

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5561 - L2 Version 4
Chandra X-Ray Center

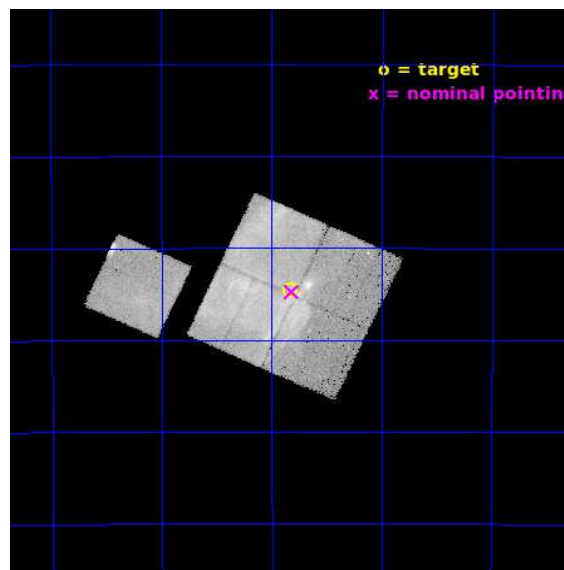
L2 Processing Date : Oct 9 2020

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1 Front

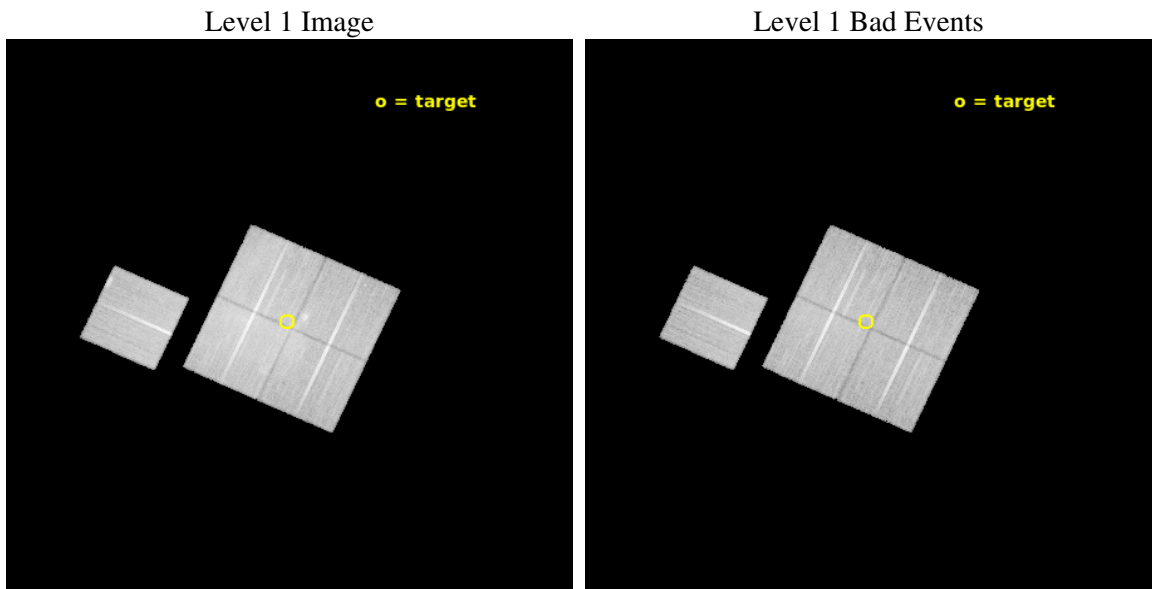
seq_num	500550	Sequence number
obs_id	5561	Observation id
title	Searching for spectral and morphological changes of X-ray structures in SNR RX J1713.7-3946	Proposal title
observer	Dr. Yasunobu Uchiyama	Principal investigator
object	RX J1713.7-3946 SW	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	257.958292	Observer's specified target RA [deg]
dec_targ	-39.9083	Observer's specified target Dec [deg]
ra_nom	257.95411964923	Nominal RA [deg]
dec_nom	-39.912356185424	Nominal Dec [deg]
roll_nom	294.73672969032	Nominal Roll [deg]
revision	4	Processing version of data
ontime	29428.258963138	Sum of GTIs [s]
livetime	29043.757095015	Livetime [s]
ontime0	29431.399943382	Sum of GTIs [s]
ontime1	29425.117972851	Sum of GTIs [s]
ontime2	29425.117962867	Sum of GTIs [s]
ontime3	29428.258963138	Sum of GTIs [s]
ontime6	29431.399943382	Sum of GTIs [s]
l2events	233594	Number of level 2 events



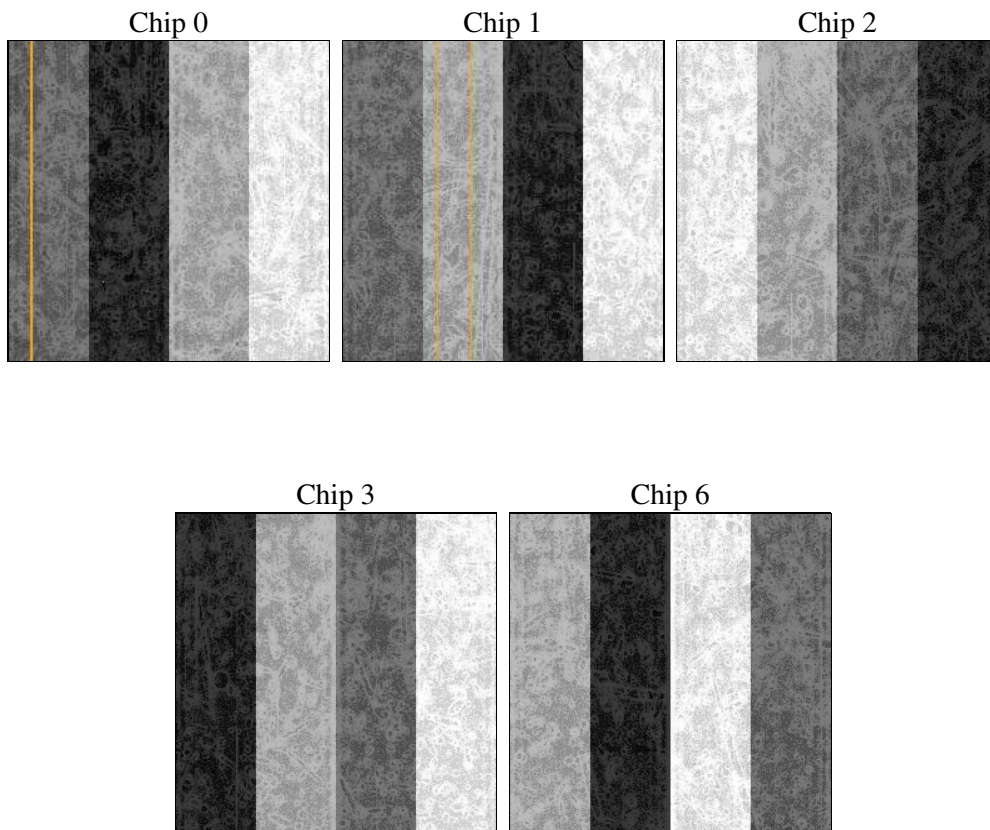
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29250.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	29428.258963138	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	29431.399943382	Sum of GTIs [s]
date	2020-10-09T07:48:23	Date and time of file creation	ontime1	29425.117972851	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	29425.117962867	Sum of GTIs [s]
			ontime3	29428.258963138	Sum of GTIs [s]
			ontime6	29431.399943382	Sum of GTIs [s]
			l1events	1097489	Number of level 1 events

