

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5737 - L2 Version 4
Chandra X-Ray Center

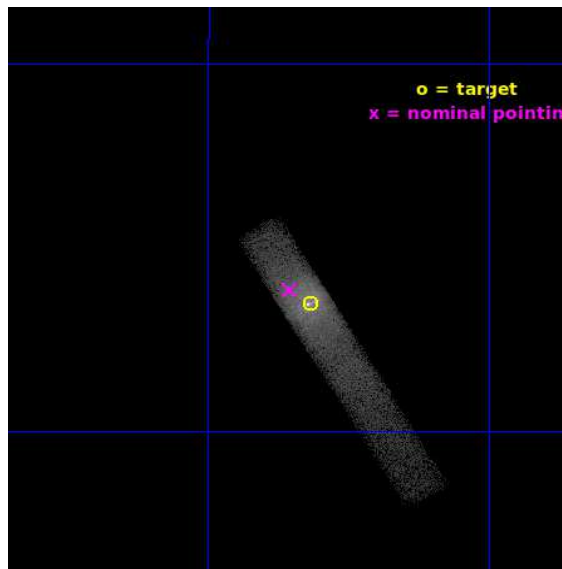
L2 Processing Date : Oct 5 2020

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1 Front

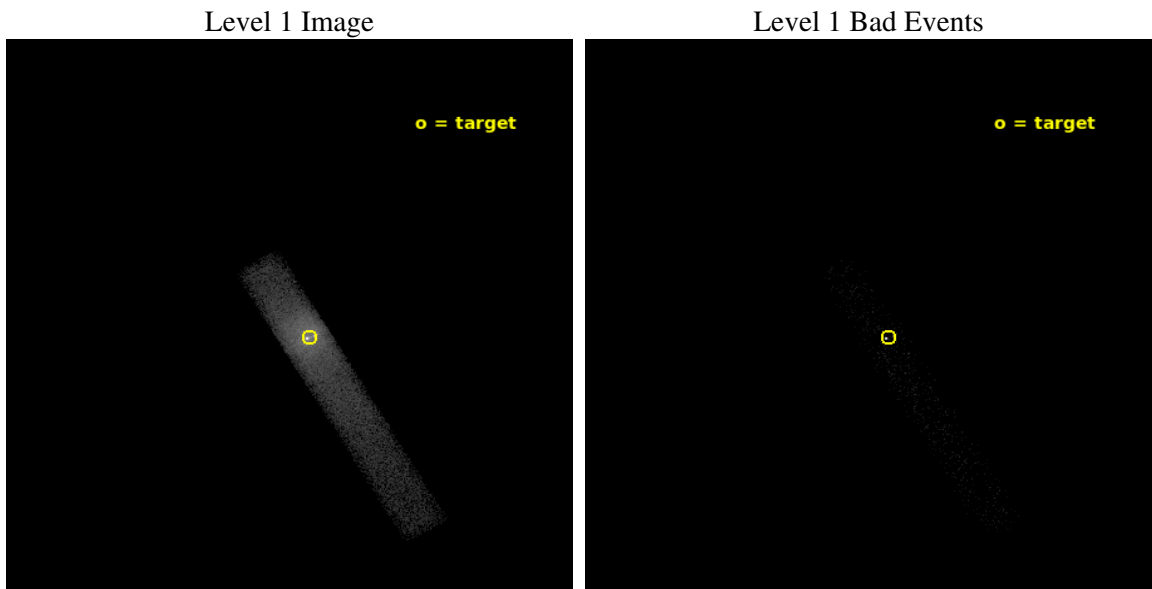
seq_num	701159	Sequence number
obs_id	5737	Observation id
title	The X-ray Flares of Knot 'HST-1' in the M87 Jet (monitoring)	Pro
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.71359822082	Nominal RA [deg]
dec_nom	12.397693354473	Nominal Dec [deg]
roll_nom	58.806812794825	Nominal Roll [deg]
revision	4	Processing version of data
ontime	4646.000069201	Sum of GTIs [s]
livetime	4213.676826774	Livetime [s]
ontime7	4646.000069201	Sum of GTIs [s]
l2events	55663	Number of level 2 events



2 OBI

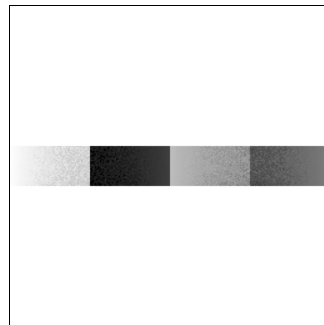
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	4500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	4646.000069201	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	4646.000069201	Sum of GTIs [s]
date	2020-10-05T07:45:54	Date and time of file creation	l1events	69289	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

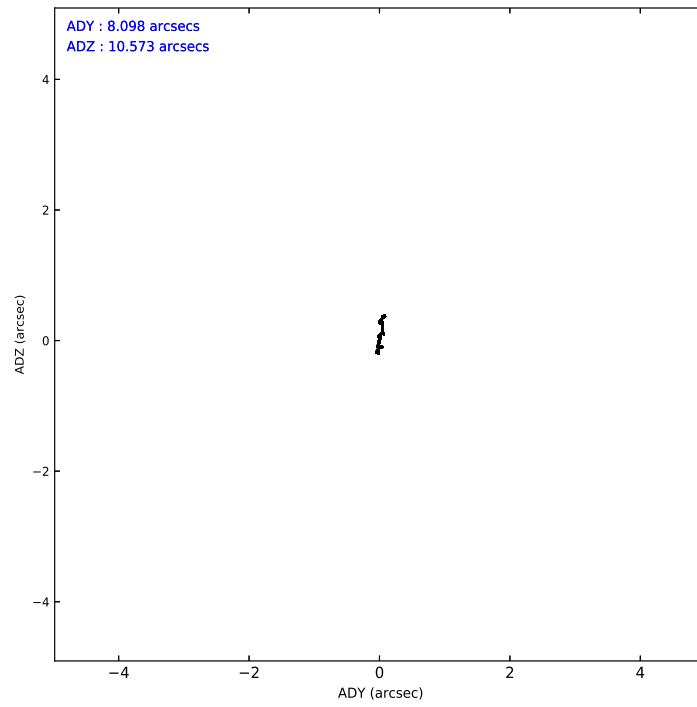
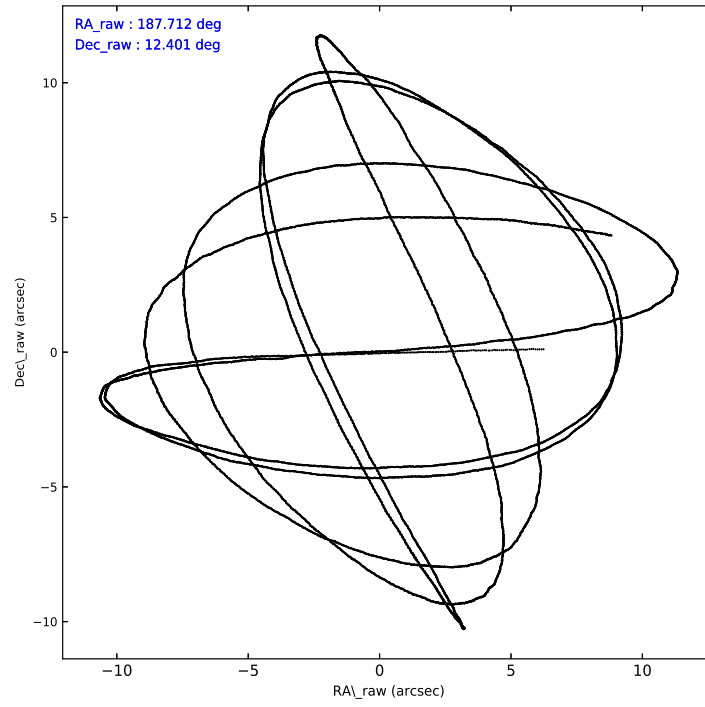
	ccd 7
level 1 events	69289
rejected events	13036
rejected %	18%

