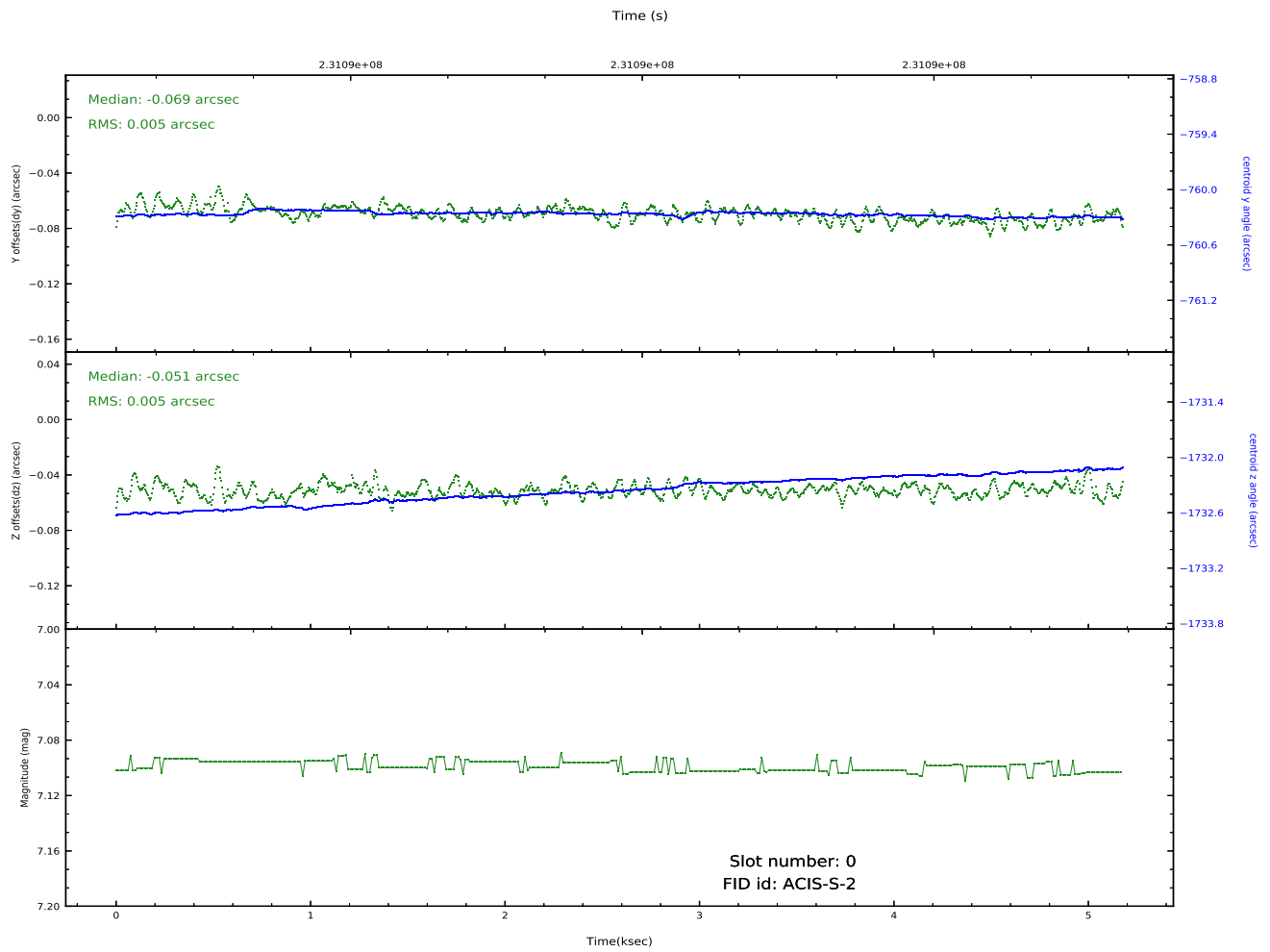
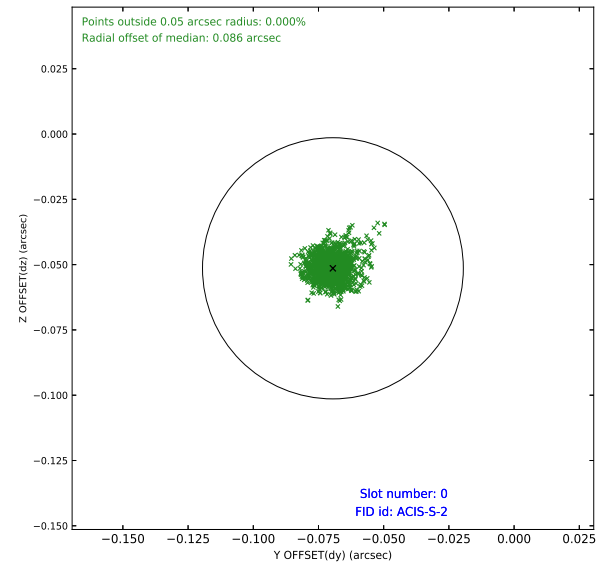
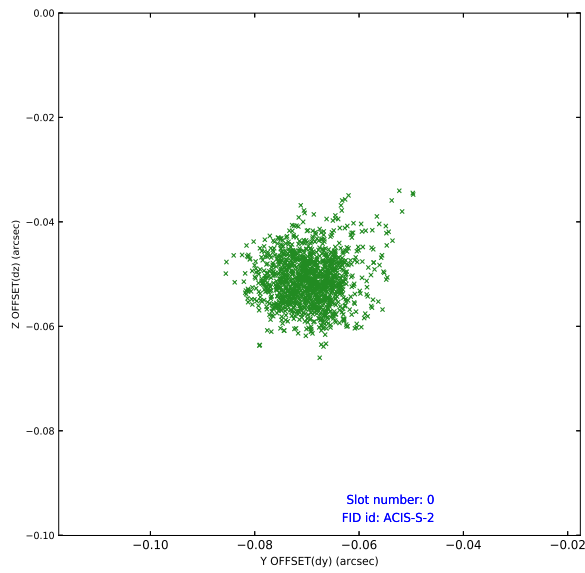


