

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20622 - L2 Version 3
Chandra X-Ray Center

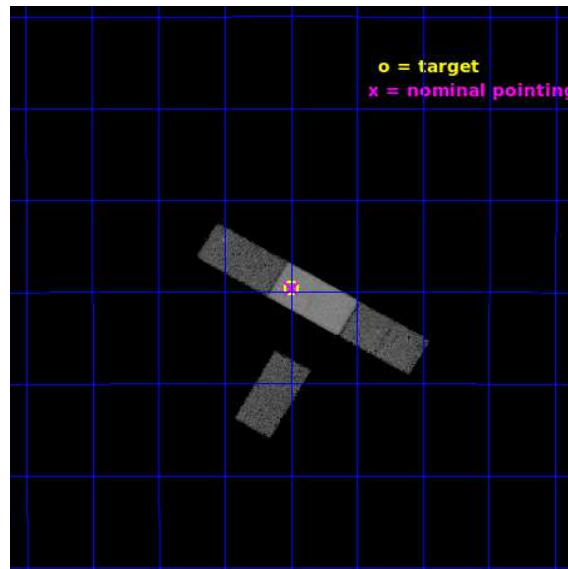
L2 Processing Date : Oct 24 2020

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1 Front

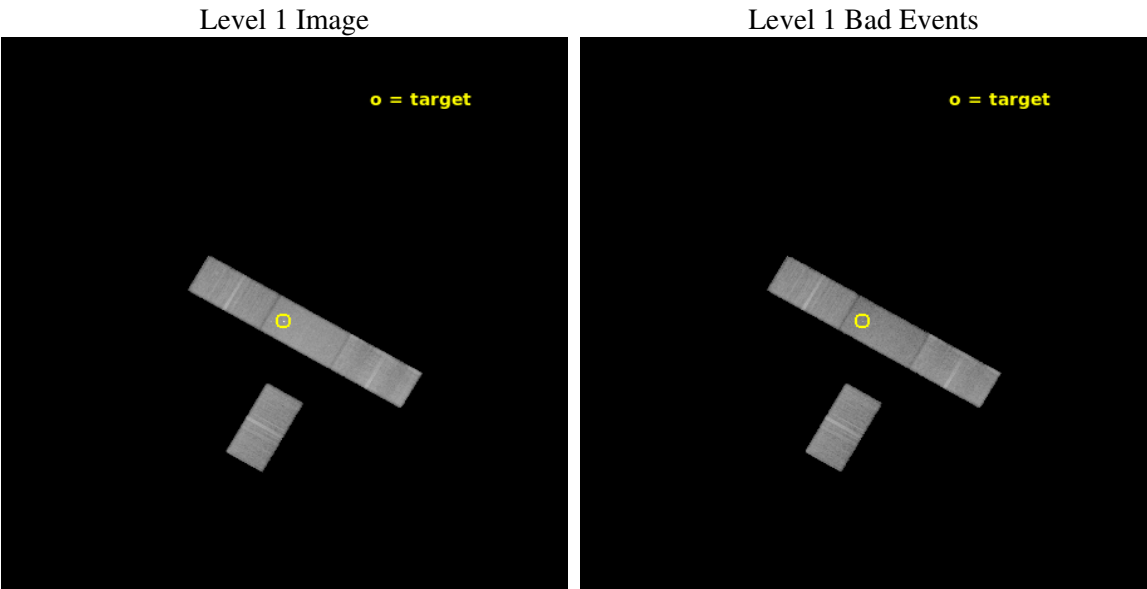
seq_num	703613	Sequence number
obs_id	20622	Observation id
title	Resolved BPT Mapping of Nearby AGN	Proposal title
observer	Walter Maksym	Principal investigator
object	NGC 3081	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	149.872917	Observer's specified target RA [deg]
dec_targ	-22.826194	Observer's specified target Dec [deg]
ra_nom	149.87267367977	Nominal RA [deg]
dec_nom	-22.827538480457	Nominal Dec [deg]
roll_nom	29.9662464125	Nominal Roll [deg]
revision	3	Processing version of data
ontime	30095.100844145	Sum of GTIs [s]
livetime	29385.695581403	Livetime [s]
ontime3	30093.35979414	Sum of GTIs [s]
ontime6	30095.100844145	Sum of GTIs [s]
ontime7	30095.100844145	Sum of GTIs [s]
ontime8	30095.100844145	Sum of GTIs [s]
l2events	103131	Number of level 2 events



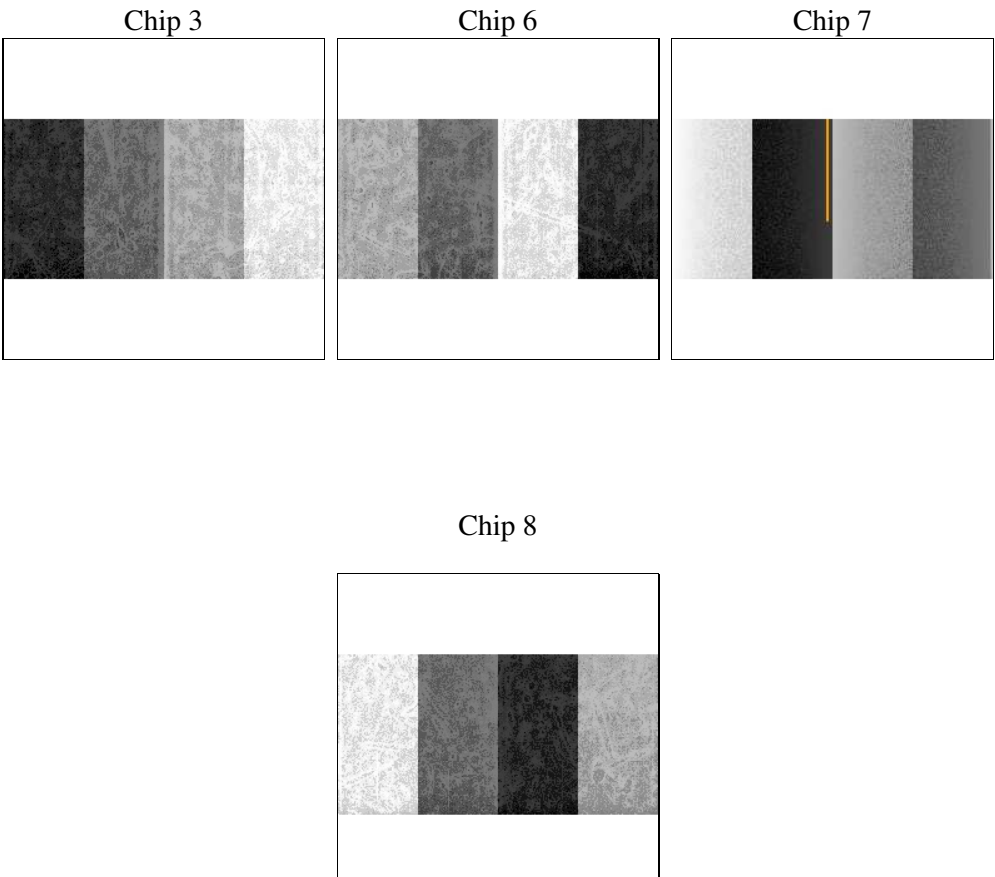
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	30095.100844145	Sum of GTIs [s]
caldsver	4.9.3	 	ontime3	30093.35979414	Sum of GTIs [s]
date	2020-10-24T09:07:51	Date and time of file creation	ontime6	30095.100844145	Sum of GTIs [s]
revision	3	Processing version of data	ontime7	30095.100844145	Sum of GTIs [s]
			ontime8	30095.100844145	Sum of GTIs [s]
			l1events	553403	Number of level 1 events

