

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5746 - L2 Version 4
Chandra X-Ray Center

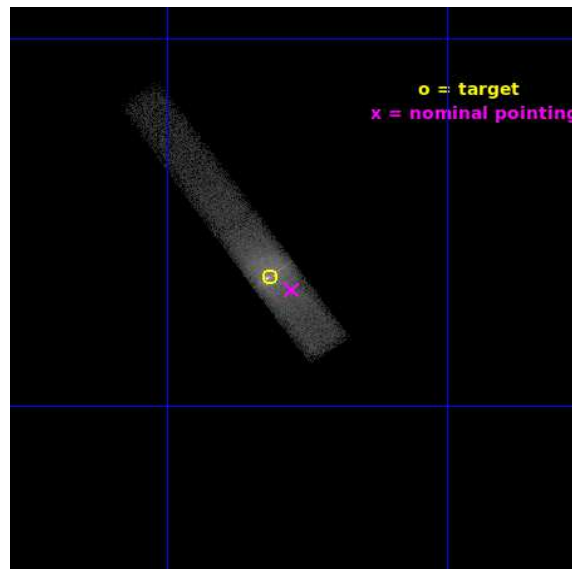
L2 Processing Date : Oct 8 2020

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1 Front

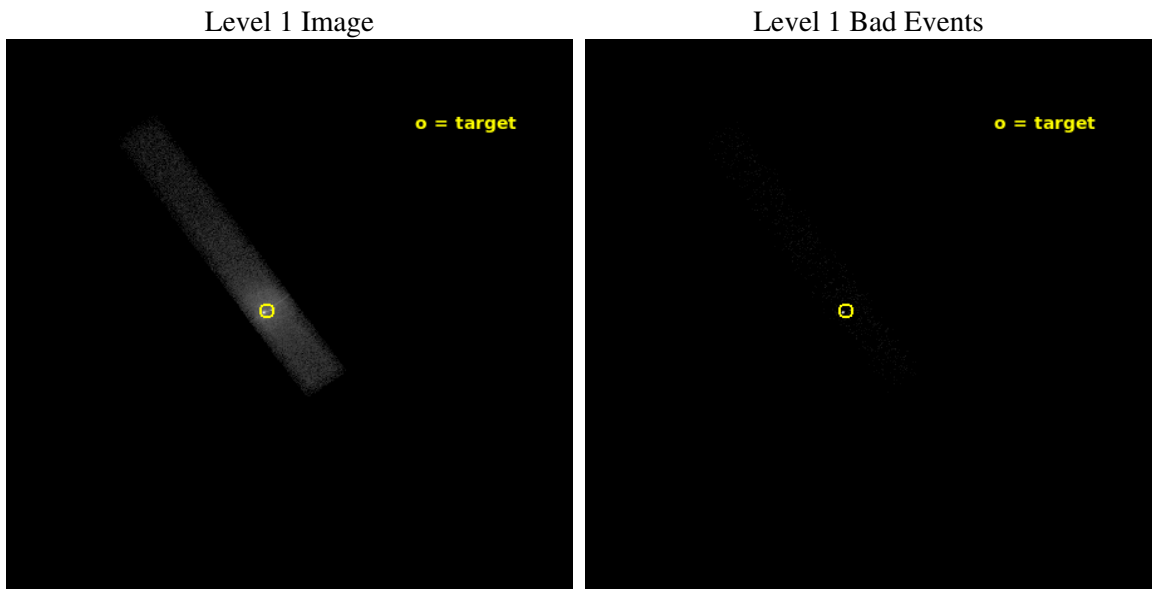
seq_num	701168	Sequence number
obs_id	5746	Observation id
title	The X-ray Flares of Knot 'HST-1' in the M87 Jet (monitoring)	Pro
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.69433144908	Nominal RA [deg]
dec_nom	12.385978438379	Nominal Dec [deg]
roll_nom	234.4693237547	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5669.6000844538	Sum of GTIs [s]
livetime	5142.0280105694	Livetime [s]
ontime7	5669.6000844538	Sum of GTIs [s]
l2events	68715	Number of level 2 events



2 OBI

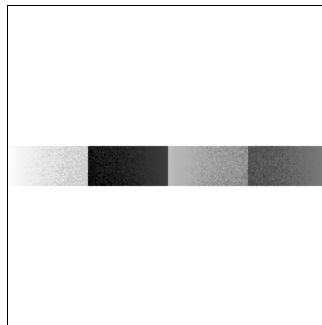
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5486.249000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5669.6000844538	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	5669.6000844538	Sum of GTIs [s]
date	2020-10-08T07:49:57	Date and time of file creation	l1events	87109	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

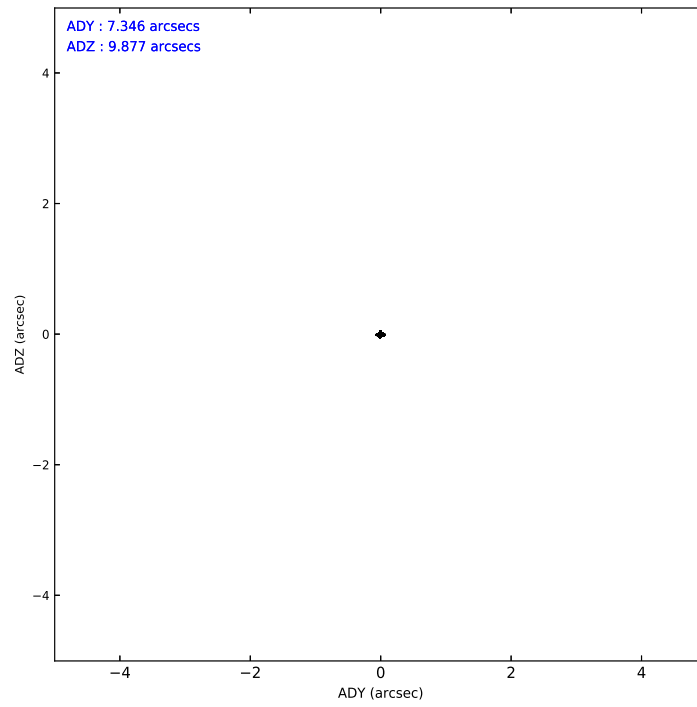
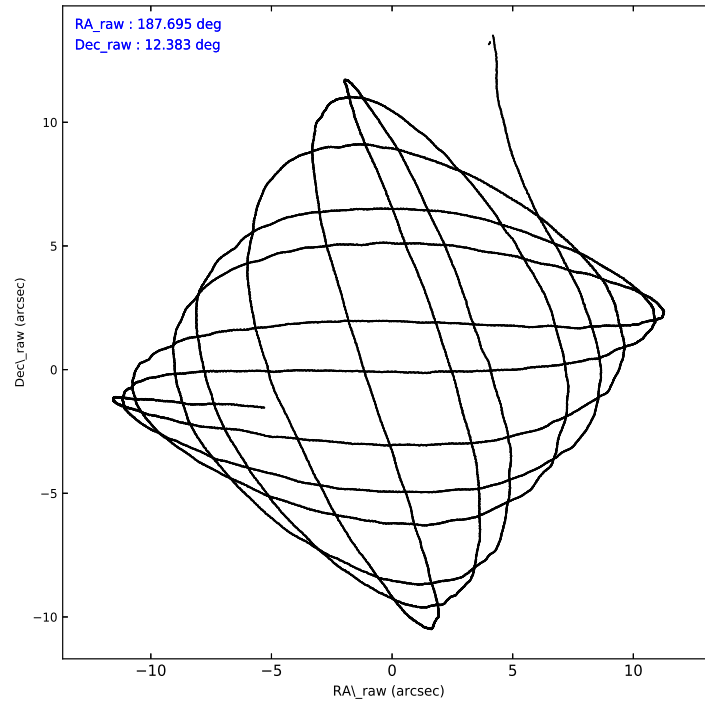
	ccd 7
level 1 events	87109
rejected events	17726
rejected %	20%