2.4.5 Slot 7

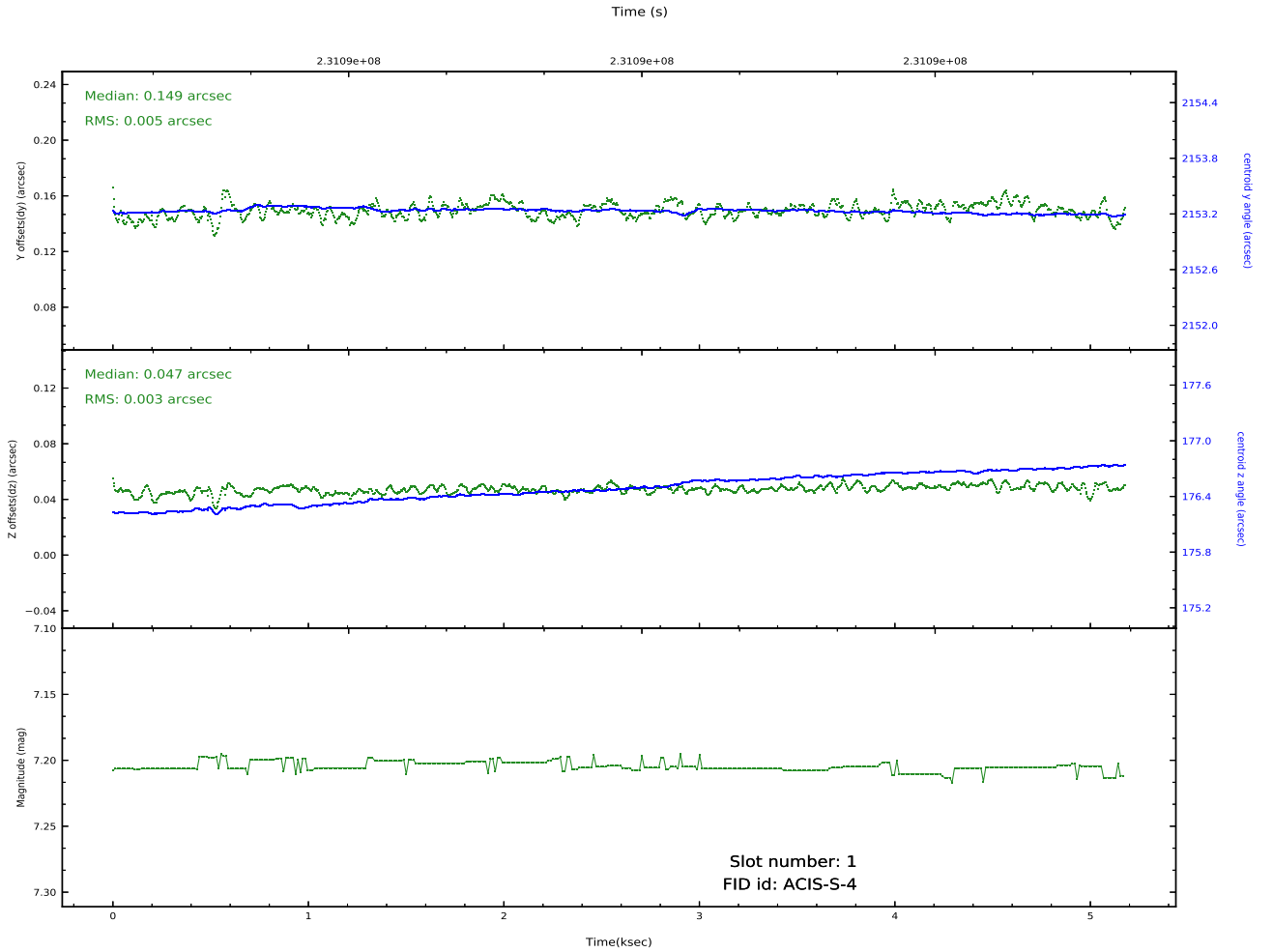
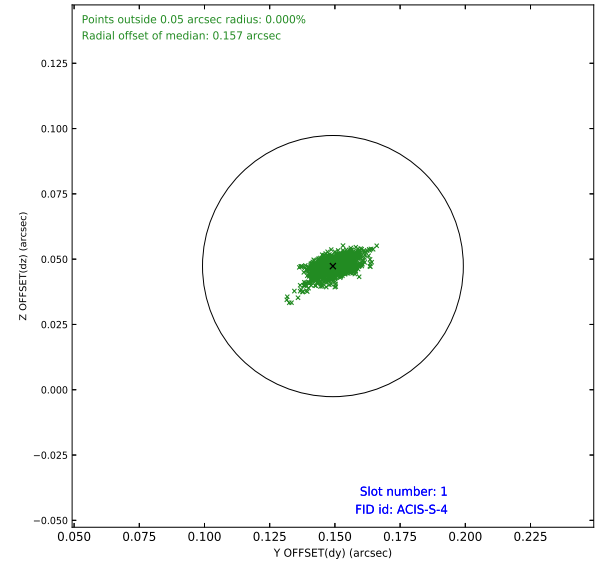
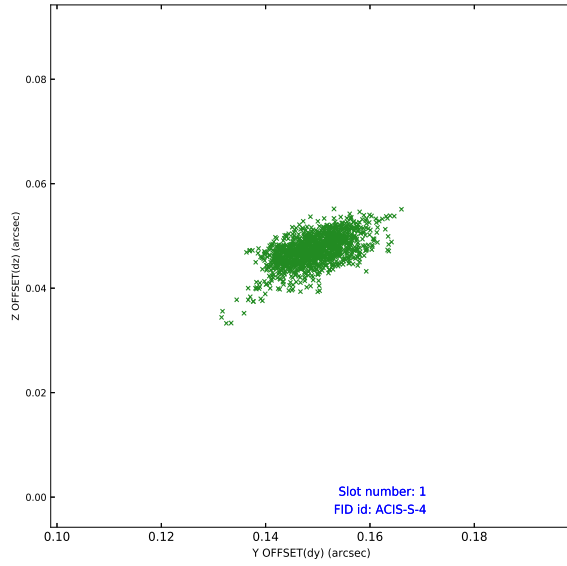


