

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4015 - L2 Version 4
Chandra X-Ray Center

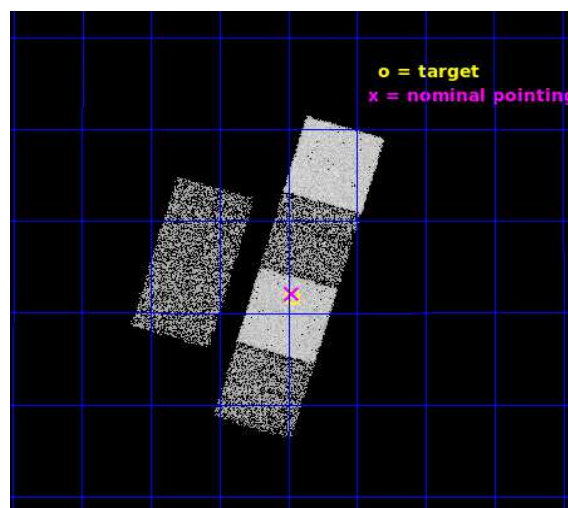
L2 Processing Date : Sep 23 2020

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

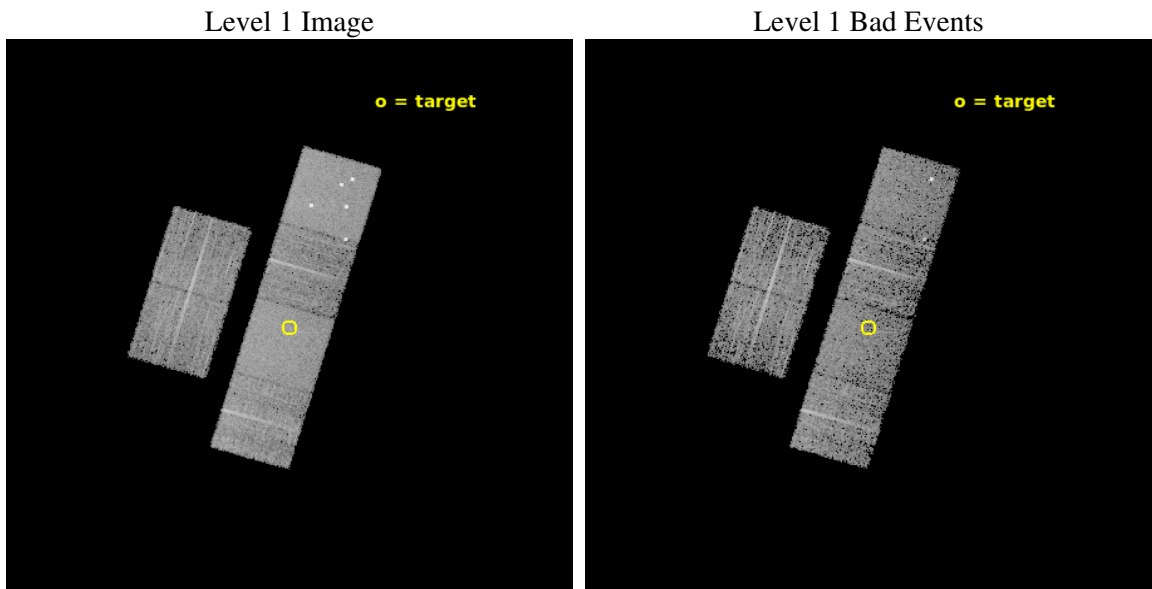
seq_num	700694	Sequence number
obs_id	4015	Observation id
title	A CHANDRA SURVEY OF INFRARED-BRIGHT LINER GALAXIES	Proposal title
observer	Shobita Satyapal	Principal investigator
object	NGC4350	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	185.99125	Observer's specified target RA [deg]
dec_targ	16.693611	Observer's specified target Dec [deg]
ra_nom	185.99318979001	Nominal RA [deg]
dec_nom	16.701849452641	Nominal Dec [deg]
roll_nom	106.58791345921	Nominal Roll [deg]
revision	4	Processing version of data
ontime	4959.2032959461	Sum of GTIs [s]
livetime	4896.4068777391	Livetime [s]
ontime2	4956.0033357441	Sum of GTIs [s]
ontime3	4959.0801759362	Sum of GTIs [s]
ontime5	4959.1622559428	Sum of GTIs [s]
ontime6	4959.1212159395	Sum of GTIs [s]
ontime7	4959.2032959461	Sum of GTIs [s]
ontime8	4959.0391359627	Sum of GTIs [s]
l2events	52883	Number of level 2 events



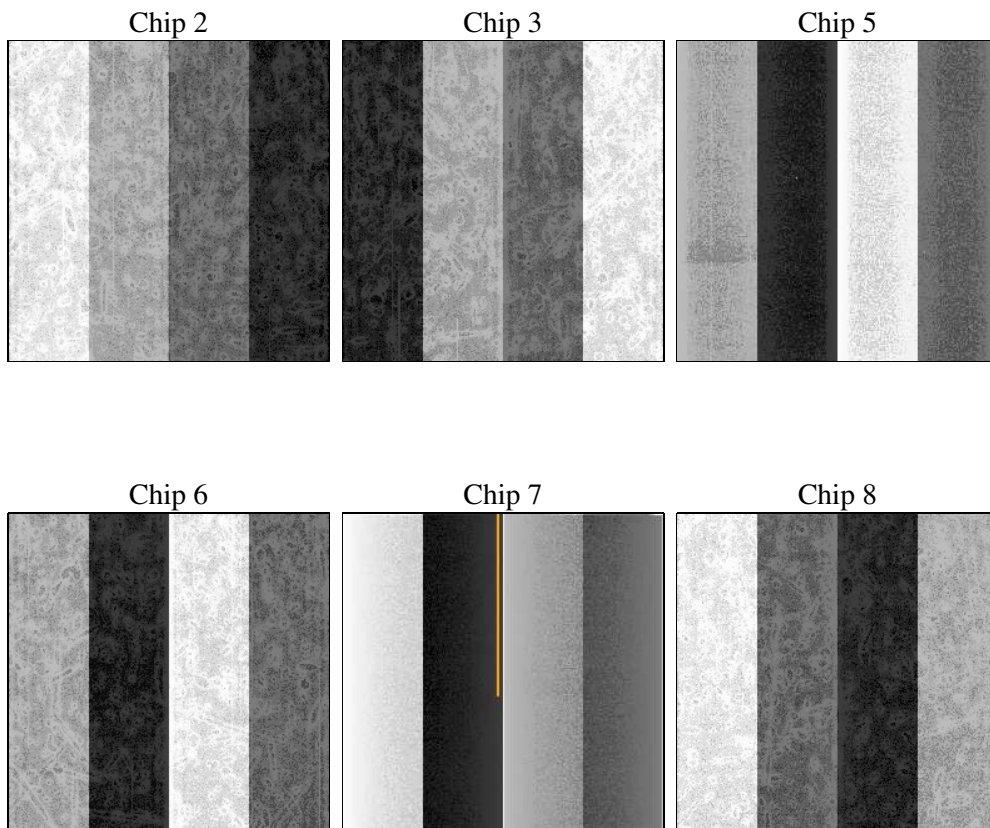
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	4959.2032959461	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	4956.0033357441	Sum of GTIs [s]
date	2020-09-24T01:39:36	Date and time of file creation	ontime3	4959.0801759362	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	4959.1622559428	Sum of GTIs [s]
			ontime6	4959.1212159395	Sum of GTIs [s]
			ontime7	4959.2032959461	Sum of GTIs [s]
			ontime8	4959.0391359627	Sum of GTIs [s]
			l1events	236036	Number of level 1 events