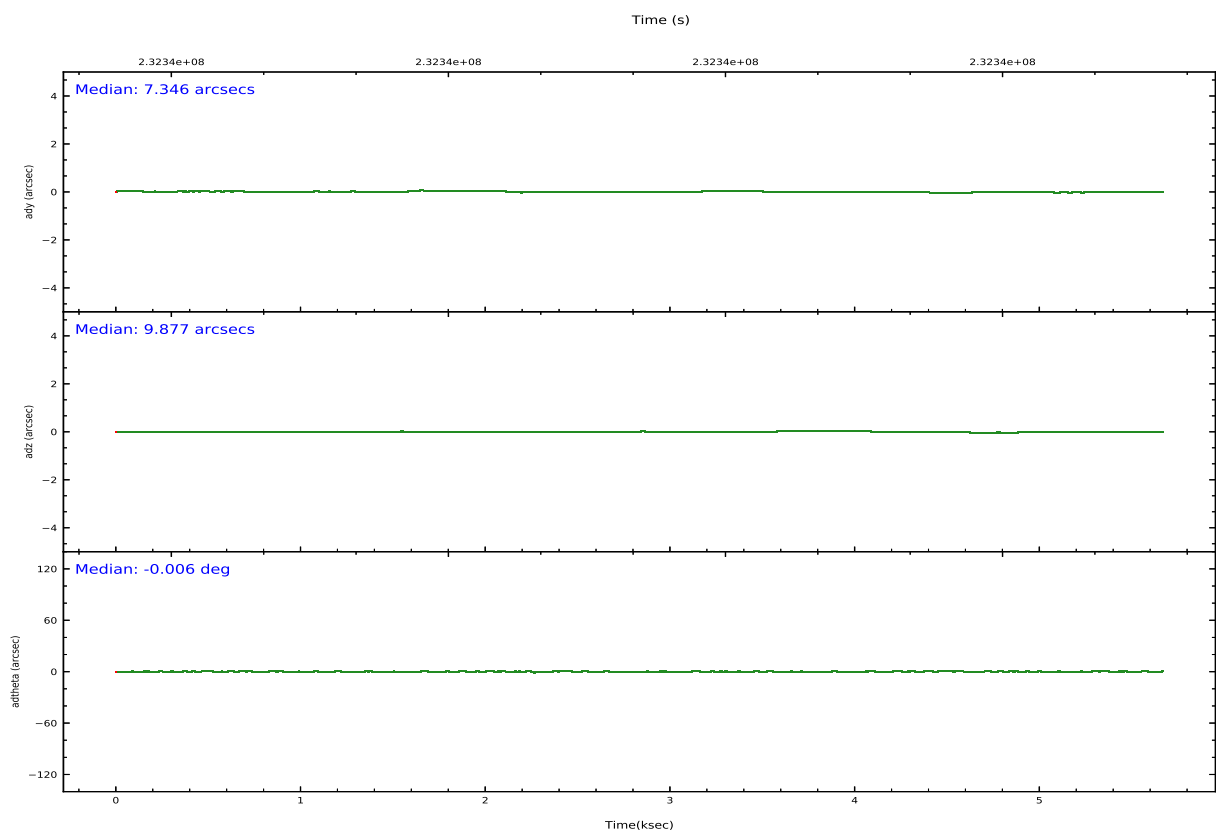
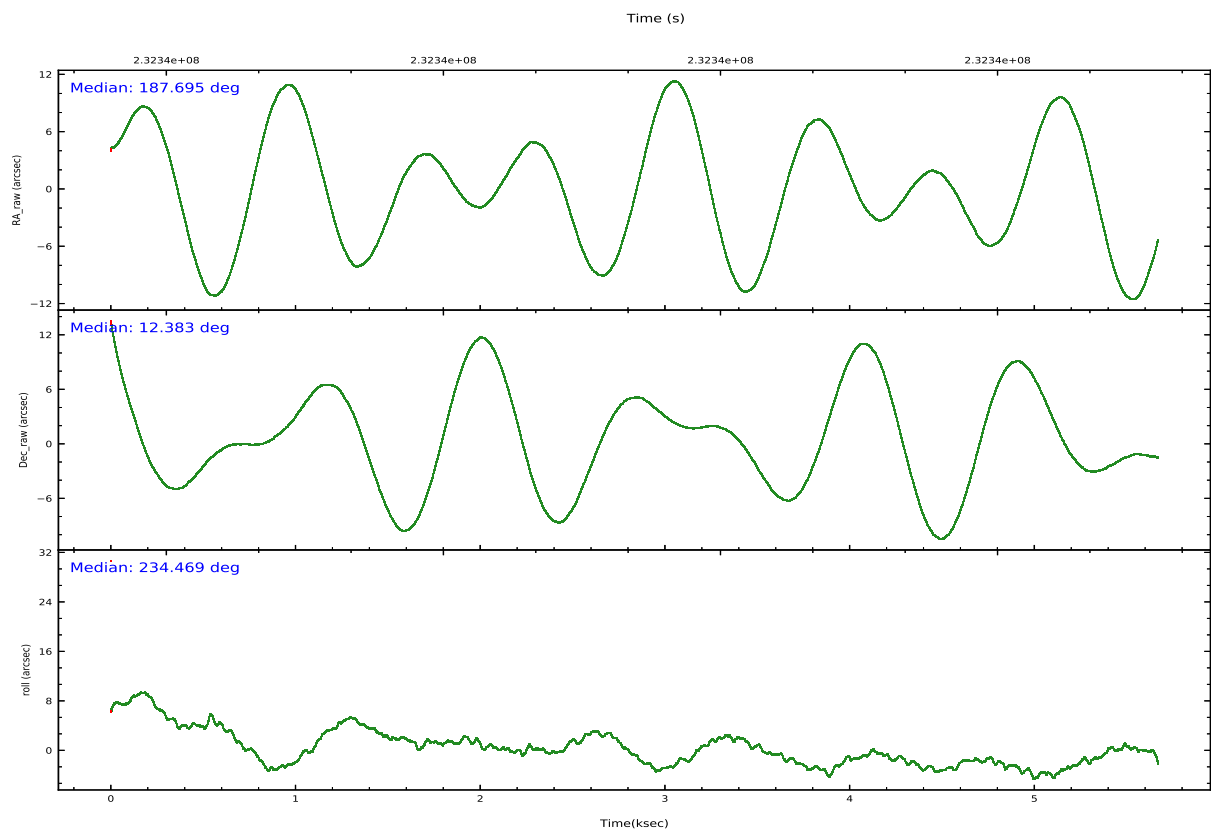
	ccd 7
grade 0 events	20328
	23%
grade 1 events	475
	0%
grade 2 events	17466
	20%
grade 3 events	7959
	9%
grade 4 events	7615
	8%
grade 5 events	3241
	3%
grade 6 events	18204
	20%
grade 7 events	11821
	13%

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	187.697702	187.69433144908	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.409741	12.385978438379	Subarray start row	449	449
[deg] Pointing Roll	234.314625	234.4693237547	Subarray row count	128	128
[s] Window start time (MET)	231984064.184000	231984064.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	232588864.184000	232588864.184000	[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)	232337384.184000	232336288.07911			
Observation start date	2005-05-13T02:08:40	2005-05-13T01:51:28			
[s] Observation end time (MET)	232342870.184000	232343086.39192			
Observation end date	2005-05-13T03:40:06	2005-05-13T03:44:46			
Read mode	TIMED	TIMED			

