

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5745 - L2 Version 4
Chandra X-Ray Center

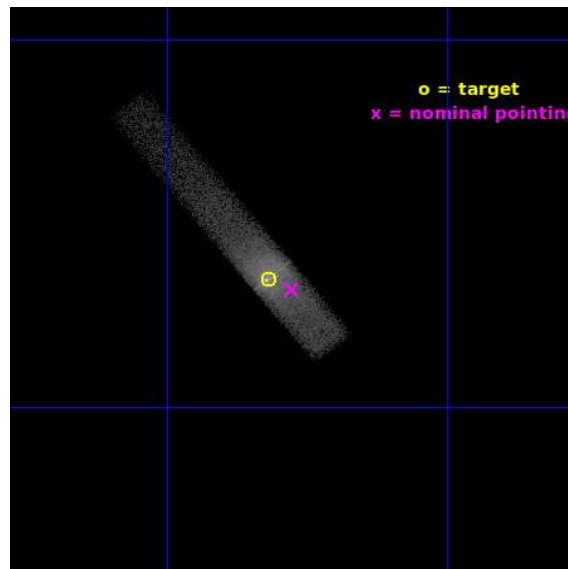
L2 Processing Date : Oct 8 2020

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1 Front

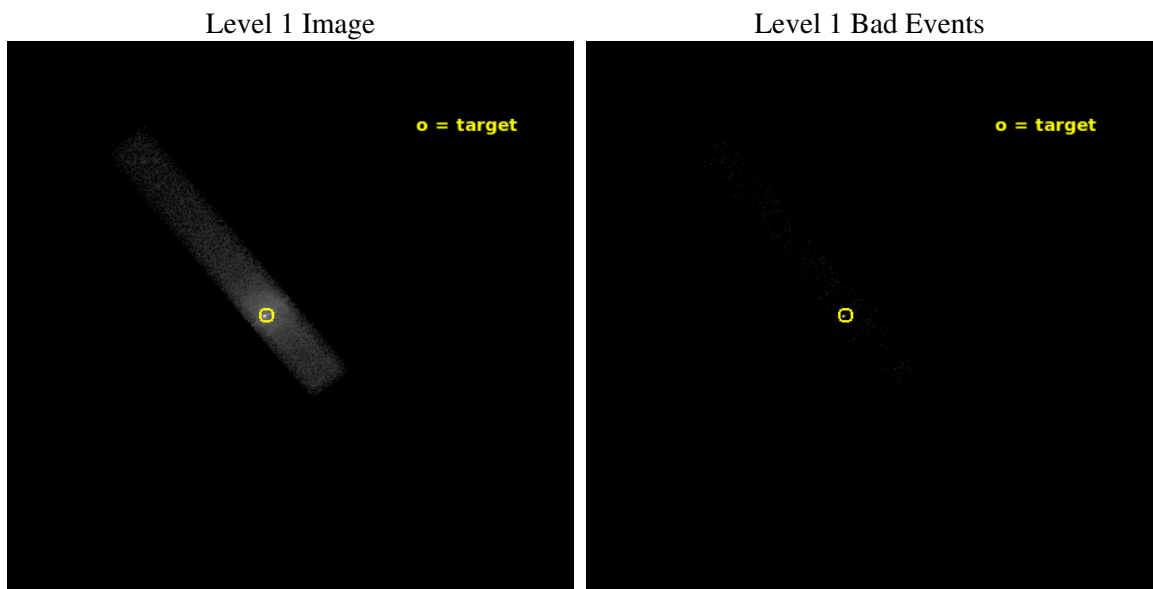
seq_num	701167	Sequence number
obs_id	5745	Observation id
title	The X-ray Flares of Knot 'HST-1' in the M87 Jet (monitoring)	Pro
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.69415464627	Nominal RA [deg]
dec_nom	12.386734867726	Nominal Dec [deg]
roll_nom	230.93258857611	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5187.6000772715	Sum of GTIs [s]
livetime	4704.8794461015	Livetime [s]
ontime7	5187.6000772715	Sum of GTIs [s]
l2events	59570	Number of level 2 events



2 OBI

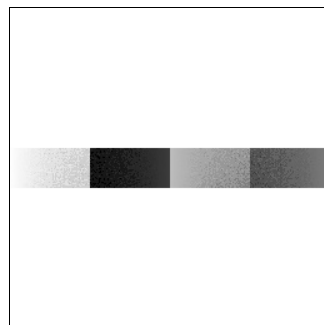
2.1 OBI

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	5187.6000772715	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	5187.6000772715	Sum of GTIs [s]
date	2020-10-08T07:04:45	Date and time of file creation	l1events	78153	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

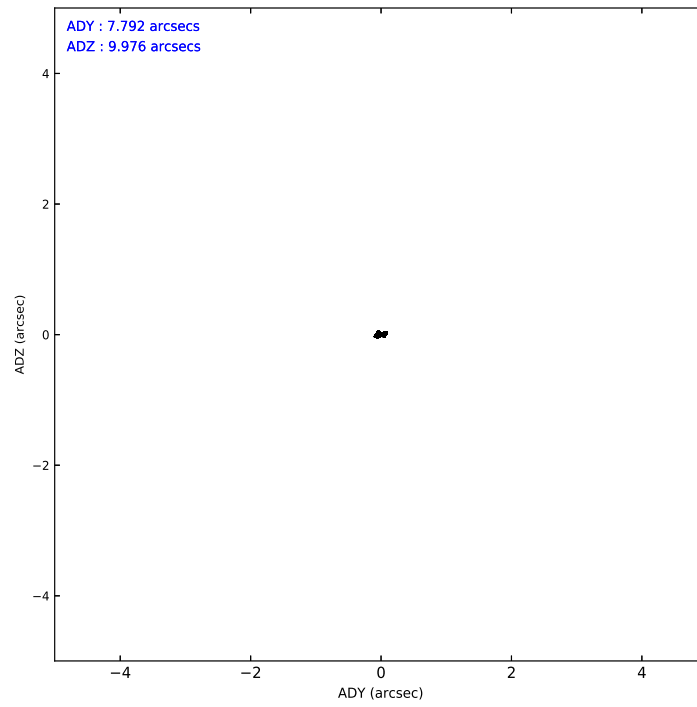
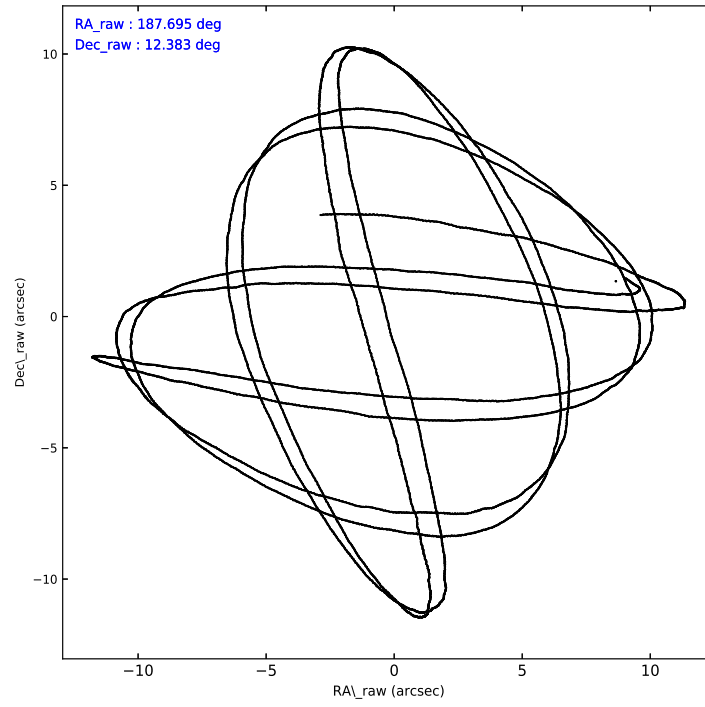
	ccd 7
level 1 events	78153
rejected events	17978
rejected %	23%