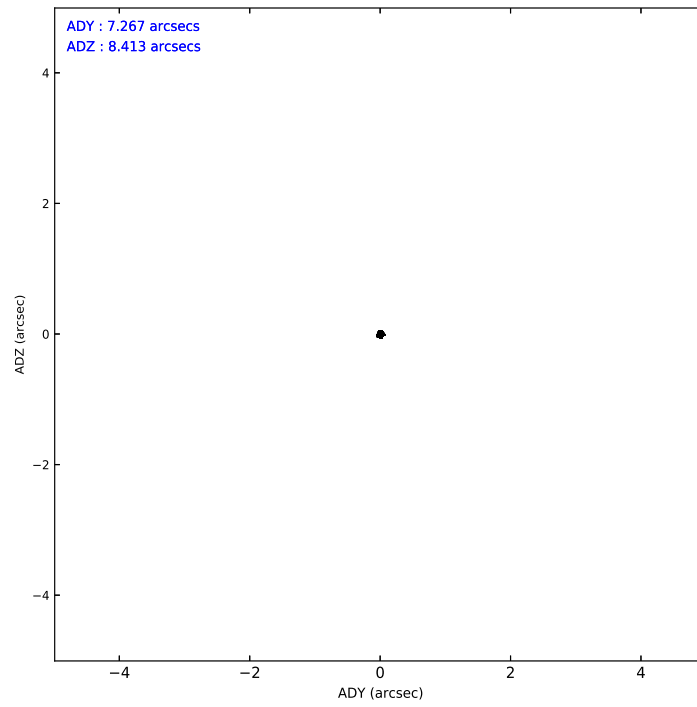
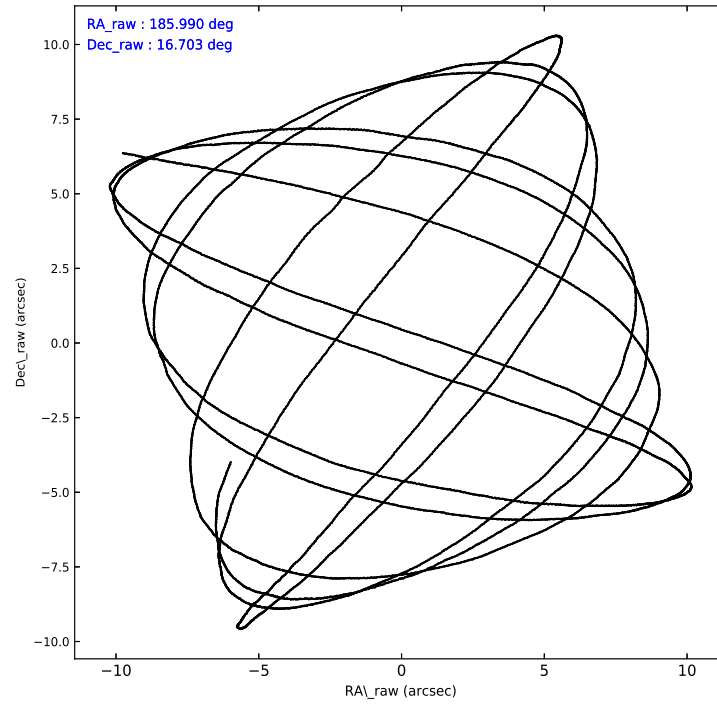
2.1.4 Events

