

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4508 - L2 Version 4
Chandra X-Ray Center

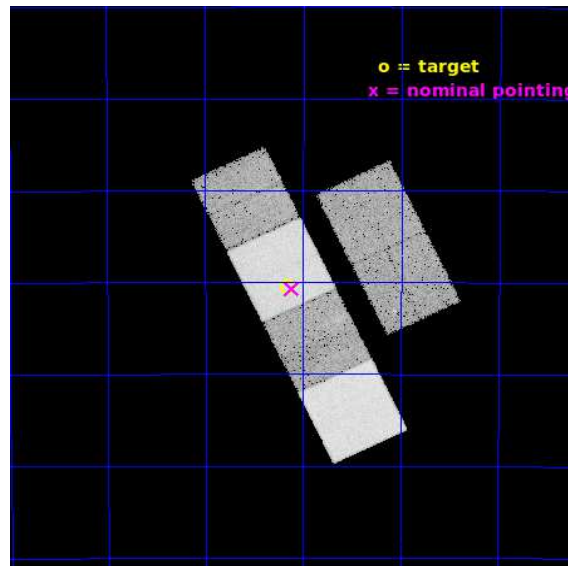
L2 Processing Date : Oct 3 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

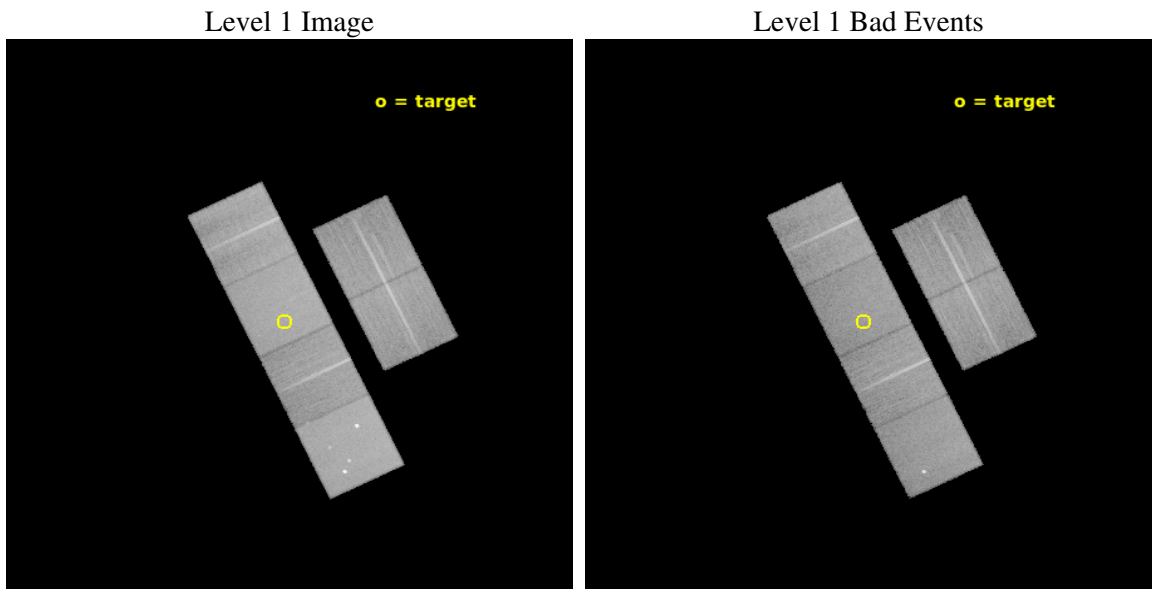
seq_num	200277	Sequence number
obs_id	4508	Observation id
title	Wind-Wind Interactions and Stellar Magnetic Fields in Pre-Planetary Nebulae	Proposal title
observer	Raghvendra Sahai	Principal investigator
object	IRAS16594-4656	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	255.790417	Observer's specified target RA [deg]
dec_targ	-47.007778	Observer's specified target Dec [deg]
ra_nom	255.77870262343	Nominal RA [deg]
dec_nom	-47.011879982459	Nominal Dec [deg]
roll_nom	244.14870362207	Nominal Roll [deg]
revision	4	Processing version of data
ontime	20278.399924457	Sum of GTIs [s]
livetime	20021.622614427	Livetime [s]
ontime2	20278.399924457	Sum of GTIs [s]
ontime3	20278.399924457	Sum of GTIs [s]
ontime5	20278.399924457	Sum of GTIs [s]
ontime6	20278.399924457	Sum of GTIs [s]
ontime7	20278.399924457	Sum of GTIs [s]
ontime8	20278.399924457	Sum of GTIs [s]
l2events	261848	Number of level 2 events



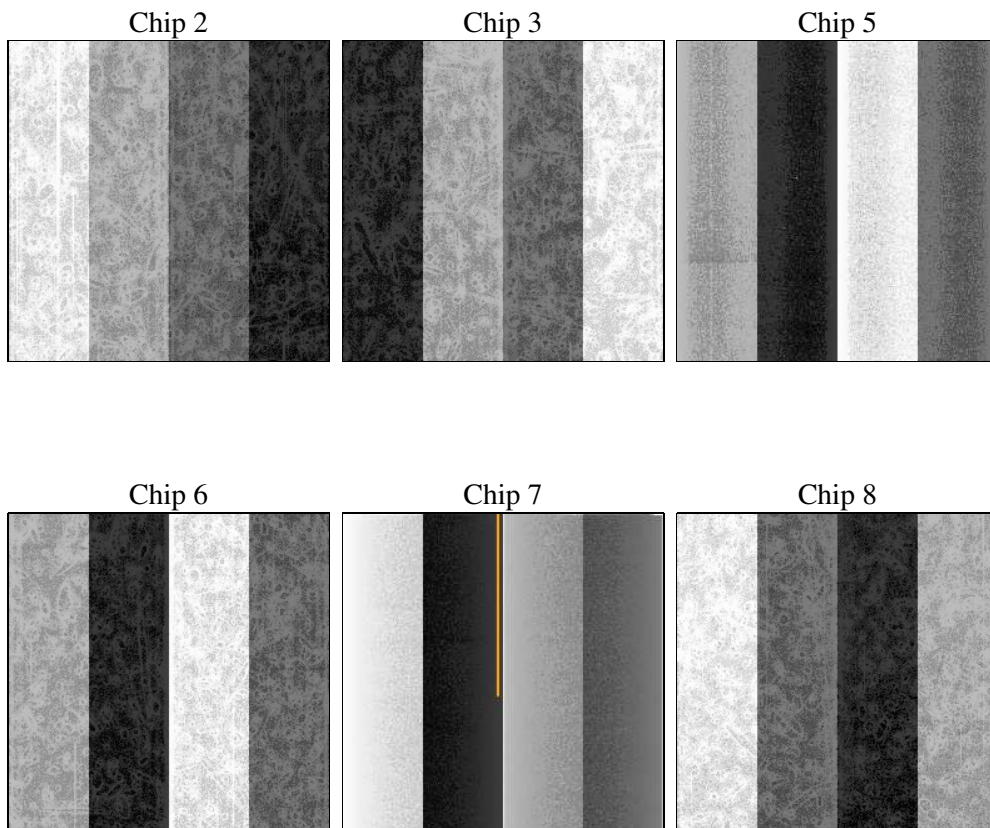
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20120.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	20278.399924457	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	20278.399924457	Sum of GTIs [s]
date	2020-10-03T18:37:51	Date and time of file creation	ontime3	20278.399924457	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	20278.399924457	Sum of GTIs [s]
			ontime6	20278.399924457	Sum of GTIs [s]
			ontime7	20278.399924457	Sum of GTIs [s]
			ontime8	20278.399924457	Sum of GTIs [s]
			l1events	1204457	Number of level 1 events