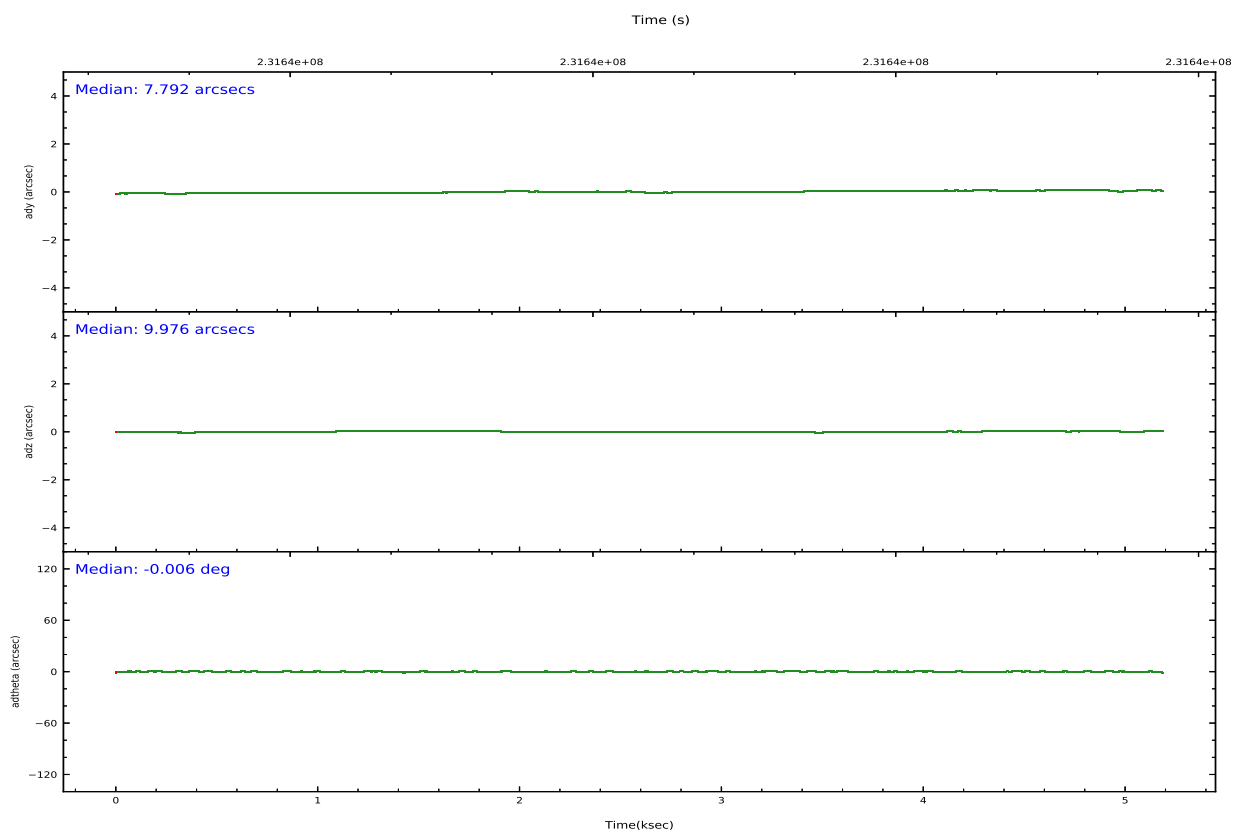
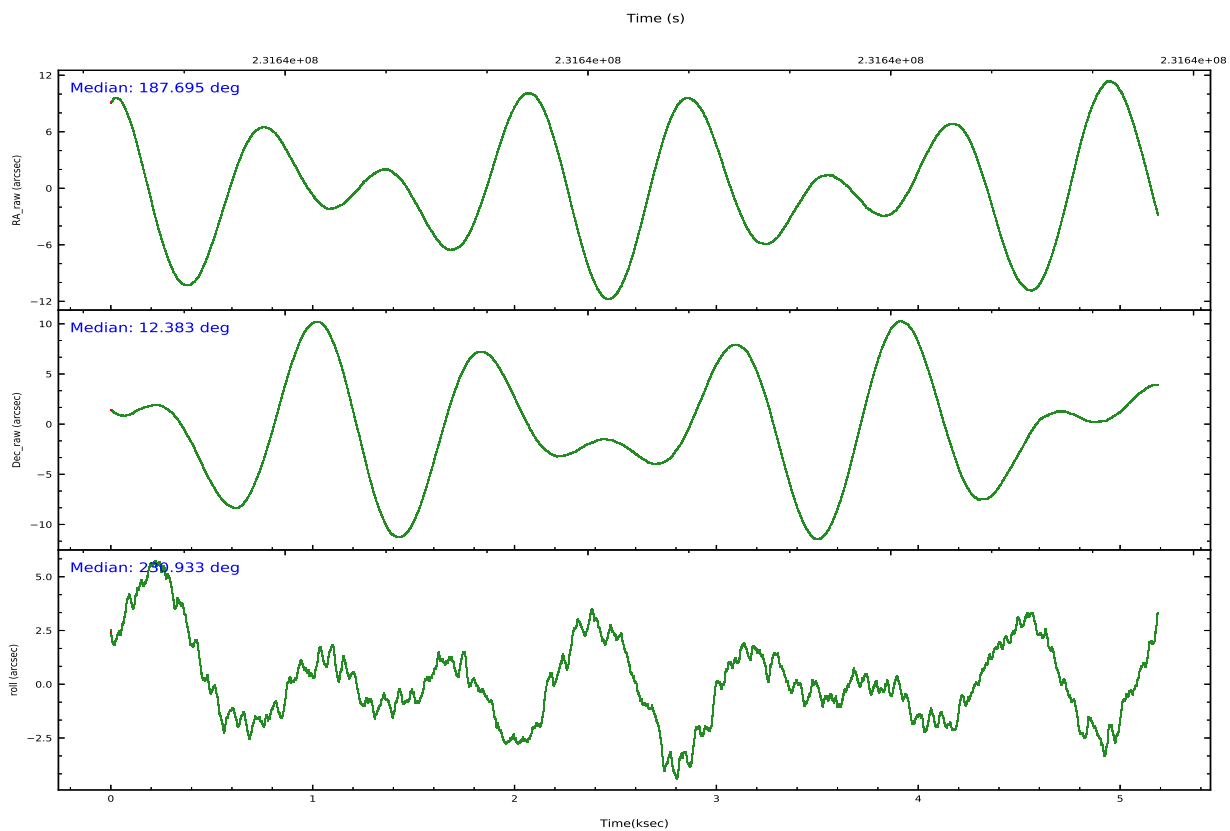
	ccd 7
grade 0 events	18597
	23%
grade 1 events	482
	0%
grade 2 events	15665
	20%
grade 3 events	7136
	9%
grade 4 events	7182
	9%
grade 5 events	3037
	3%
grade 6 events	14477
	18%
grade 7 events	11577
	14%

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	187.698862	187.69415464627	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.410095	12.386734867726	Subarray start row	449	449
[deg] Pointing Roll	230.775937	230.93258857611	Subarray row count	128	128
[s] Window start time (MET)	231379264.184000	231379264.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	231984064.184000	231984064.184000	[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)	231636325.184000	231634684.25967			
Observation start date	2005-05-04T23:24:21	2005-05-04T22:58:04			
[s] Observation end time (MET)	231641325.184000	231641458.99748			
Observation end date	2005-05-05T00:47:41	2005-05-05T00:50:58			
Read mode	TIMED	TIMED			