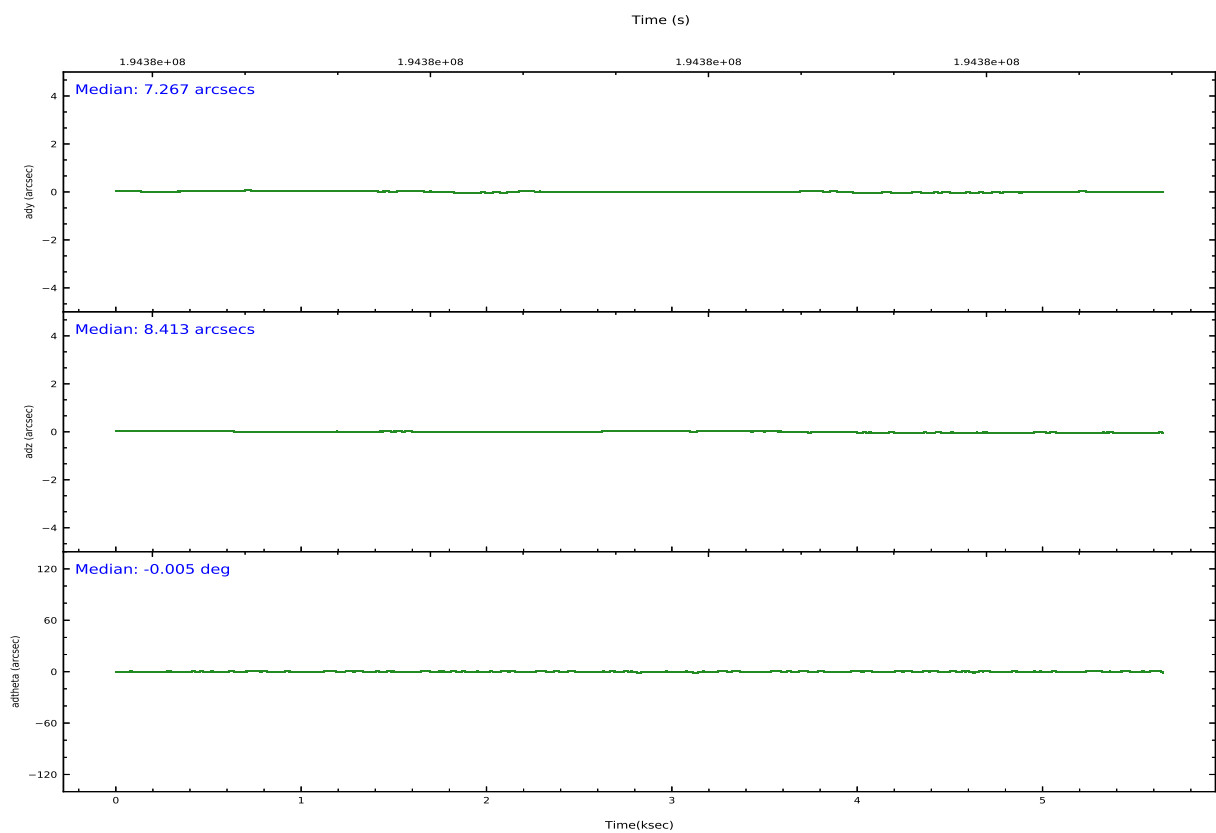
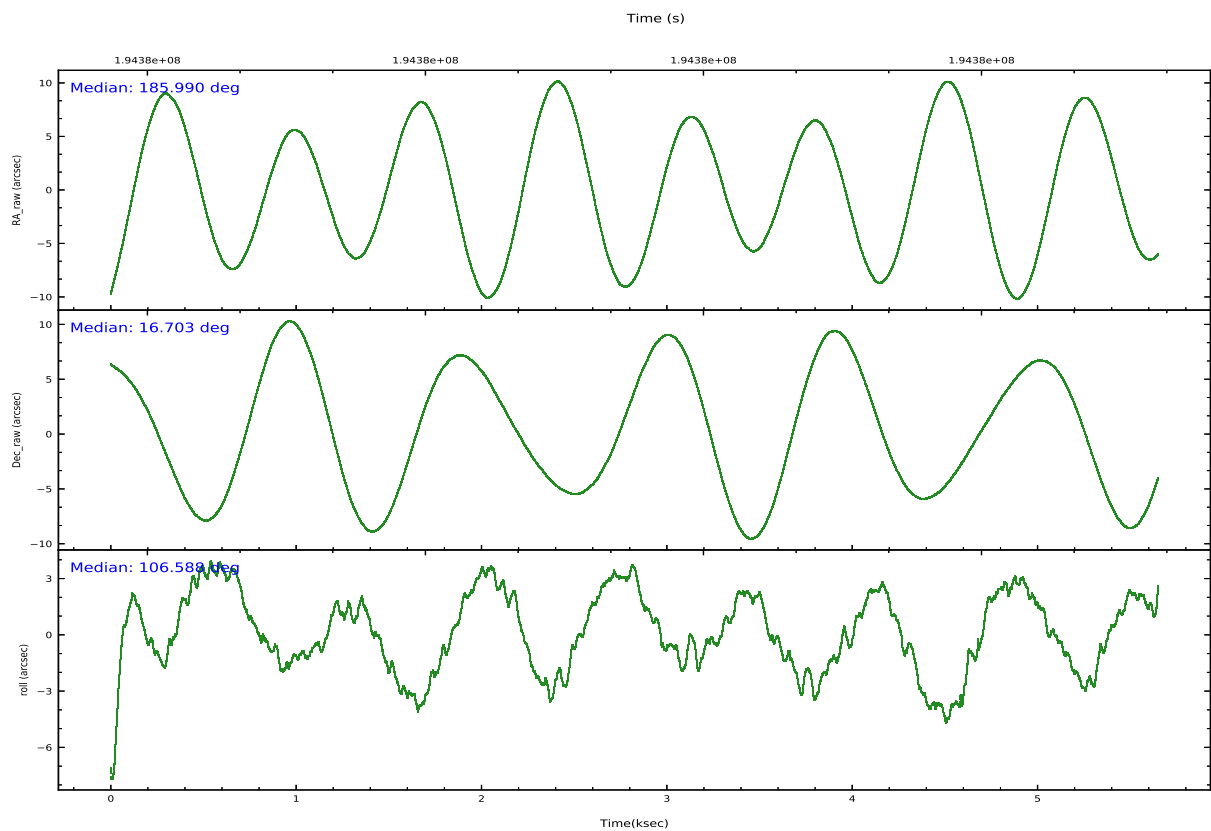
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	33012	31828	55053	31256	44695	40192	grade 0 events	1721	1583	6054	1579	1680	2748
rejected events	29143	28136	28272	27199	26053	31579		5%	4%	10%	5%	3%	6%
rejected %	88%	88%	51%	87%	58%	78%	grade 1 events	22	20	236	15	40	27
								0%	0%	0%	0%	0%	0%
							grade 2 events	800	718	6909	841	3702	1937
								2%	2%	12%	2%	8%	4%
							grade 3 events	353	395	953	388	1698	844
								1%	1%	1%	1%	3%	2%
							grade 4 events	362	364	910	431	1621	840
								1%	1%	1%	1%	3%	2%
							grade 5 events	1277	1432	4163	1479	4143	1965
								3%	4%	7%	4%	9%	4%
							grade 6 events	637	639	11981	826	9970	2248
								1%	2%	21%	2%	22%	5%
							grade 7 events	27840	26677	23847	25697	21841	29583
								84%	83%	43%	82%	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	186.011027	185.99318979001	Subarray requested	NONE	NONE
[deg] Pointing Dec	16.684776	16.701849452641	Alternating exposures requested	N	N
[deg] Pointing Roll	106.424599	106.58791345921	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	194377454.184000	194376257.5195			
Observation start date	2004-02-28T17:43:10	2004-02-28T17:24:17			
[s] Observation end time (MET)	194382454.184000	194383534.50732			
Observation end date	2004-02-28T19:06:30	2004-02-28T19:25:34			
Read mode	TIMED	TIMED			