2.1.4 Events

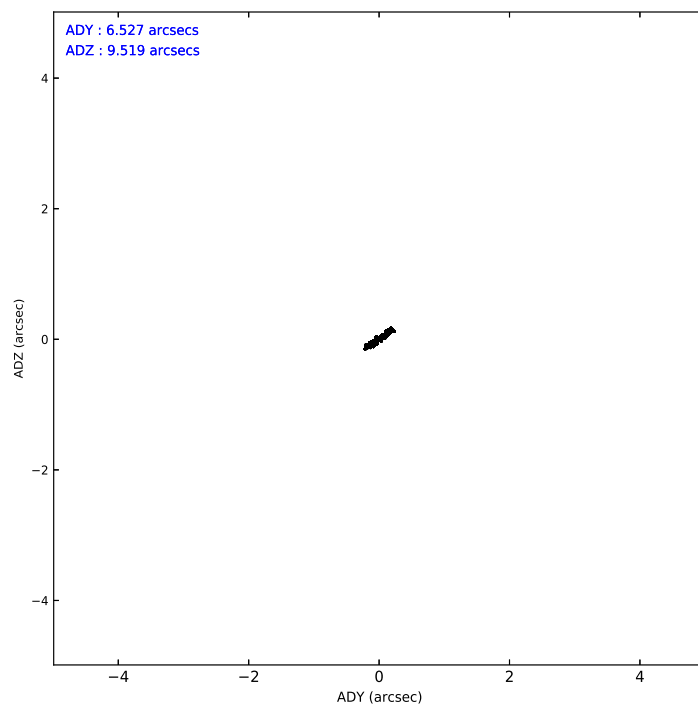
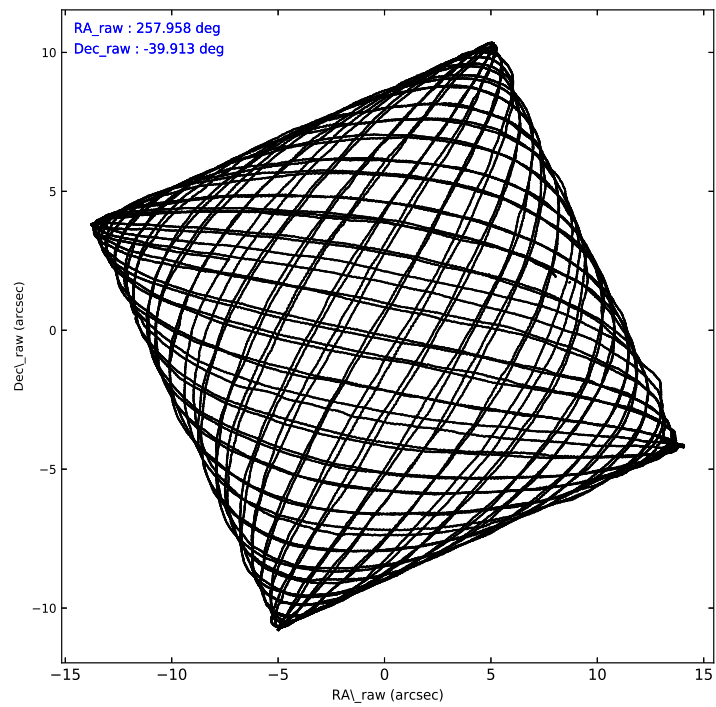
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	196515	189435	266856	236210	208473
rejected events	156529	154363	184702	171480	169655
rejected %	79%	81%	69%	72%	81%

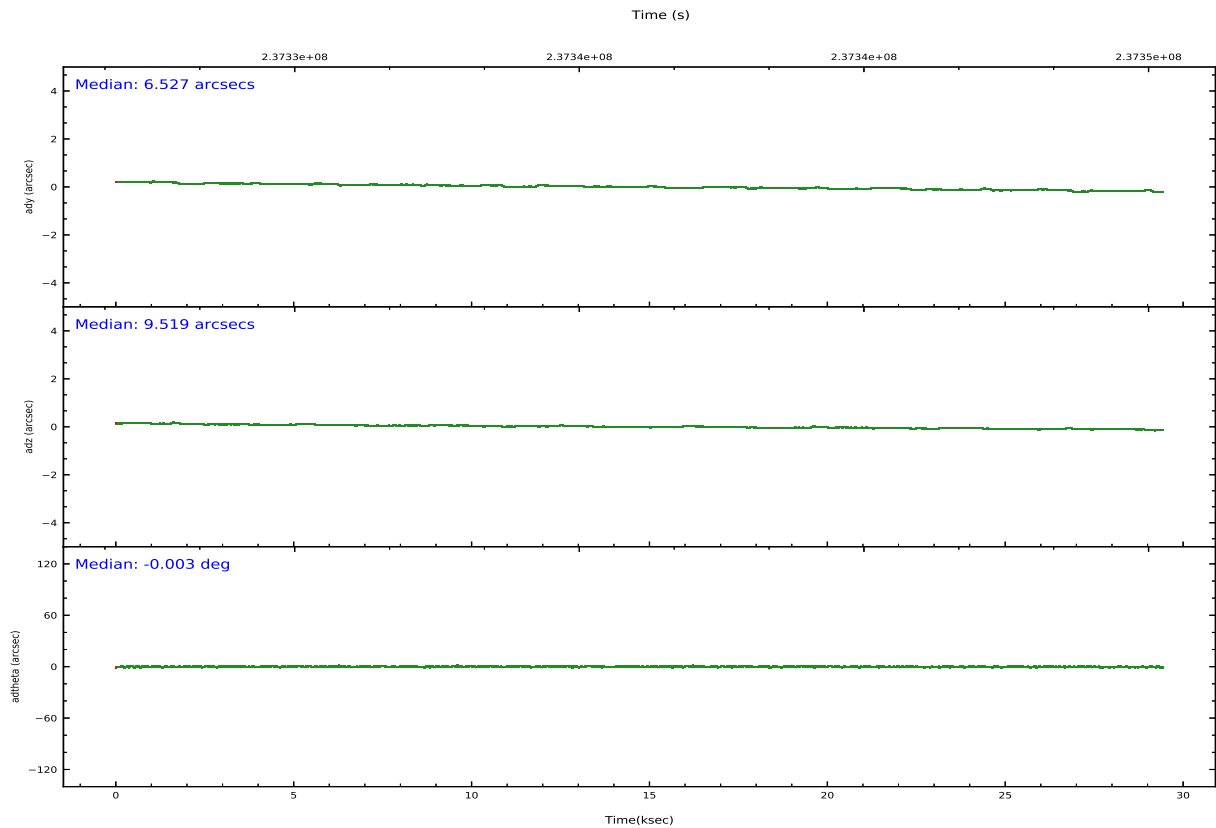
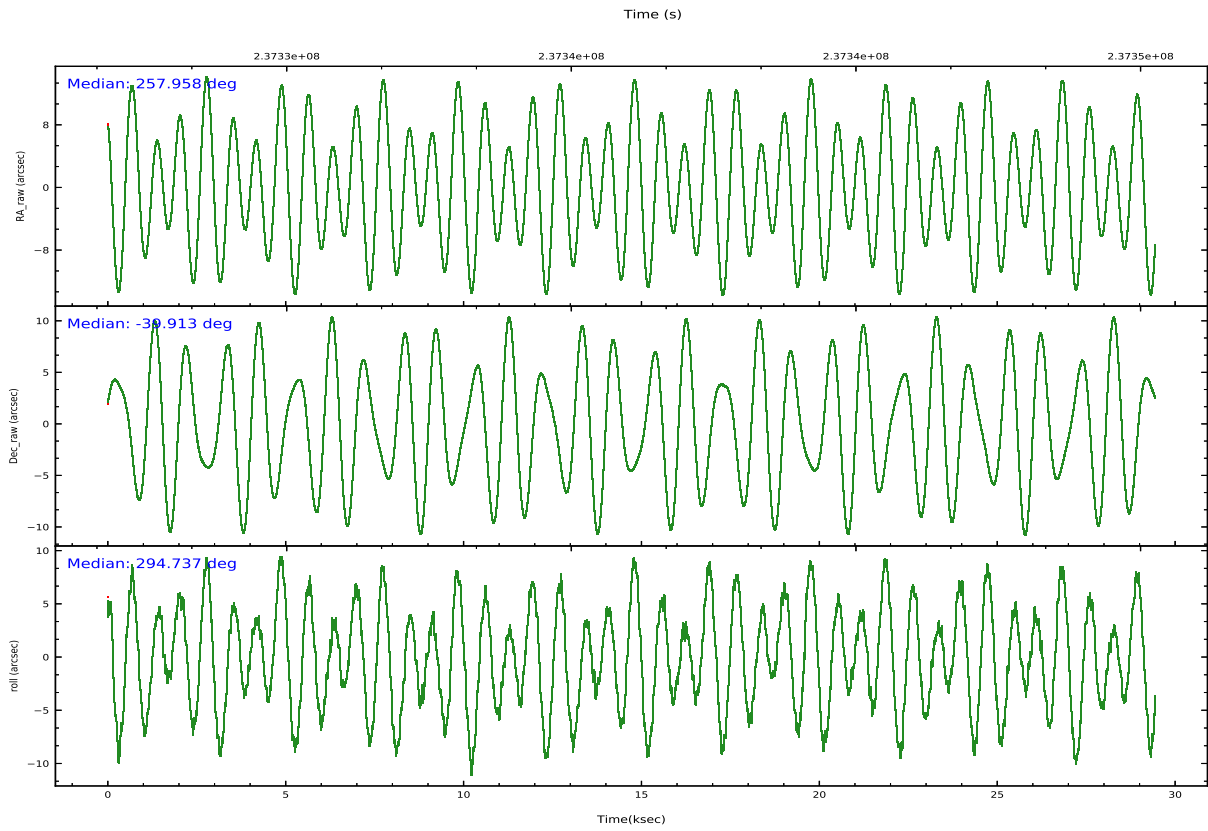
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	23810	19590	57895	44895	23465
	12%	10%	21%	19%	11%
grade 1 events	174	161	422	299	139
	0%	0%	0%	0%	0%
grade 2 events	6840	5919	11187	8654	6109
	3%	3%	4%	3%	2%
grade 3 events	2874	2836	4249	3648	2740
	1%	1%	1%	1%	1%
grade 4 events	2679	2755	4361	3484	2682
	1%	1%	1%	1%	1%
grade 5 events	5743	6131	5360	6401	6258
	2%	3%	2%	2%	3%
grade 6 events	4093	4281	5015	4597	4144
	2%	2%	1%	1%	1%
grade 7 events	150302	147762	178367	164232	162936
	76%	78%	66%	69%	78%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	257.929248	257.95411964923	Subarray requested	NONE	NONE
[deg] Pointing Dec	-39.897212	-39.912356185424	Alternating exposures requested	N	N
[deg] Pointing Roll	294.513277	294.73672969032	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	237323160.184000	237322011.81917			
Observation start date	2005-07-09T19:04:56	2005-07-09T18:46:51			
[s] Observation end time (MET)	237352410.184000	237352819.73308			
Observation end date	2005-07-10T03:12:26	2005-07-10T03:20:19			
Read mode	TIMED	TIMED			