2.3 Aspect



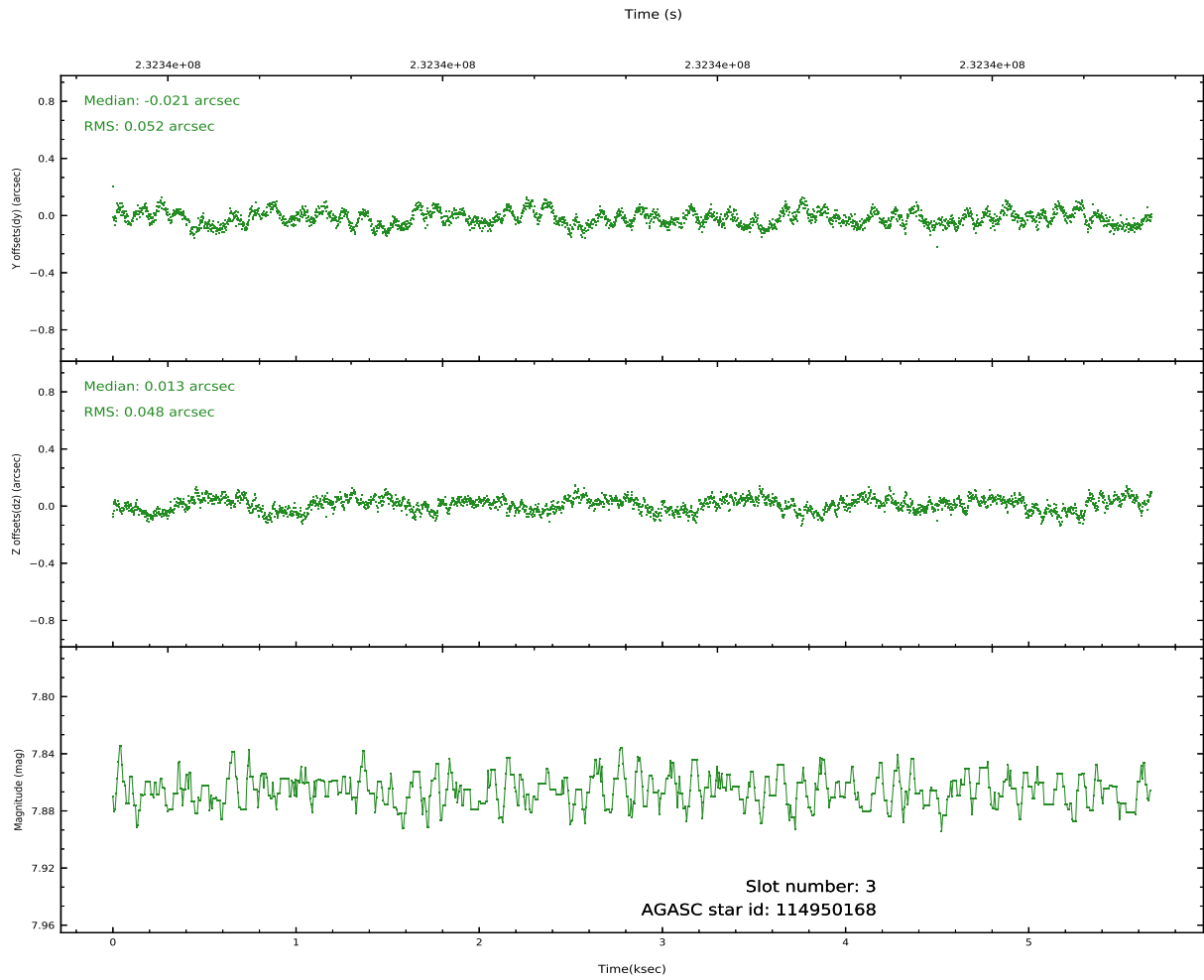
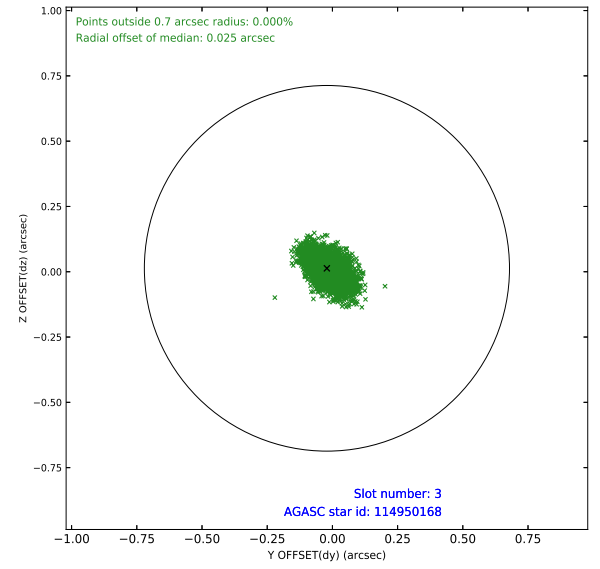
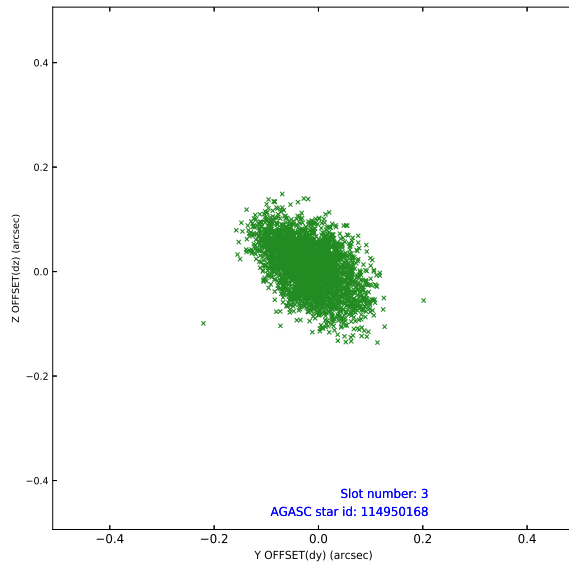