2.3 Aspect



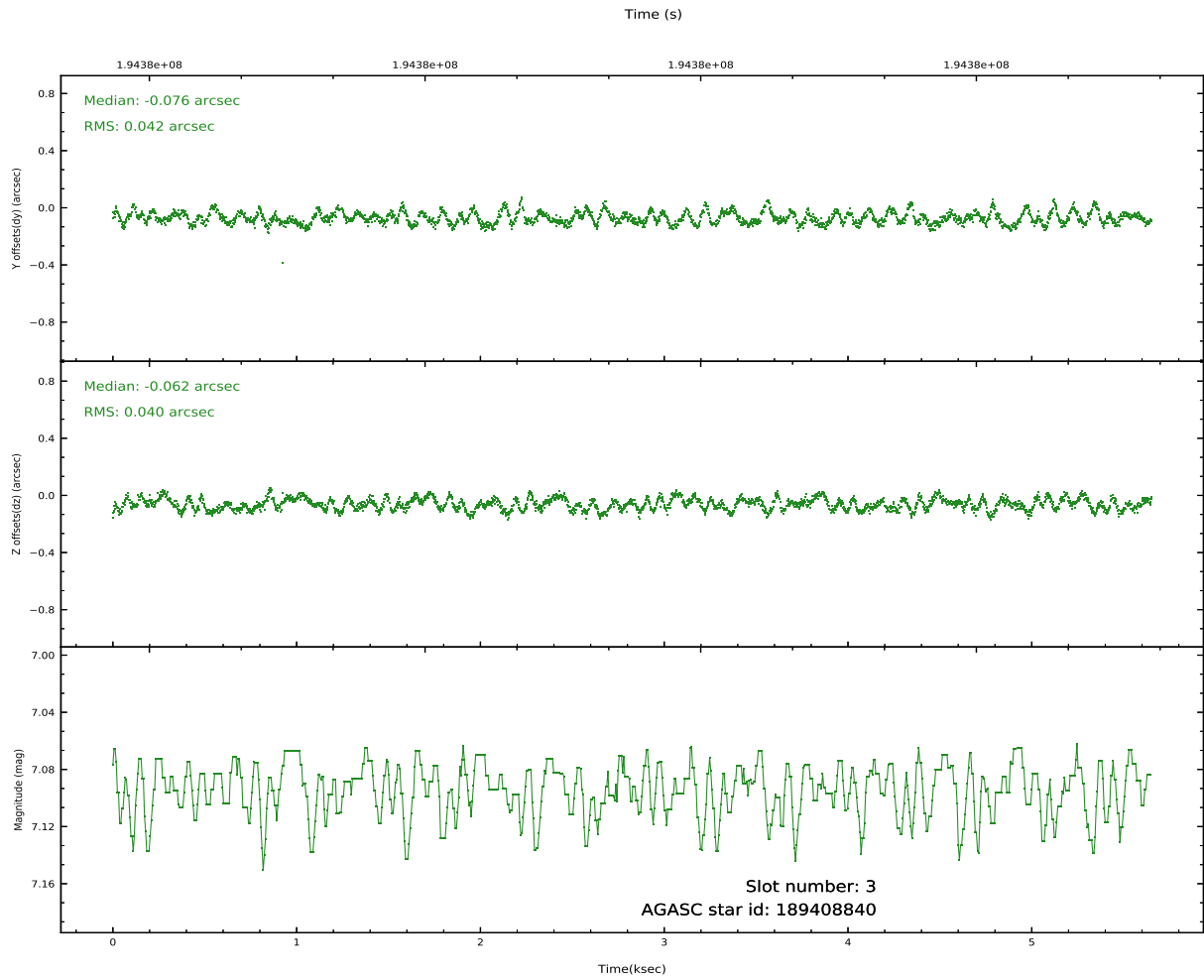
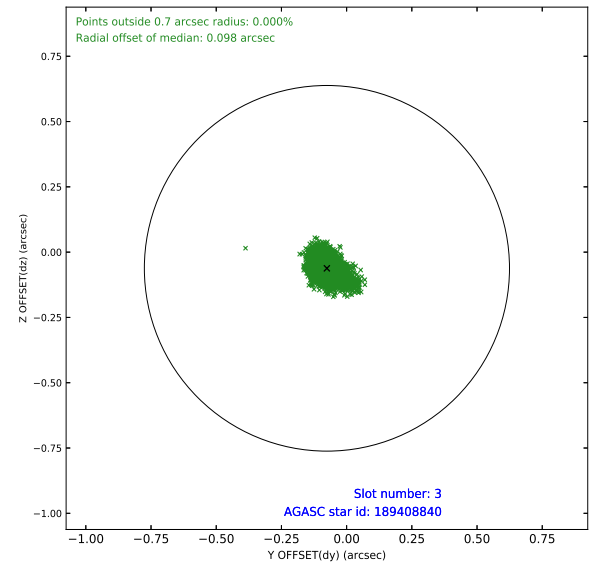
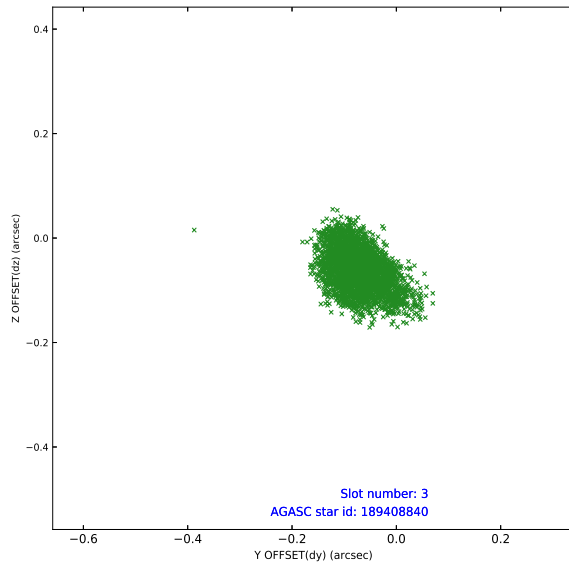