2.1.4 Events

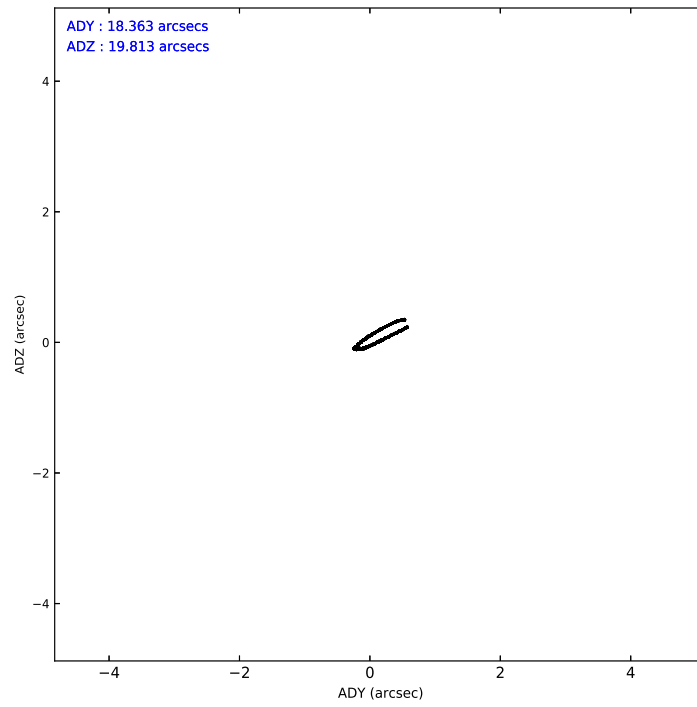
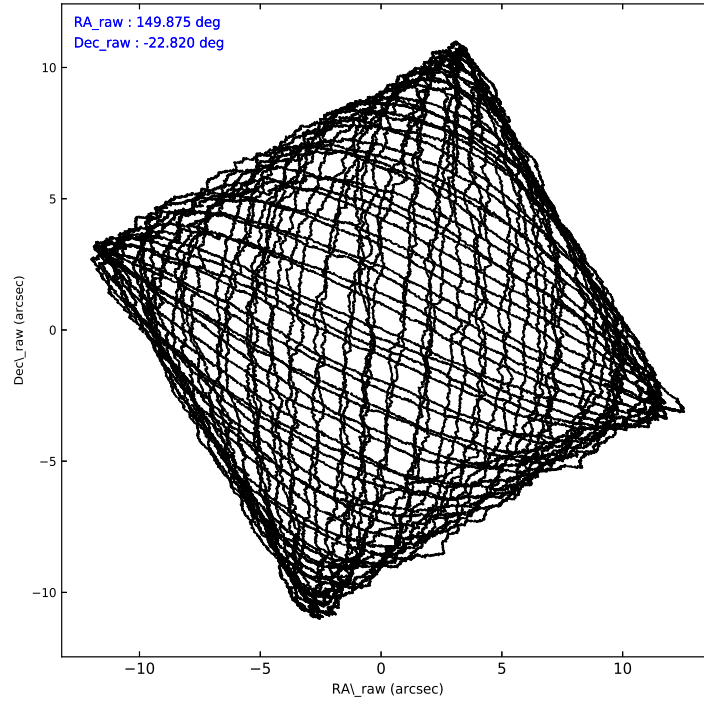
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	116690	129152	151814	155747
rejected events	104775	114969	82468	118593
rejected %	89%	89%	54%	76%

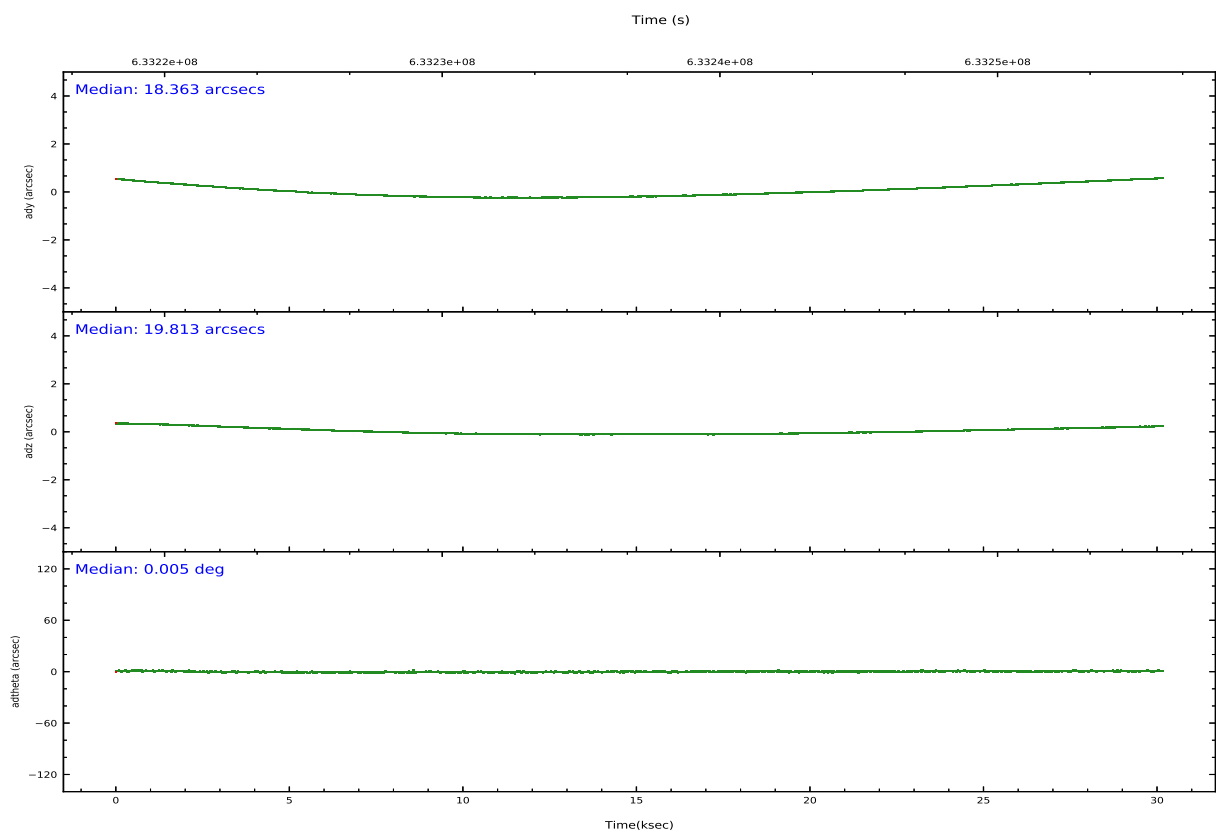
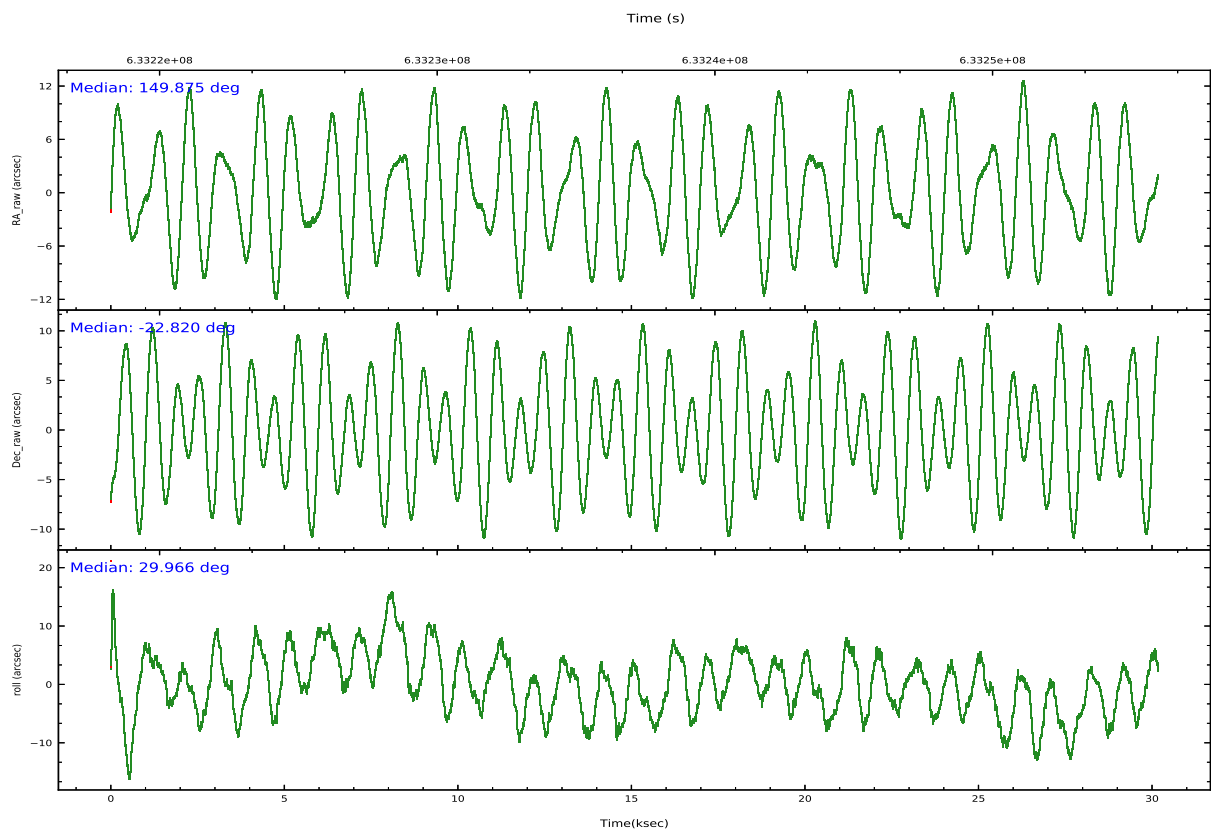
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3871	4539	6981	9797
	3%	3%	4%	6%
grade 1 events	35	41	221	96
	0%	0%	0%	0%
grade 2 events	2362	3217	14105	9185
	2%	2%	9%	5%
grade 3 events	1558	1592	6522	3812
	1%	1%	4%	2%
grade 4 events	1534	1474	6339	3628
	1%	1%	4%	2%
grade 5 events	5214	5091	14944	7868
	4%	3%	9%	5%
grade 6 events	2591	3361	35402	10732
	2%	2%	23%	6%
grade 7 events	99525	109837	67300	110629
	85%	85%	44%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-3678	ACIS-3678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	149.860036	149.87267367977	CCD I2 on	O2	N
[deg] Pointing Dec	-22.843858	-22.827538480457	CCD I3 on	O4	Y
[deg] Pointing Roll	29.814999	29.9662464125	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O3	Y
[s] Observation start time (MET)	633222770.184000	633221932.09883	CCD S5 on	N	N
Observation start date	2018-01-24T23:11:41	2018-01-24T22:58:52	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	633252770.184000	633253970.52572	On-chip summing requested	N	N
Observation end date	2018-01-25T07:31:41	2018-01-25T07:52:50	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.7