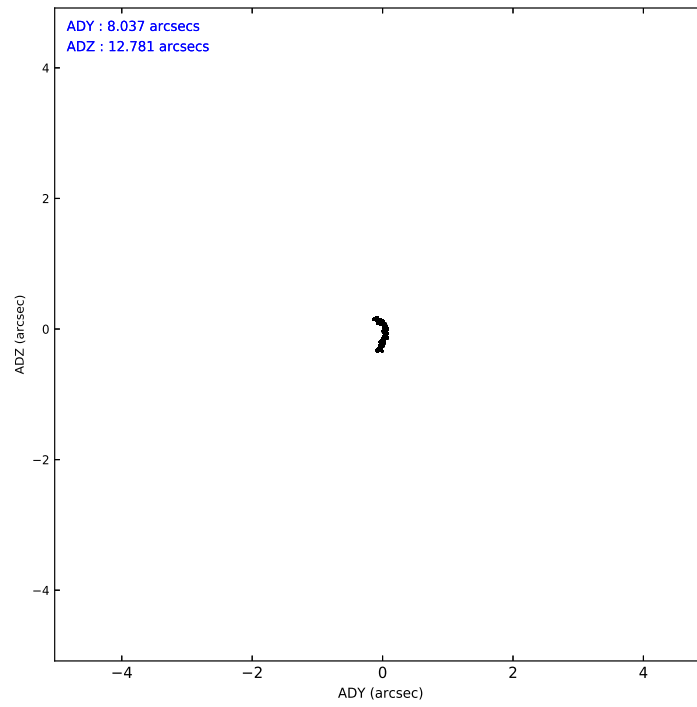
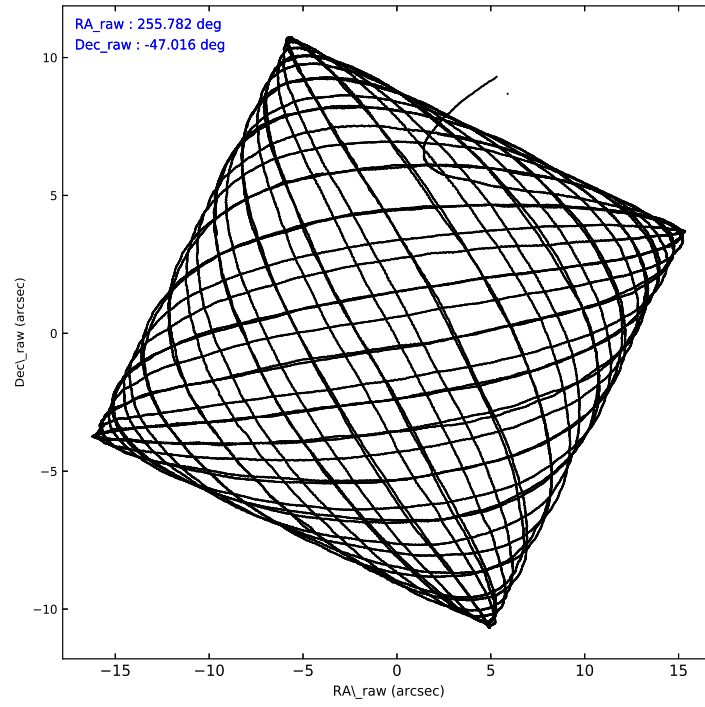
2.1.4 Events

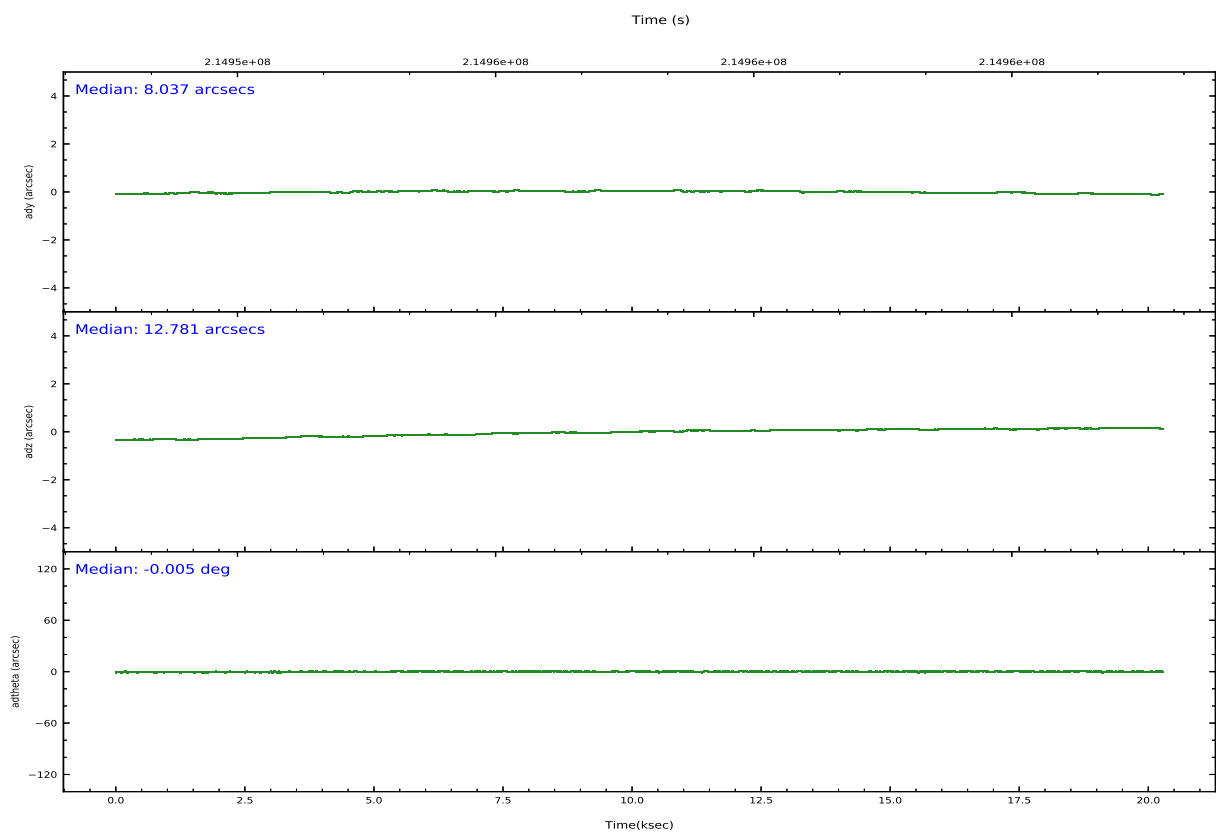
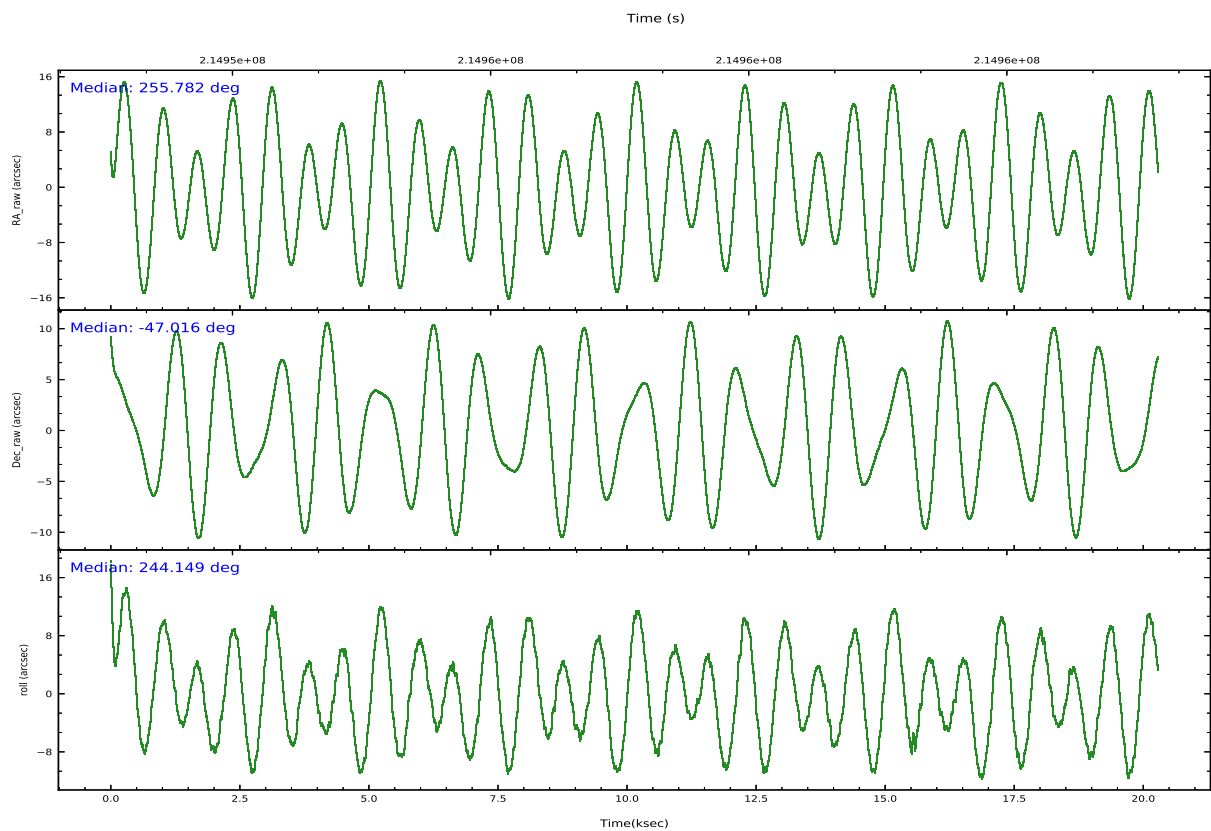
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	175151	165925	258169	168937	225537	210738	grade 0 events	9230	8446	16291	8391	8260	14235
rejected events	155769	147420	141027	148953	134669	167116		5%	5%	6%	4%	3%	6%
rejected %	88%	88%	54%	88%	59%	79%	grade 1 events	99	108	2841	87	208	143
								0%	0%	1%	0%	0%	0%
							grade 2 events	4172	3582	34978	4171	18765	9895
								2%	2%	13%	2%	8%	4%
							grade 3 events	1800	1886	4702	1966	8347	4867
								1%	1%	1%	1%	3%	2%
							grade 4 events	1901	1942	4669	1984	8240	4526
								1%	1%	1%	1%	3%	2%
							grade 5 events	6612	7340	18614	7865	21544	9933
								3%	4%	7%	4%	9%	4%
							grade 6 events	3226	3278	60411	4122	50218	11424
								1%	1%	23%	2%	22%	5%
							grade 7 events	148111	139343	115663	140351	109955	155715
								84%	83%	44%	83%	48%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	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	255.778665	255.77870262343	Subarray requested	NONE	NONE
[deg] Pointing Dec	-46.988471	-47.011879982459	Alternating exposures requested	N	N
[deg] Pointing Roll	243.991412	244.14870362207	[s] Primary exposure time	0.000000	3.2
[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)	214947810.184000	214946420.19339			
Observation start date	2004-10-23T19:42:26	2004-10-23T19:20:20			
[s] Observation end time (MET)	214967930.184000	214968825.15689			
Observation end date	2004-10-24T01:17:46	2004-10-24T01:33:45			
Read mode	TIMED	TIMED			