Slot Statistics

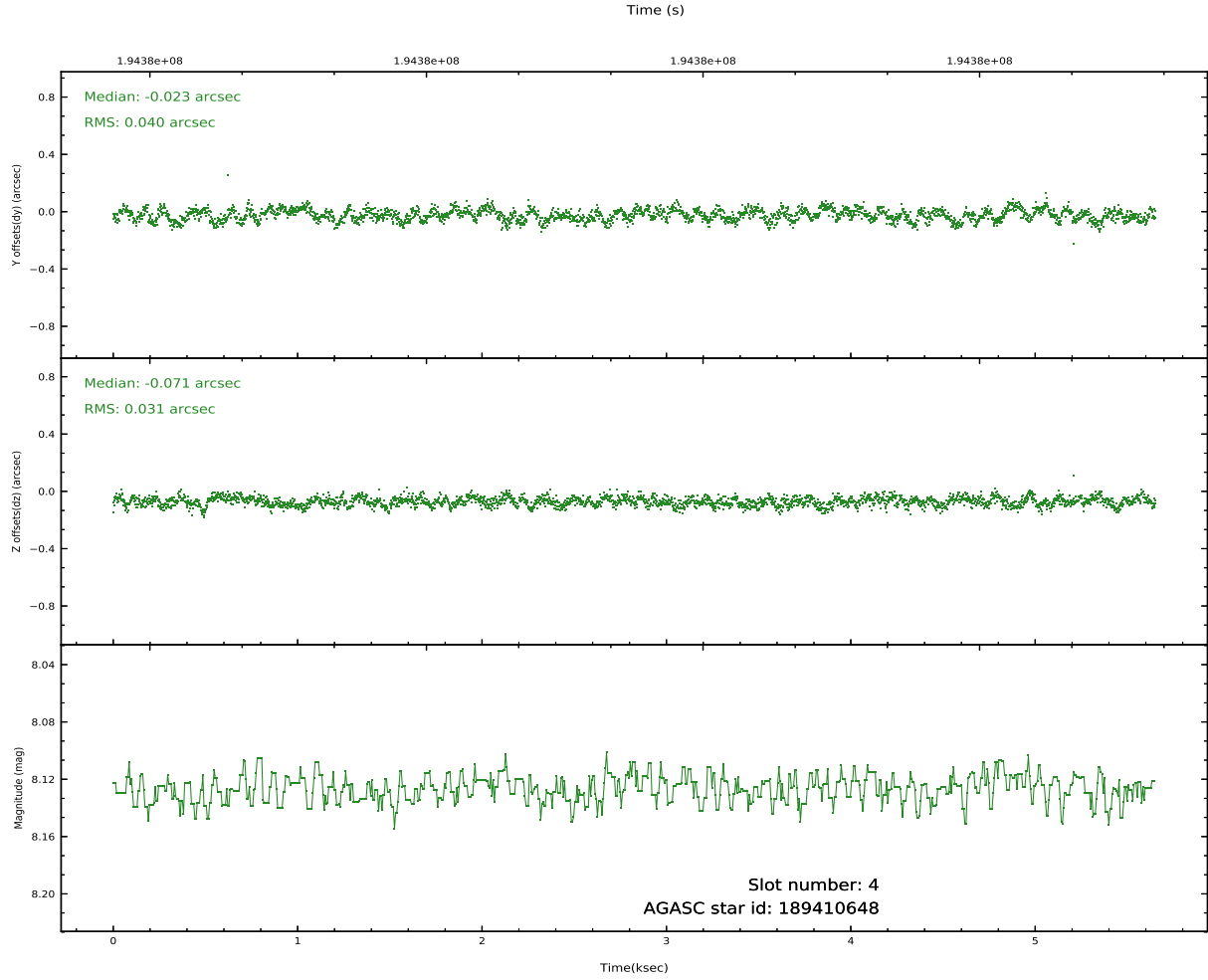
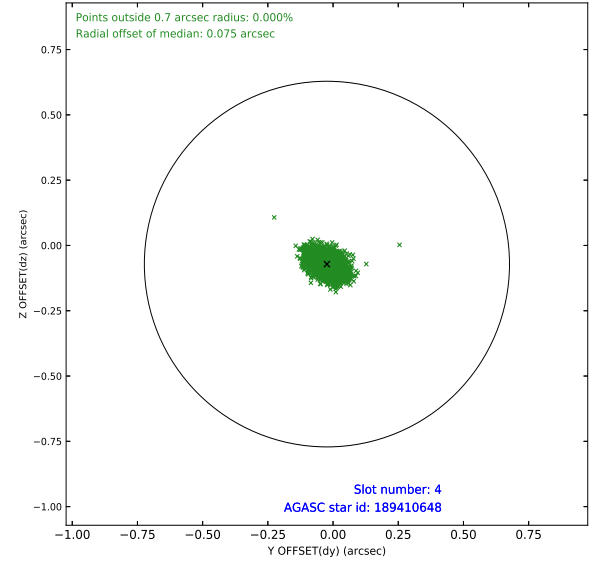
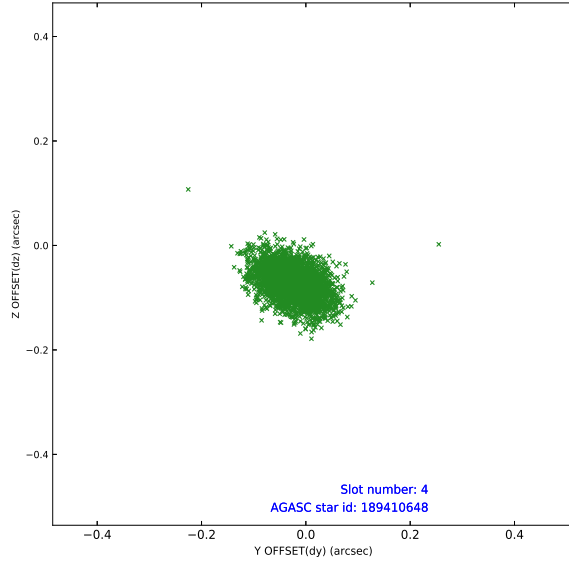
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	1378	1.000	-0.046	-0.075	0.006	0.011	0.000000	0.000000	-760.05	-1729
1	FID		ACIS-S-4	7.21	1379	1.000	0.118	0.043	0.006	0.010	0.000000	0.000000	2152.89	177
2	FID		ACIS-S-5	7.23	1379	1.000	-0.103	0.042	0.006	0.011	0.000000	0.000000	-1811.61	172
3	GUIDE	used	189408840	7.09	2758	1.000	-0.076	-0.062	0.062	0.099	185.508645	16.744732	698.96	1599
4	GUIDE	used	189410648	8.13	2758	1.000	-0.023	-0.071	0.054	0.087	185.747145	16.243433	-1265.17	1324
5	GUIDE	used	189411792	7.91	2758	1.000	0.018	0.088	0.047	0.078	186.226855	16.194788	-1902.62	-216
6	GUIDE	used	189412368	9.07	2758	1.000	0.014	0.004	0.072	0.116	186.600821	16.354974	-1712.33	-1619
7	GUIDE	used	189413016	8.13	2756	1.000	0.065	0.042	0.048	0.076	186.364497	16.171398	-2117.47	-650