2.3 Aspect



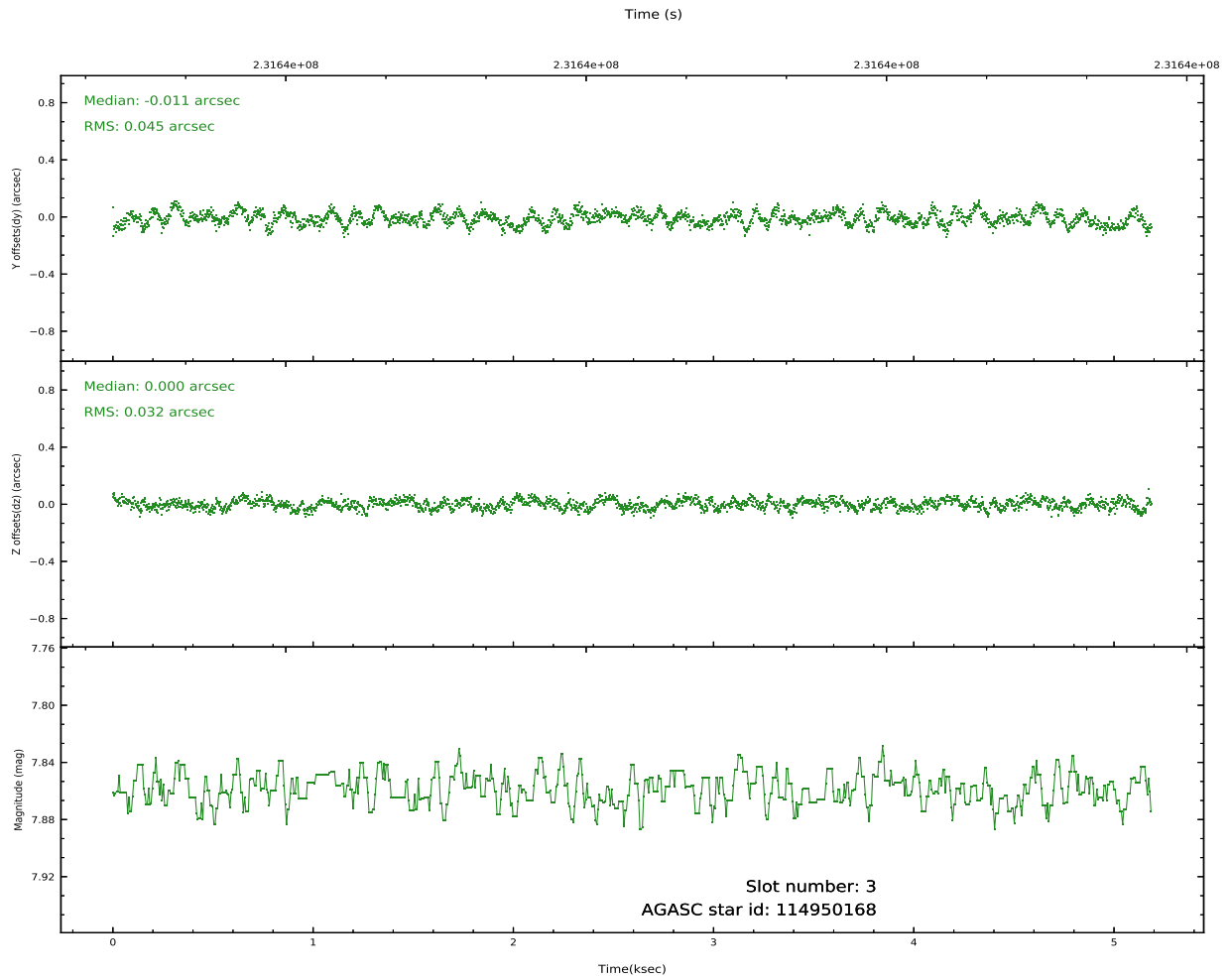
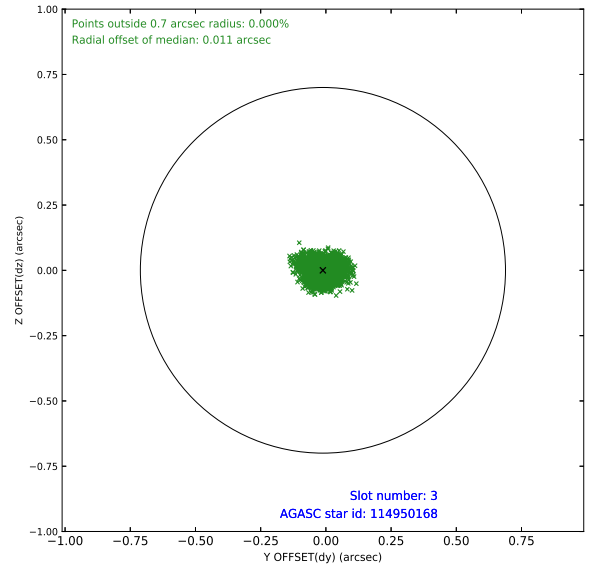
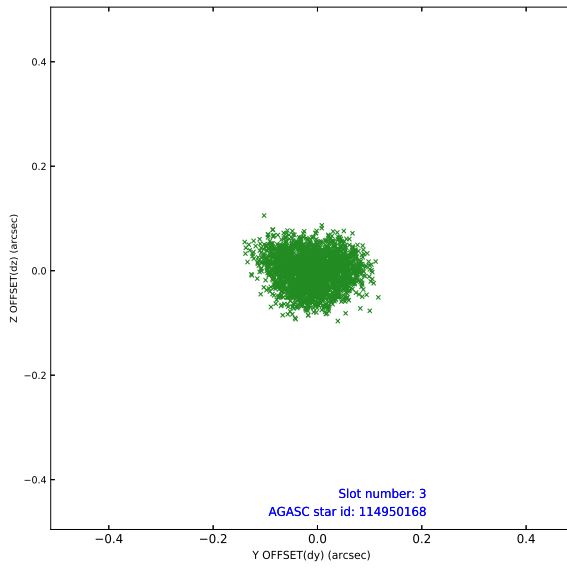