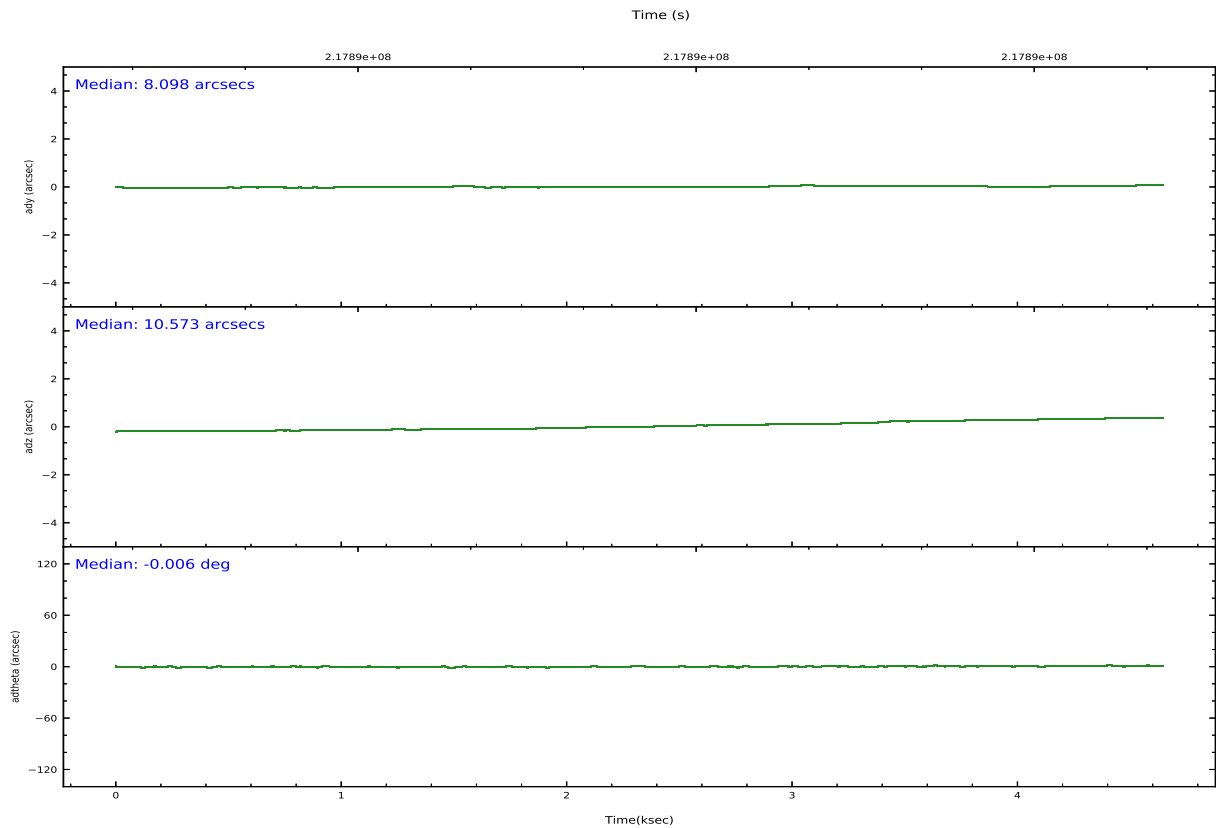
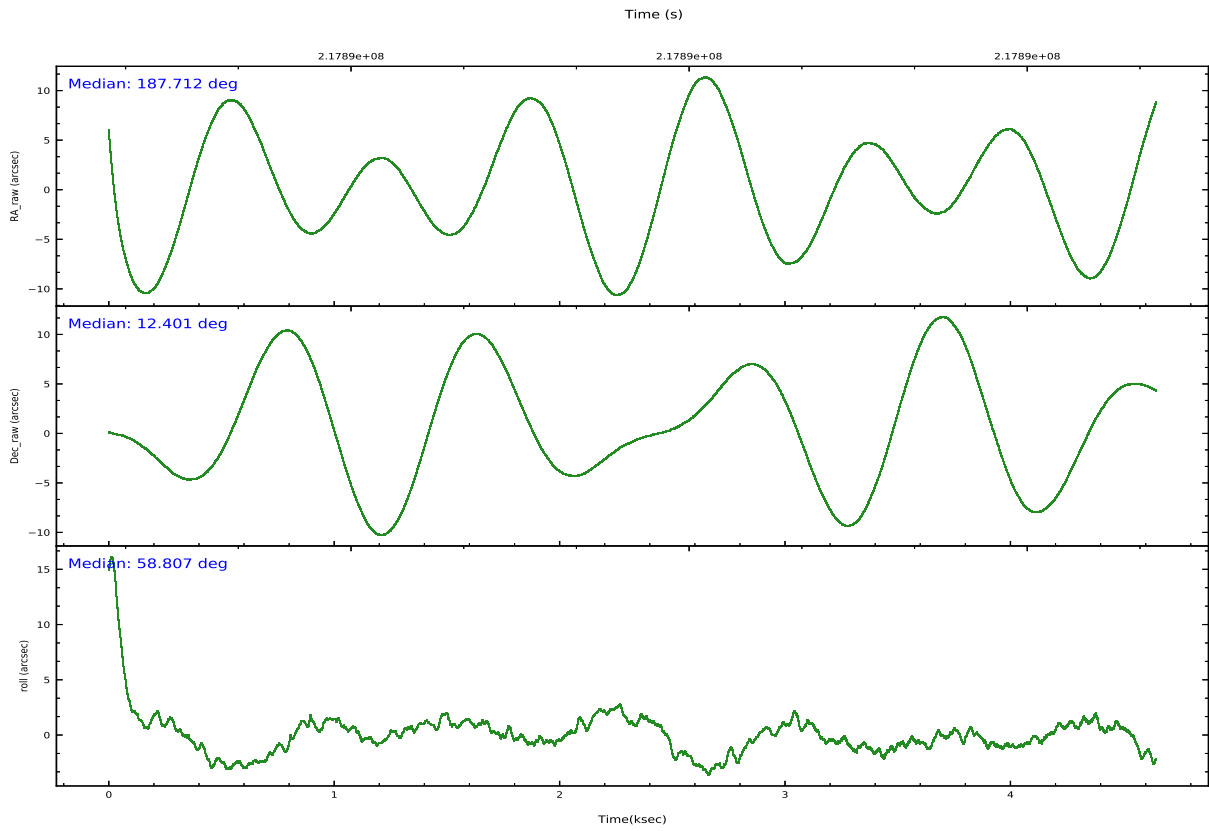
	ccd 7
grade 0 events	17457
	25%
grade 1 events	460
	0%
grade 2 events	14646
	21%
grade 3 events	6803
	9%
grade 4 events	6464
	9%
grade 5 events	2681
	3%
grade 6 events	13159
	18%
grade 7 events	7619
	10%

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	187.712002	187.71359822082	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.374123	12.397693354473	Subarray start row	449	449
[deg] Pointing Roll	58.651774	58.806812794825	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	217888571.184000	217887556.8628			
Observation start date	2004-11-26T20:35:07	2004-11-26T20:19:16			
[s] Observation end time (MET)	217893071.184000	217893720.70058			
Observation end date	2004-11-26T21:50:07	2004-11-26T22:02:00			
Read mode	TIMED	TIMED			