2.4 Star Slots

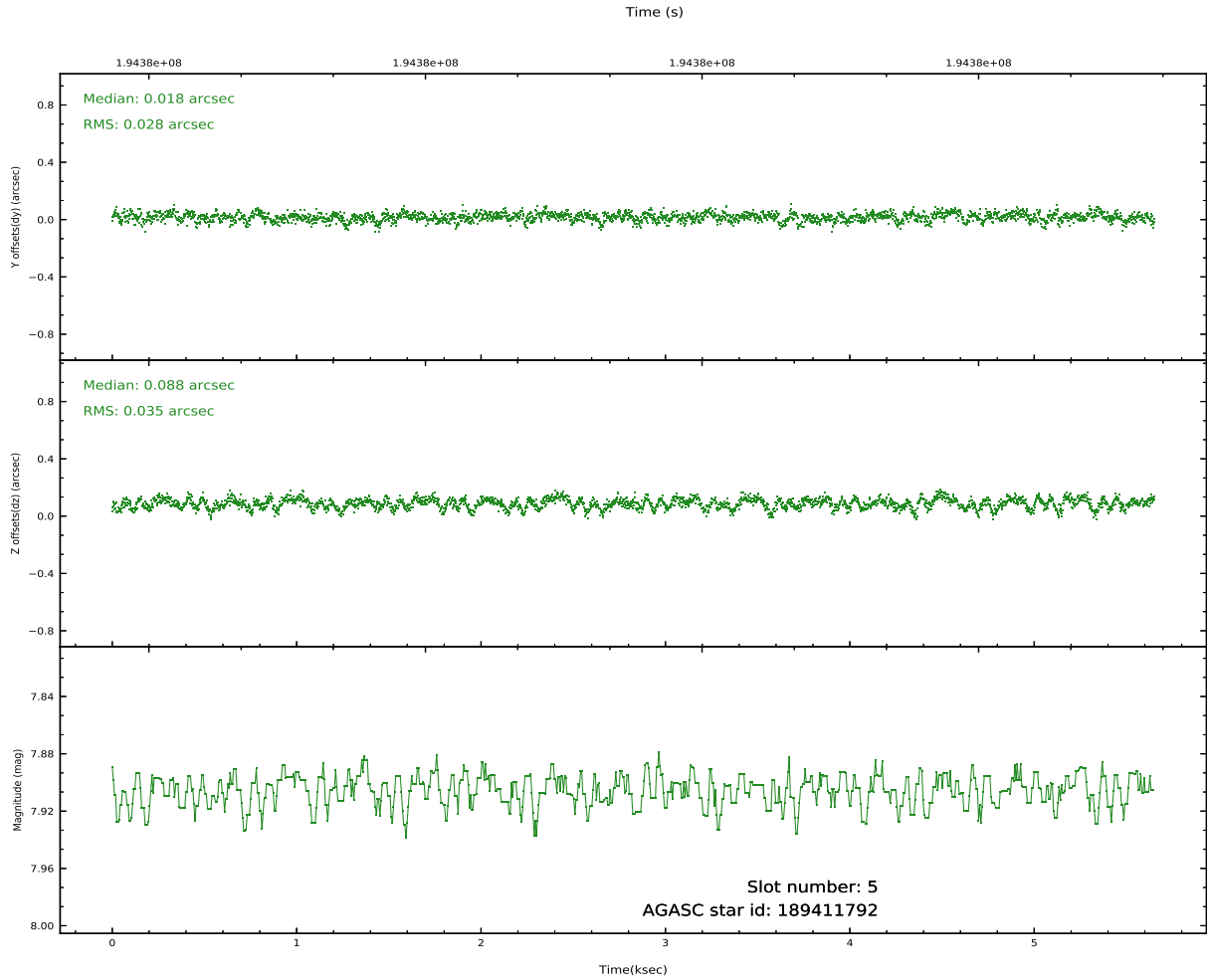
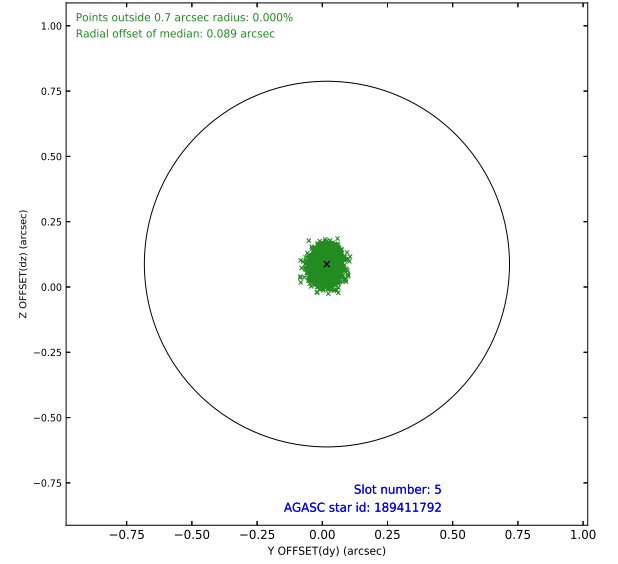
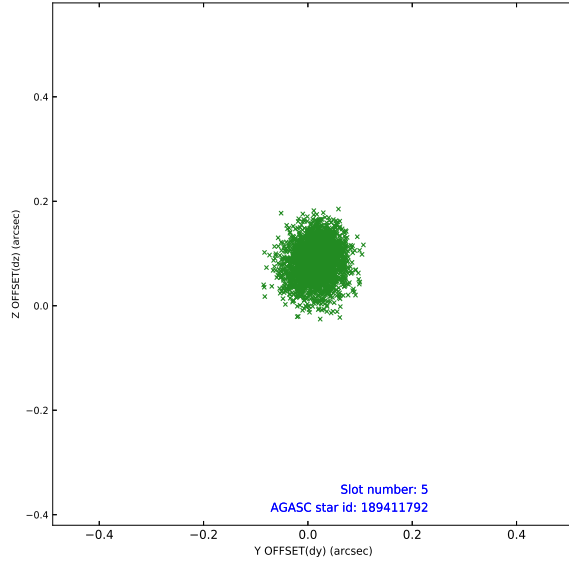
2.4.1 Slot 3