2.3 Aspect



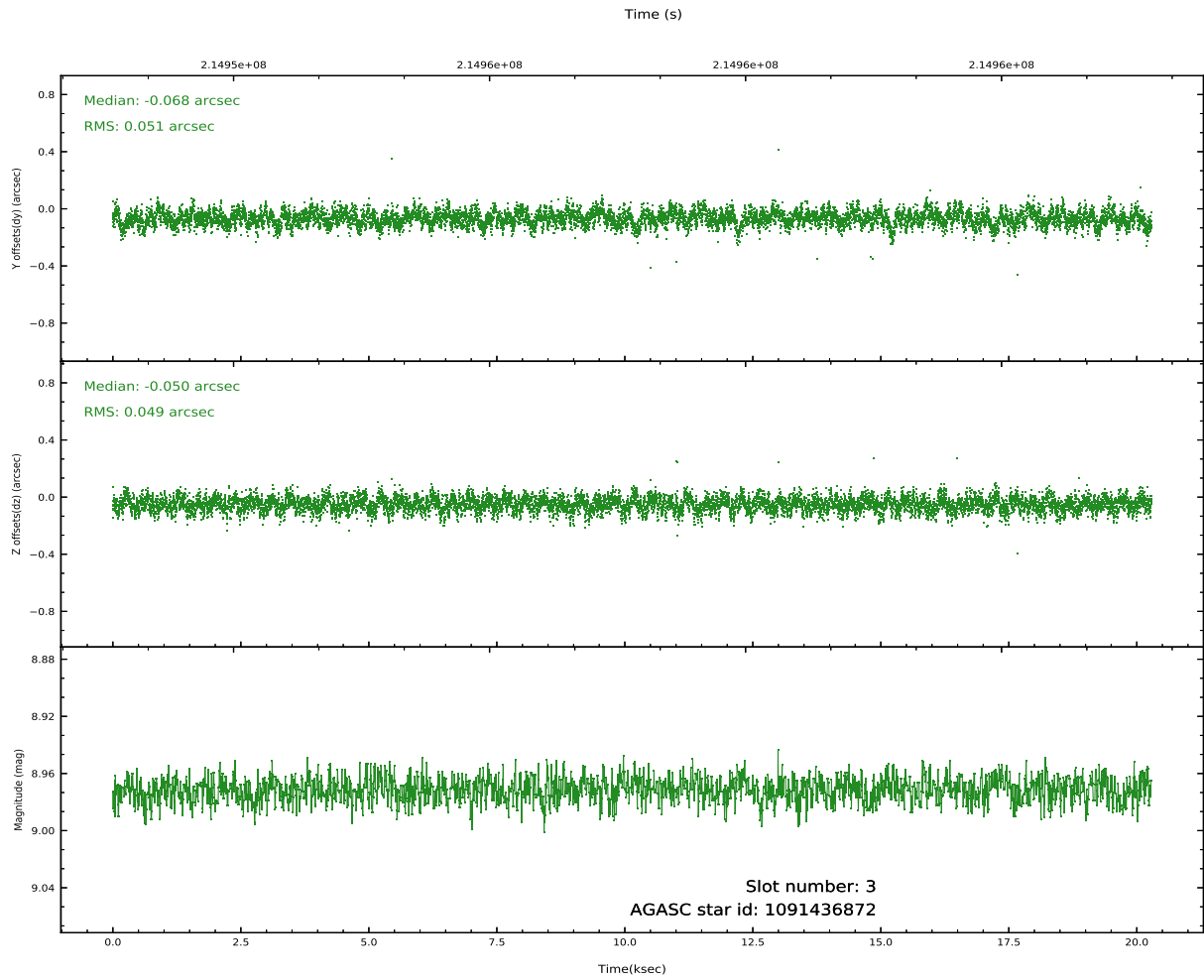
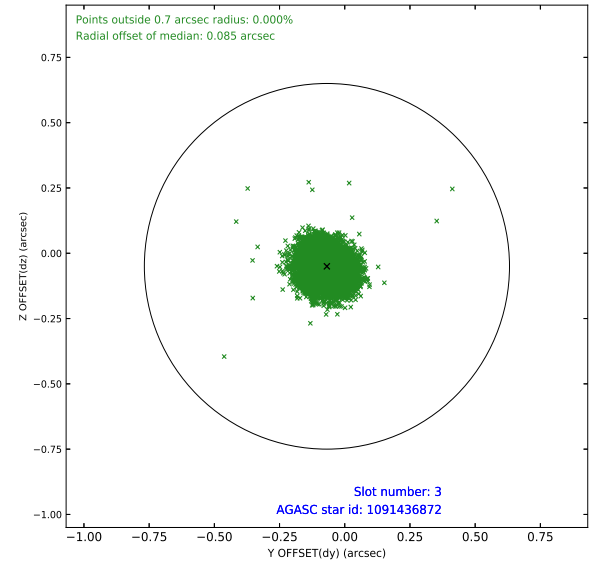
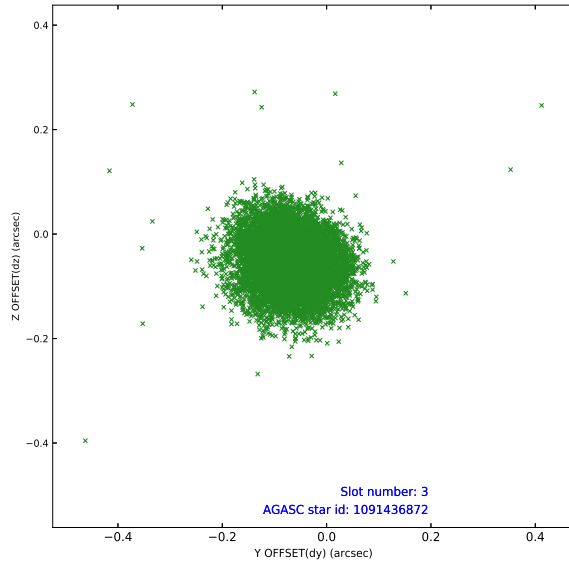