2.3 Aspect





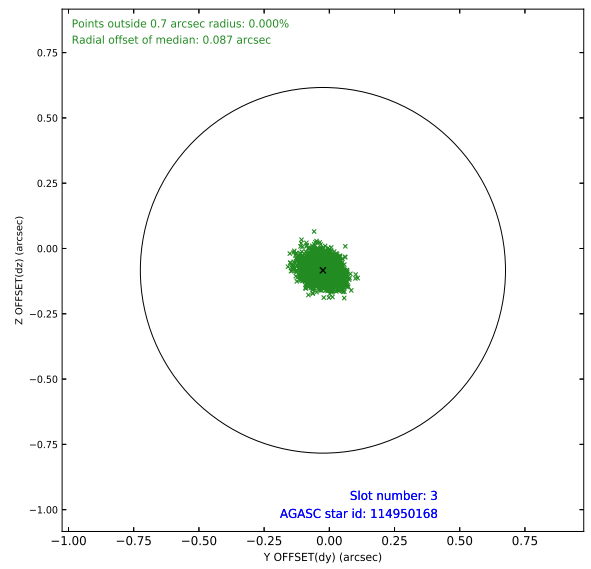
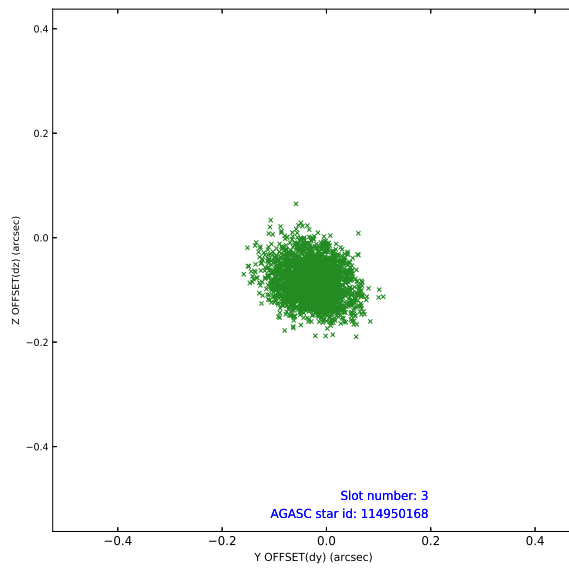
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	1133	1.000	-0.072	-0.055	0.007	0.011	0.000000	0.000000	-760.89	-1731
1	FID		ACIS-S-4	7.21	1134	1.000	0.174	0.050	0.006	0.010	0.000000	0.000000	2151.96	175
2	FID		ACIS-S-5	7.23	1134	1.000	-0.133	0.014	0.007	0.011	0.000000	0.000000	-1812.17	170
3	GUIDE	used	114950168	7.84	2268	1.000	-0.025	-0.084	0.060	0.095	187.143398	12.117441	-1828.34	1229
4	GUIDE	used	114950584	9.20	2265	1.000	0.164	0.197	0.082	0.133	187.487323	11.827248	-2093.16	-347
5	GUIDE	used	114952824	8.55	2266	1.000	-0.194	-0.077	0.095	0.145	187.703904	12.486727	330.61	235
6	GUIDE	used	114955056	8.31	2268	1.000	0.033	0.049	0.072	0.118	187.914001	12.127854	-386.41	-1067
7	GUIDE	used	114957008	8.24	2267	1.000	0.023	-0.079	0.084	0.132	186.894794	12.099160	-2338.35	1943

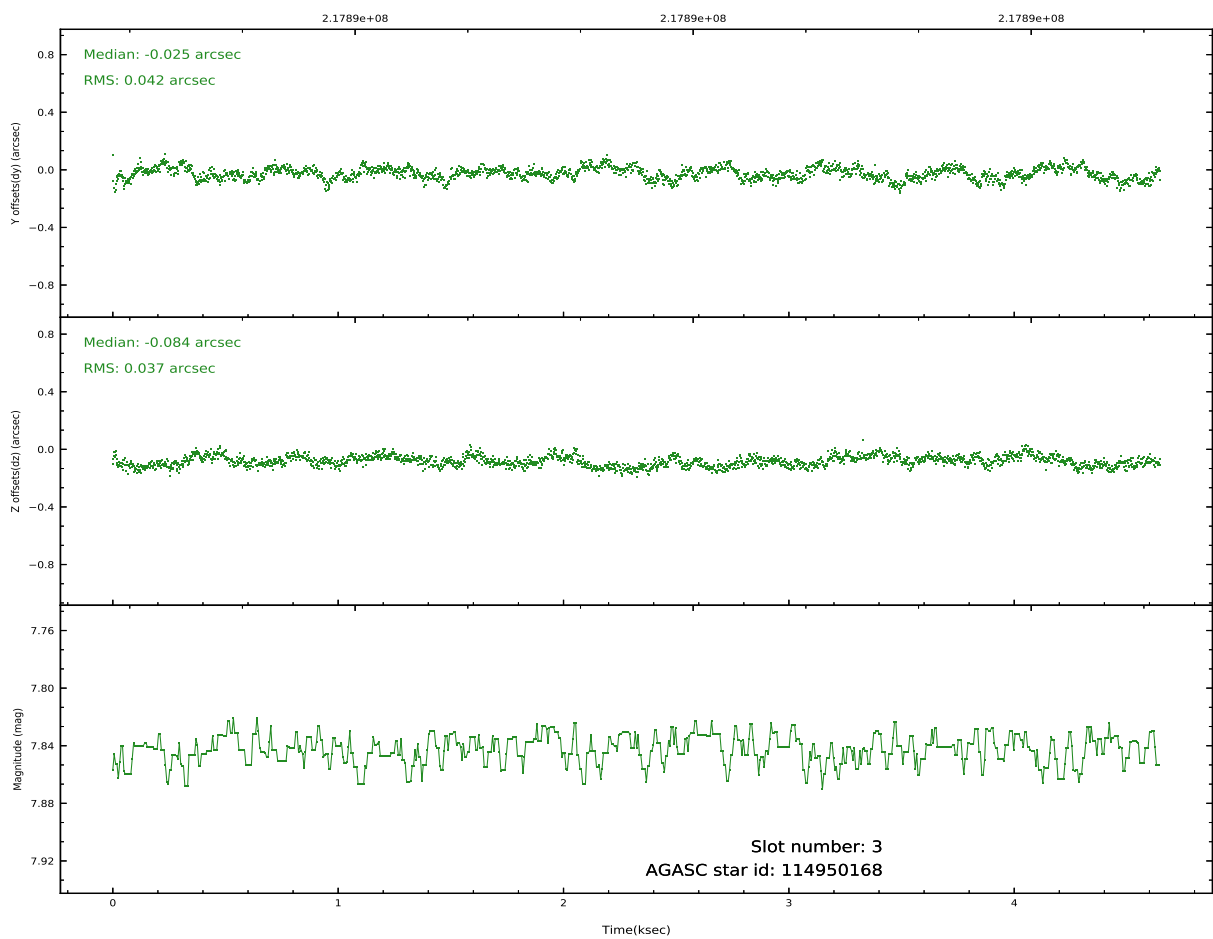
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2.4 Star Slots

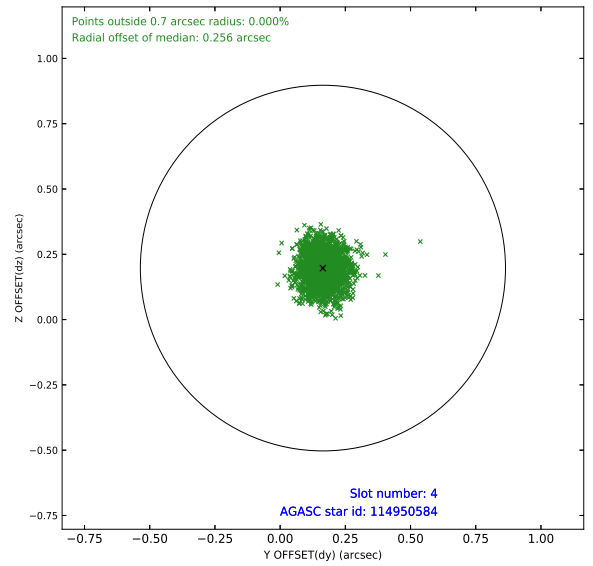
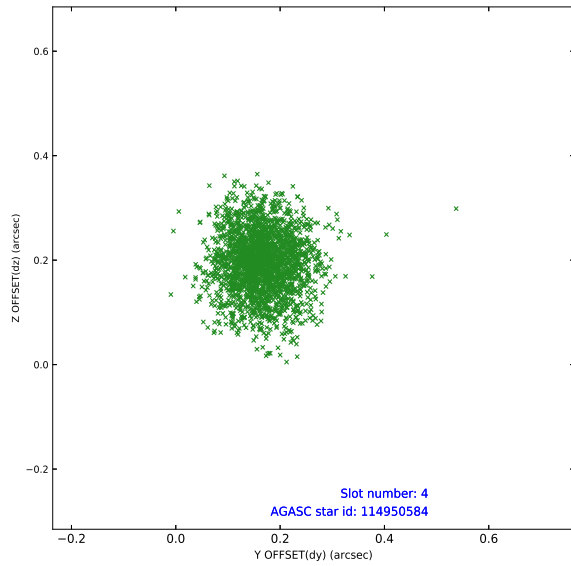
2.4.1 Slot 3