2.3 Aspect



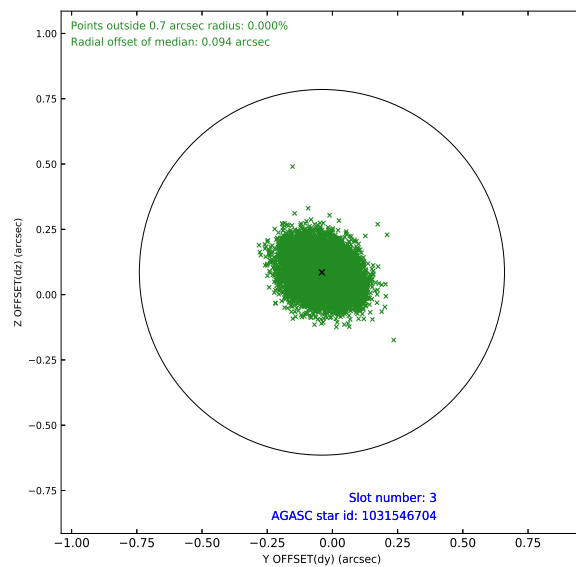
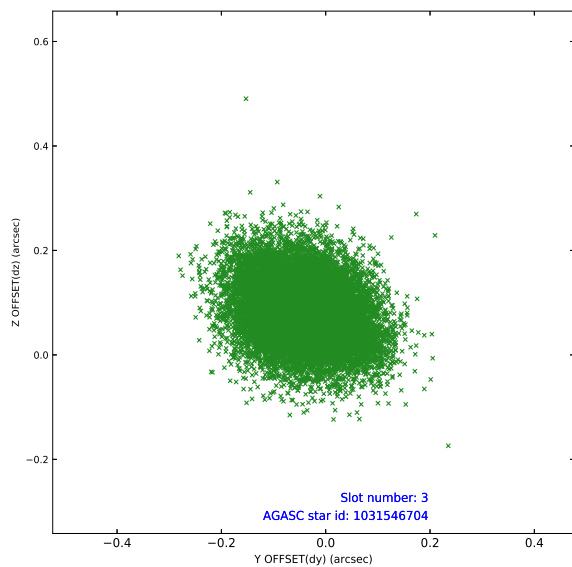


Slot Statistics

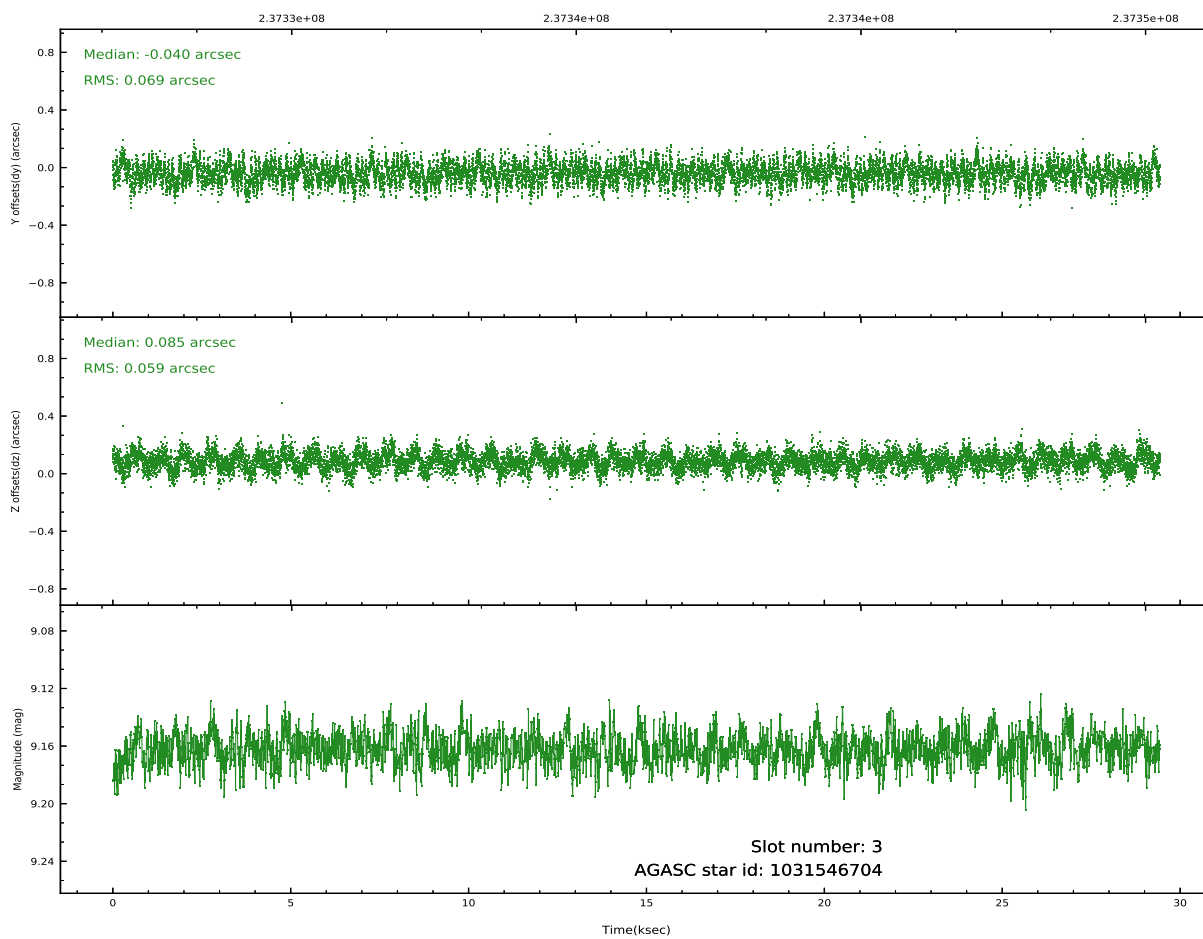
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.25	7181	1.000	0.014	0.003	0.007	0.012	0.000000	0.000000	933.19	-832
1	FID		ACIS-I-5	7.23	7181	1.000	-0.202	0.020	0.007	0.011	0.000000	0.000000	-1815.11	1064
2	FID		ACIS-I-6	7.25	7180	1.000	0.097	0.047	0.008	0.013	0.000000	0.000000	398.70	1709
3	GUIDE	used	1031546704	9.16	14352	1.000	-0.040	0.085	0.096	0.158	258.328569	-39.071177	-2240.34	2248
4	GUIDE	used	1031932008	8.82	14356	1.000	0.000	-0.058	0.076	0.122	257.163205	-39.994917	-547.93	-2071
5	GUIDE	used	1031932624	8.31	14355	1.000	0.029	-0.099	0.065	0.106	257.431727	-40.221910	500.18	-1730
6	GUIDE	used	1032062224	8.11	14361	1.000	0.012	0.048	0.052	0.083	258.732987	-40.317739	2302.25	1375
7	GUIDE	used	1031931920	9.36	14285	1.000	0.002	0.028	0.088	0.146	257.217218	-39.776204	-1205.96	-1614