Slot Statistics

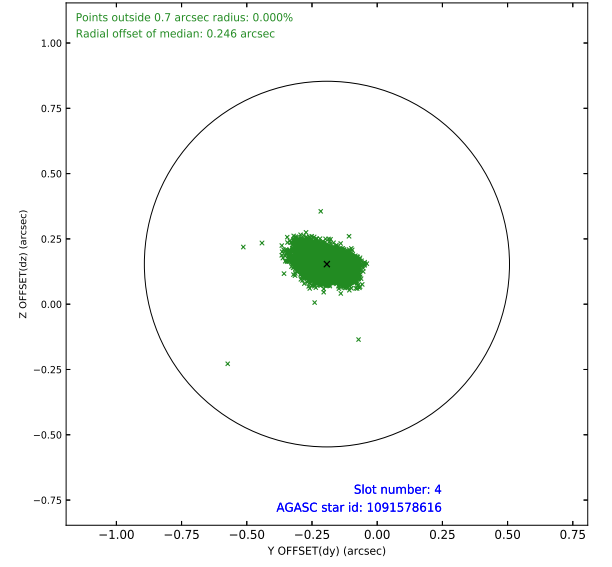
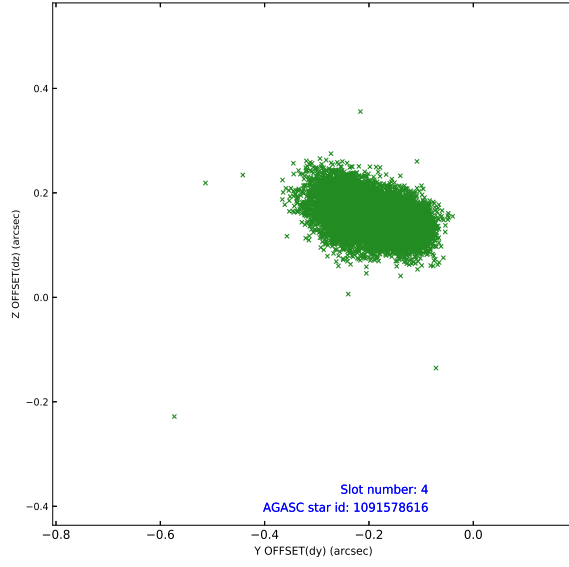
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	4949	1.000	-0.029	-0.067	0.008	0.014	0.000000	0.000000	-760.82	-1734
1	FID		ACIS-S-4	7.19	4949	1.000	0.123	0.032	0.006	0.010	0.000000	0.000000	2152.51	174
2	FID		ACIS-S-5	7.23	4949	1.000	-0.125	0.044	0.007	0.012	0.000000	0.000000	-1813.54	168
3	GUIDE	used	1091436872	8.97	9890	1.000	-0.068	-0.050	0.075	0.121	255.728542	-46.511740	-1487.67	-864
4	GUIDE	used	1091578616	7.19	9894	1.000	-0.193	0.154	0.071	0.112	256.896475	-46.679685	-2192.24	2002
5	GUIDE	used	1091962048	9.34	9891	1.000	0.133	-0.007	0.087	0.143	255.249687	-47.258259	1443.81	-733
6	GUIDE	used	1091963760	8.82	9895	1.000	0.237	-0.268	0.106	0.170	254.534918	-47.241344	2173.77	-2322
7	GUIDE	used	1091568688	9.20	9888	1.000	-0.113	0.176	0.098	0.163	257.031467	-46.735947	-2150.07	2390