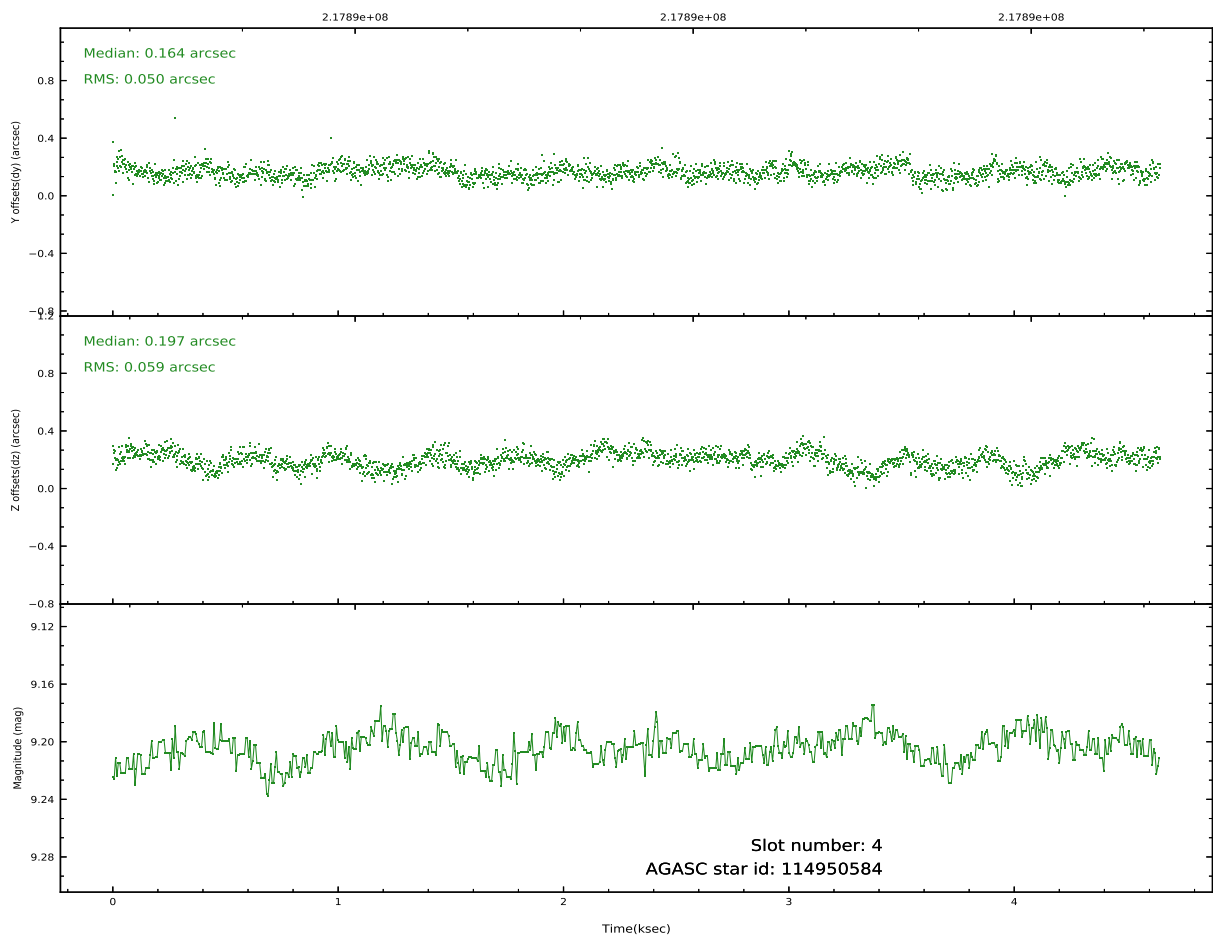
Time (s)



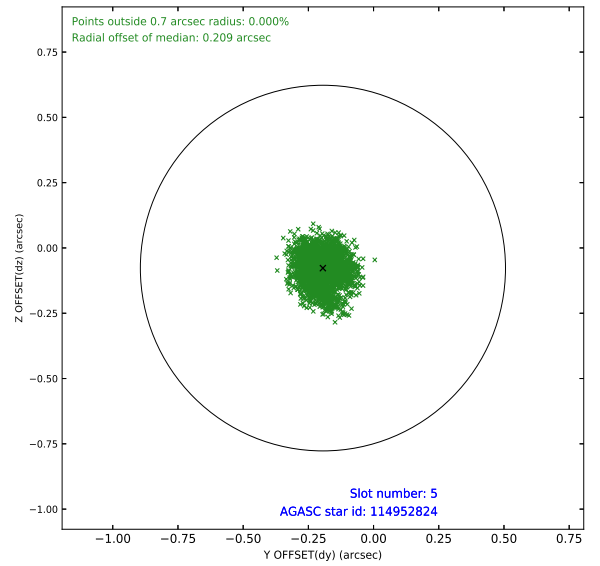
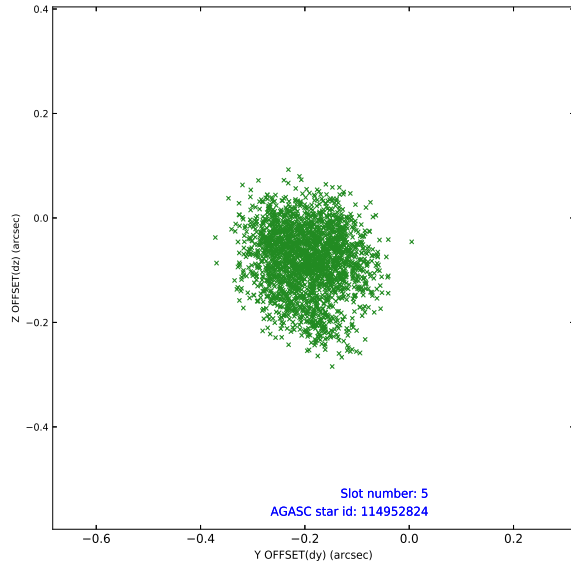
2.4.2 Slot 4