2.4 Star Slots

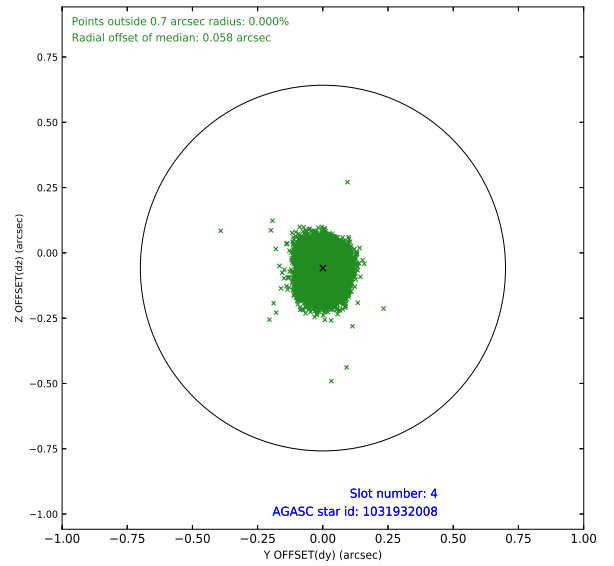
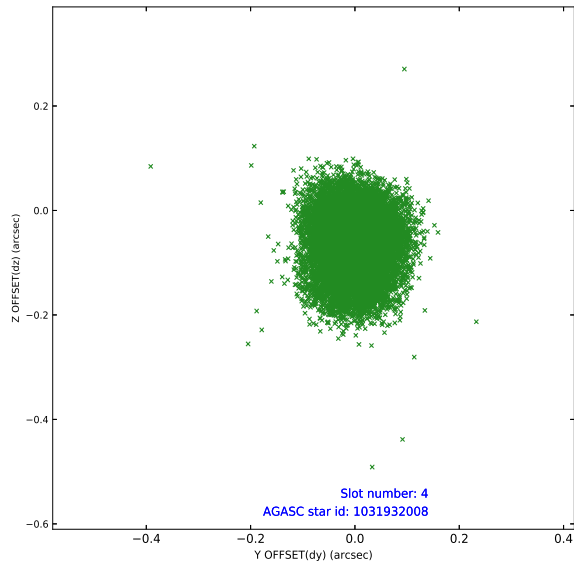
2.4.1 Slot 3



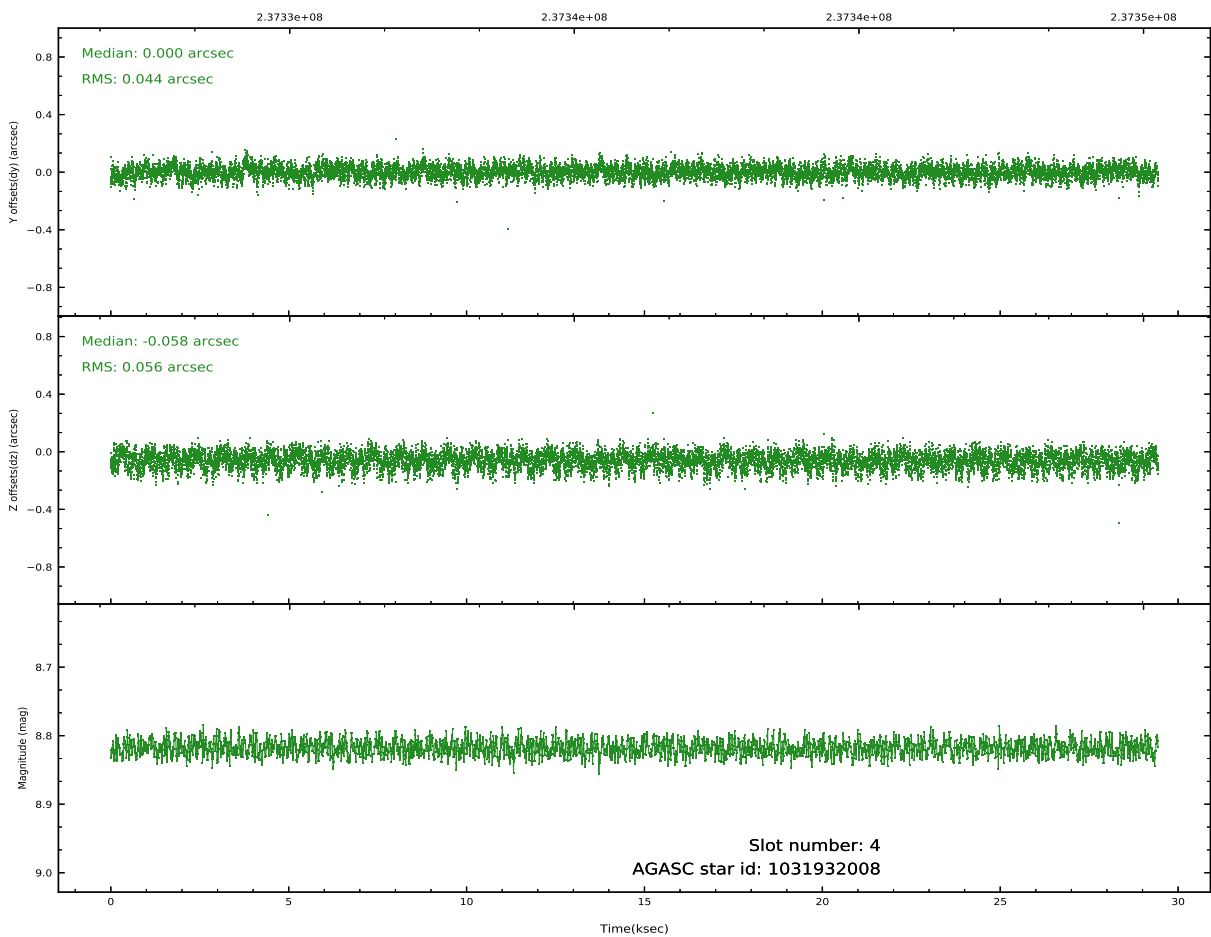
Time (s)



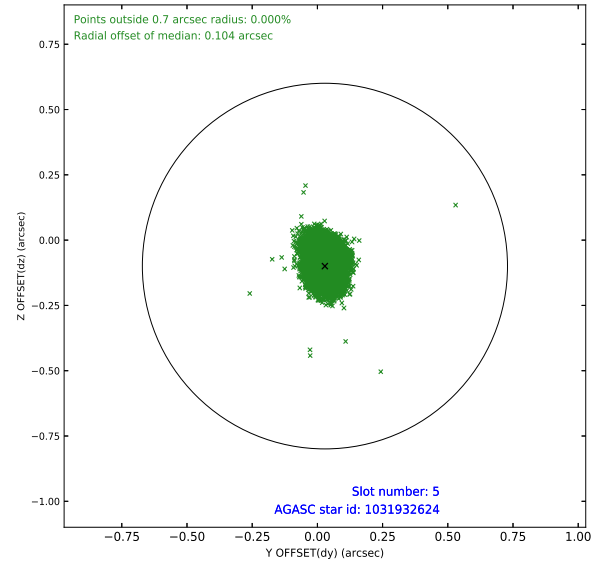
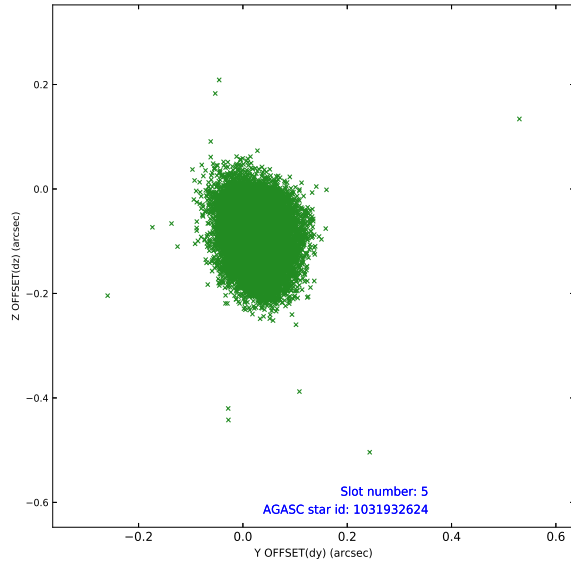
2.4.2 Slot 4