2.4 Star Slots

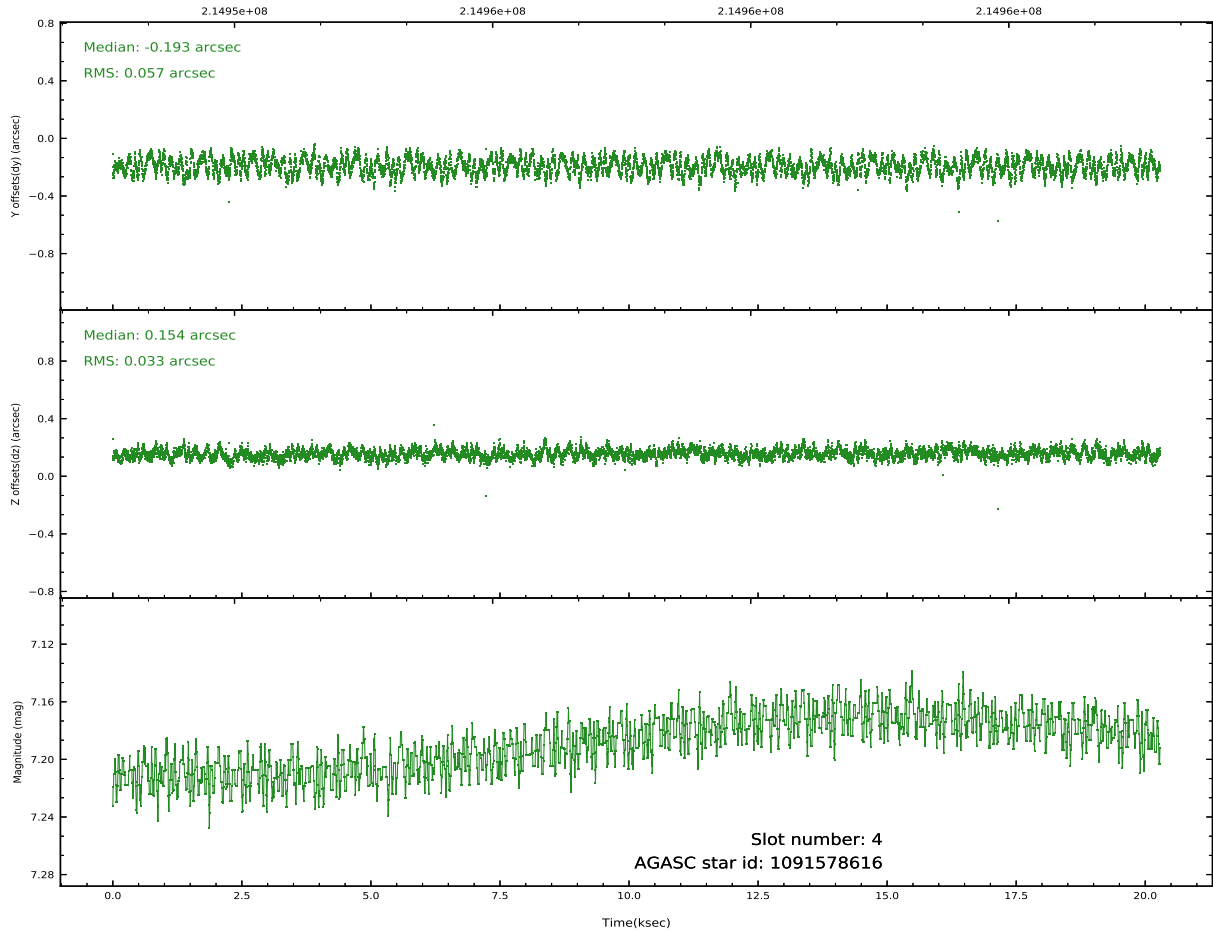
2.4.1 Slot 3



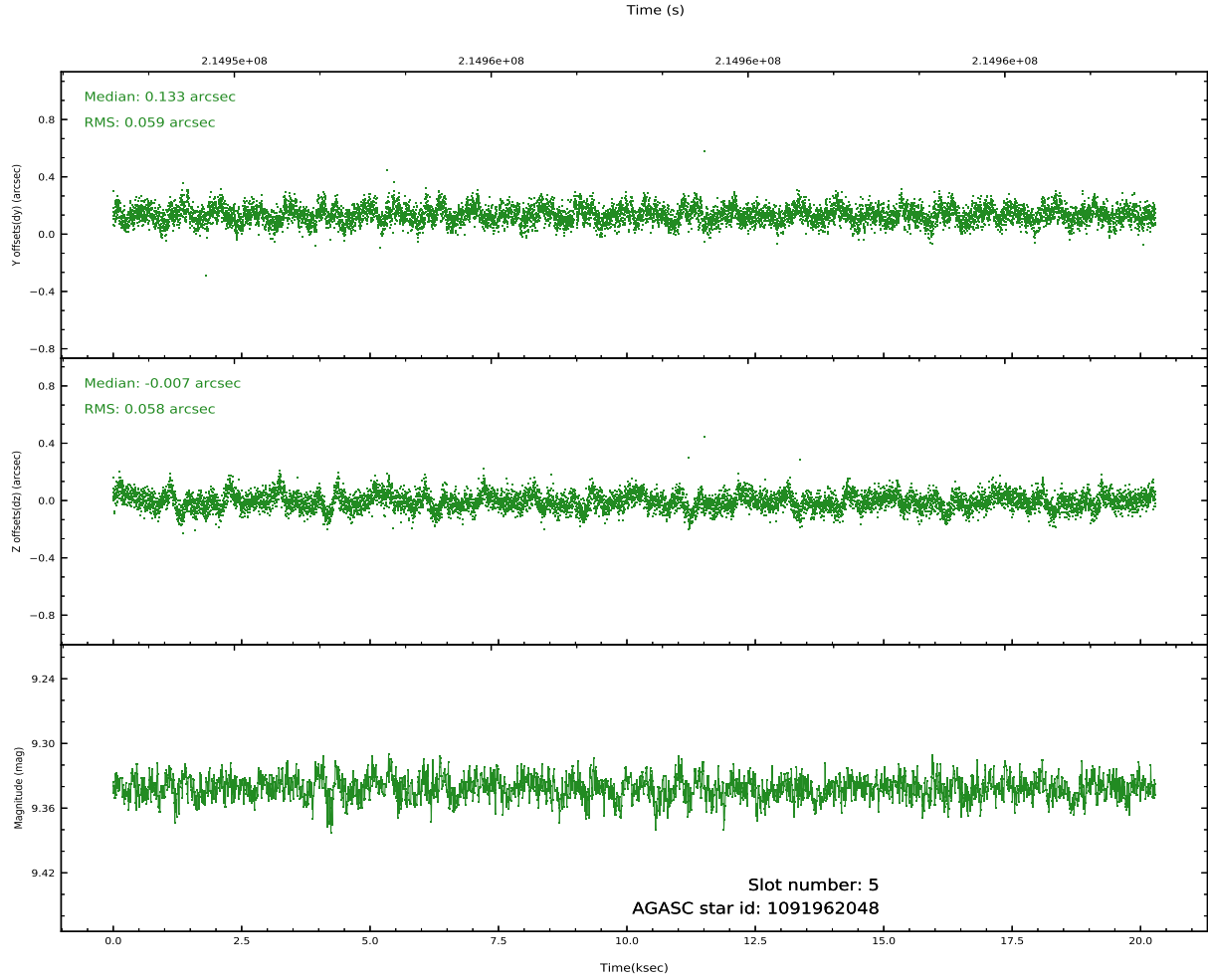
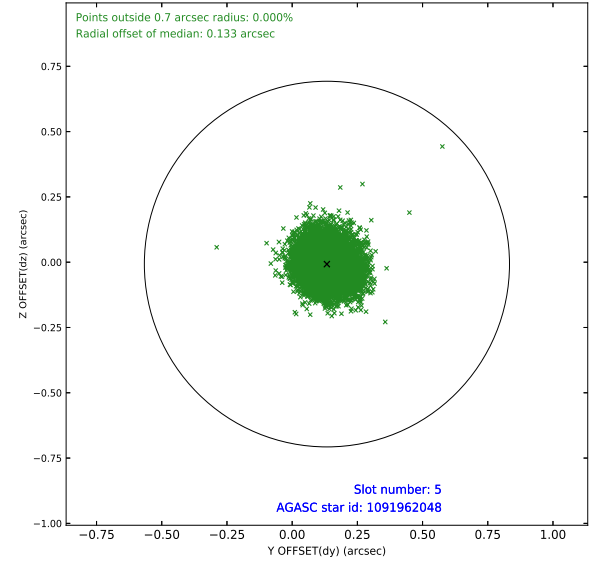
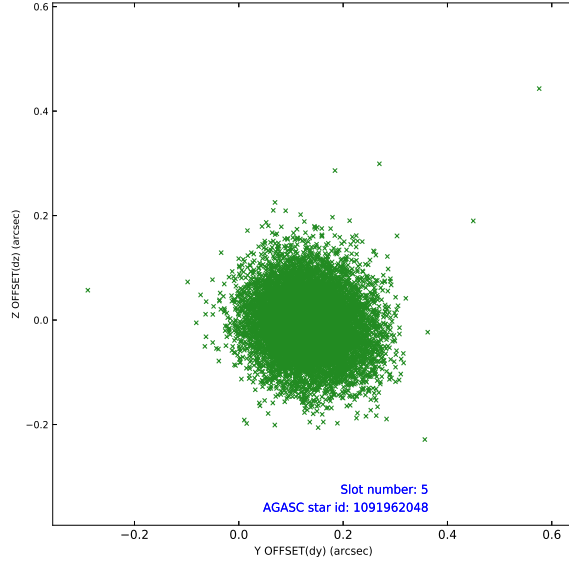
2.4.2 Slot 4



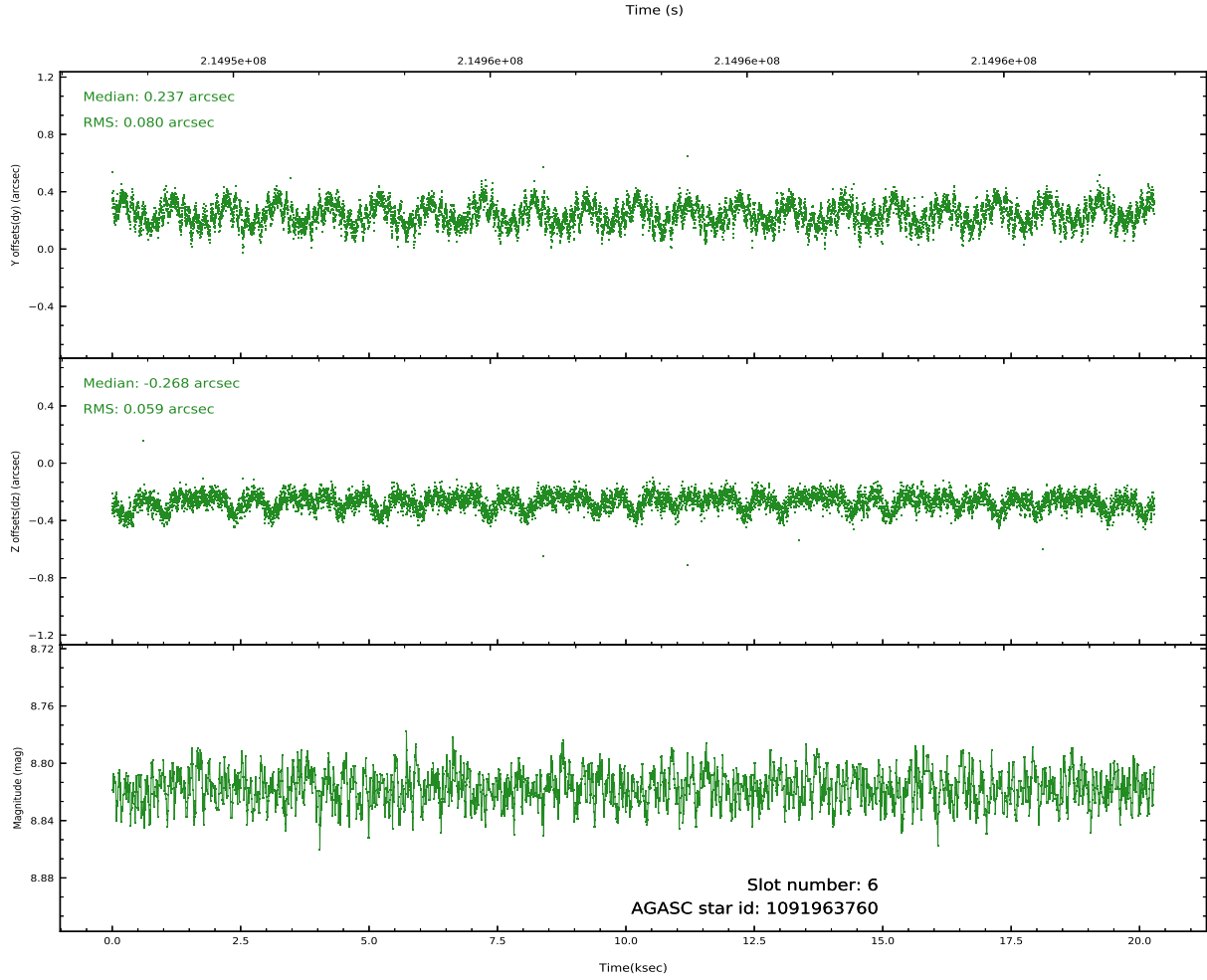
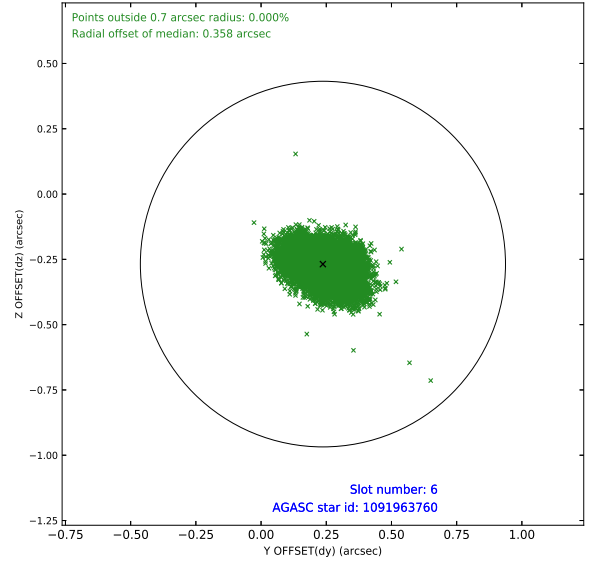
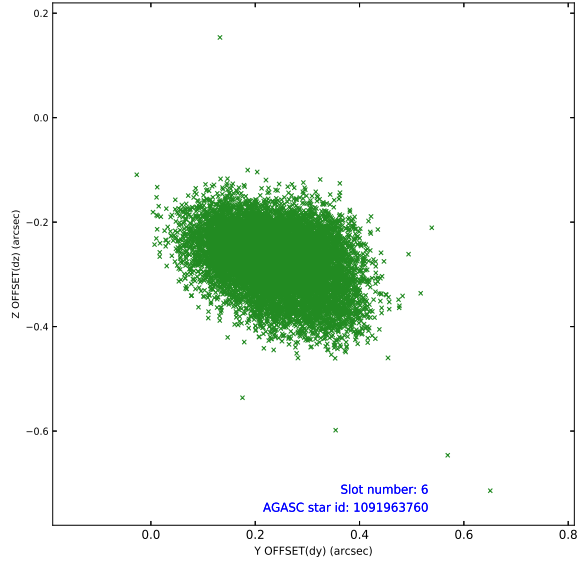
Time (s)