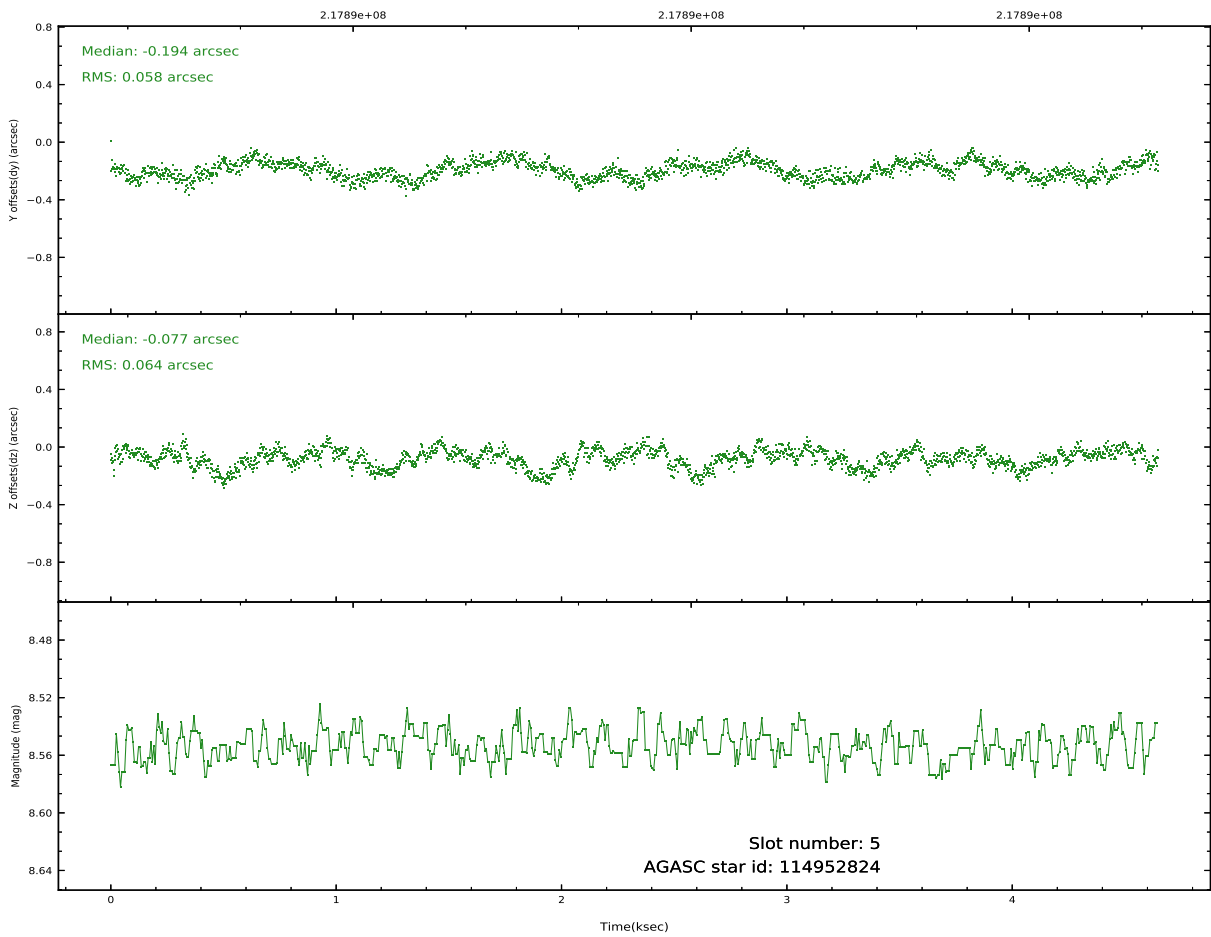
Time (s)



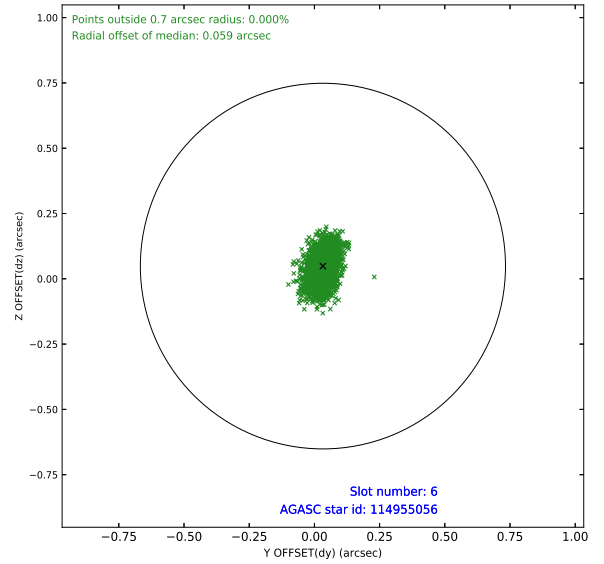
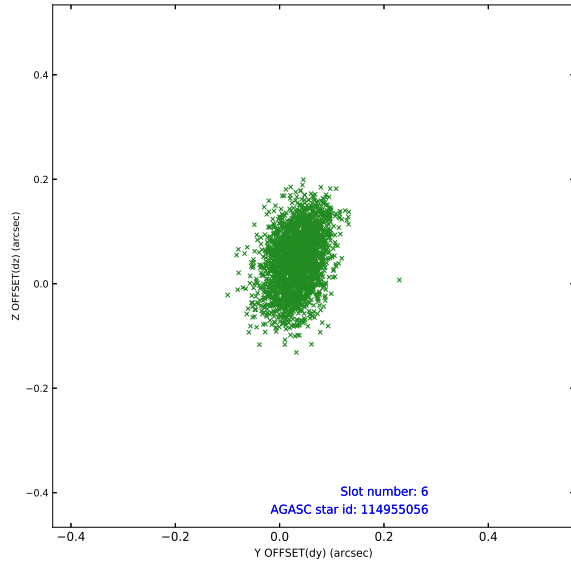
2.4.3 Slot 5



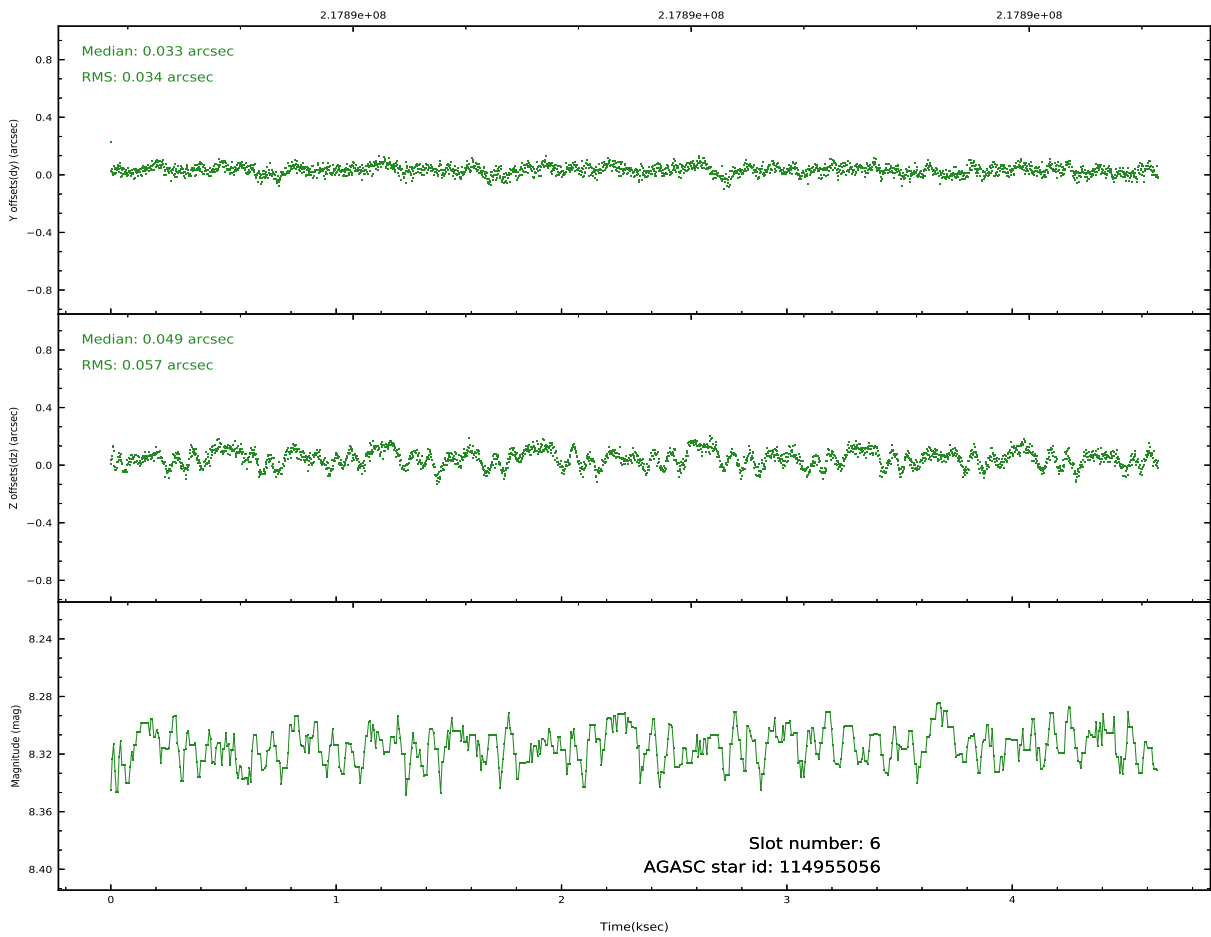
Time (s)