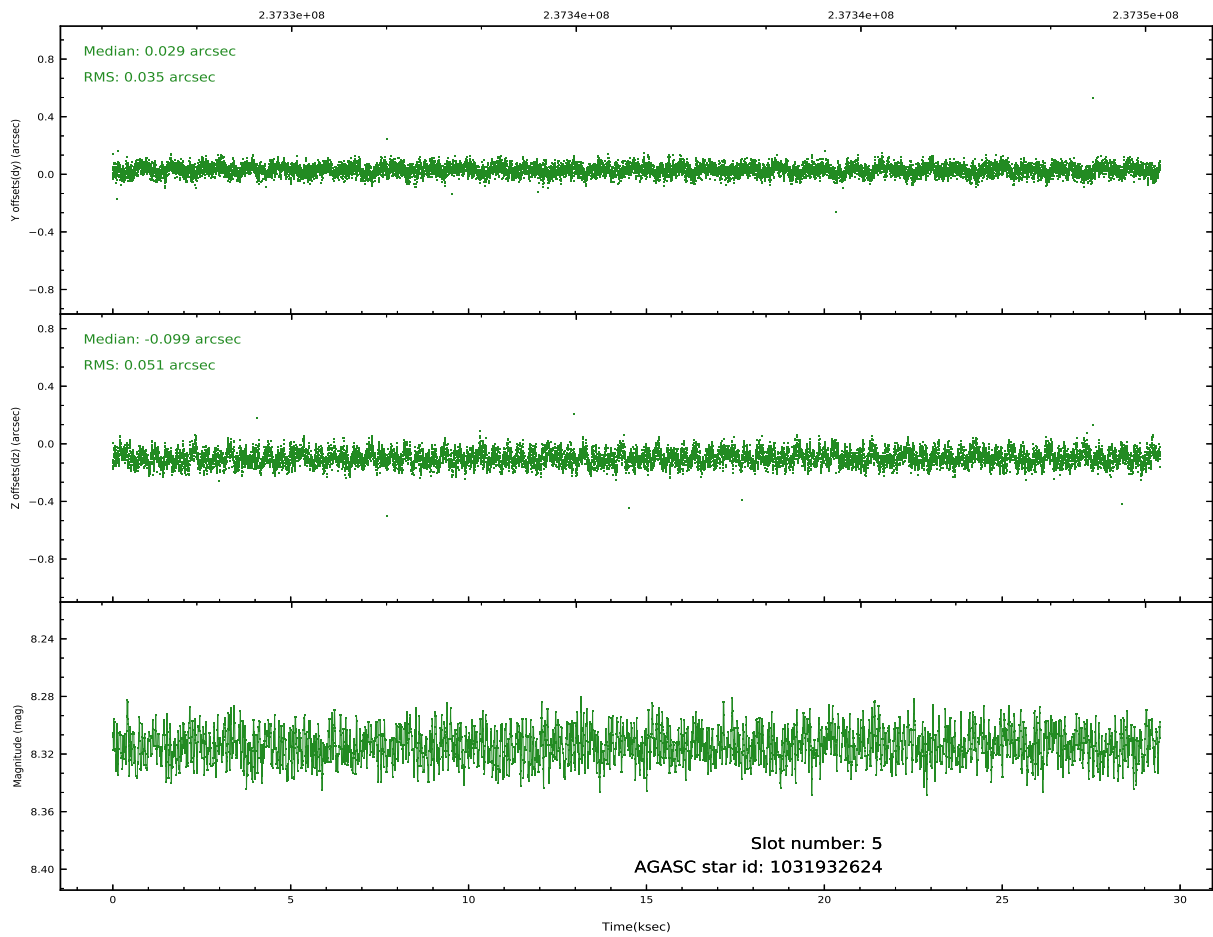
Time (s)



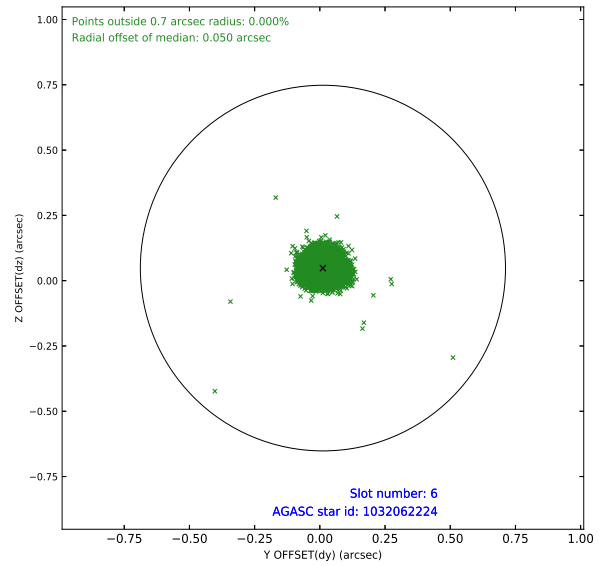
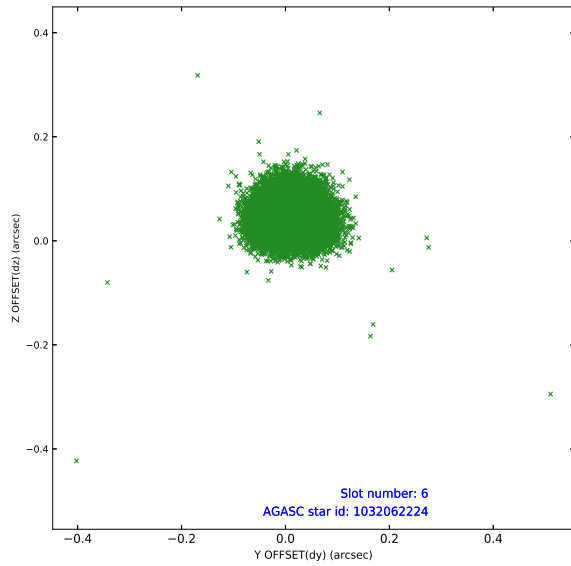
2.4.3 Slot 5



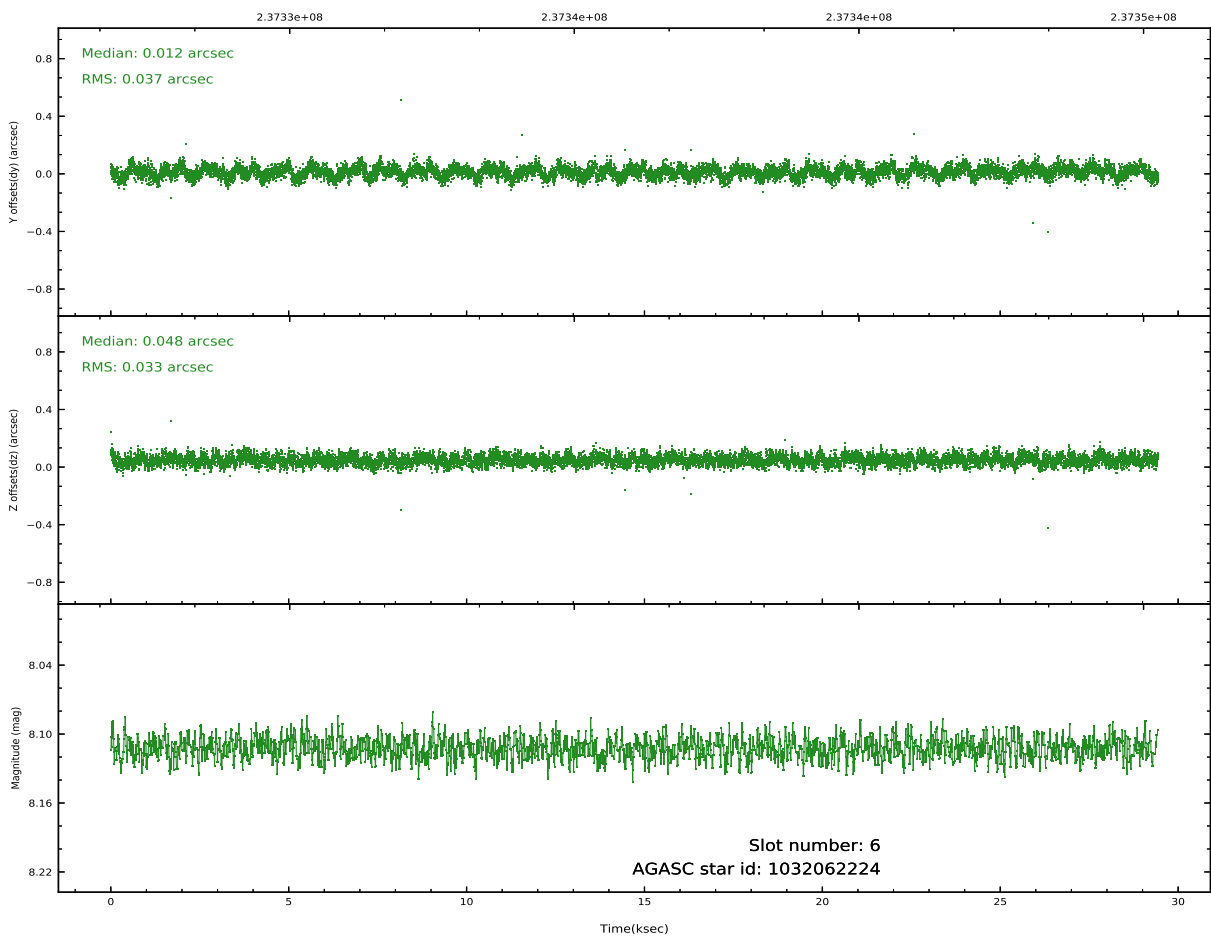
Time (s)