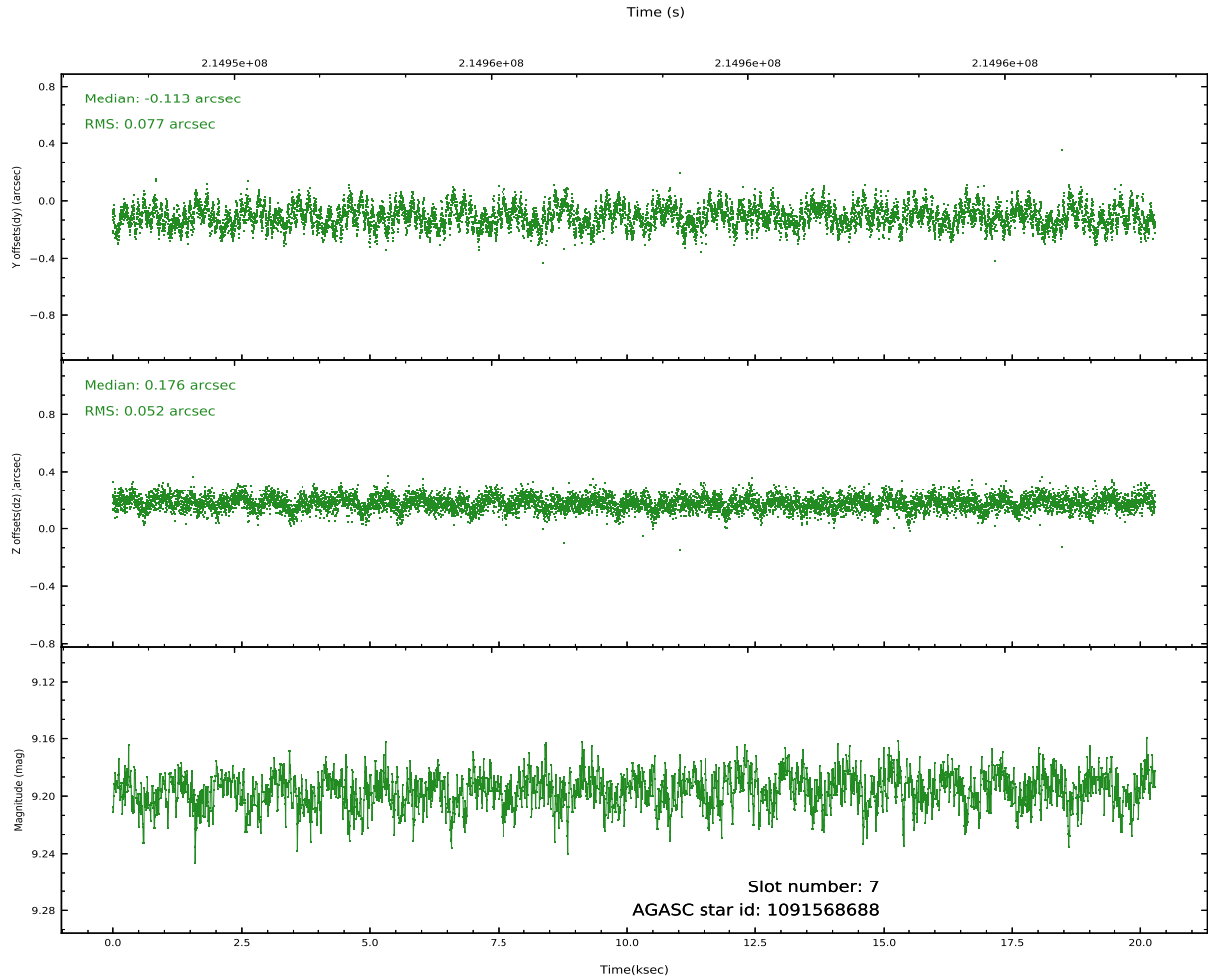
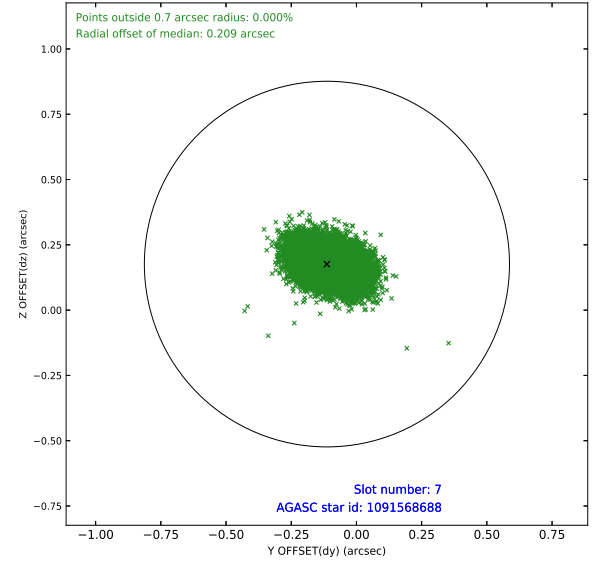
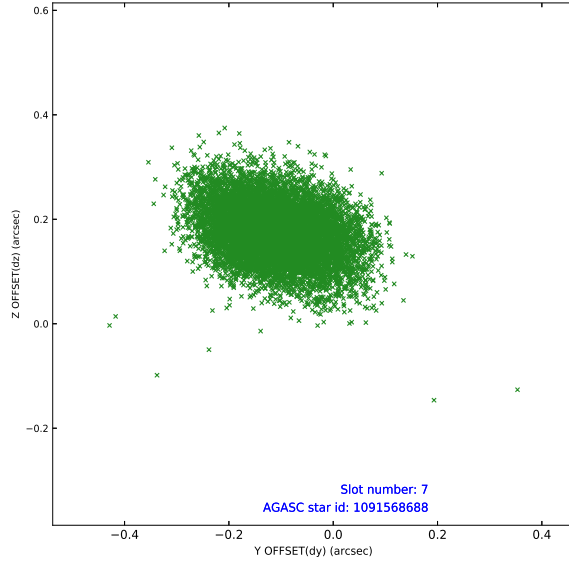
2.4.3 Slot 5