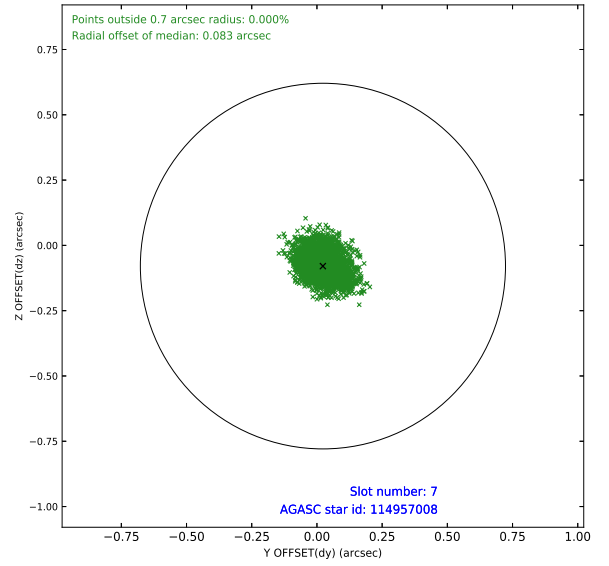
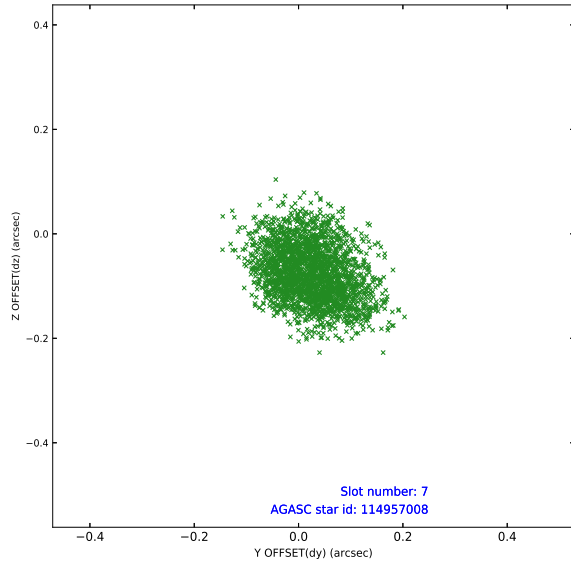
2.4.4 Slot 6



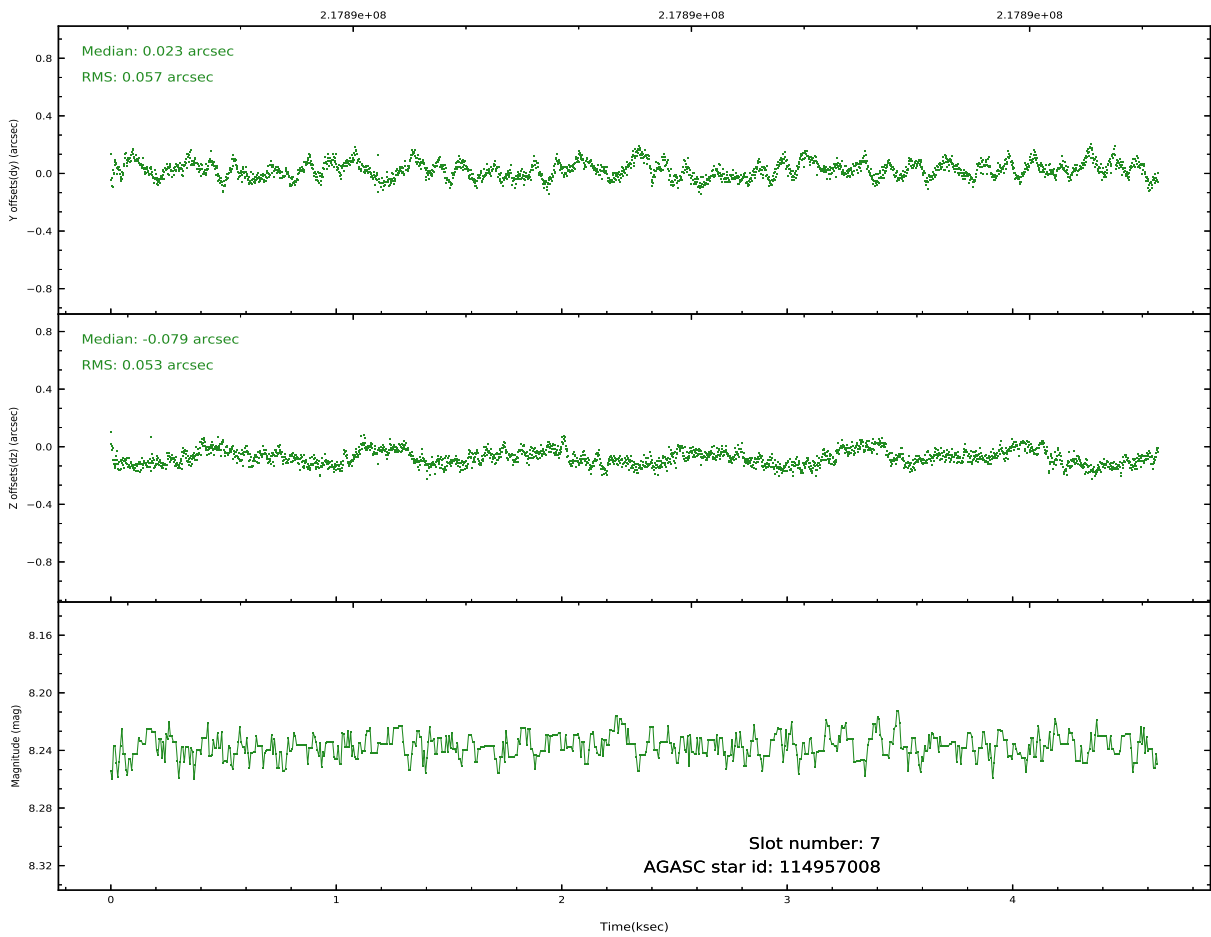
Time (s)