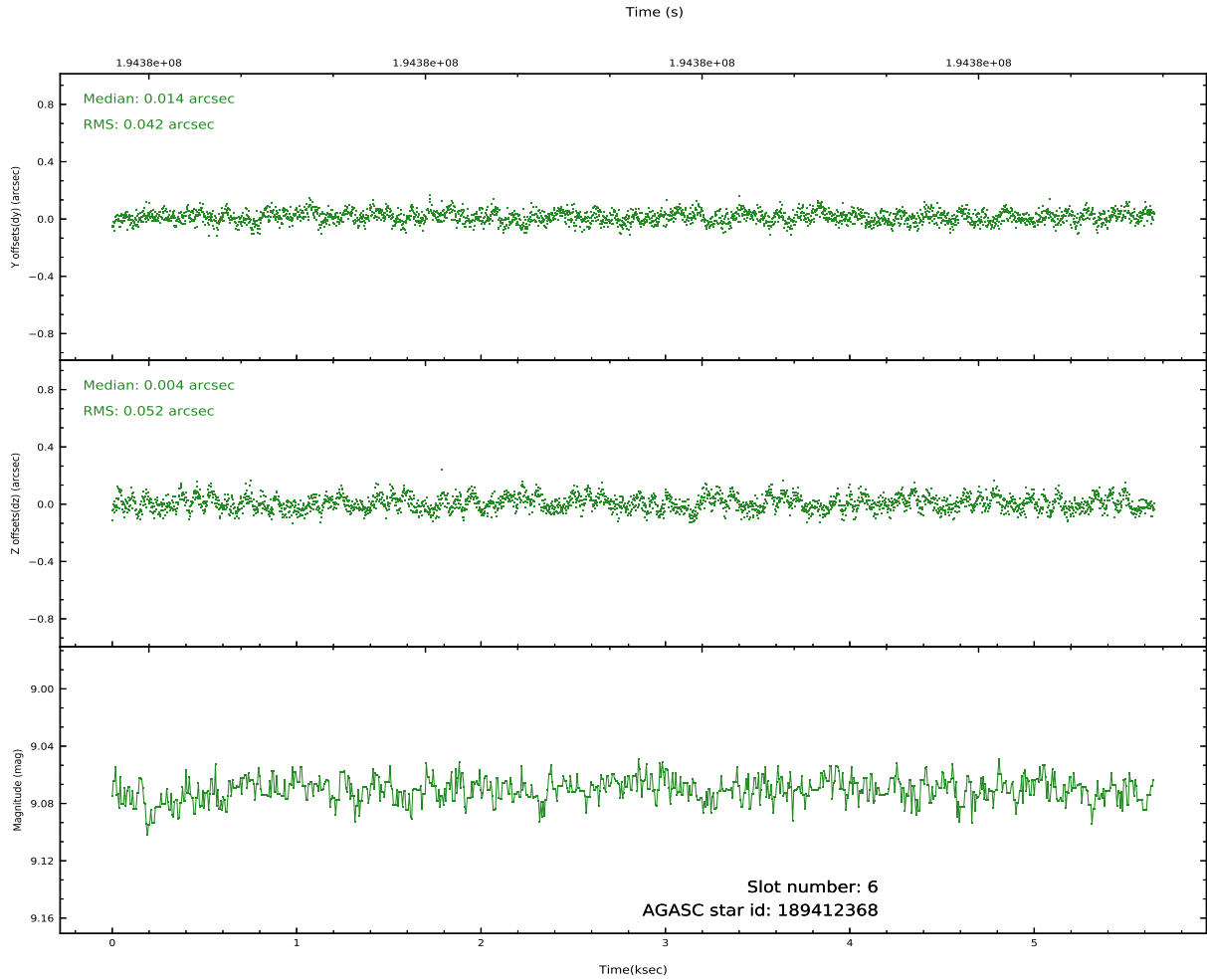
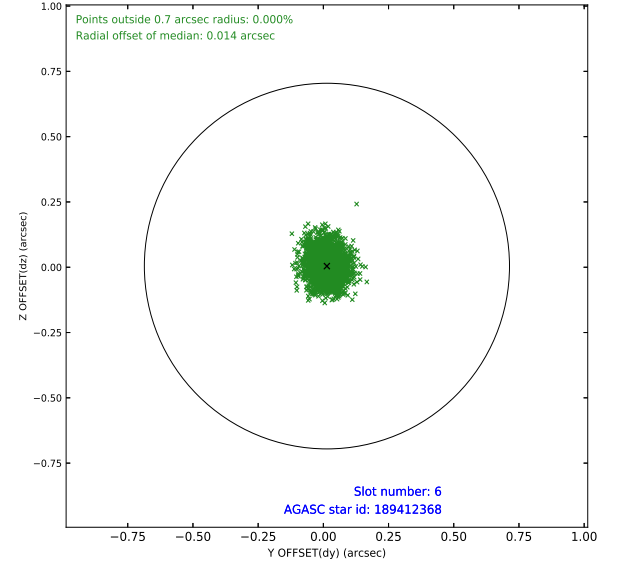
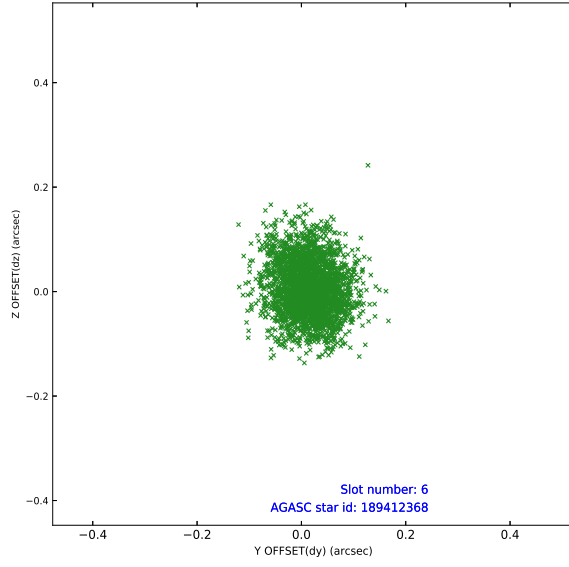
2.4.2 Slot 4