2.4.4 Slot 6

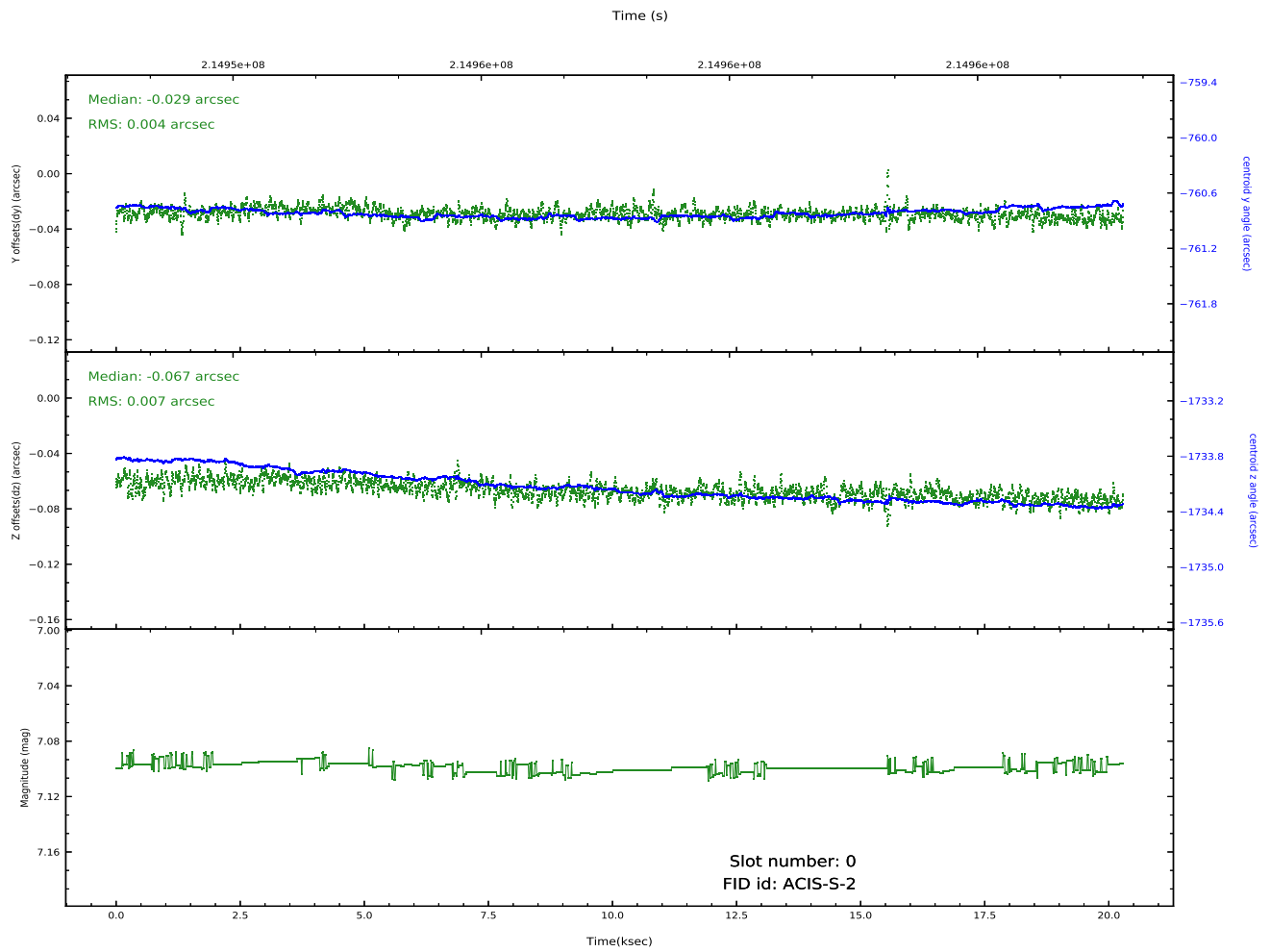
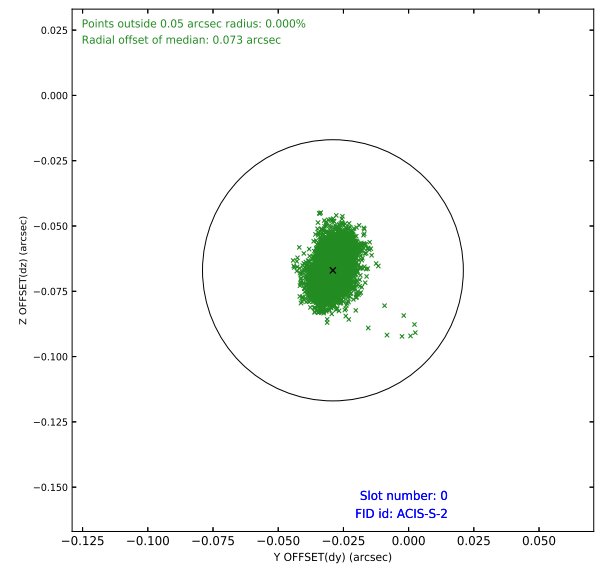
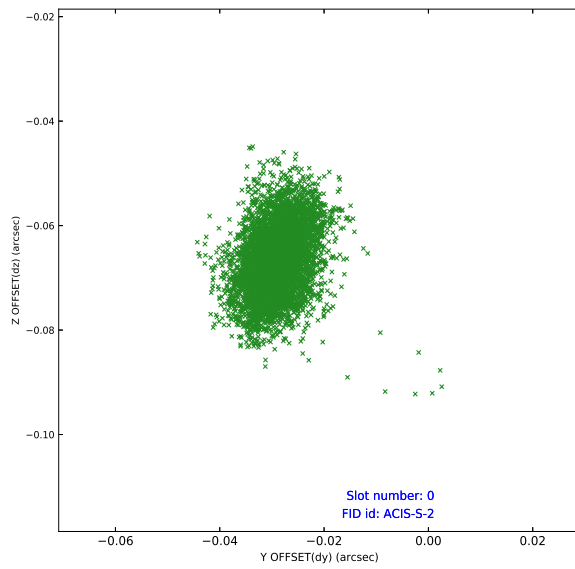


2.4.5 Slot 7

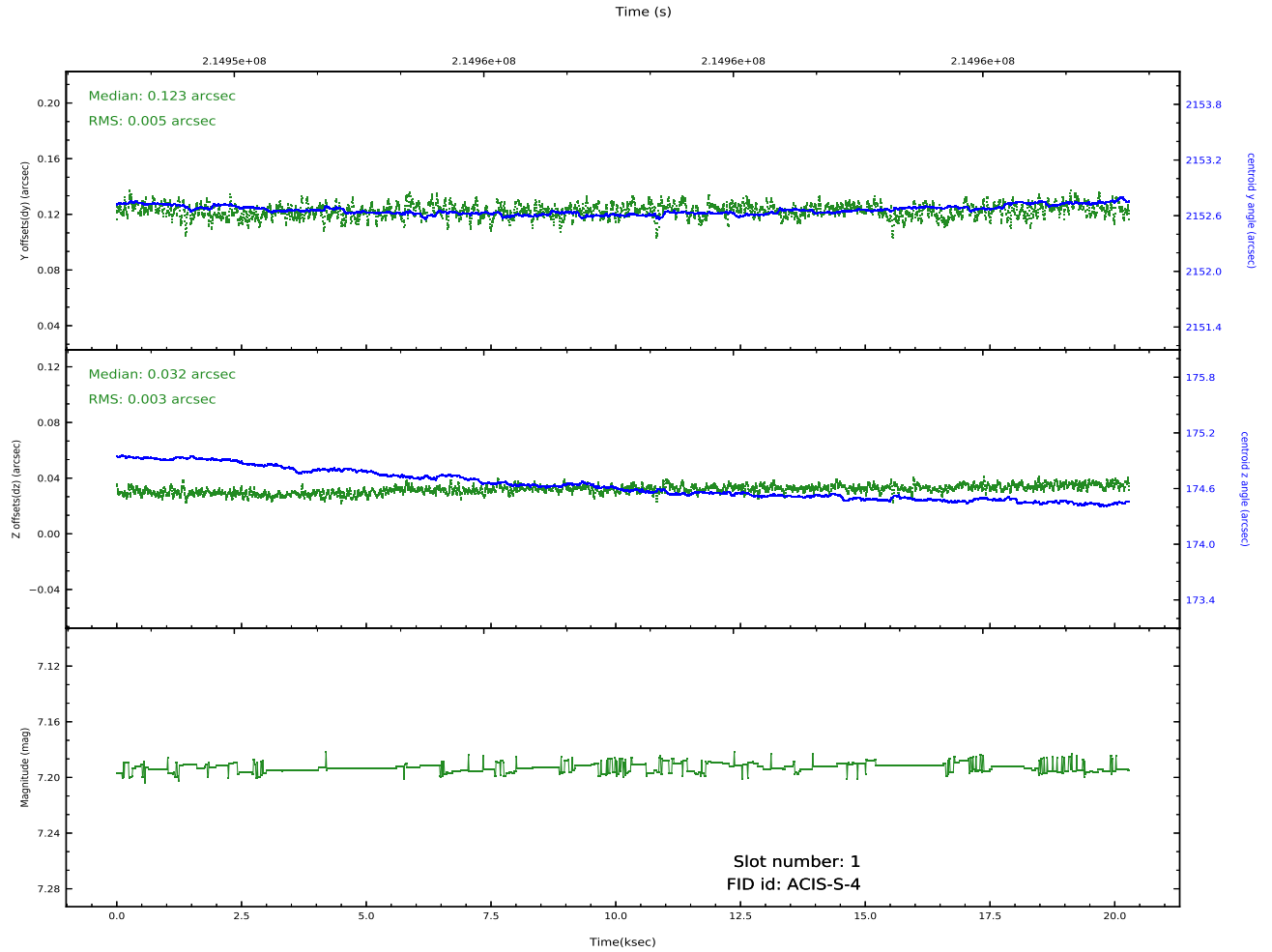
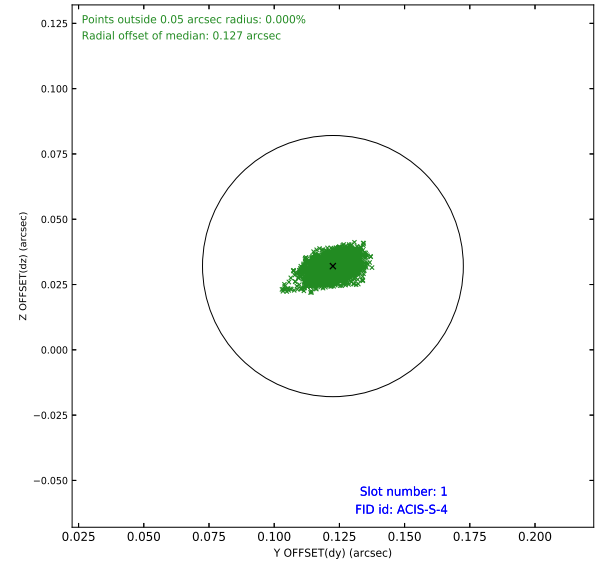
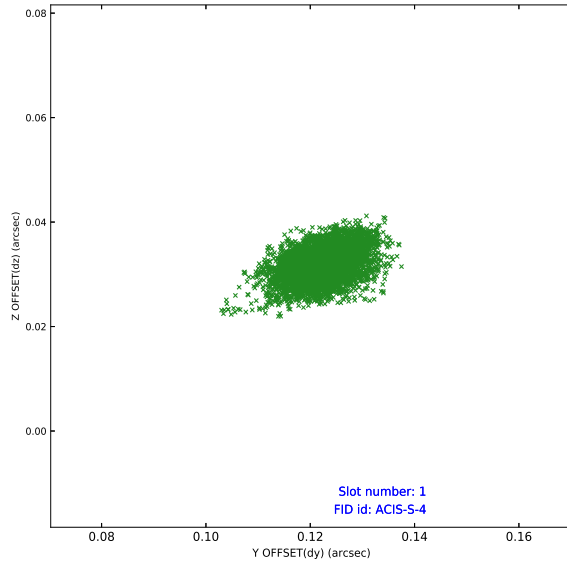