Slot Statistics

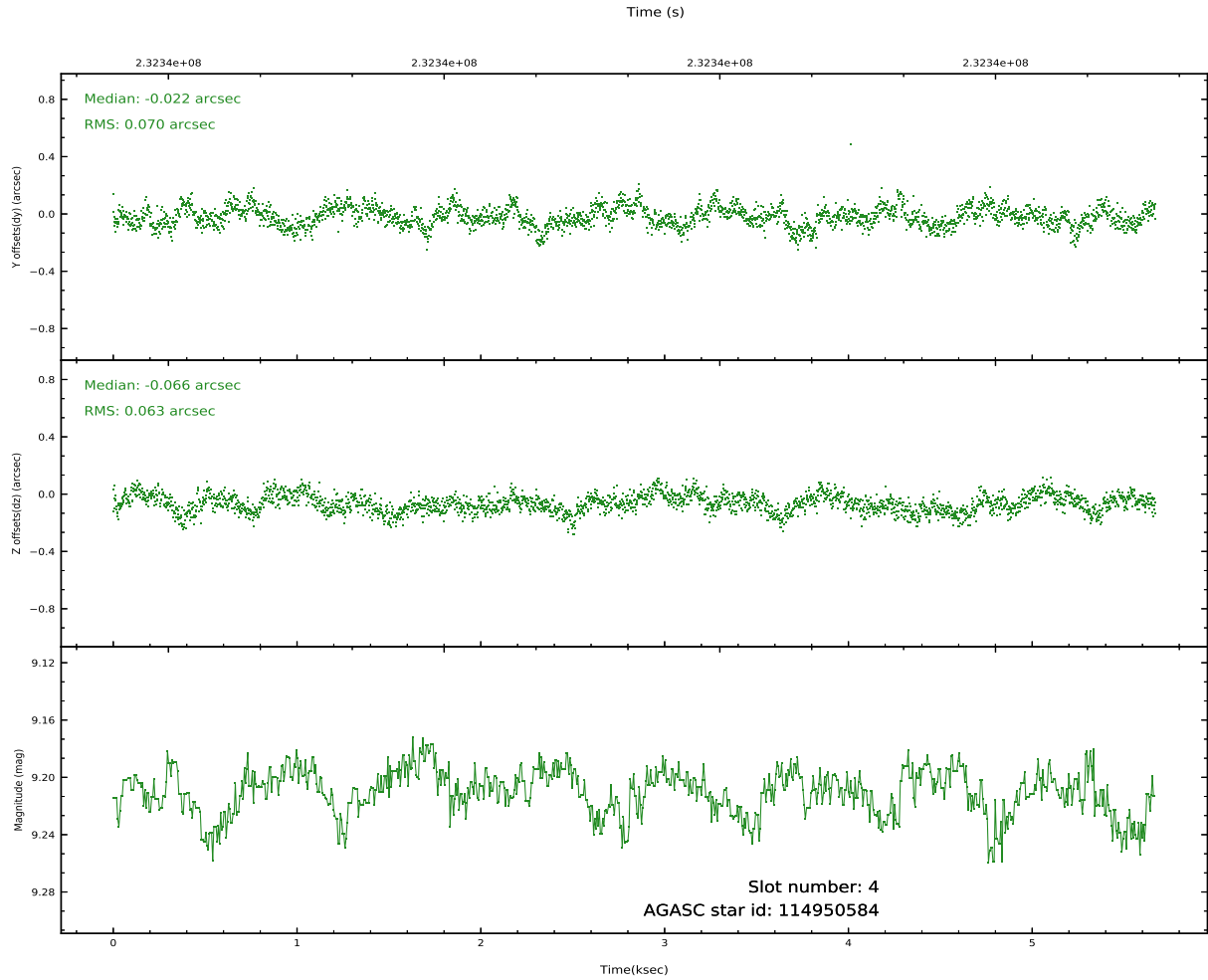
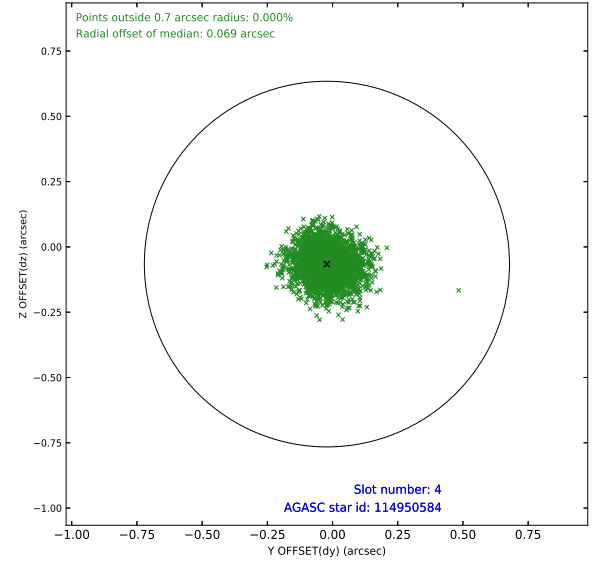
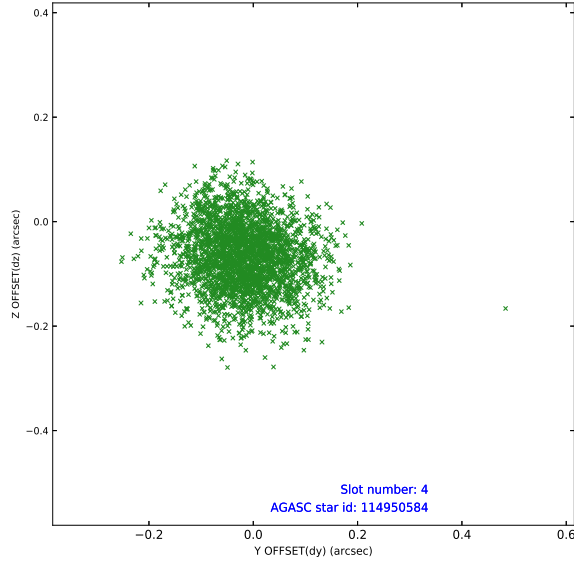
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1384	1.000	-0.078	-0.065	0.006	0.011	0.000000	0.000000	-760.12	-1731
1	FID		ACIS-S-4	7.21	1384	1.000	0.163	0.055	0.005	0.010	0.000000	0.000000	2152.85	176
2	FID		ACIS-S-5	7.24	1384	1.000	-0.116	0.019	0.007	0.010	0.000000	0.000000	-1811.72	171
3	GUIDE	used	114950168	7.87	2765	1.000	-0.021	0.013	0.074	0.124	187.143398	12.117441	1991.59	-971
4	GUIDE	used	114950584	9.21	2766	1.000	-0.022	-0.066	0.100	0.162	187.487323	11.827248	2136.37	620
5	GUIDE	used	114952824	8.58	2765	1.000	0.019	0.045	0.065	0.104	187.703904	12.486727	-236.66	-143
6	GUIDE	used	114954440	9.19	2765	1.000	0.126	-0.123	0.101	0.165	186.915066	12.219118	2160.81	-1838
7	GUIDE	used	114955056	8.32	2764	1.000	-0.103	0.139	0.059	0.099	187.914001	12.127854	380.83	1209

2.4 Star Slots

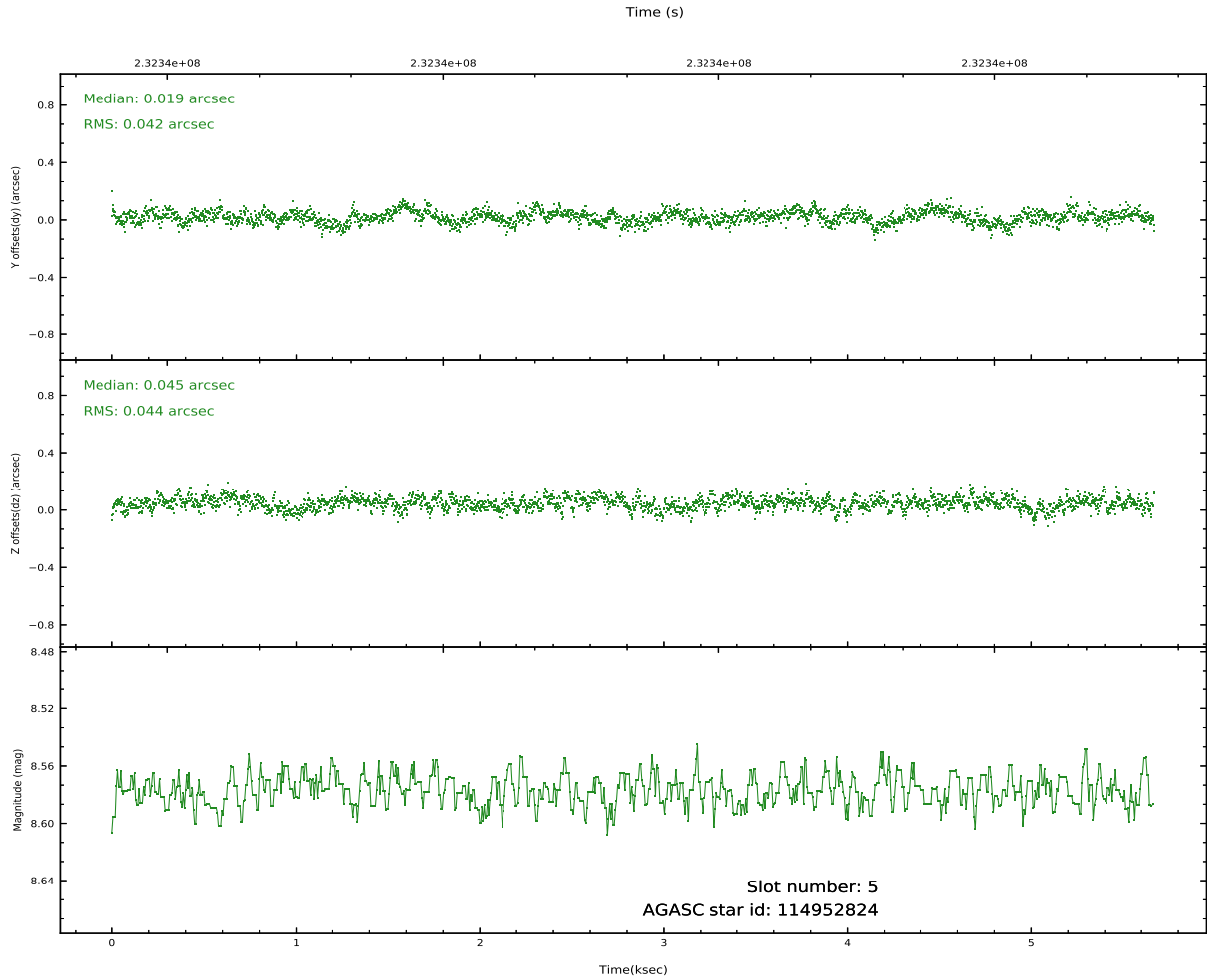
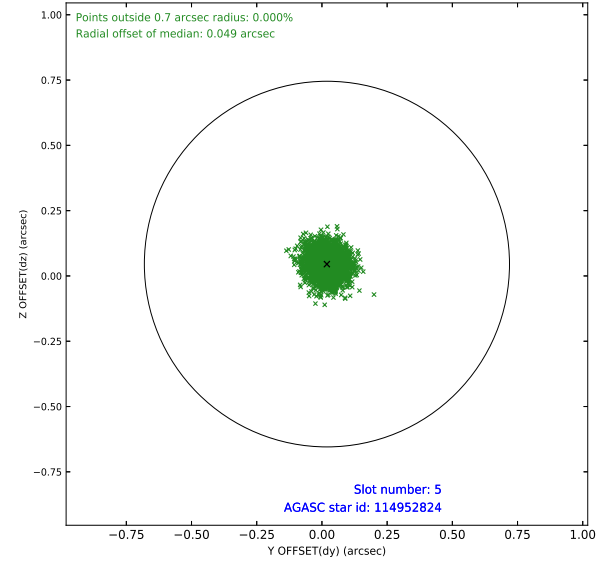
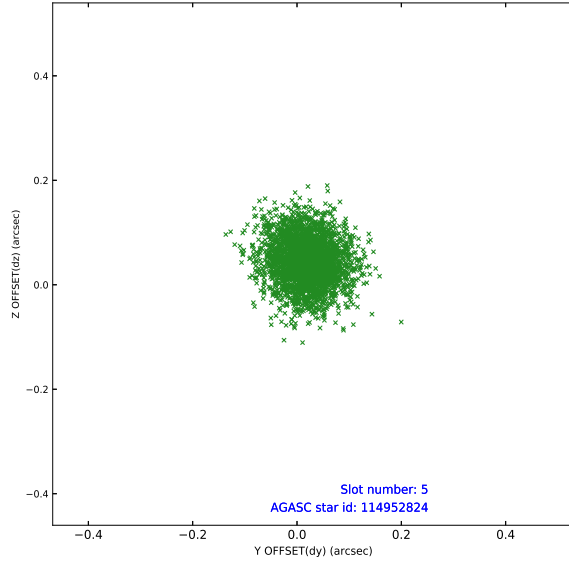
2.4.1 Slot 3