2.5 FID Slots

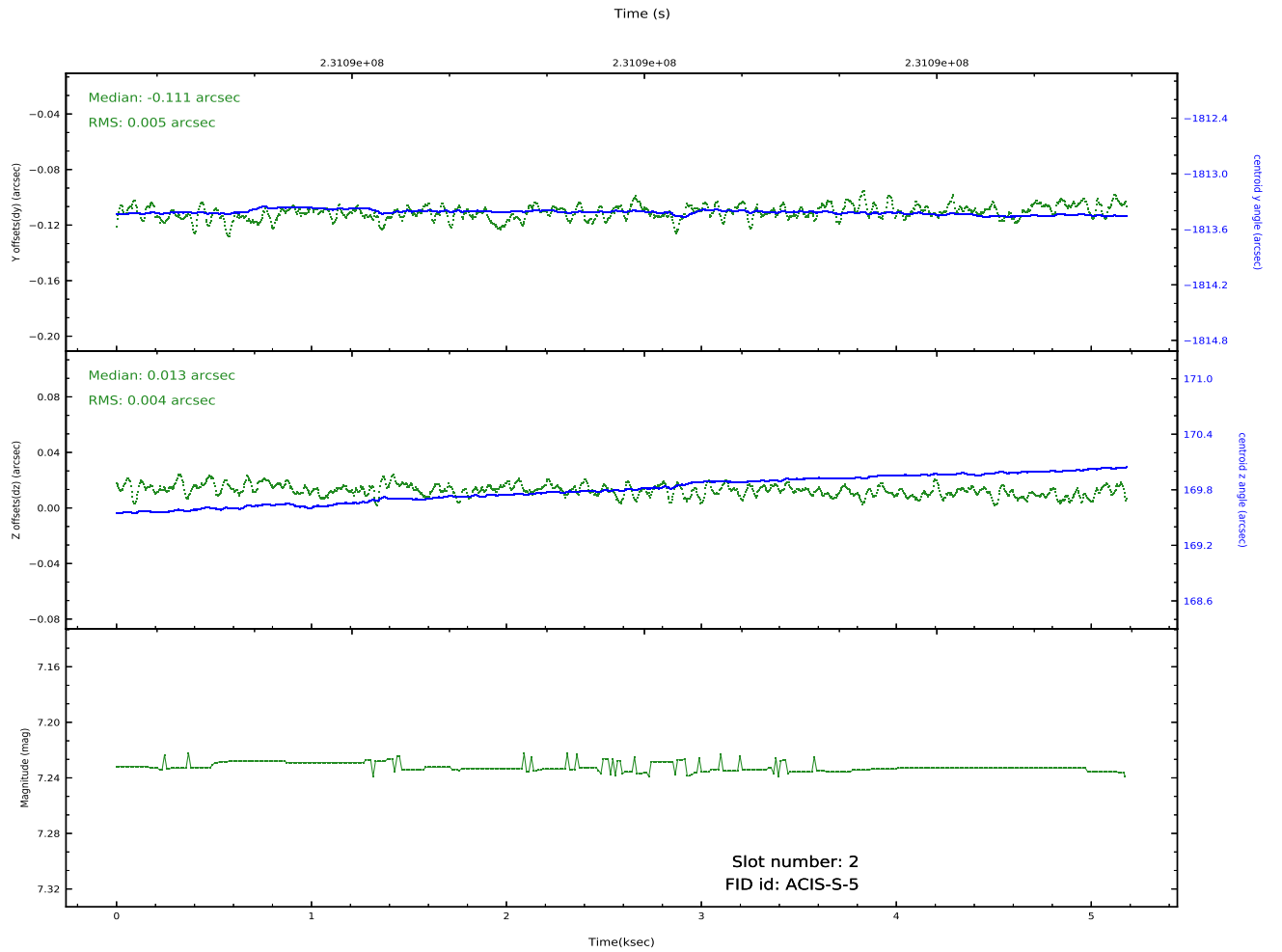
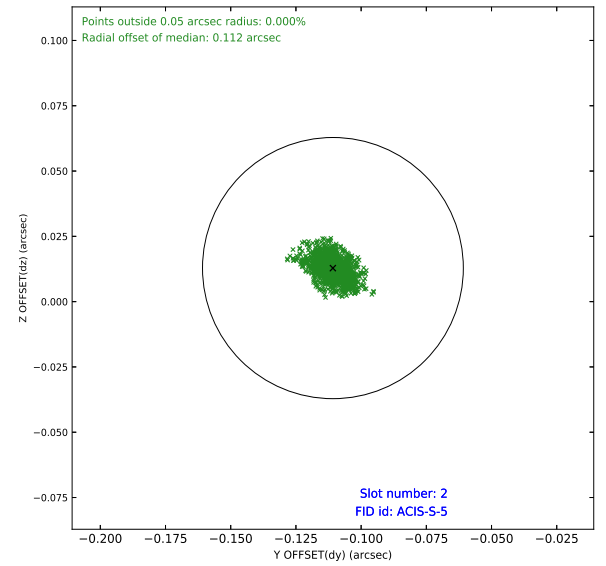
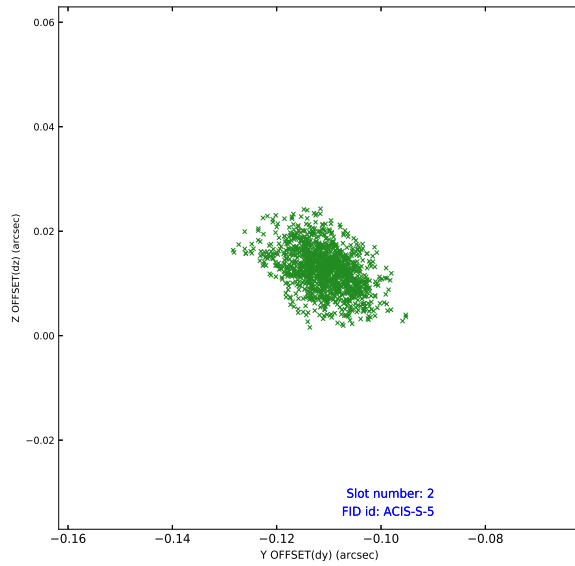
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1812

A.2 Comments

Window constraint met. Joint Proposal: CX0-HST