Slot Statistics

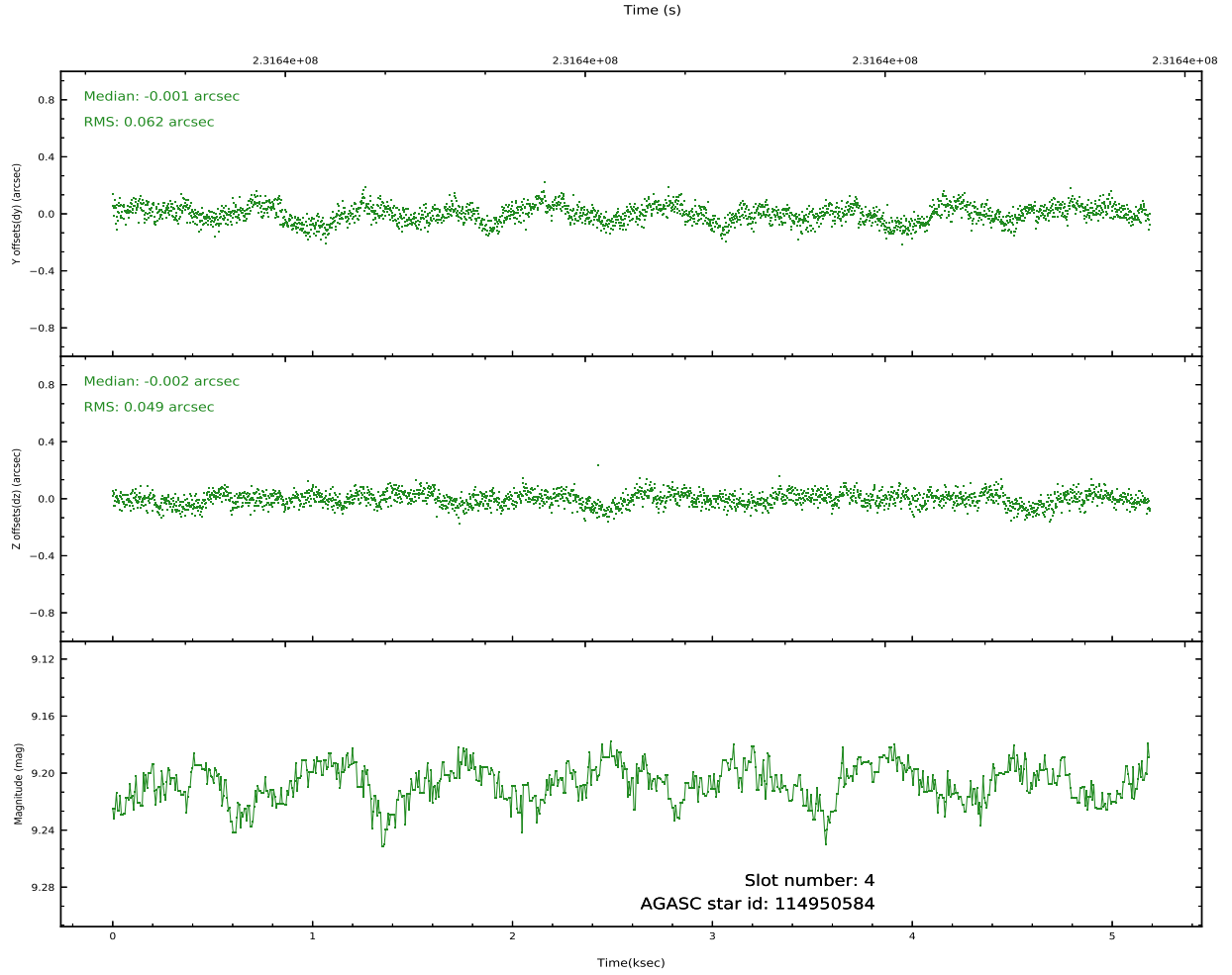
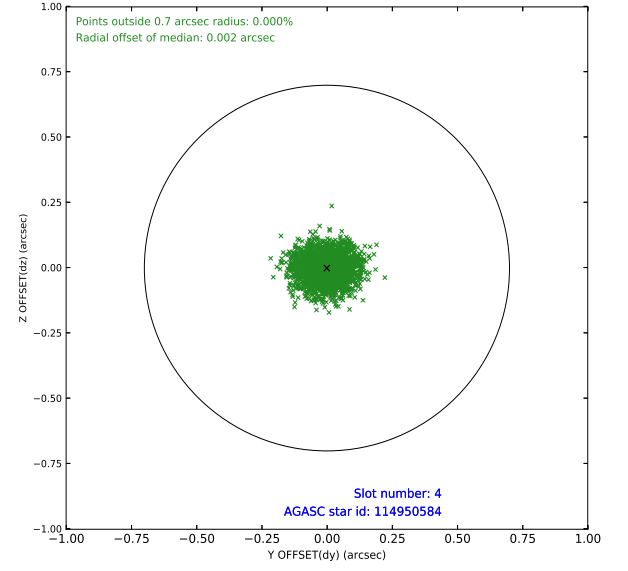
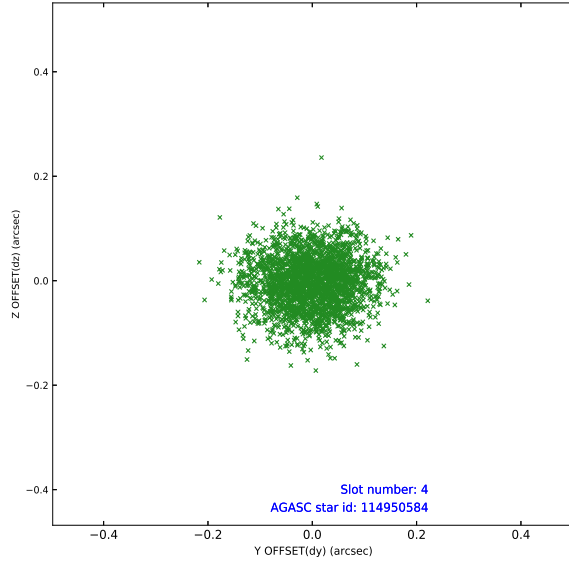
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1266	1.000	-0.075	-0.065	0.007	0.010	0.000000	0.000000	-760.57	-1731
1	FID		ACIS-S-4	7.21	1266	1.000	0.170	0.054	0.006	0.011	0.000000	0.000000	2152.35	176
2	FID		ACIS-S-5	7.24	1266	1.000	-0.127	0.020	0.006	0.011	0.000000	0.000000	-1812.04	171
3	GUIDE	used	114950168	7.86	2532	1.000	-0.011	0.000	0.060	0.092	187.143398	12.117441	2051.63	-849
4	GUIDE	used	114950584	9.21	2532	1.000	-0.001	-0.002	0.083	0.135	187.487323	11.827248	2097.98	748
5	GUIDE	used	114952824	8.57	2529	1.000	0.008	0.064	0.062	0.101	187.703904	12.486727	-223.39	-160
6	GUIDE	used	114954440	9.21	2531	1.000	0.141	-0.184	0.103	0.162	186.915066	12.219118	2273.98	-1703
7	GUIDE	used	114955056	8.31	2529	1.000	-0.135	0.122	0.069	0.108	187.914001	12.127854	309.43	1227

2.4 Star Slots

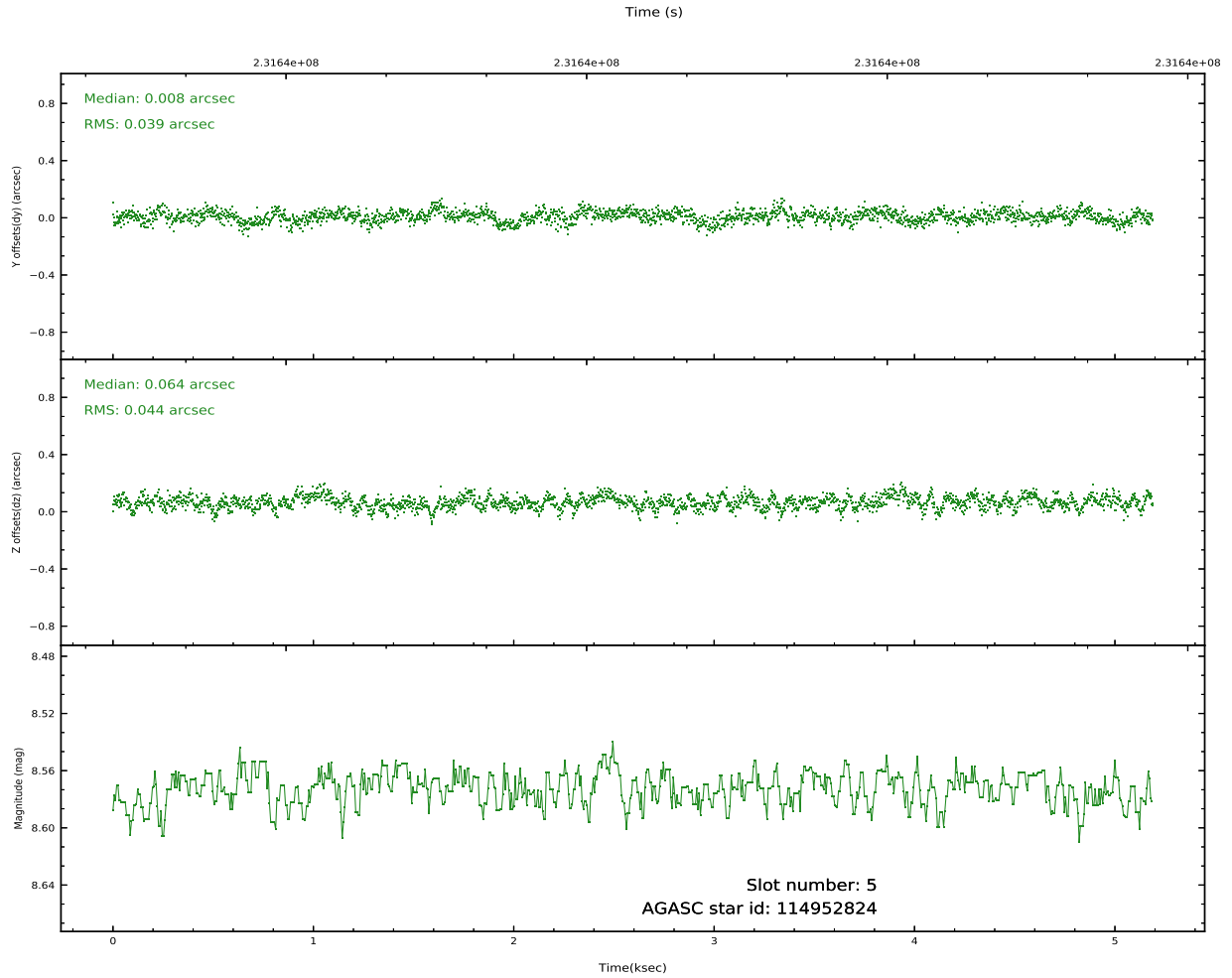
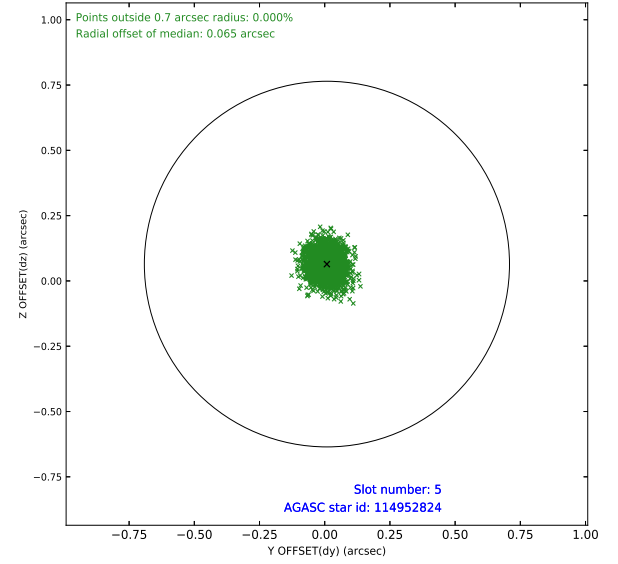
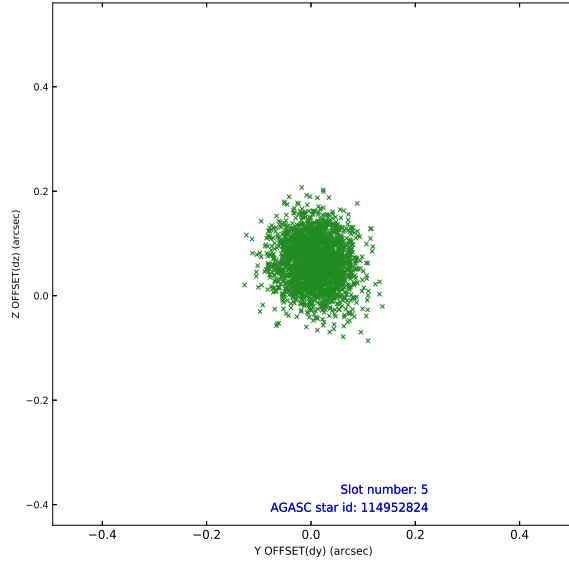
2.4.1 Slot 3