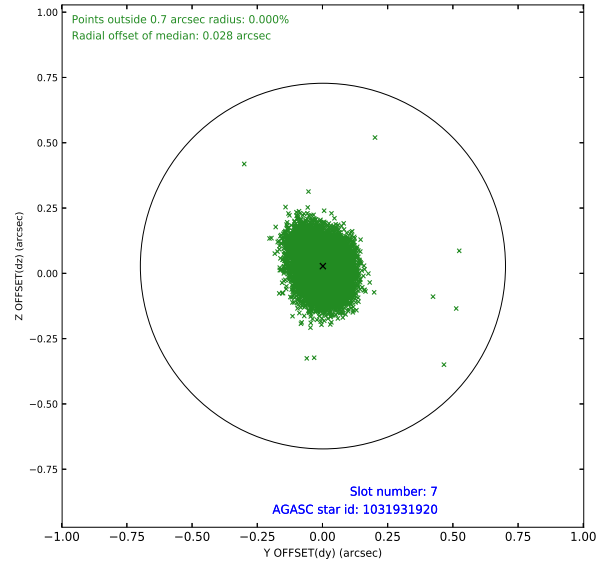
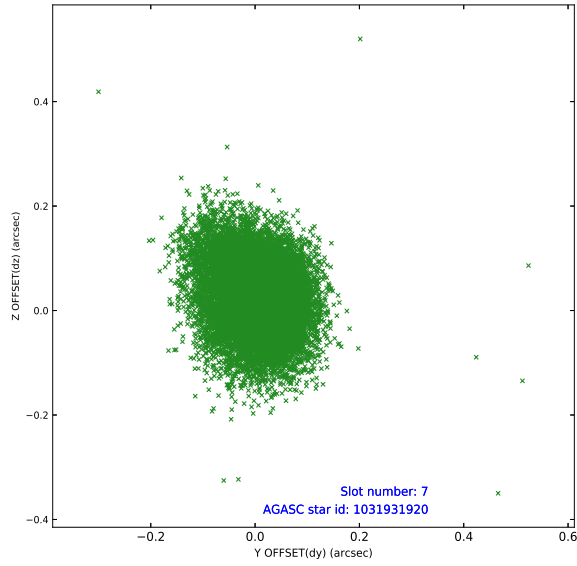
2.4.4 Slot 6



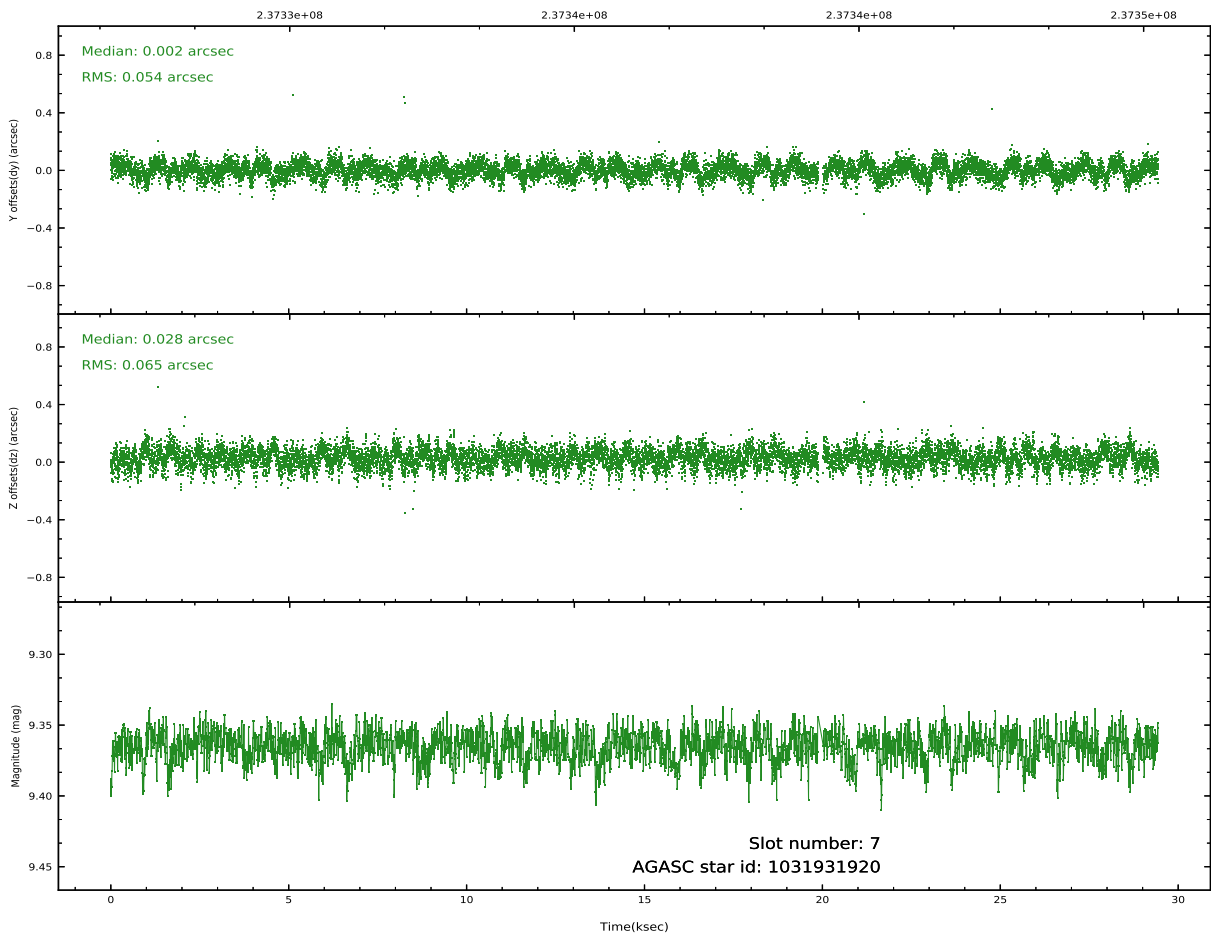
Time (s)



2.4.5 Slot 7

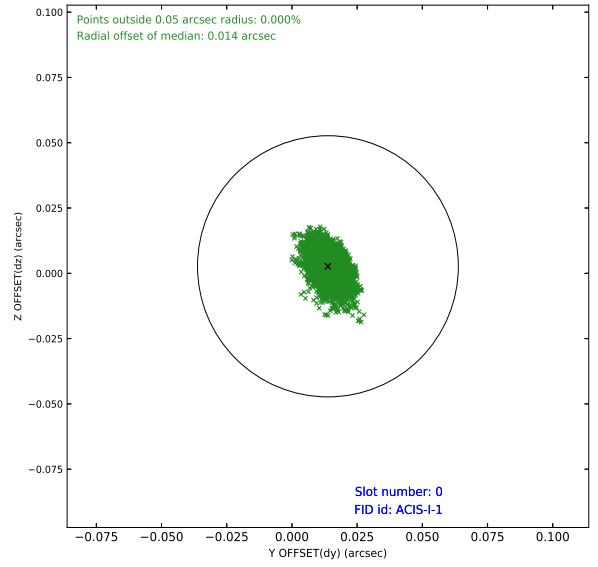
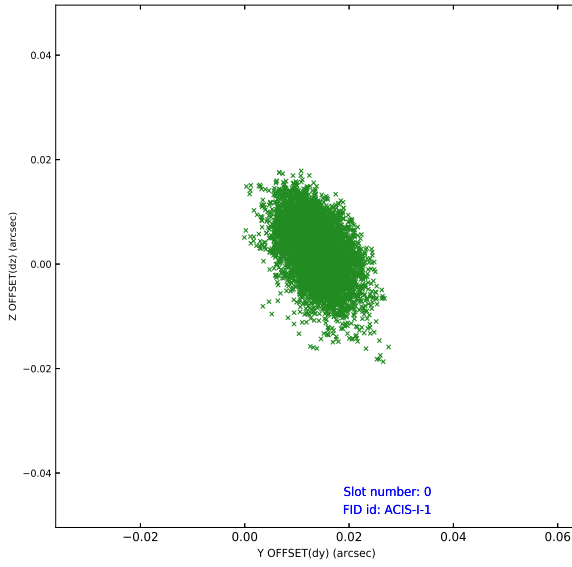