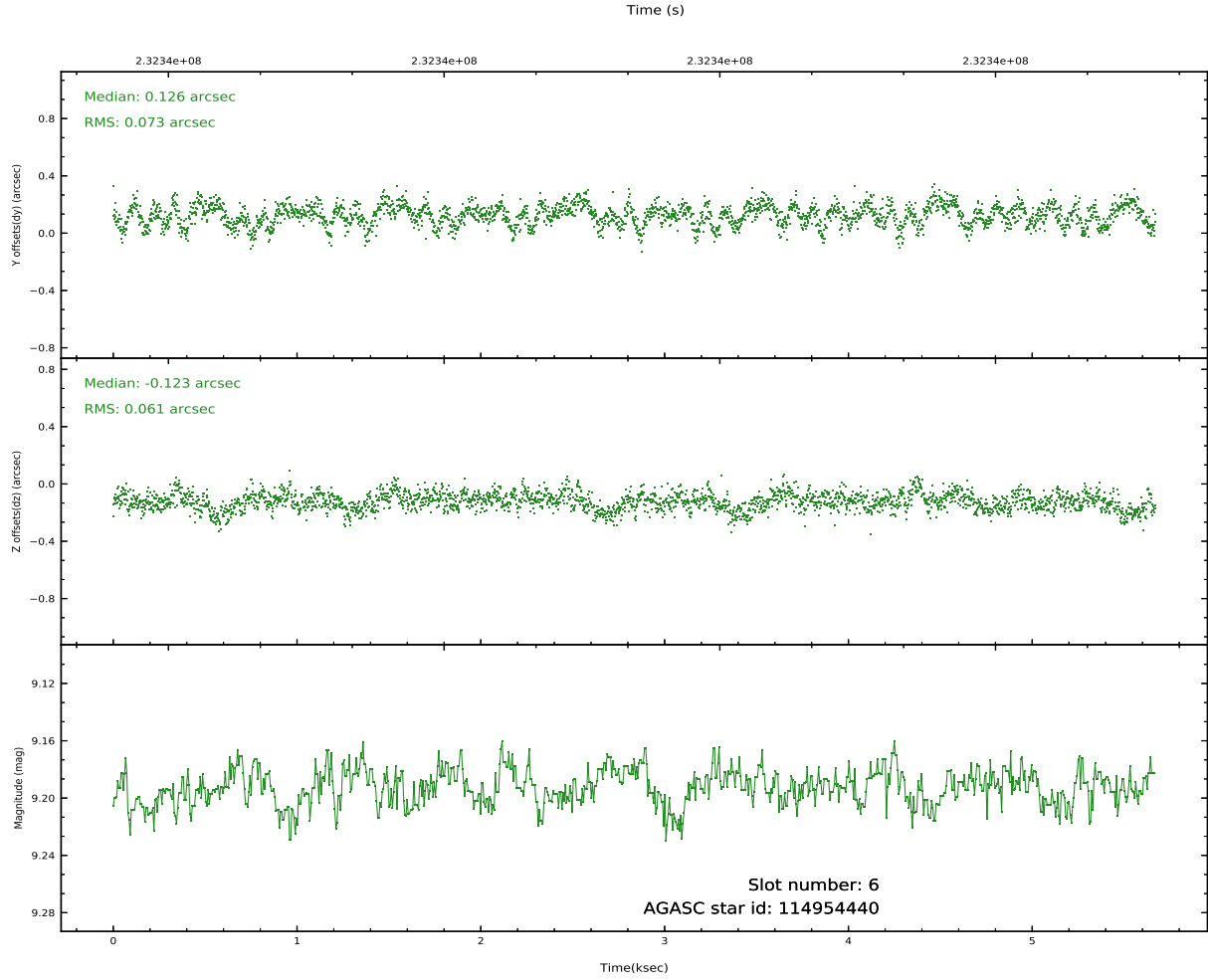
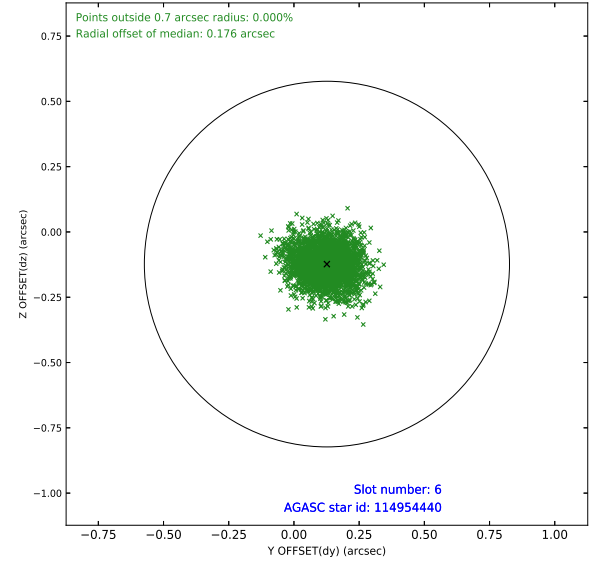
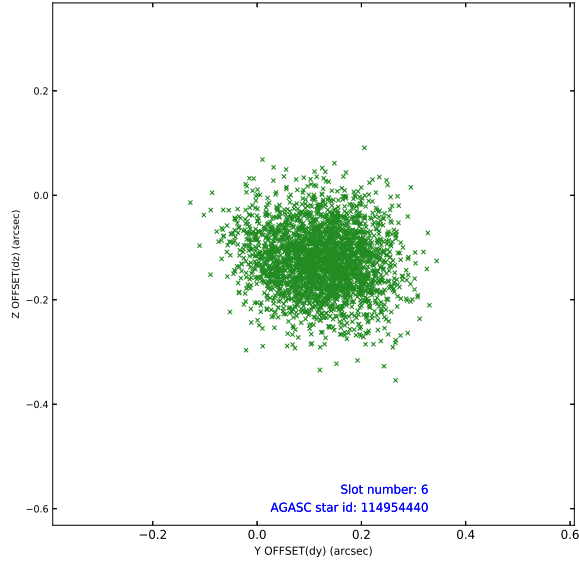
2.4.2 Slot 4