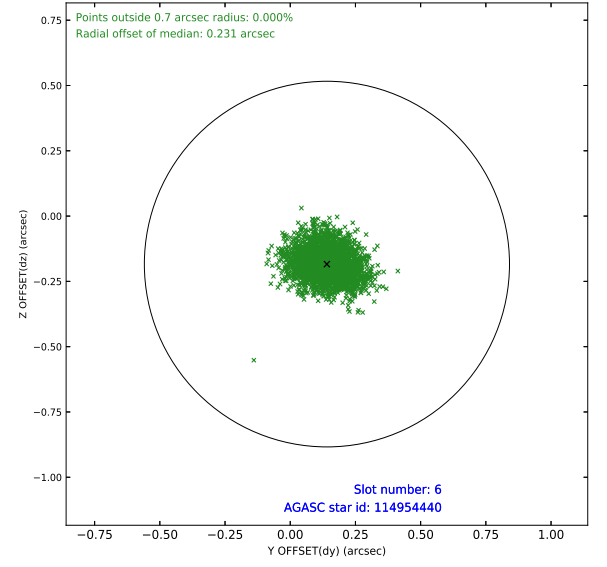
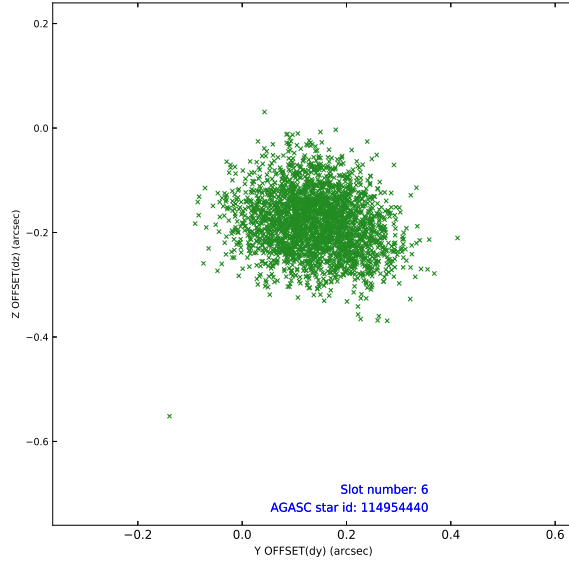
2.4.2 Slot 4