2.3 Aspect



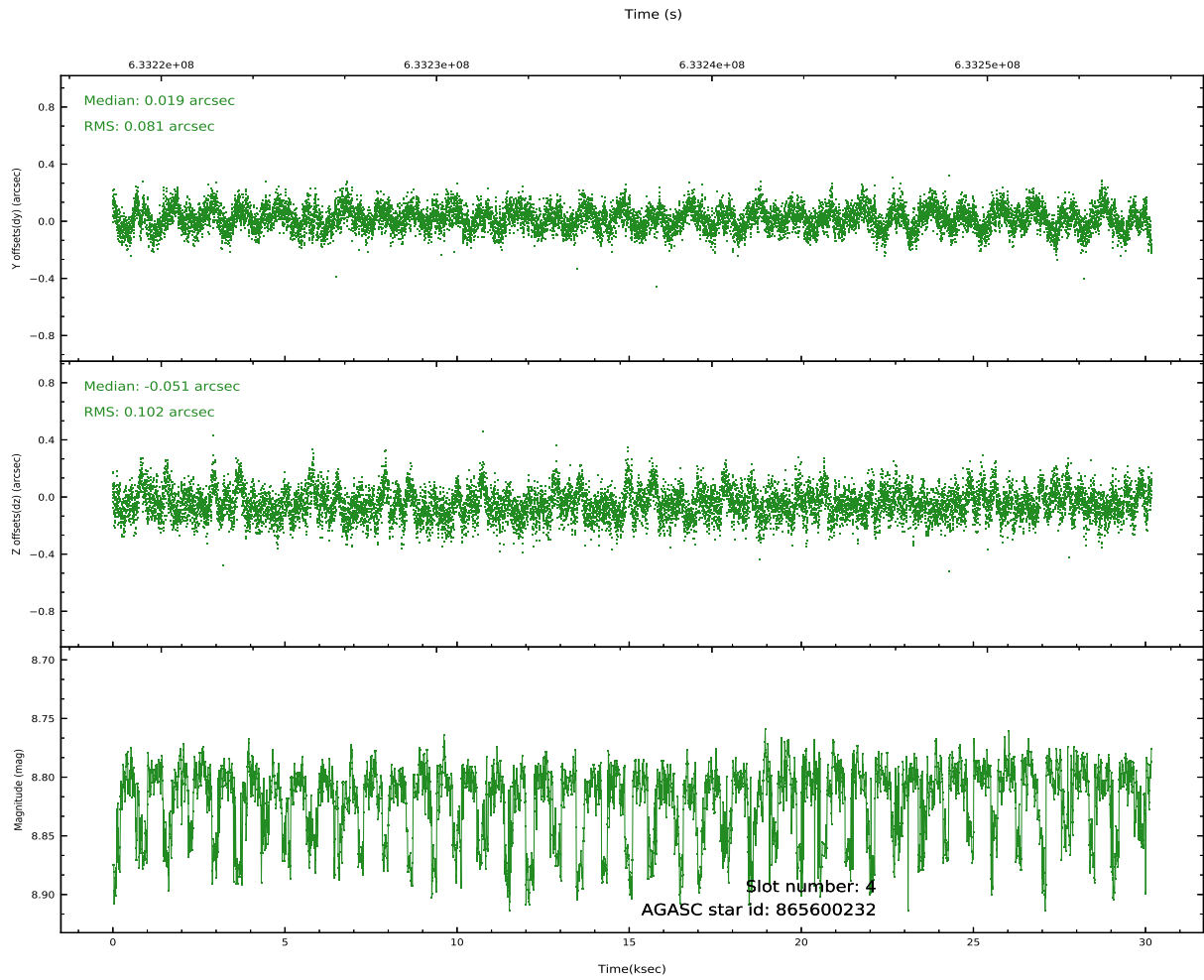
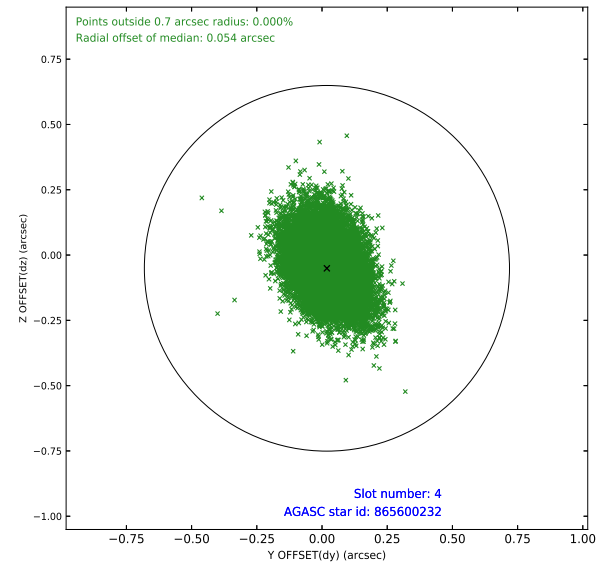
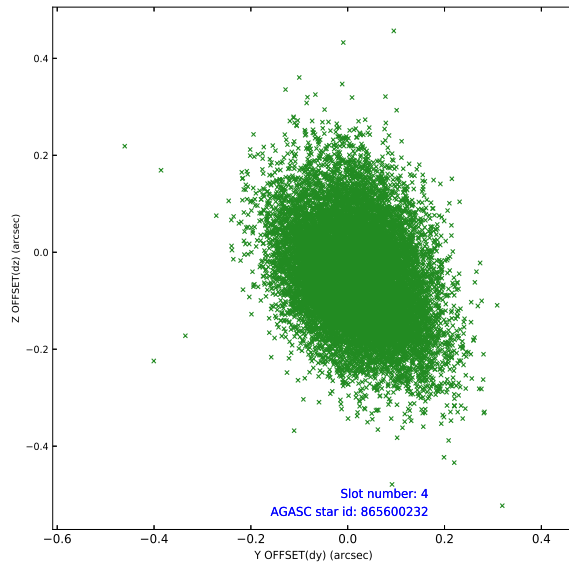