Time (s)

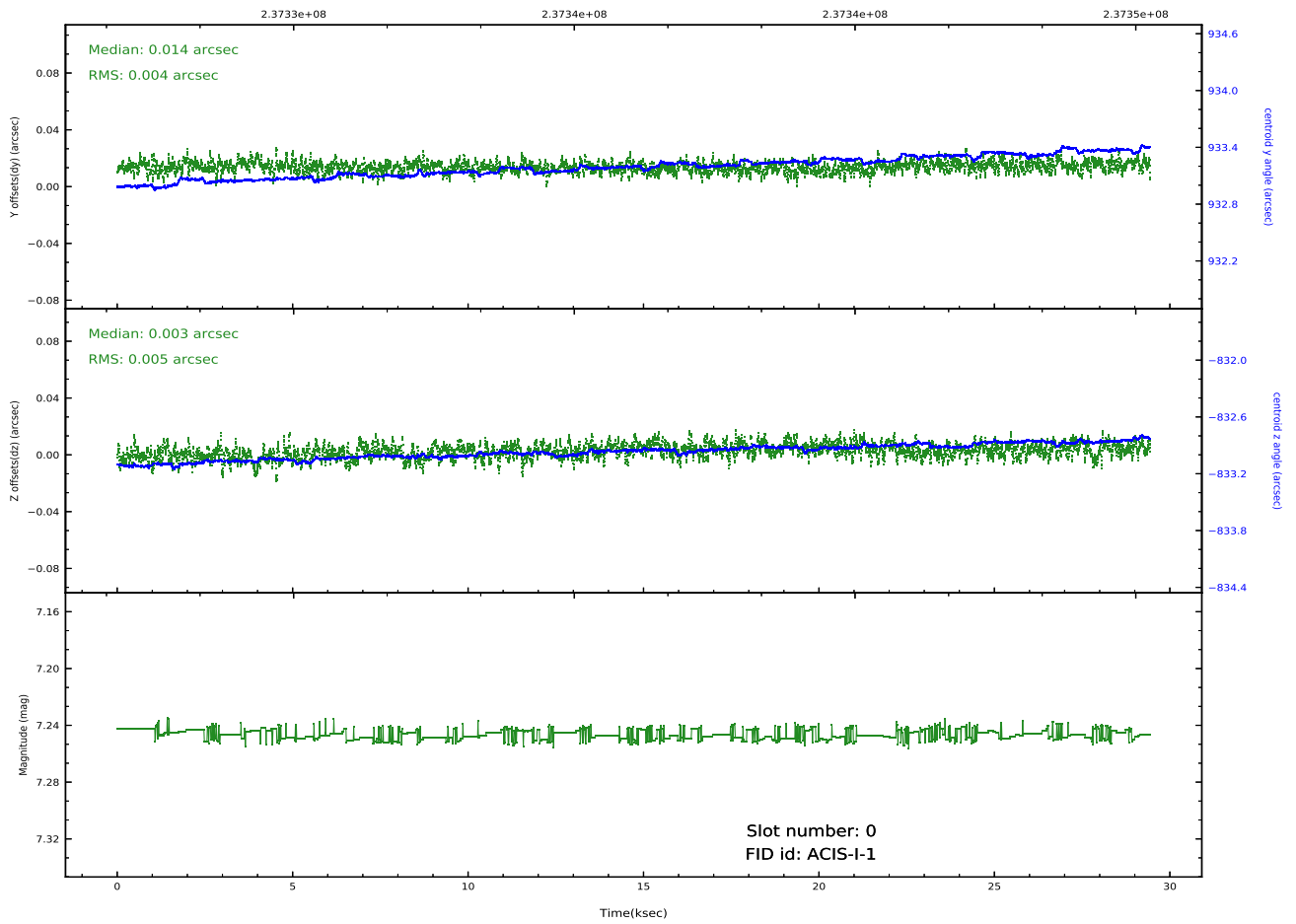


2.5 FID Slots

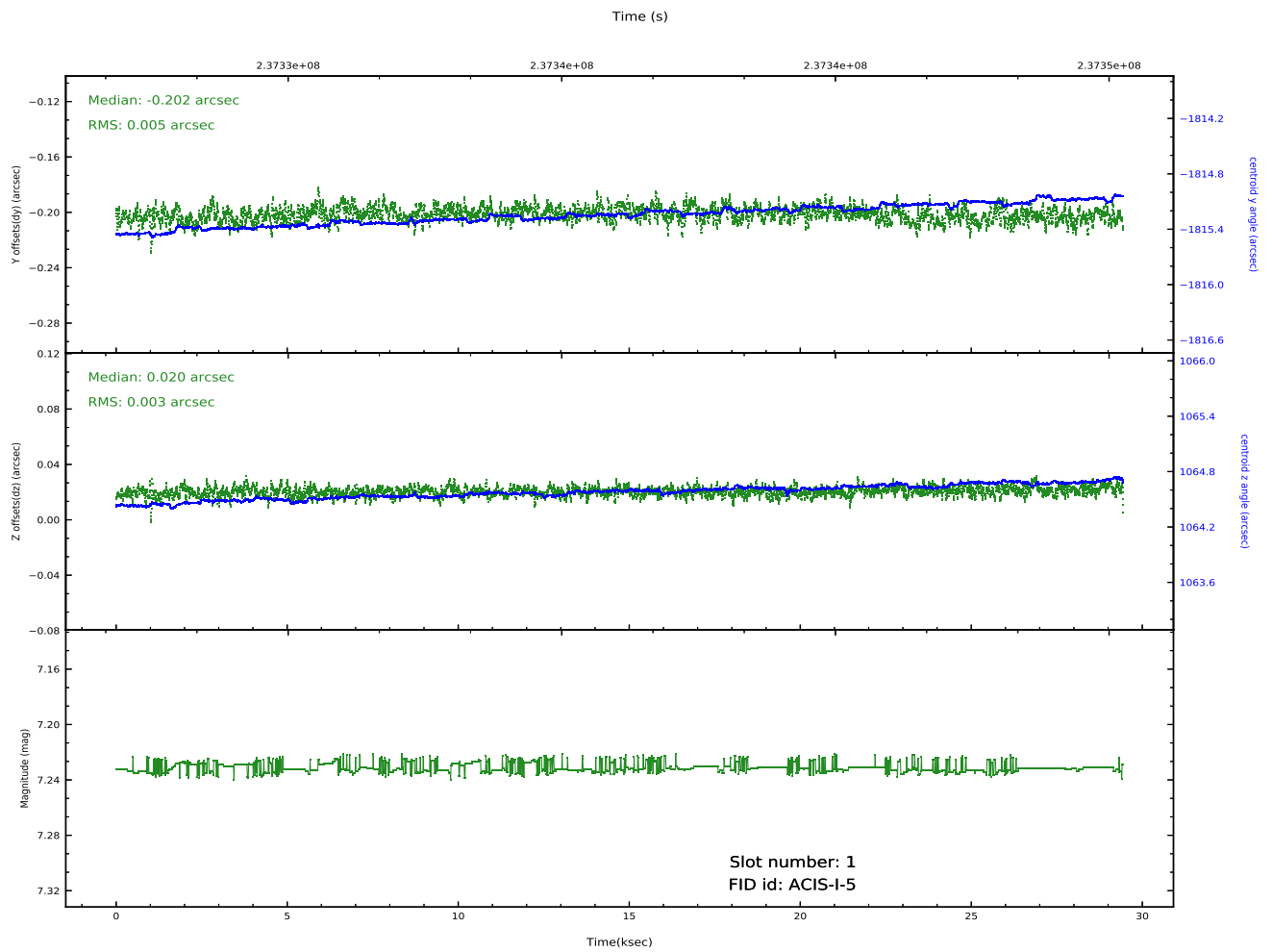
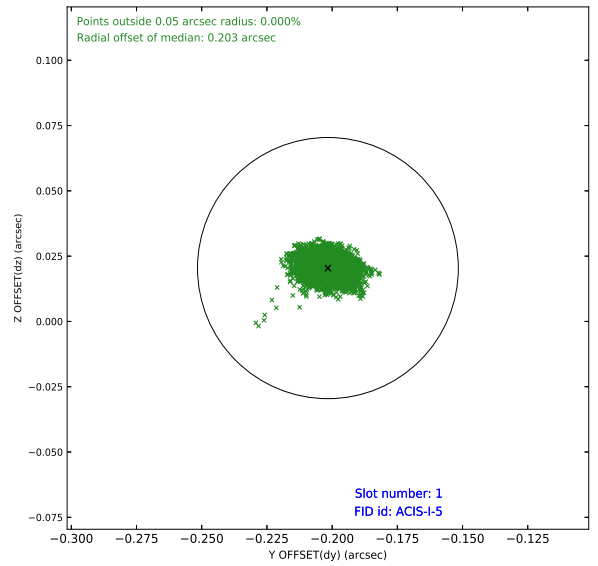
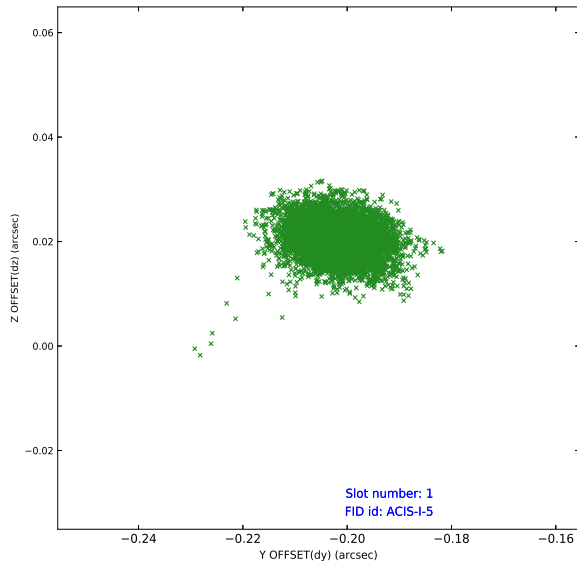
2.5.1 Slot 0