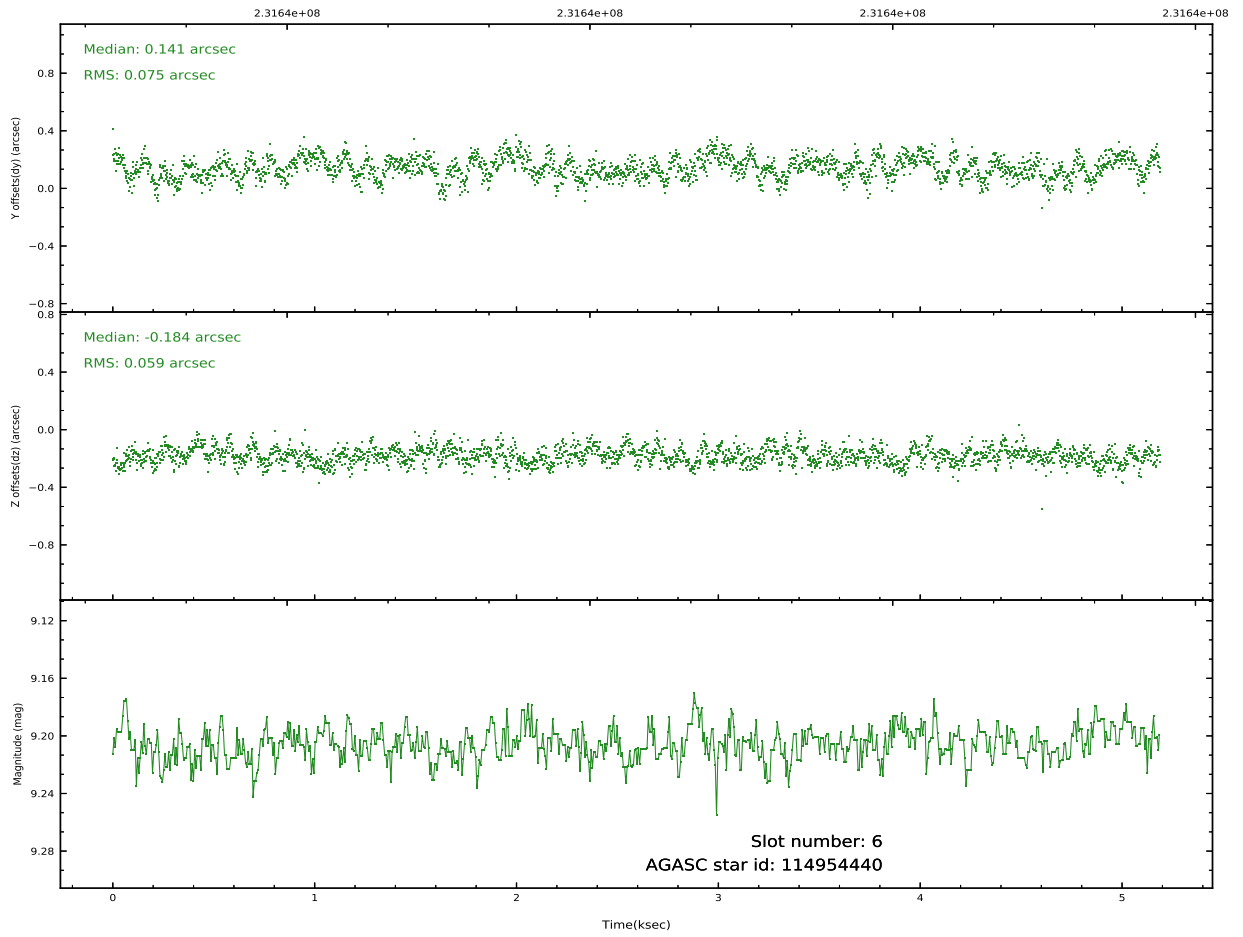
2.4.3 Slot 5



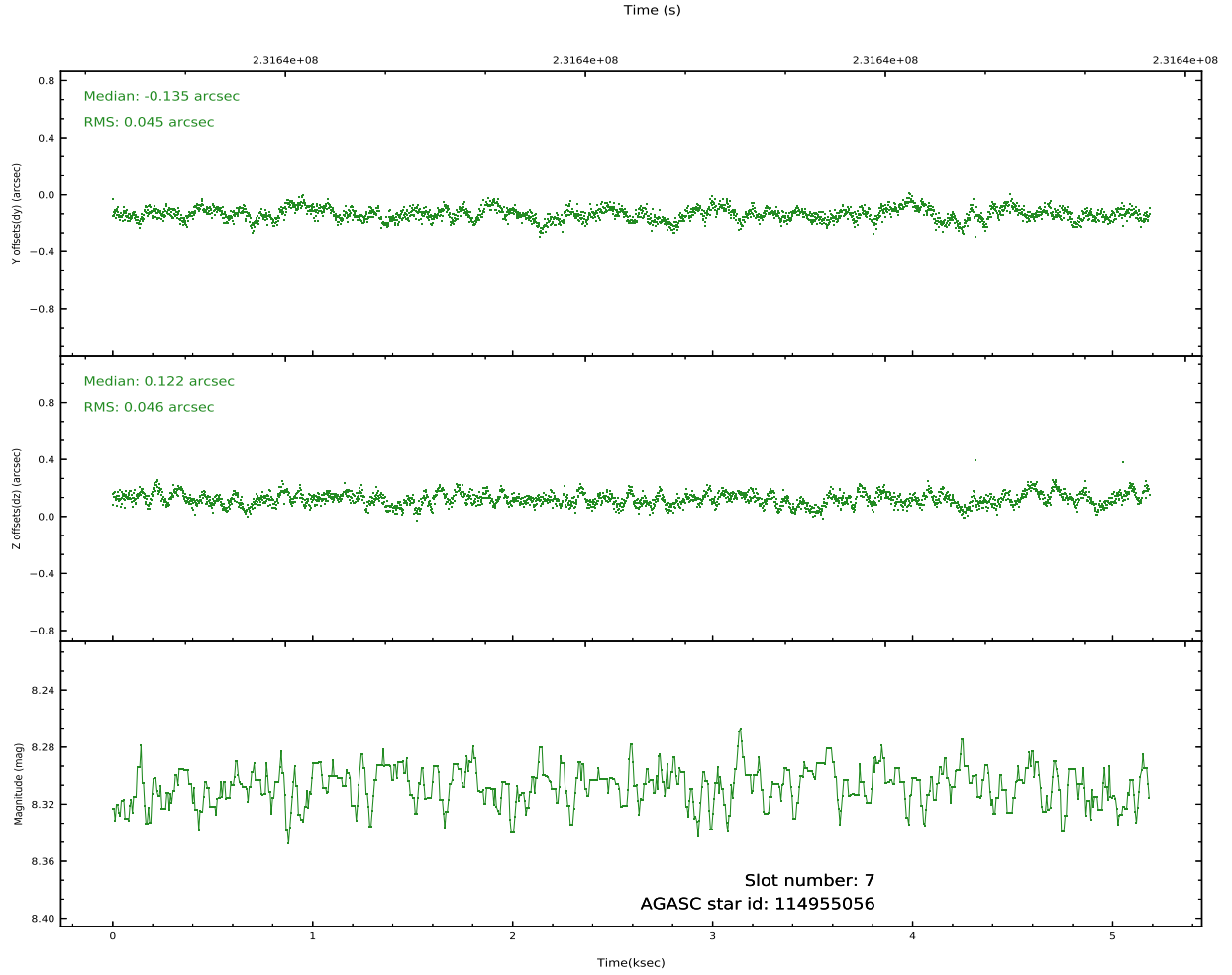
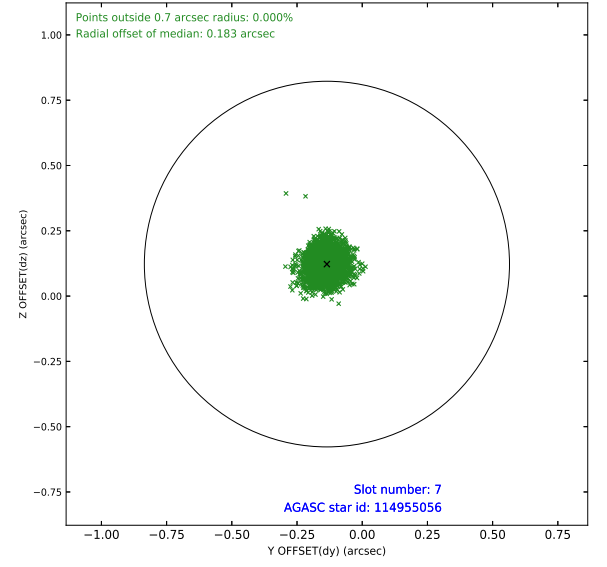
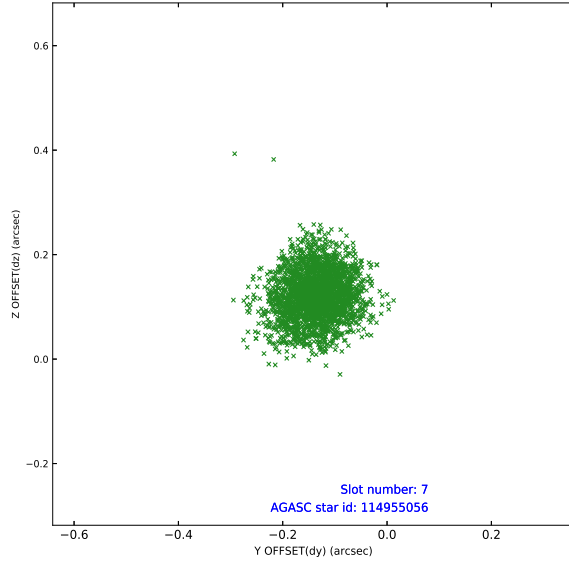
2.4.4 Slot 6



Time (s)