Slot Statistics

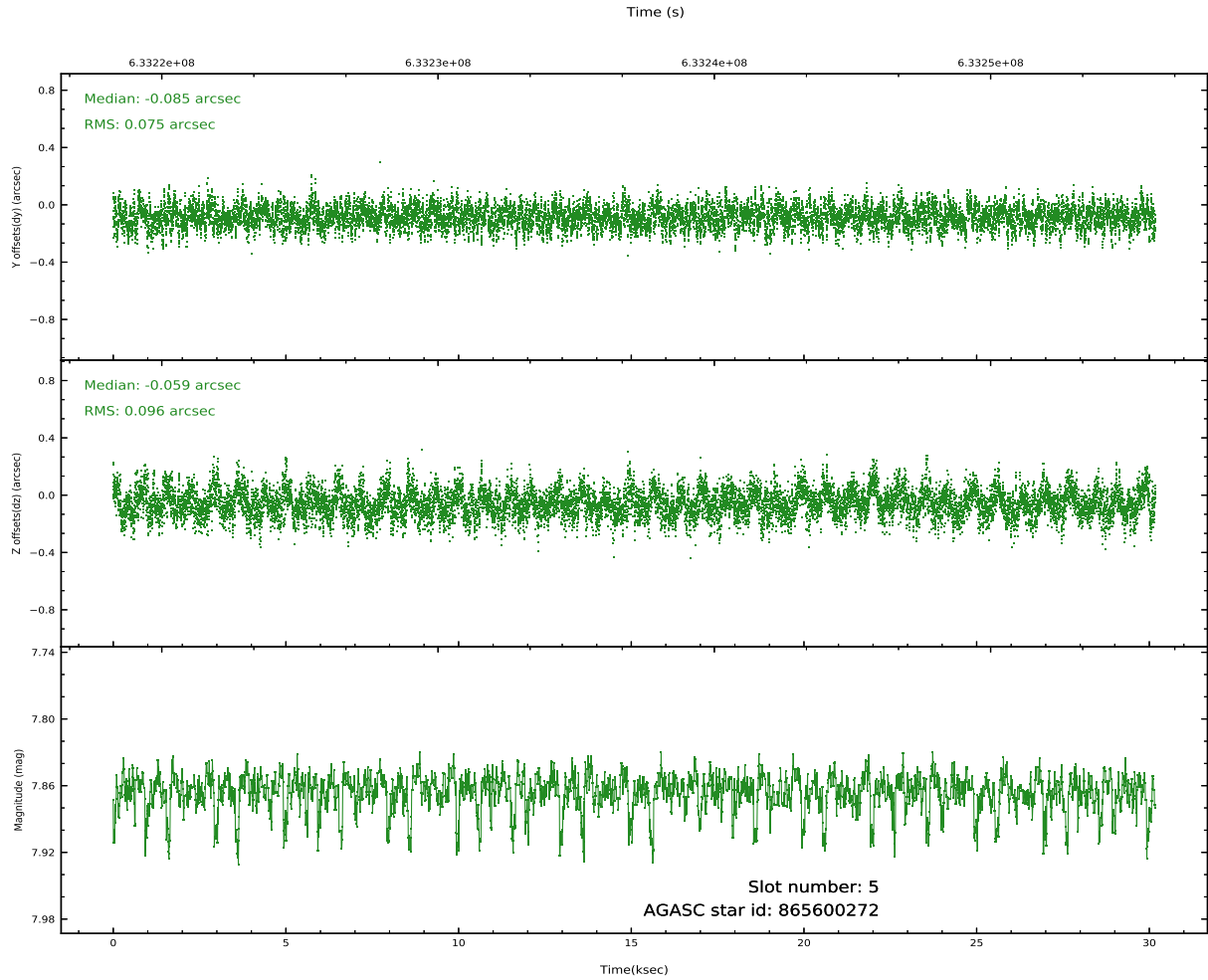
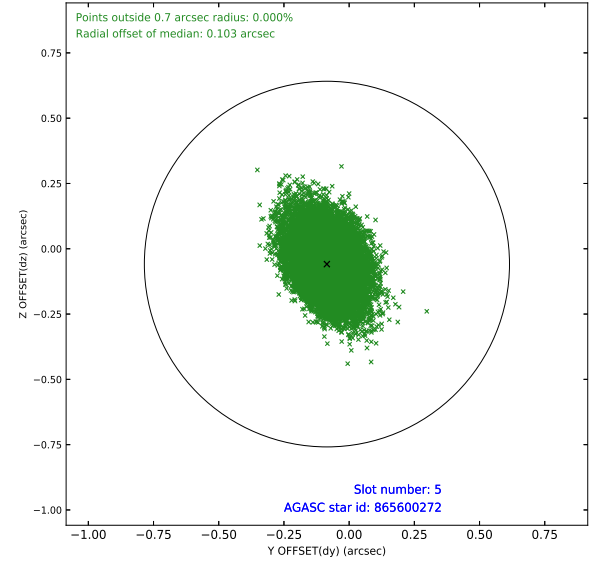
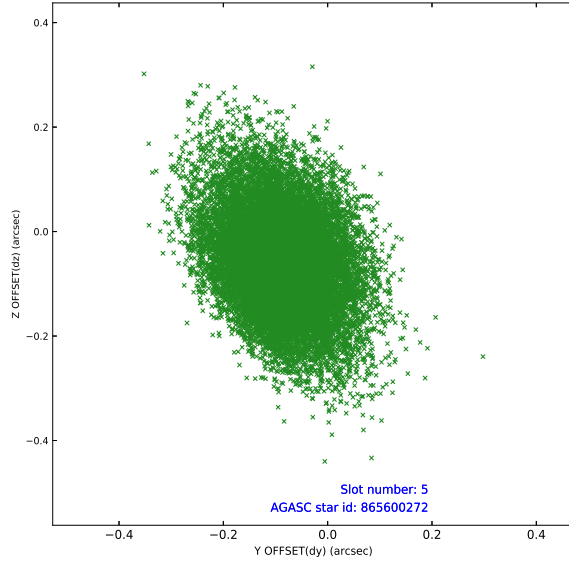
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-4	7.23	7360	1.000	0.233	0.017	0.008	0.014	0.000000	0.000000	2142.12	167
1	FID		ACIS-S-5	7.23	7360	1.000	-0.223	0.024	0.008	0.014	0.000000	0.000000	-1824.44	161
2	FID		ACIS-S-6	7.38	7361	1.000	-0.038	-0.027	0.009	0.015	0.000000	0.000000	390.13	804
3	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
4	GUIDE	used	865600232	8.81	14710	1.000	0.019	-0.051	0.137	0.230	149.878721	-23.122095	-443.98	-899
5	GUIDE	used	865600272	7.86	14717	1.000	-0.085	-0.059	0.128	0.212	150.295054	-23.146519	706.68	-1662
6	GUIDE	used	865607576	9.21	14702	1.000	0.108	0.266	0.173	0.298	149.866929	-23.603642	-1339.60	-2383
7	GUIDE	used	865606504	9.54	14547	1.000	-0.037	-0.161	0.182	0.297	149.405617	-22.913209	-1432.19	529