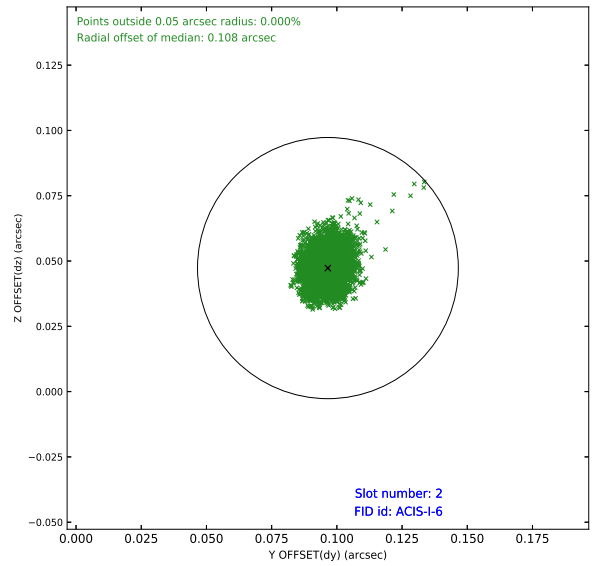
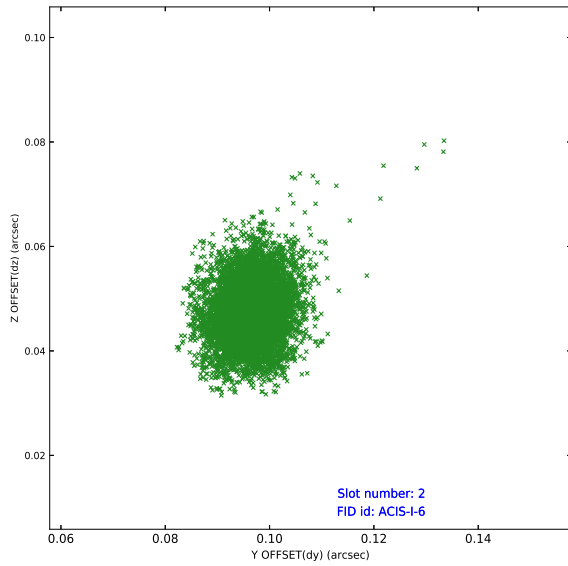
Time (s)



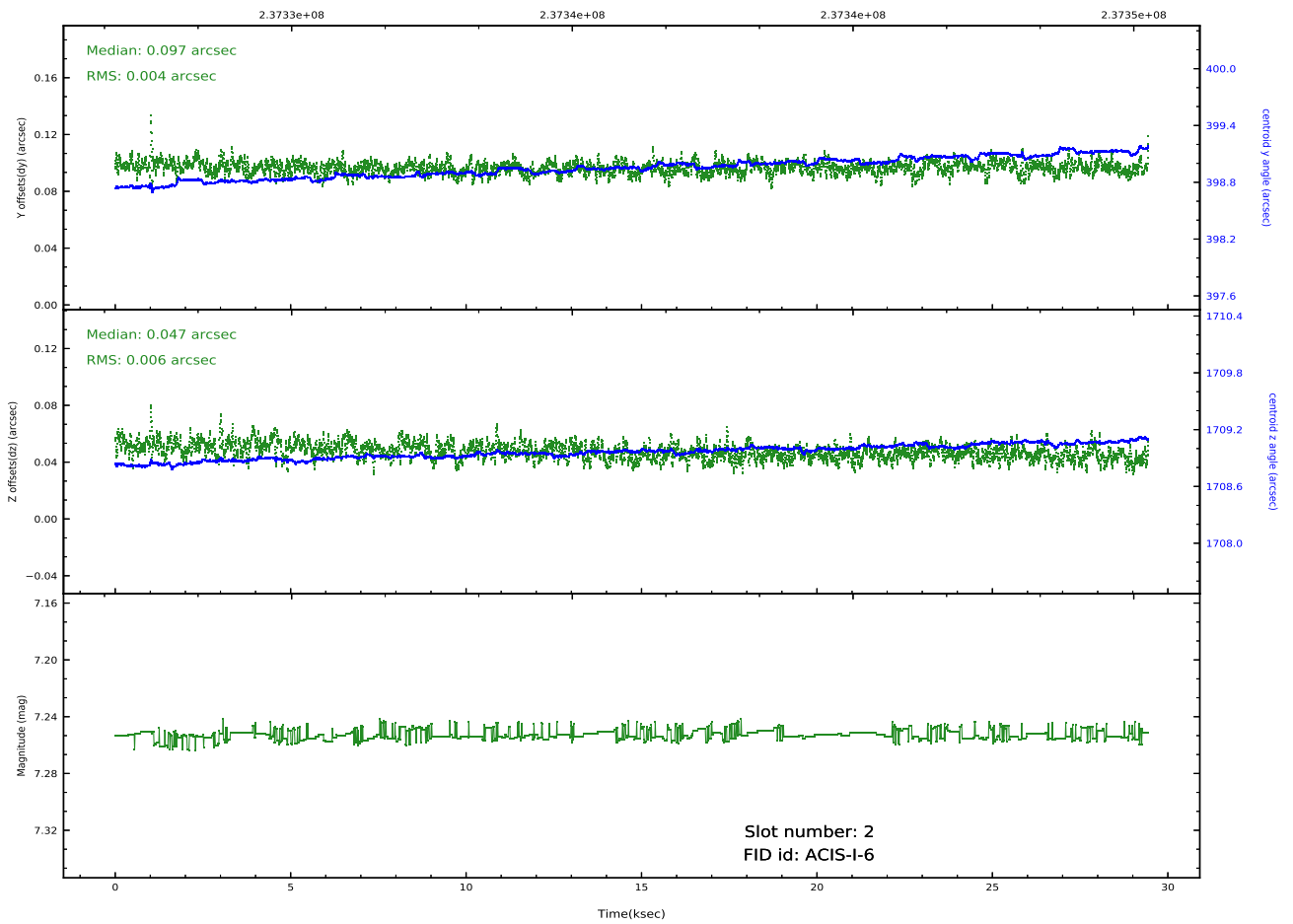
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.42825

A.2 Comments