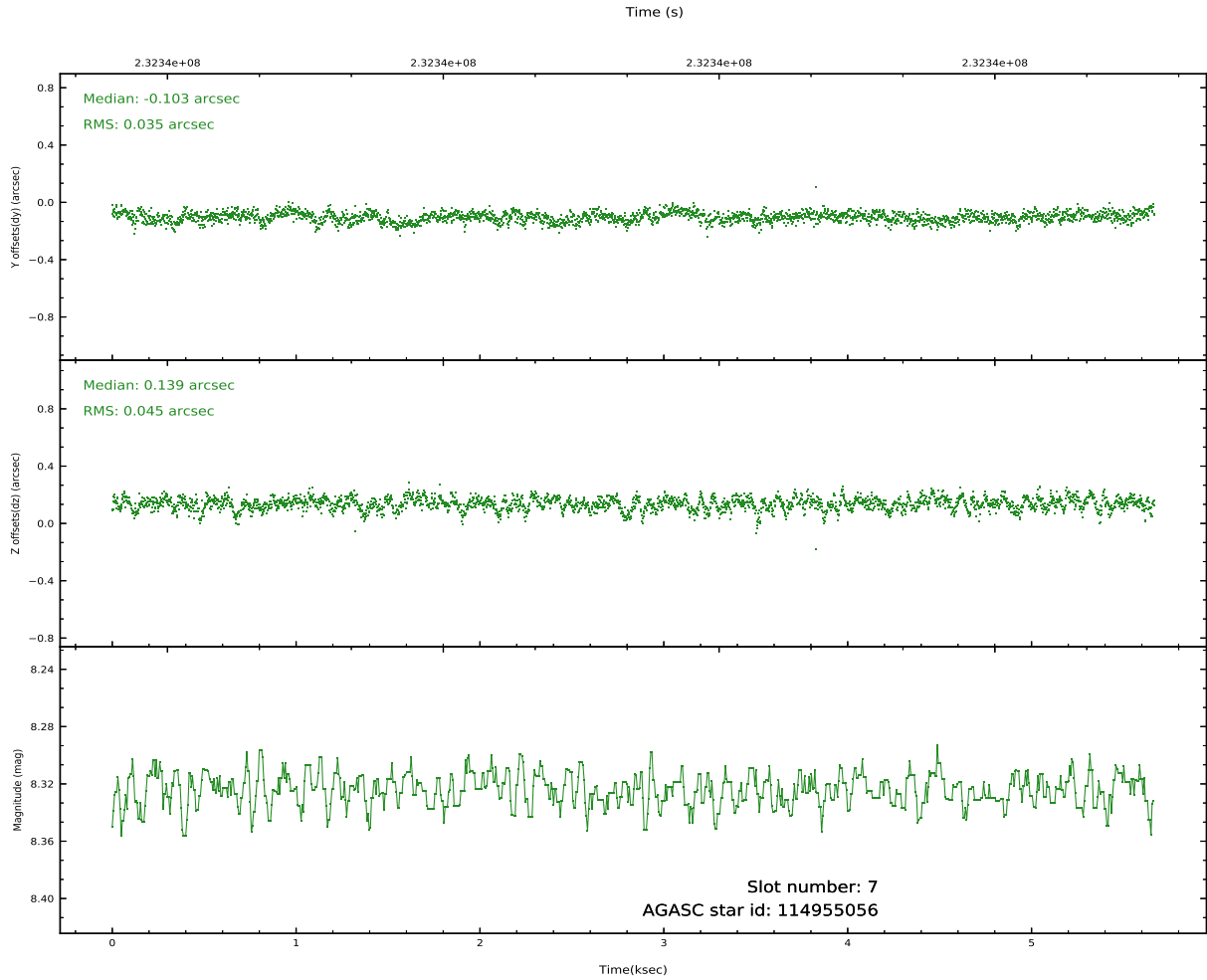
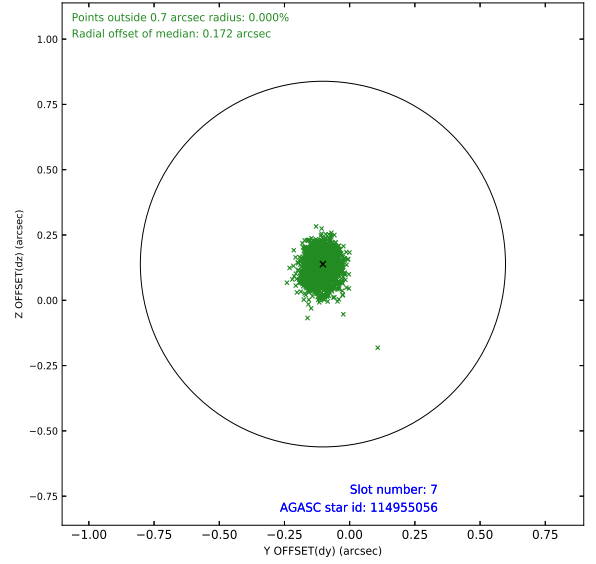
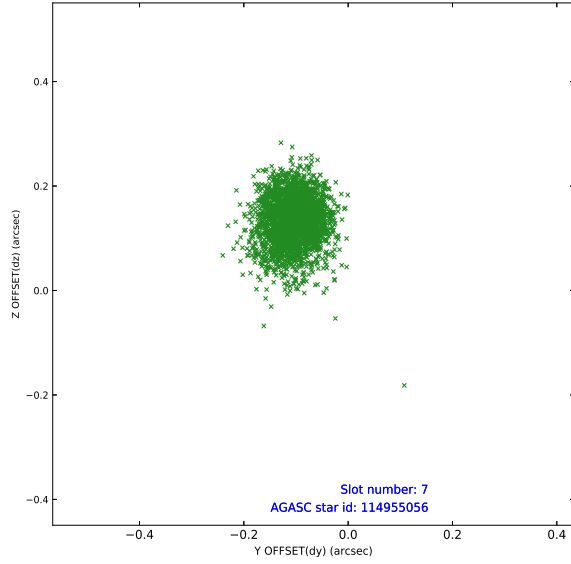
2.4.3 Slot 5