2.4 Star Slots

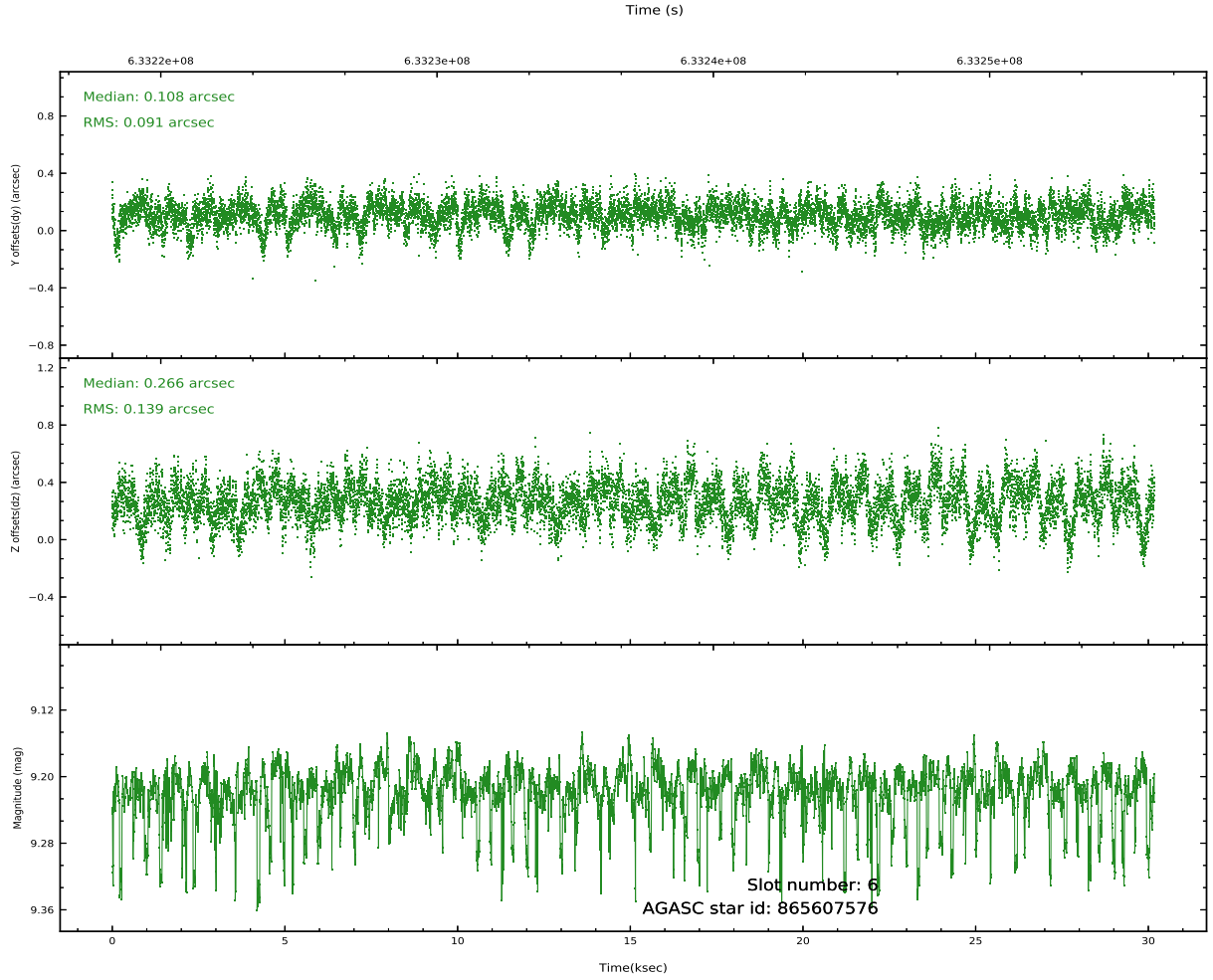
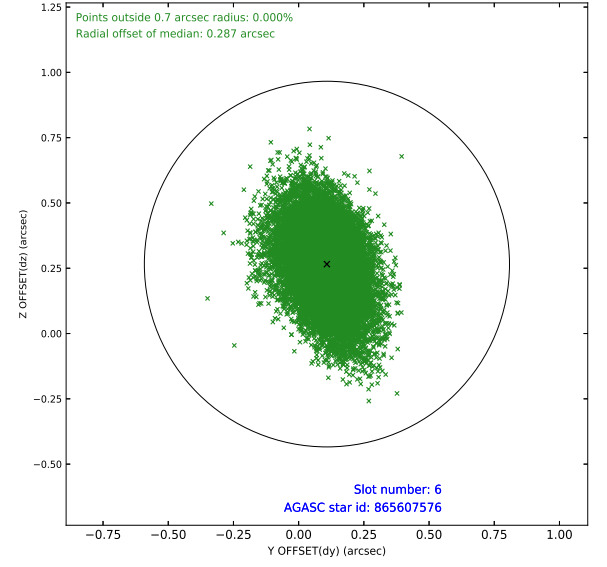
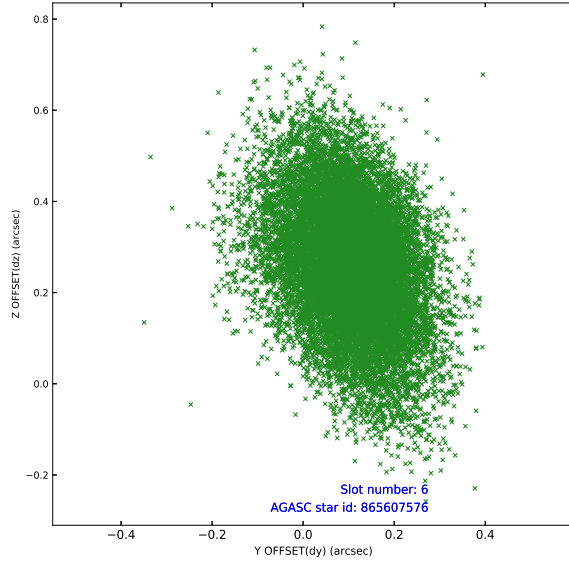
2.4.1 Slot 4