2.4.5 Slot 7

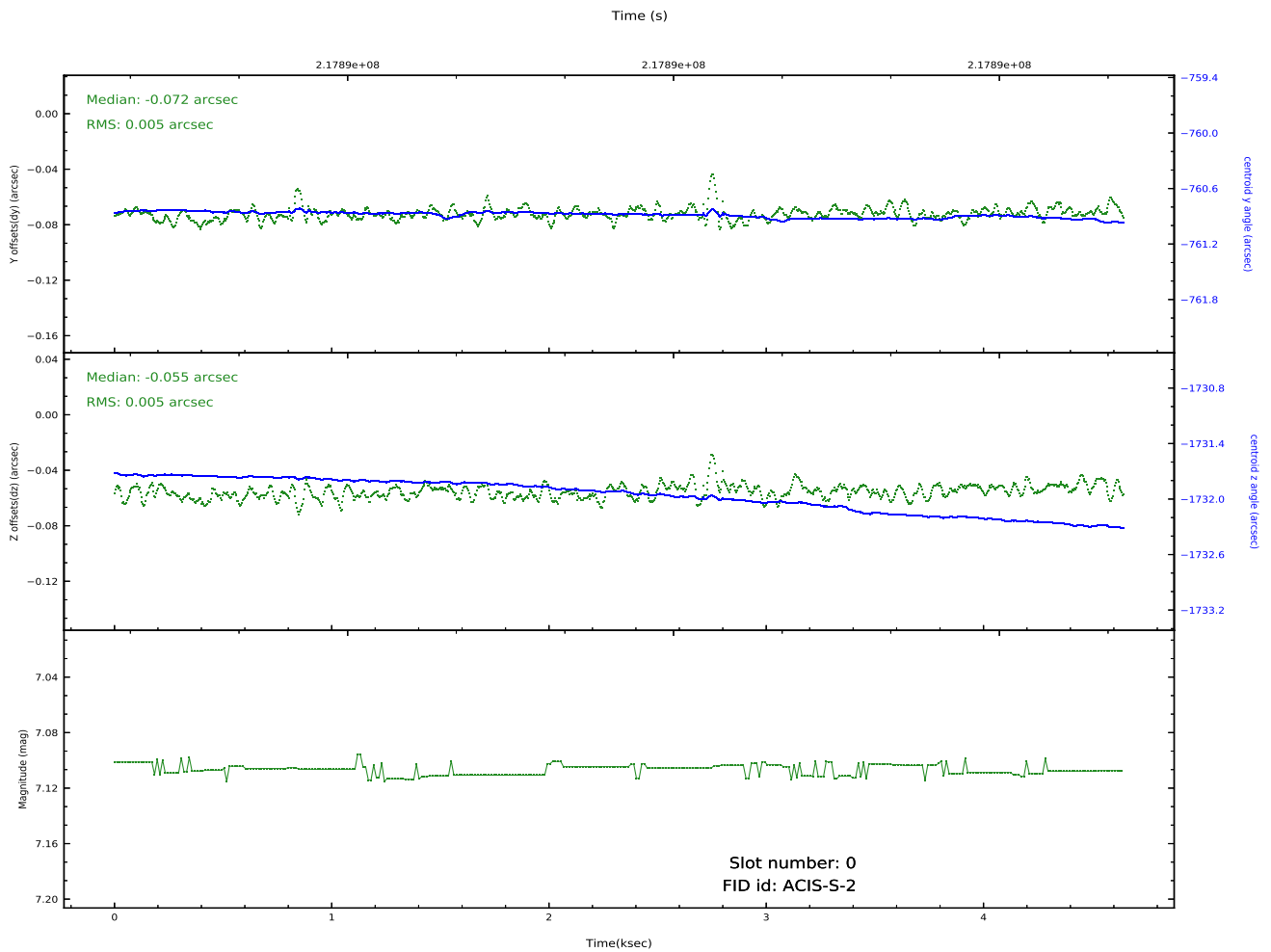
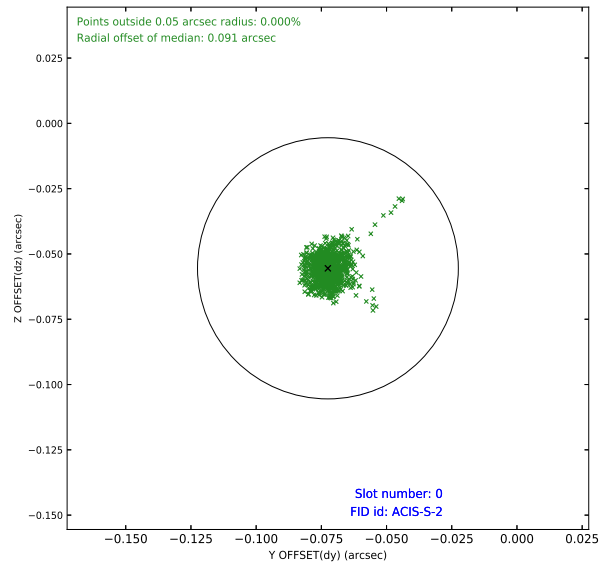
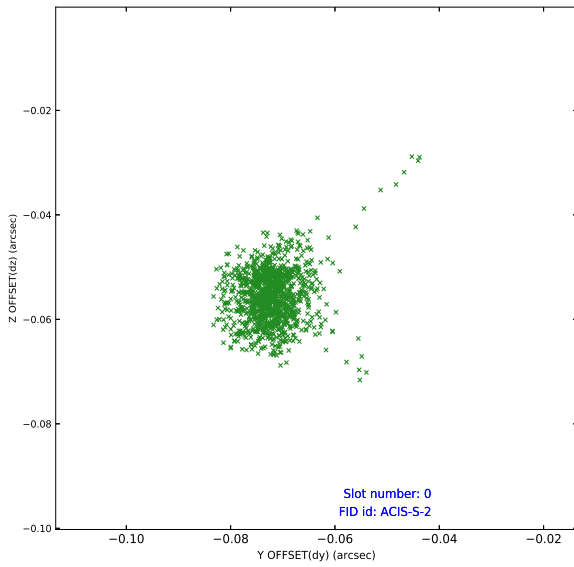


Time (s)

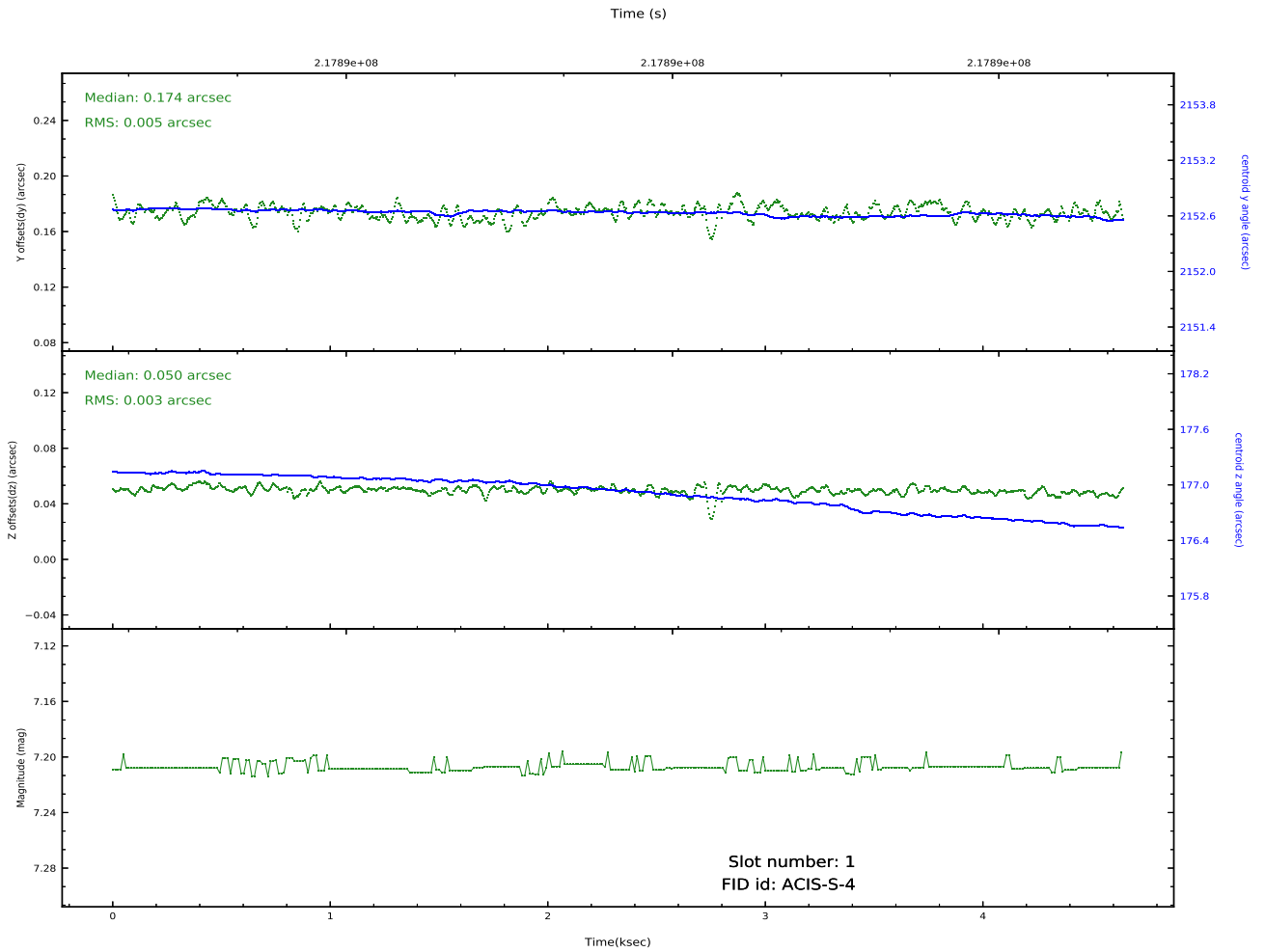
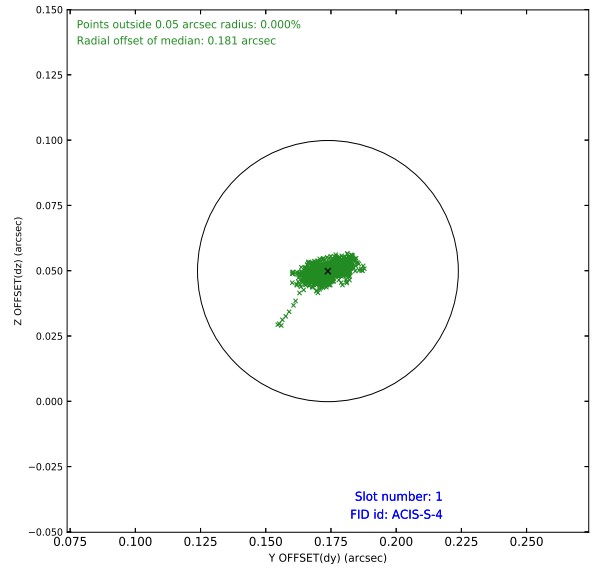
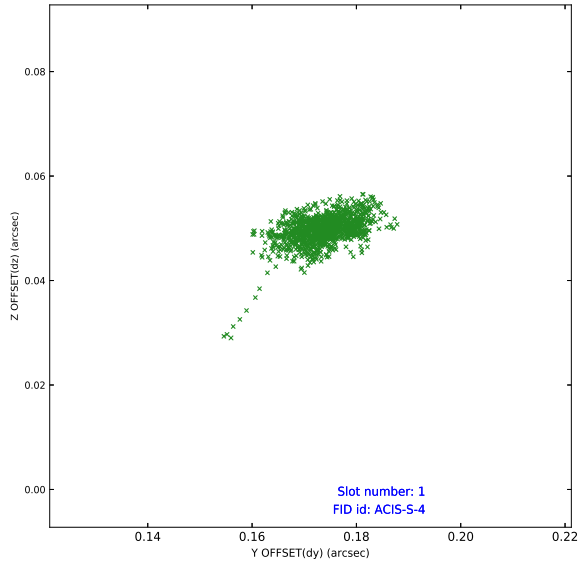