2.4.4 Slot 6

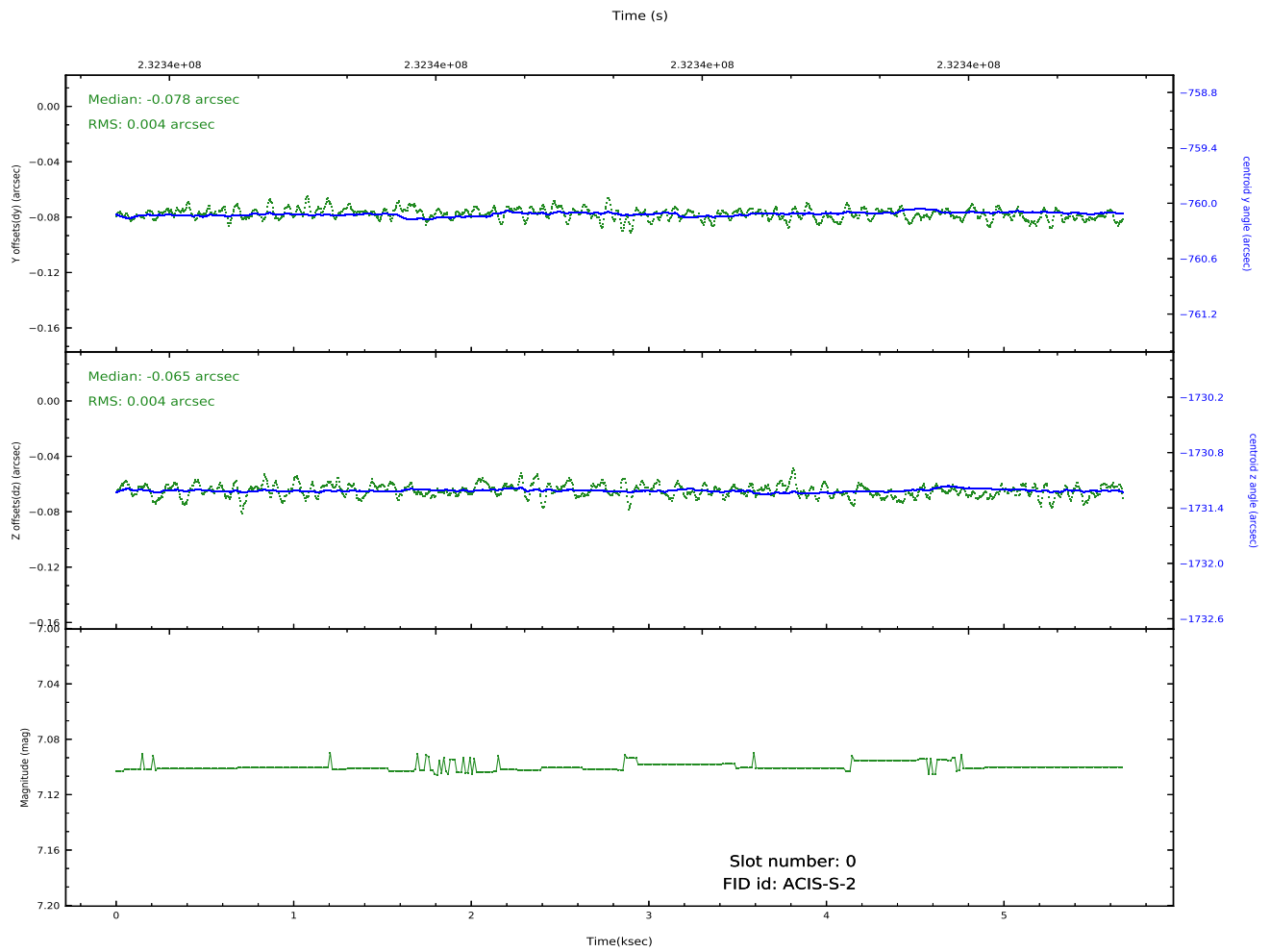
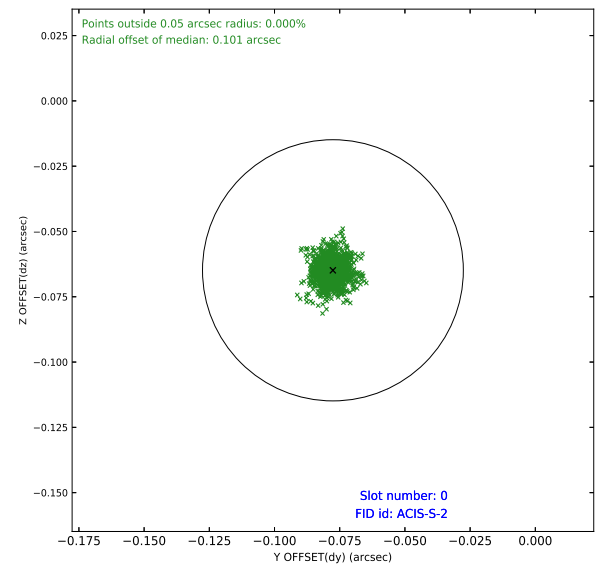
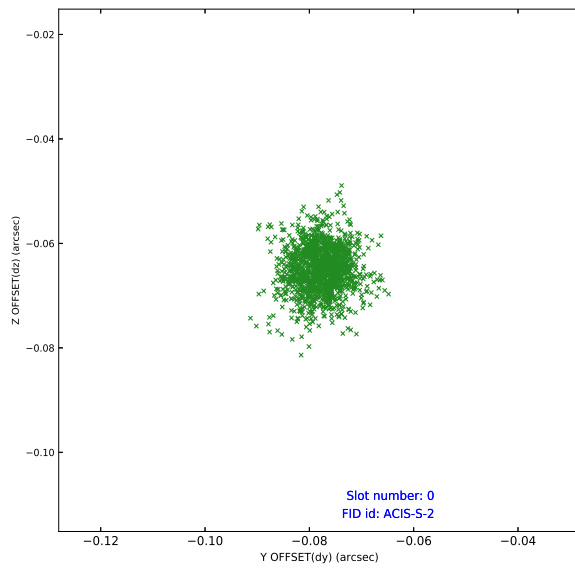


2.4.5 Slot 7

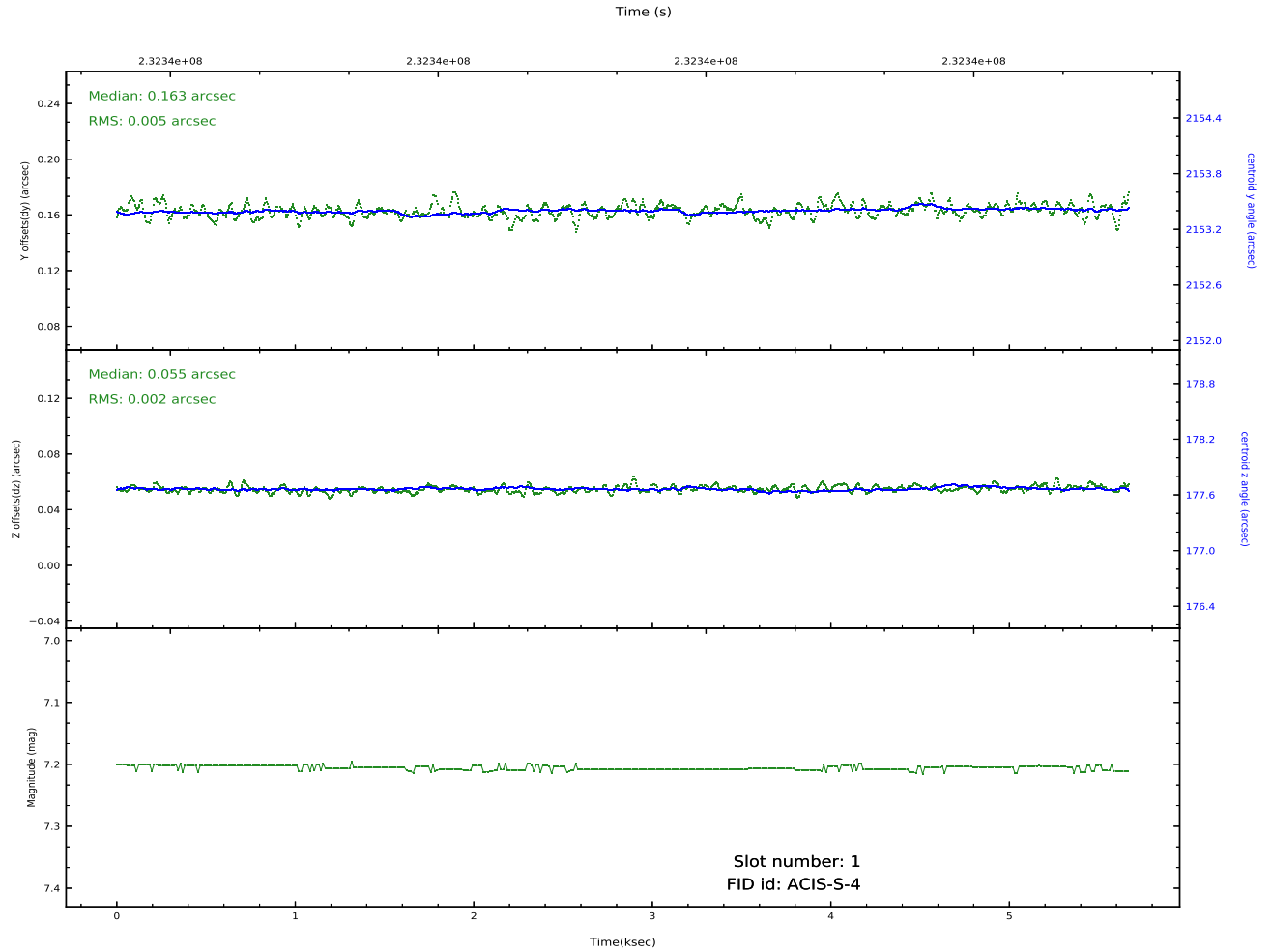
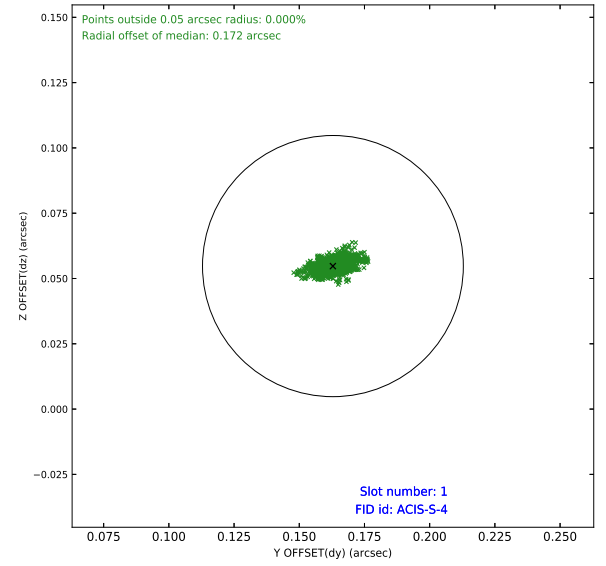
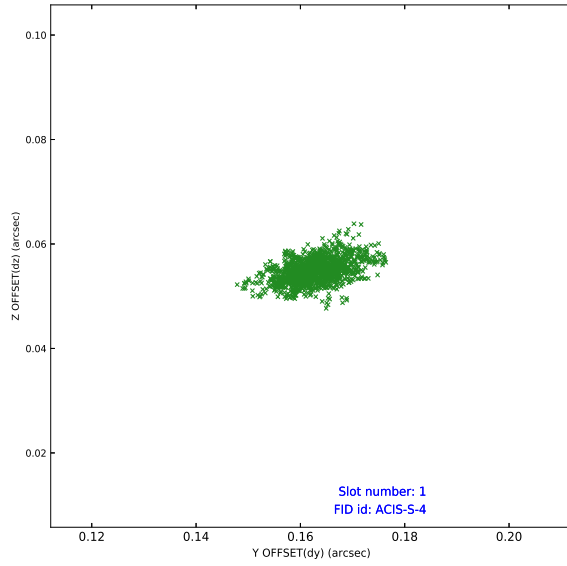