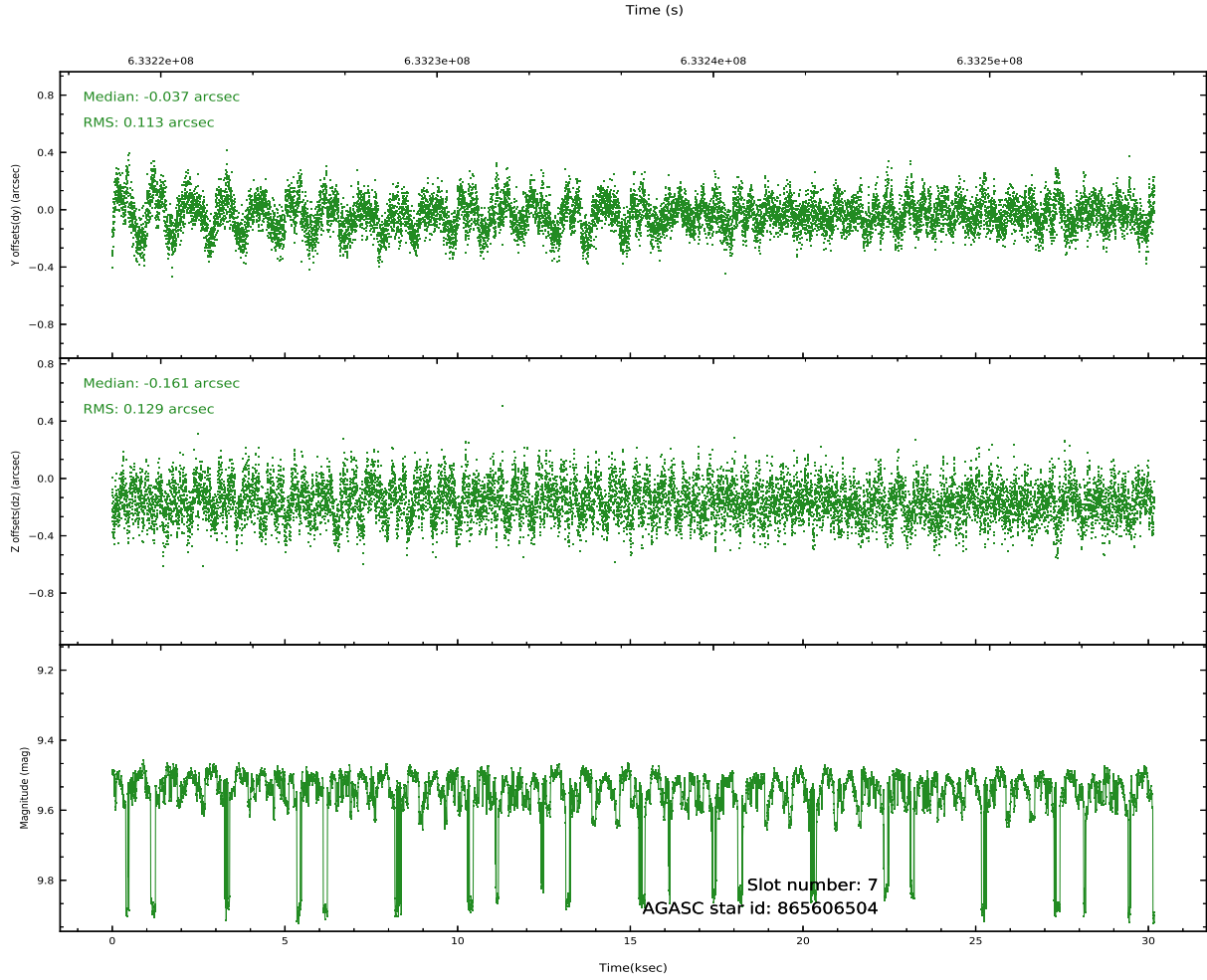
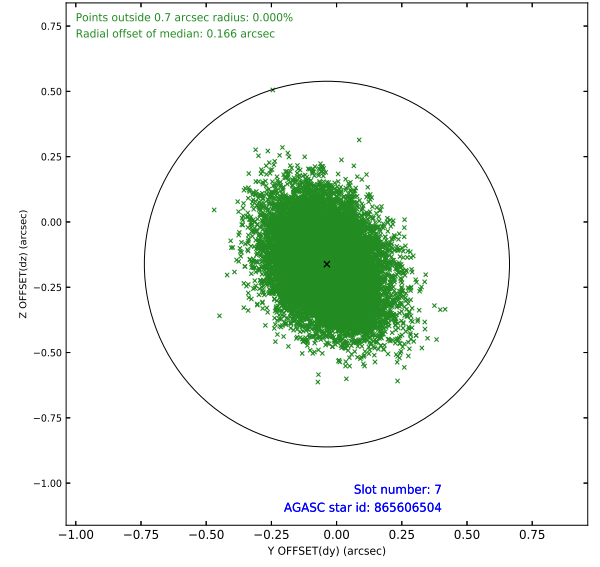
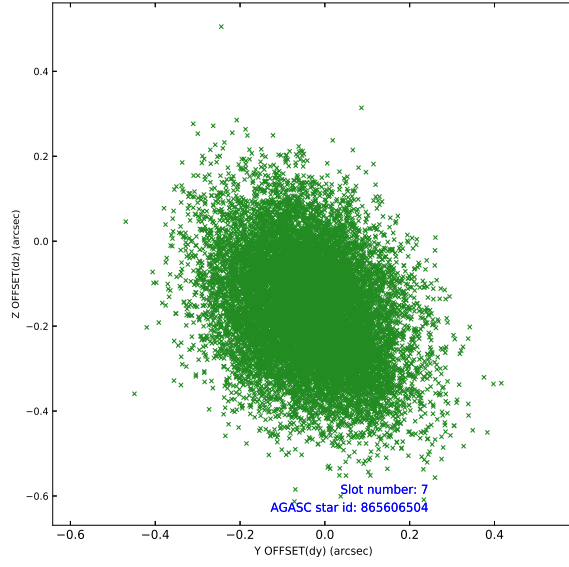
2.4.2 Slot 5