2.5 FID Slots

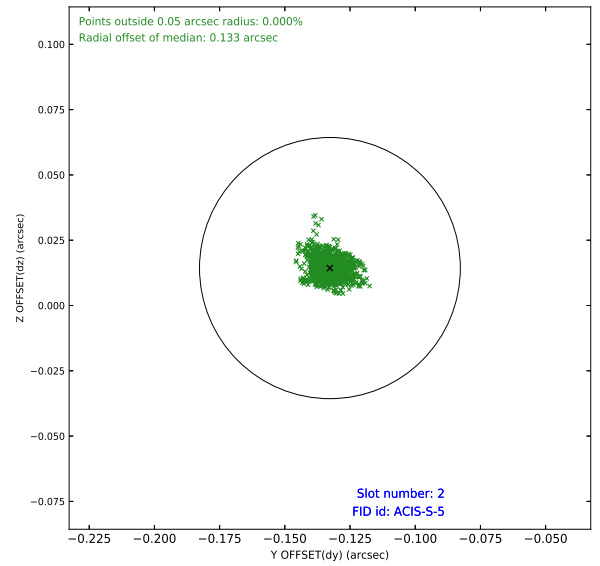
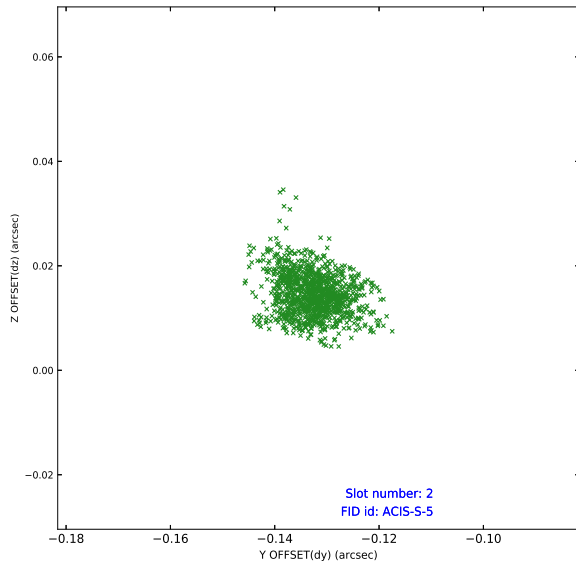
2.5.1 Slot 0



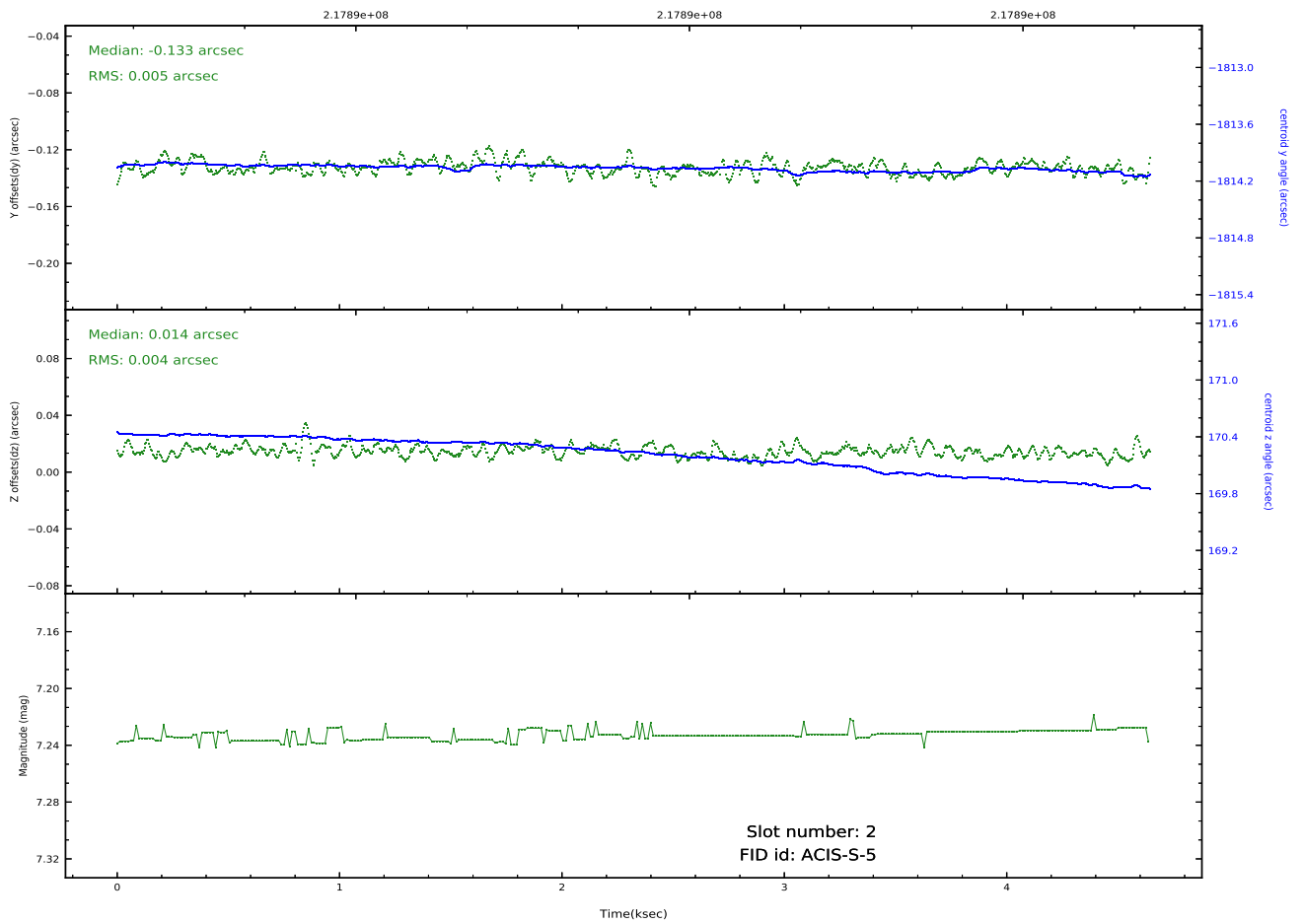
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.646

A.2 Comments

Joint proposal with HST.