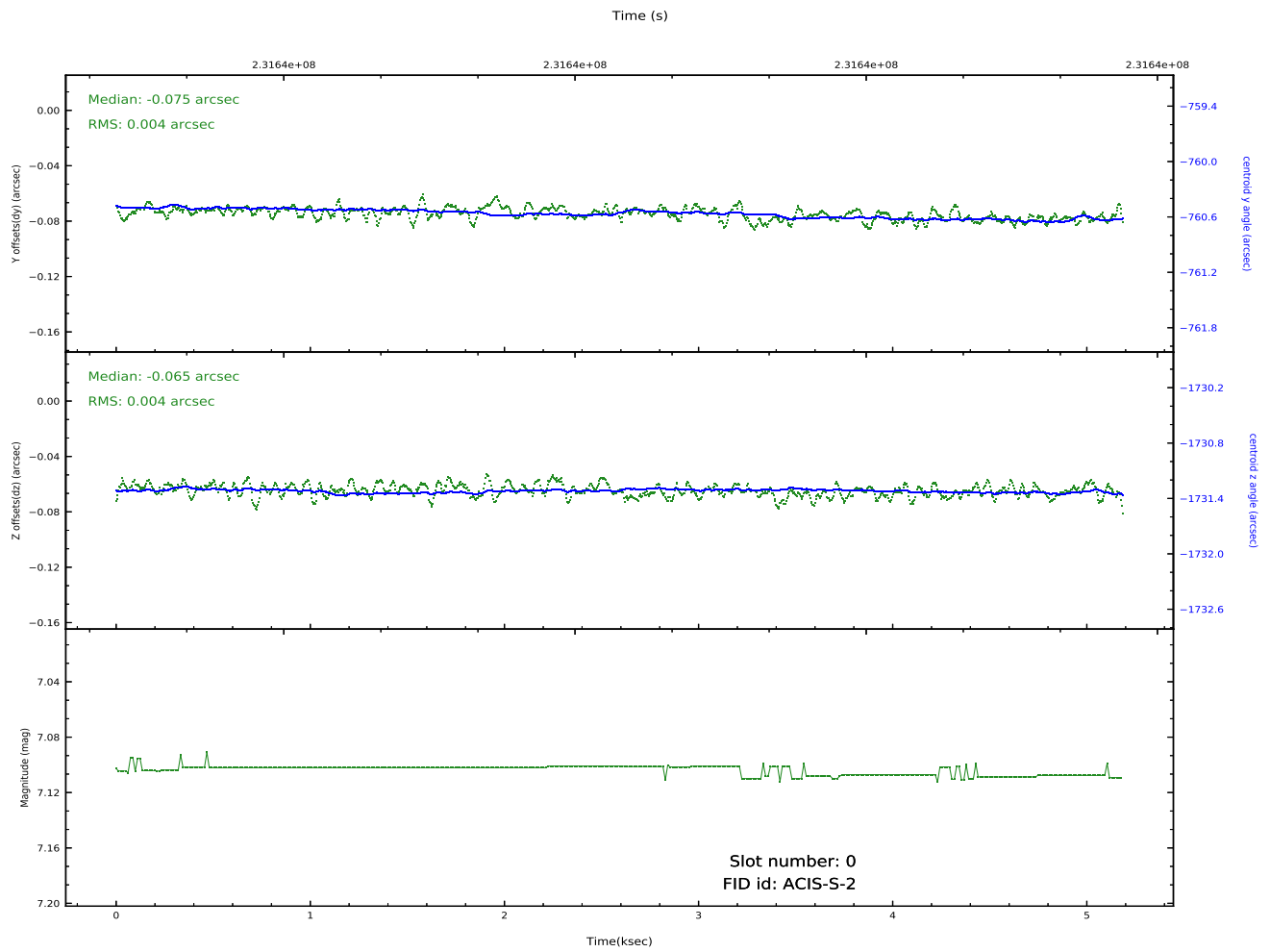
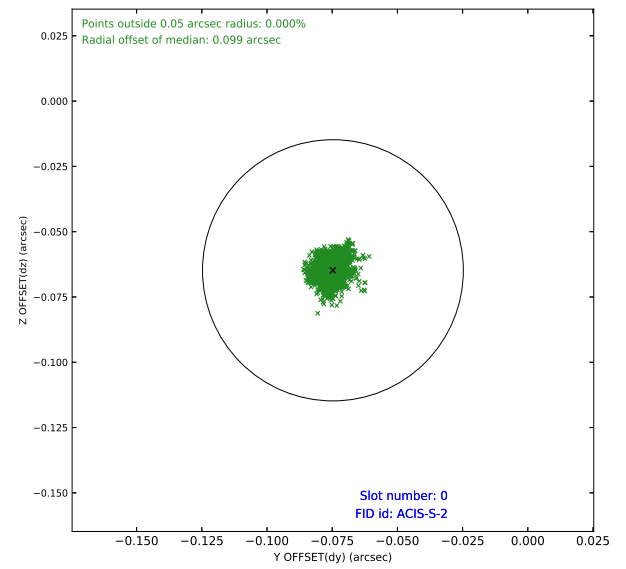
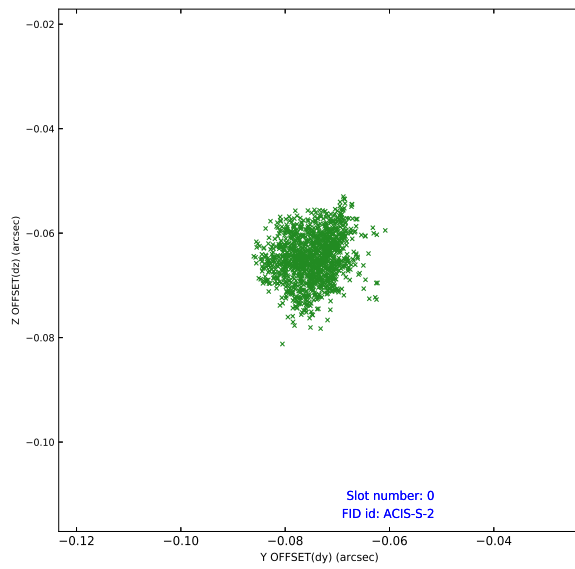


2.4.5 Slot 7

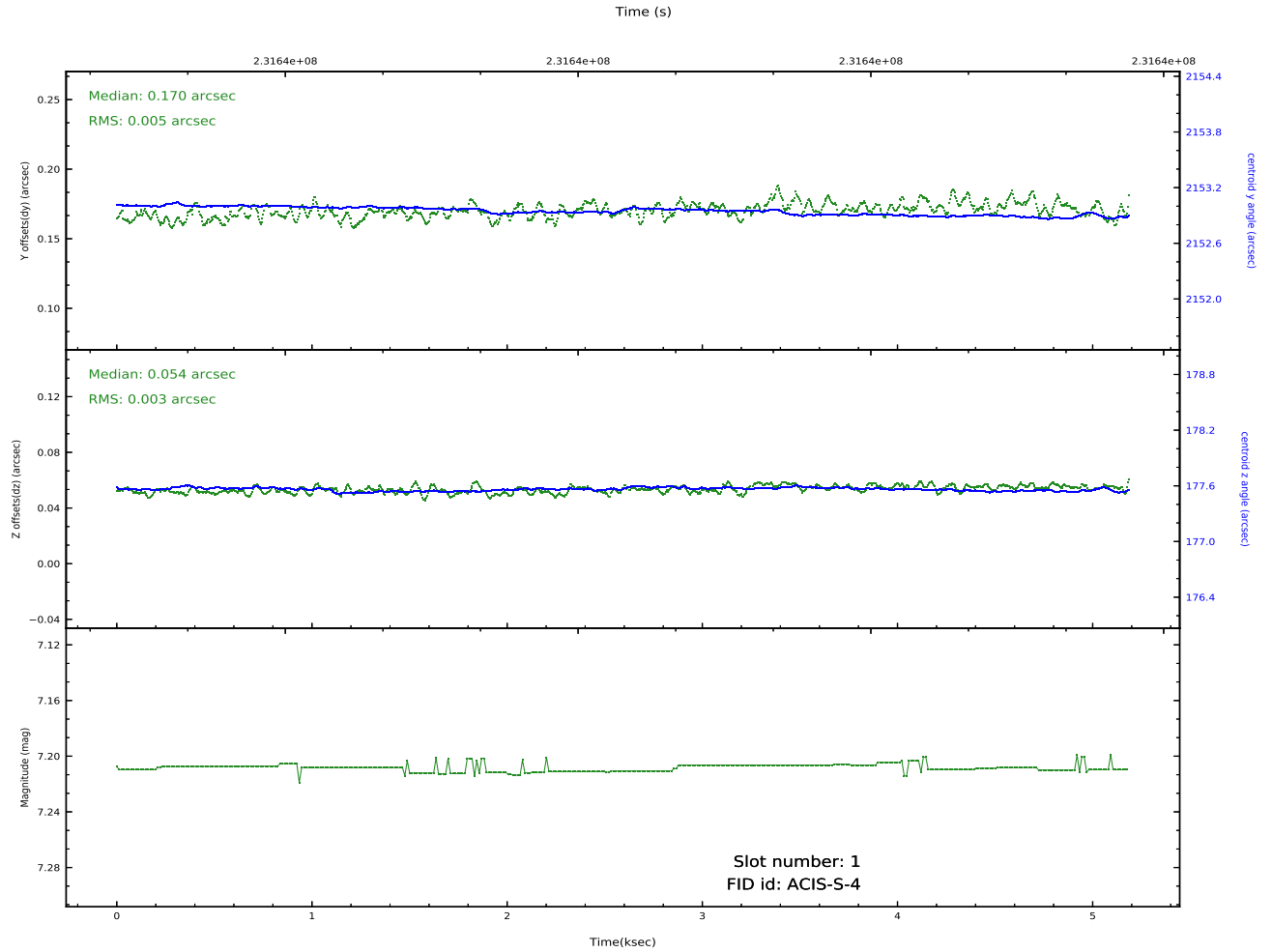
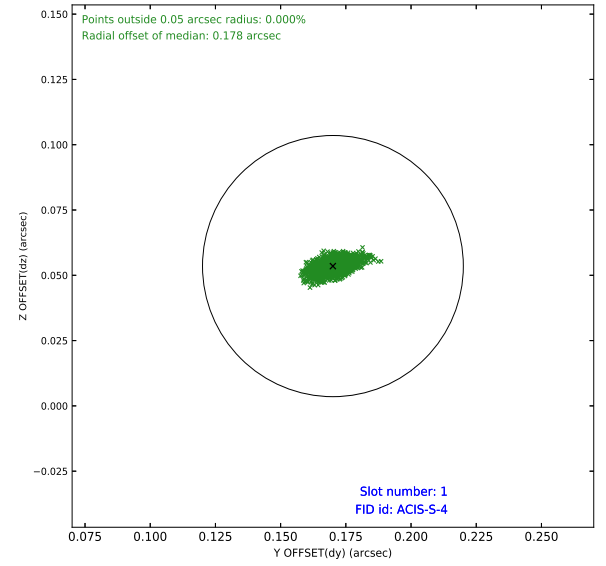
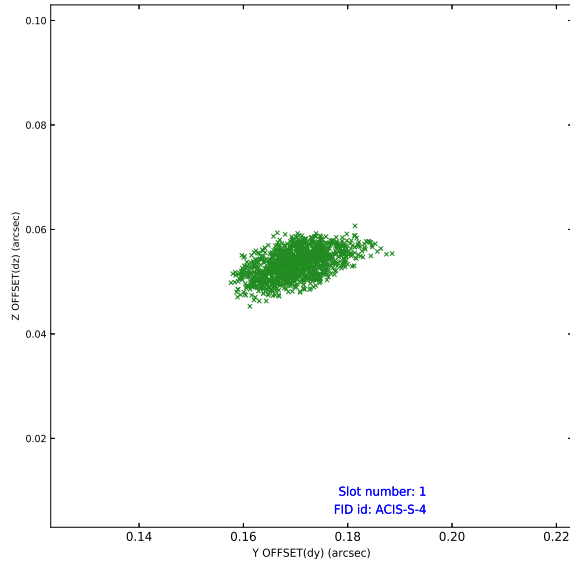