2.4.3 Slot 6

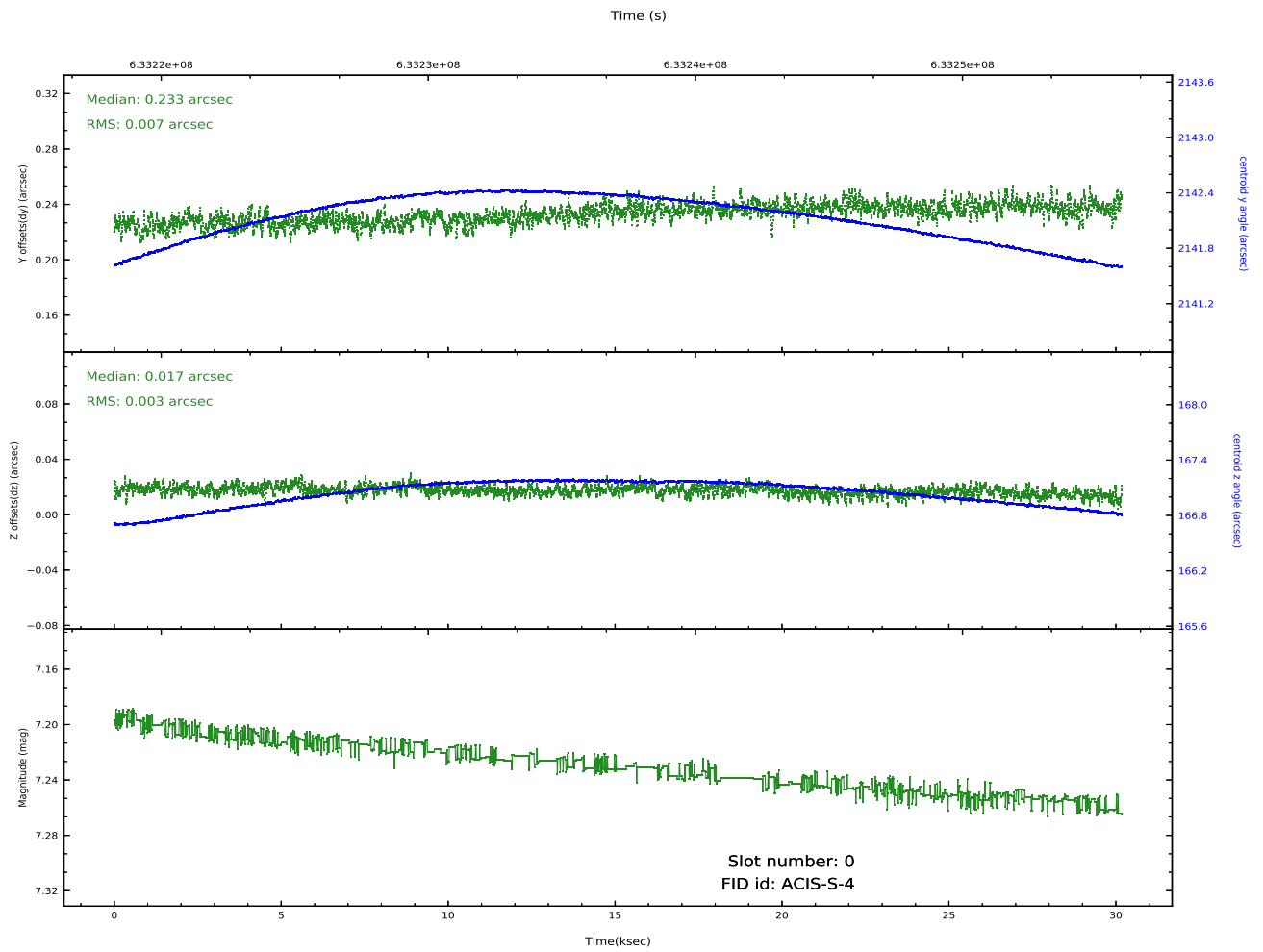
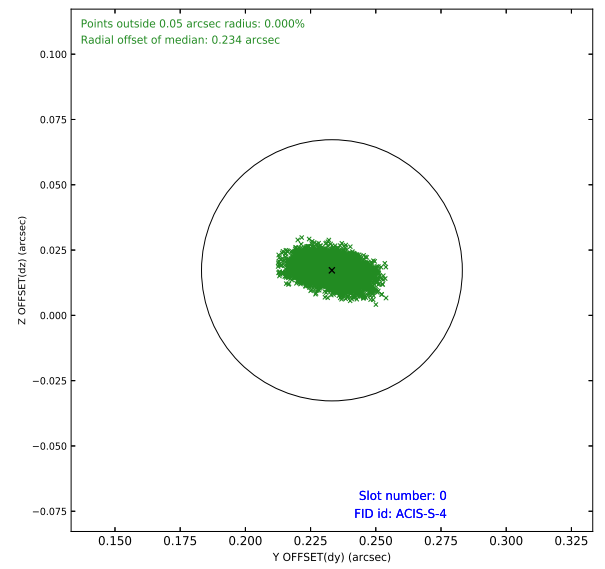
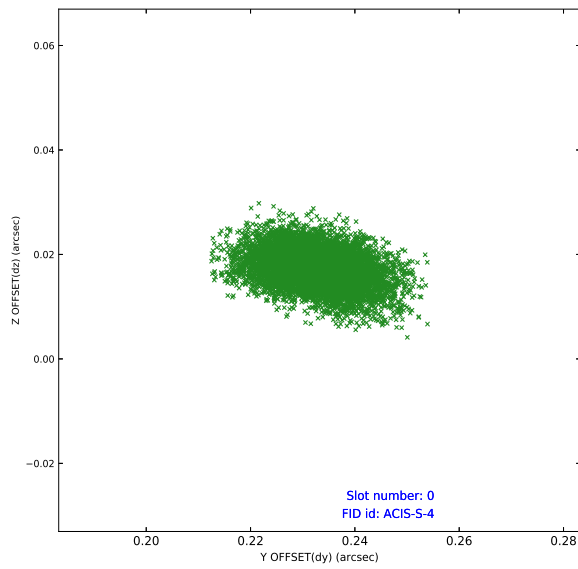


2.4.4 Slot 7

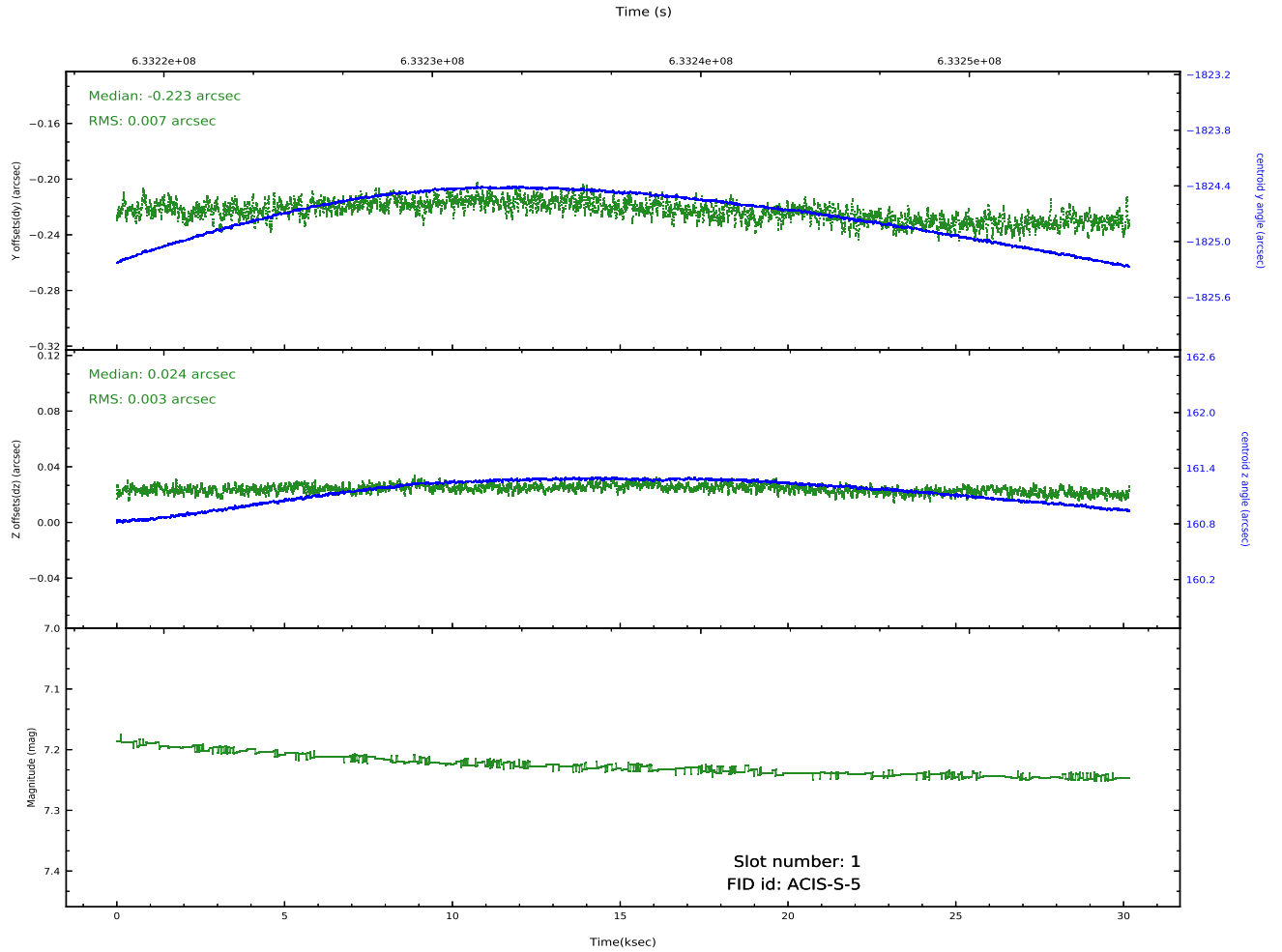
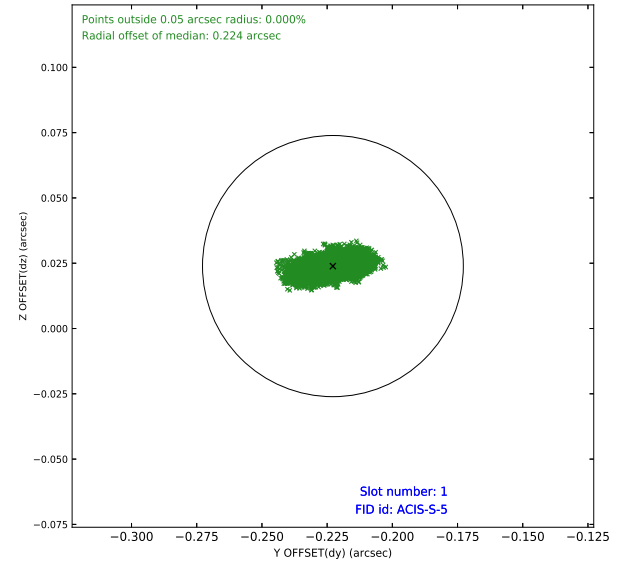
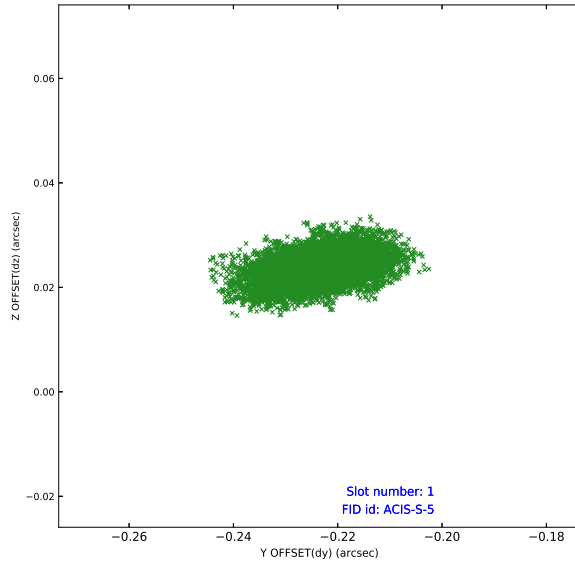