2.5 FID Slots

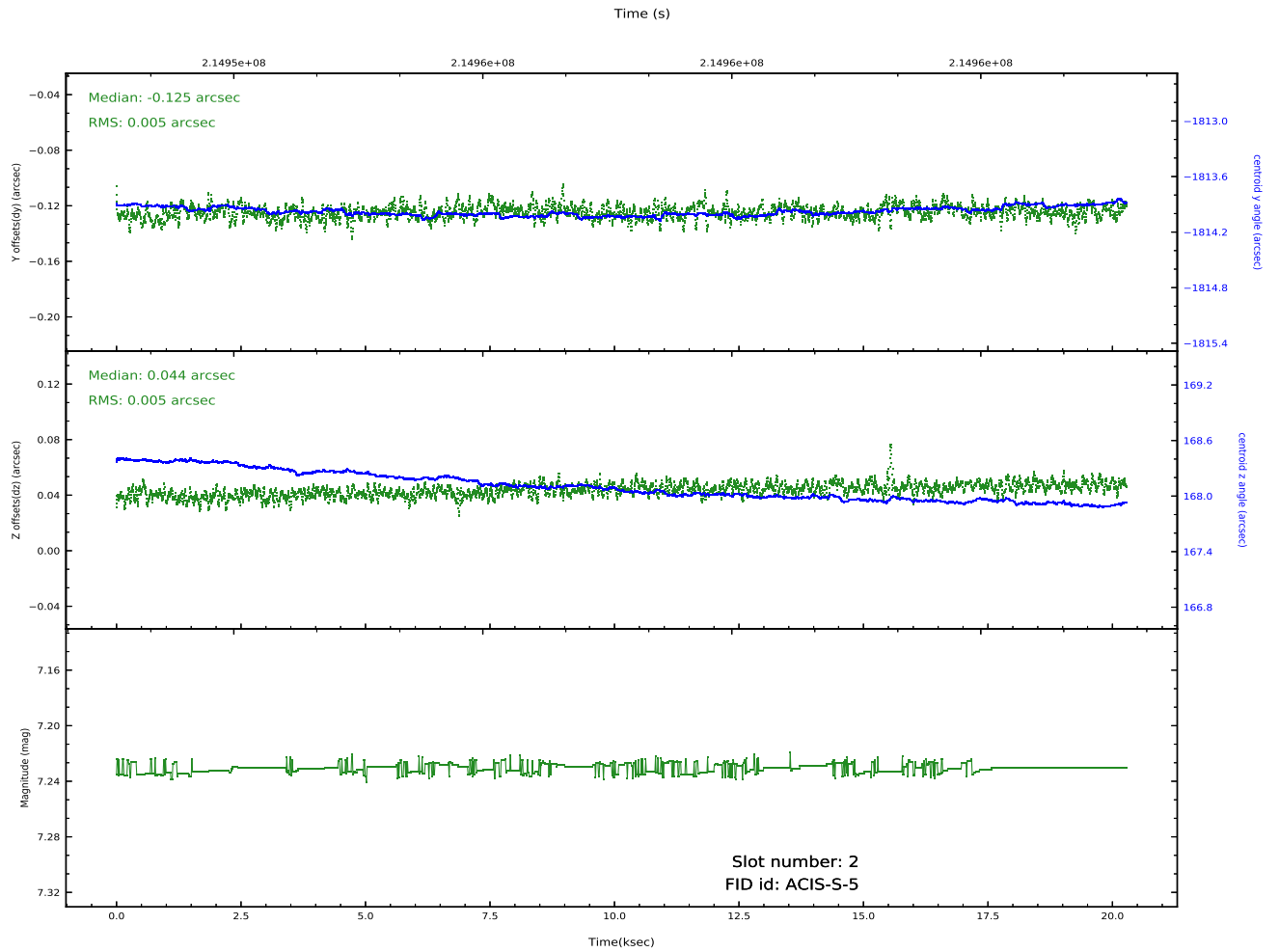
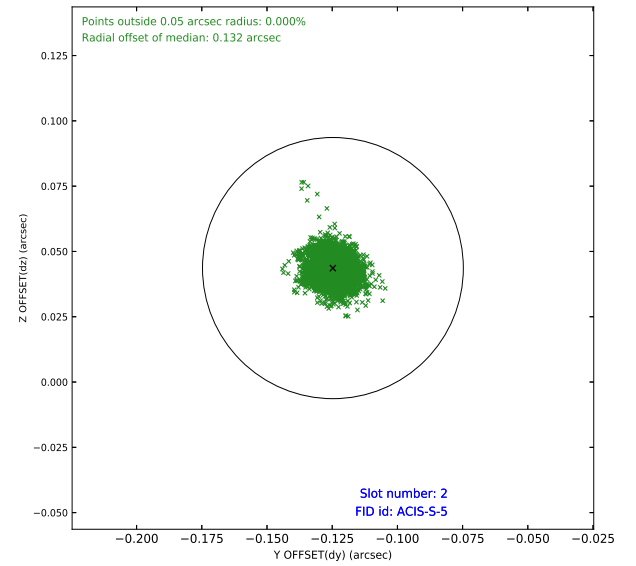
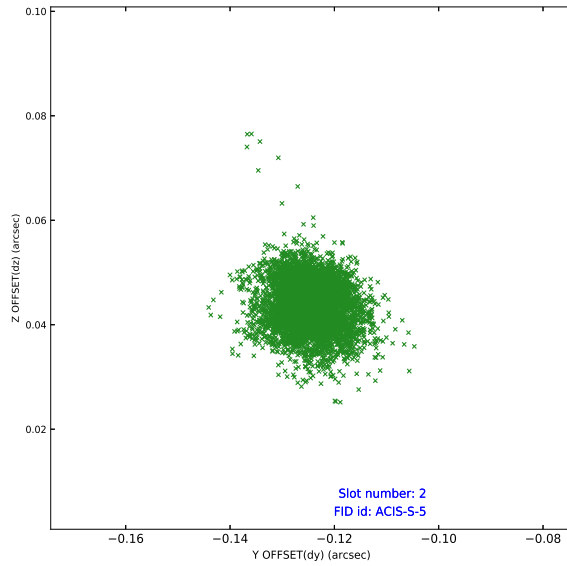
2.5.1 Slot 0



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)	2020.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.278

A.2 Comments