2.5 FID Slots

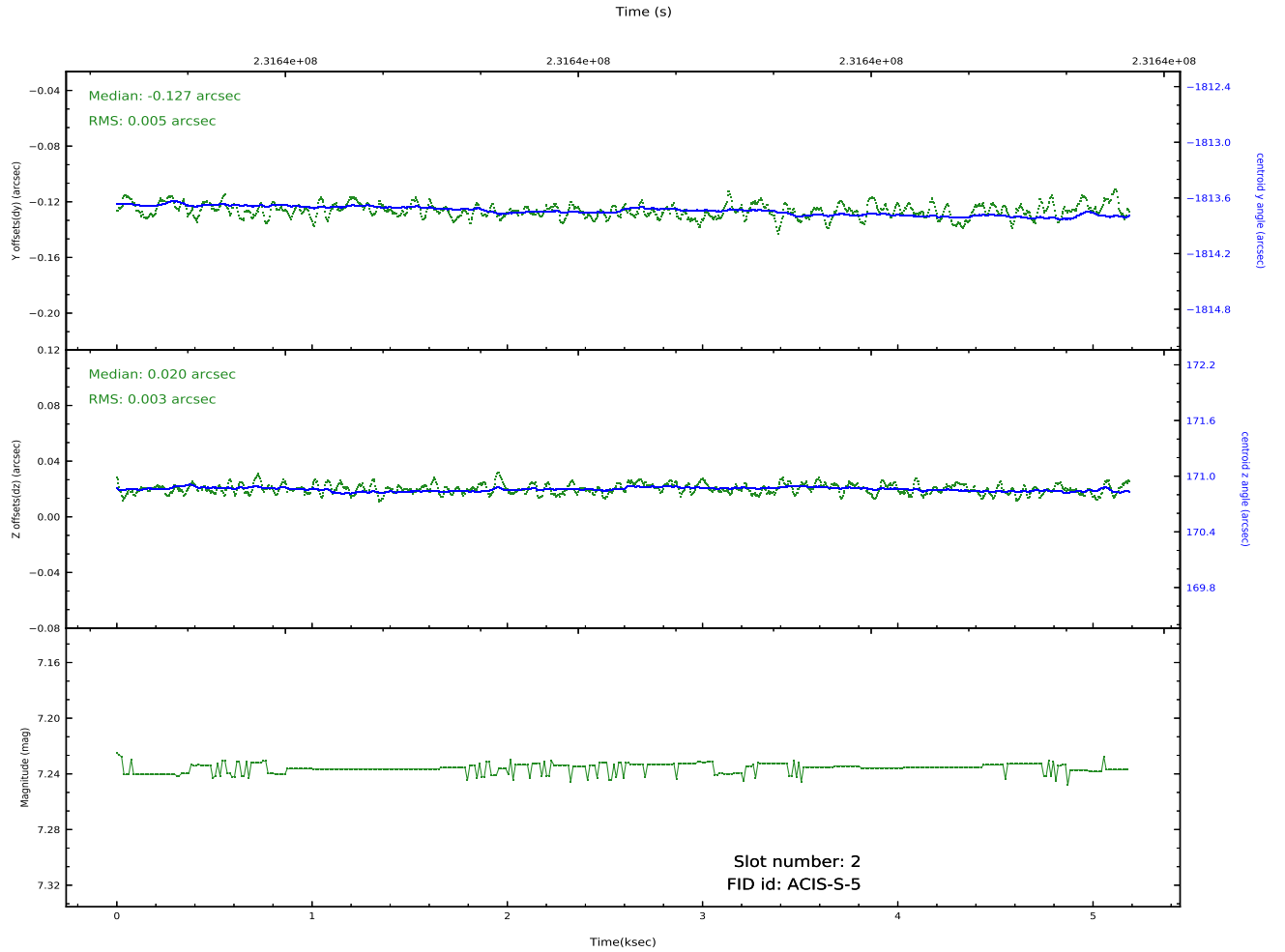
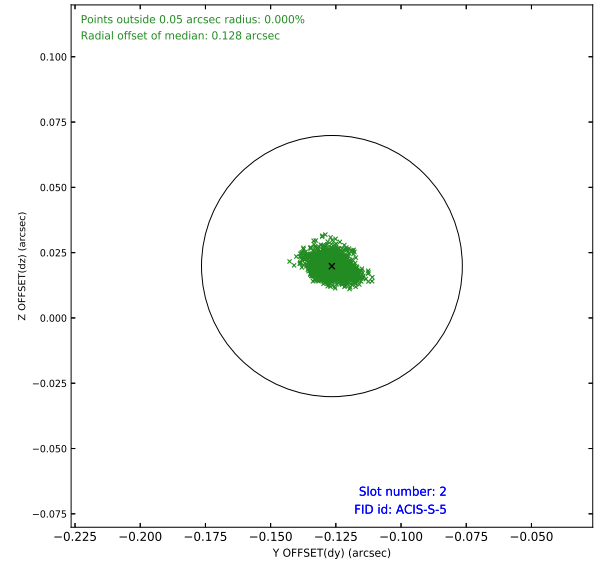
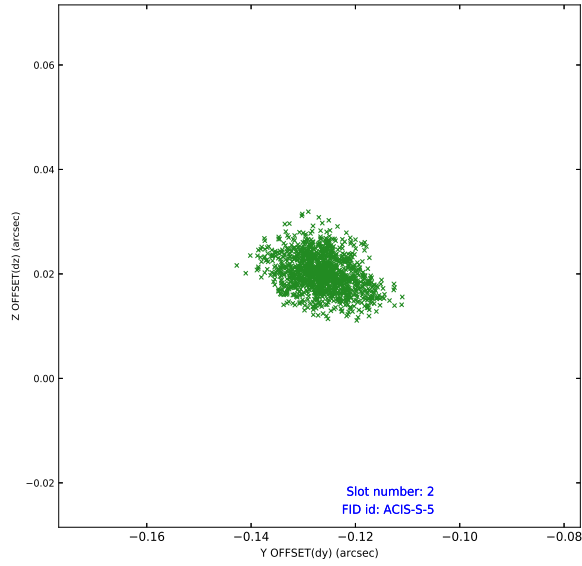
2.5.1 Slot 0



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	5.1876

A.2 Comments

Joint proposal with HST.
Window constraint was met.