2.5 FID Slots

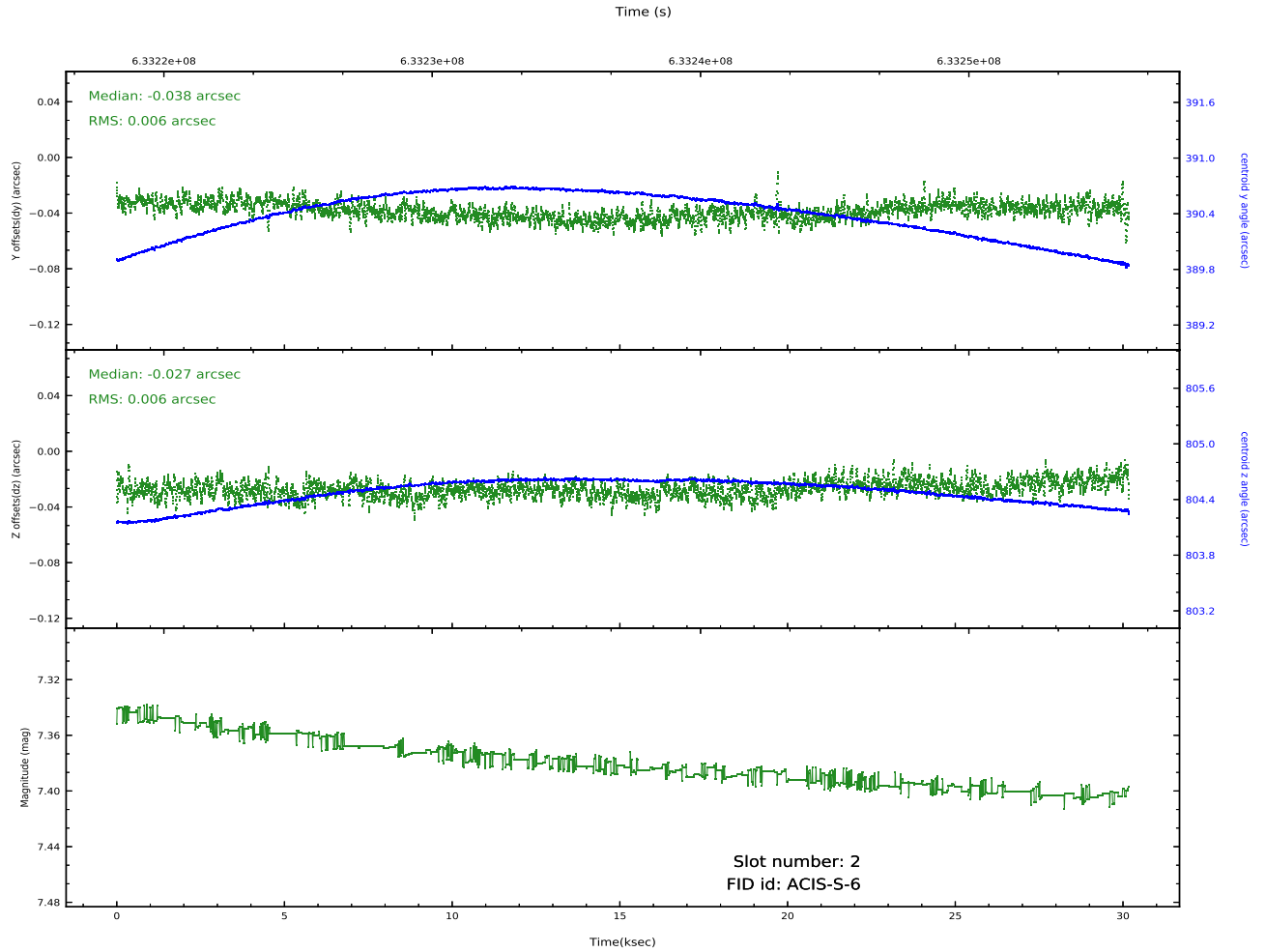
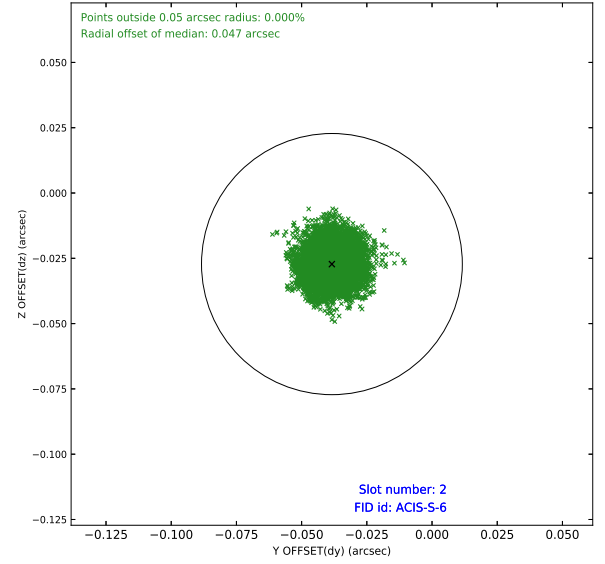
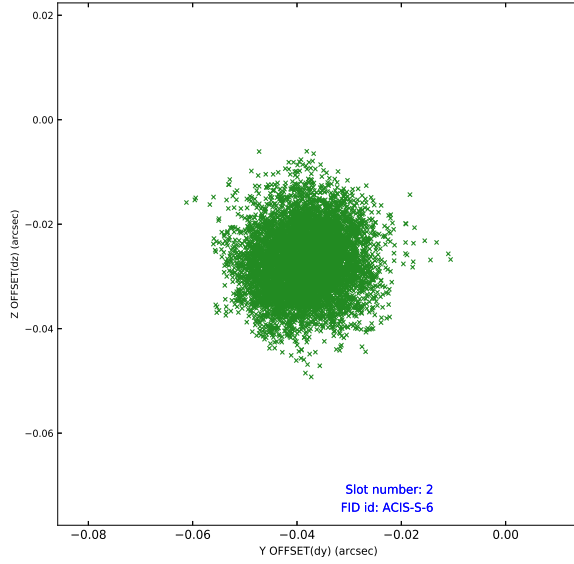
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.095100844145

A.2 Comments

Joint proposal with HST.

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Two optional chips were dropped.

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The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.