2.5 FID Slots

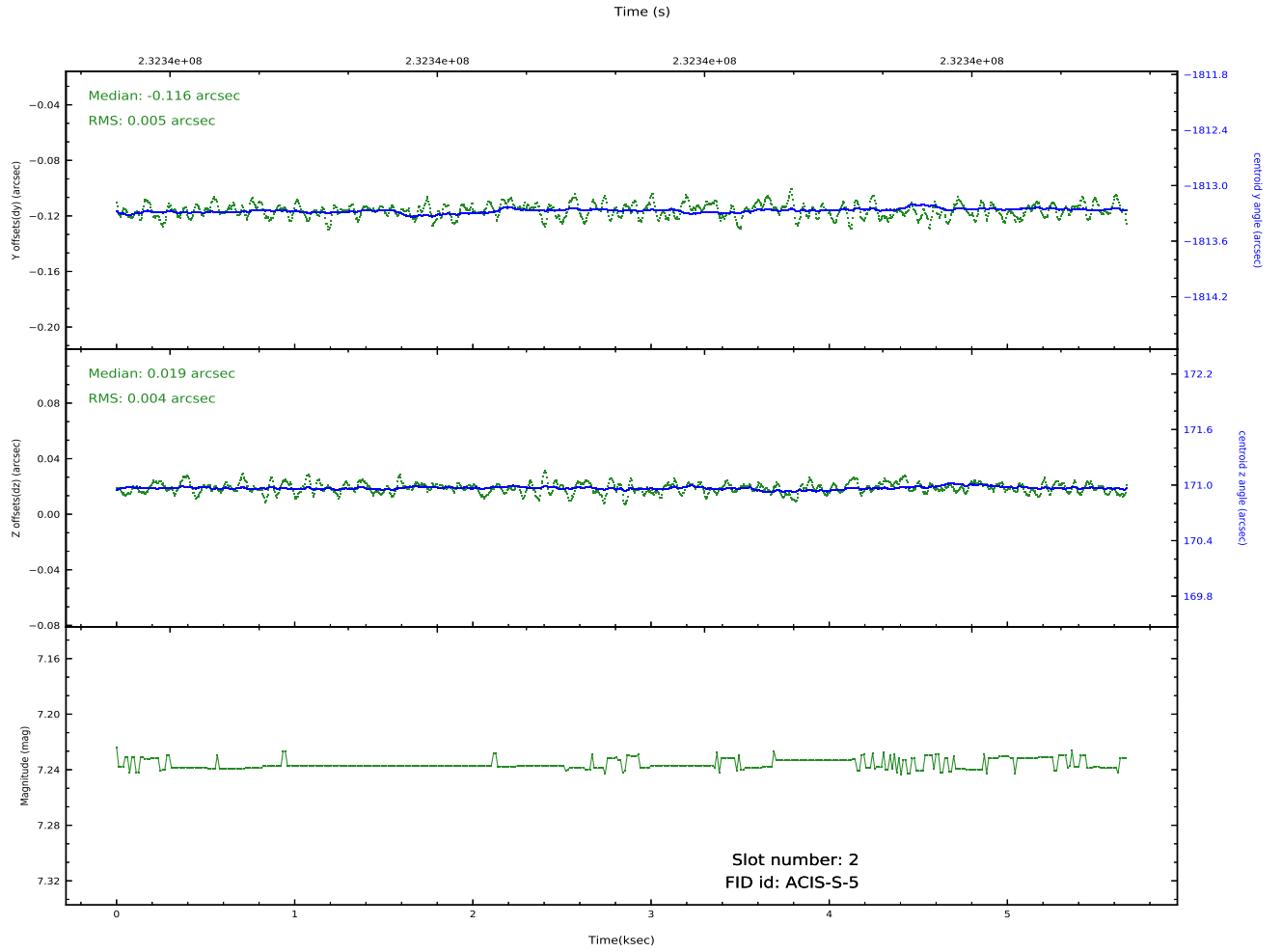
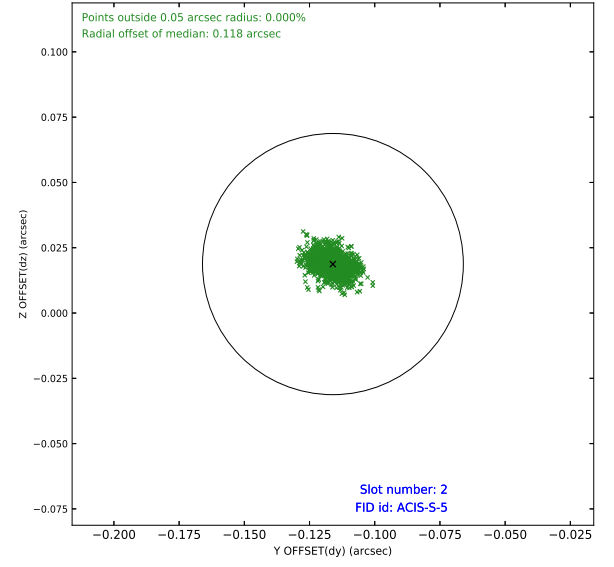
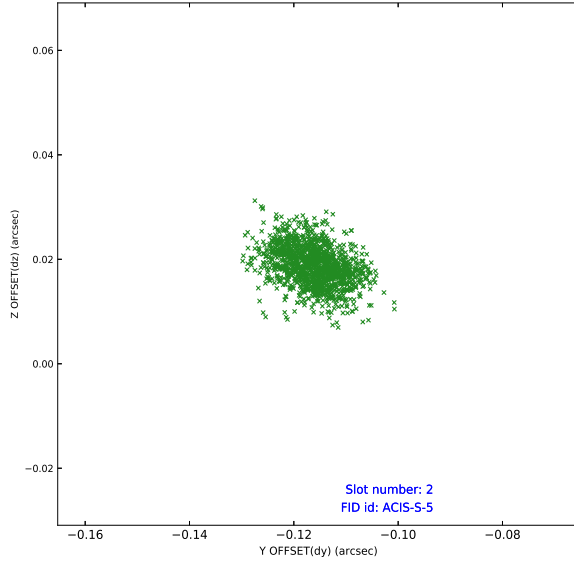
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.6696

A.2 Comments

Joint proposal with HST.
Window constraint was met.