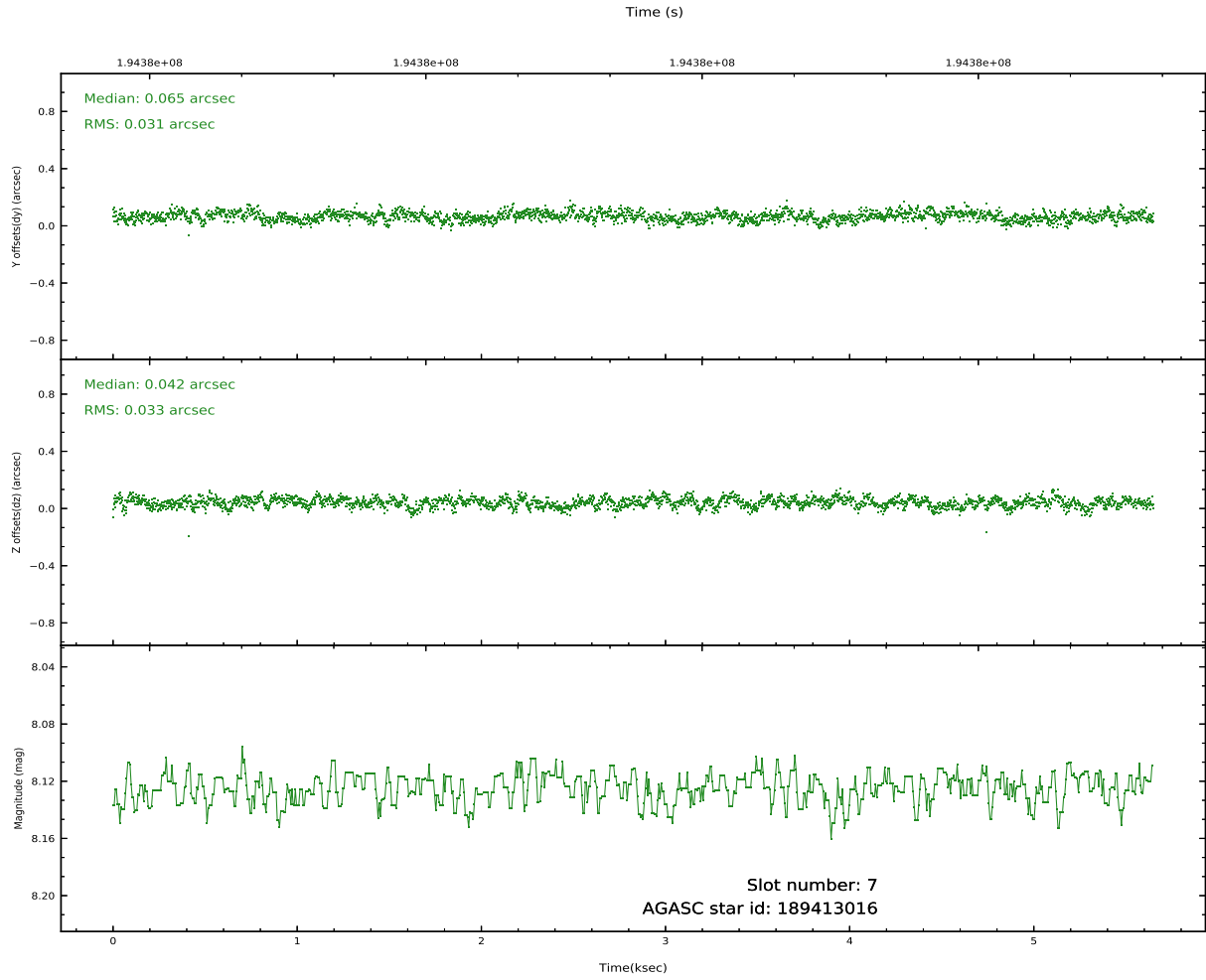
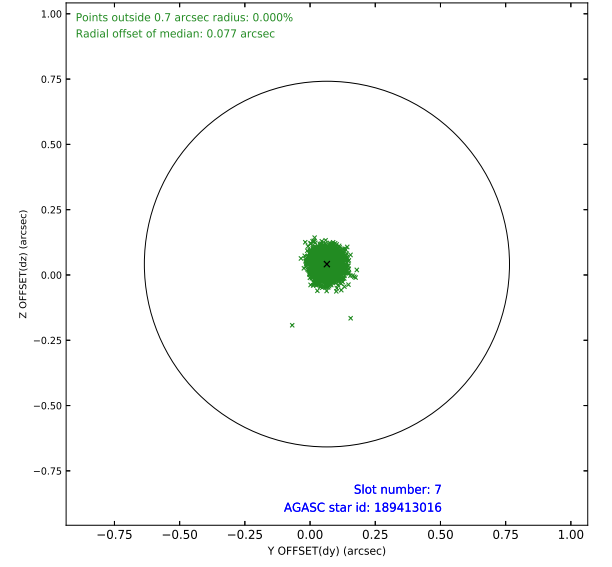
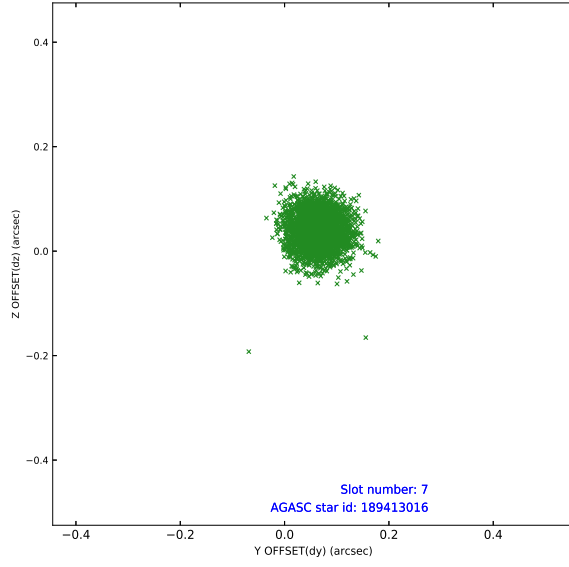
2.4.3 Slot 5



2.4.4 Slot 6

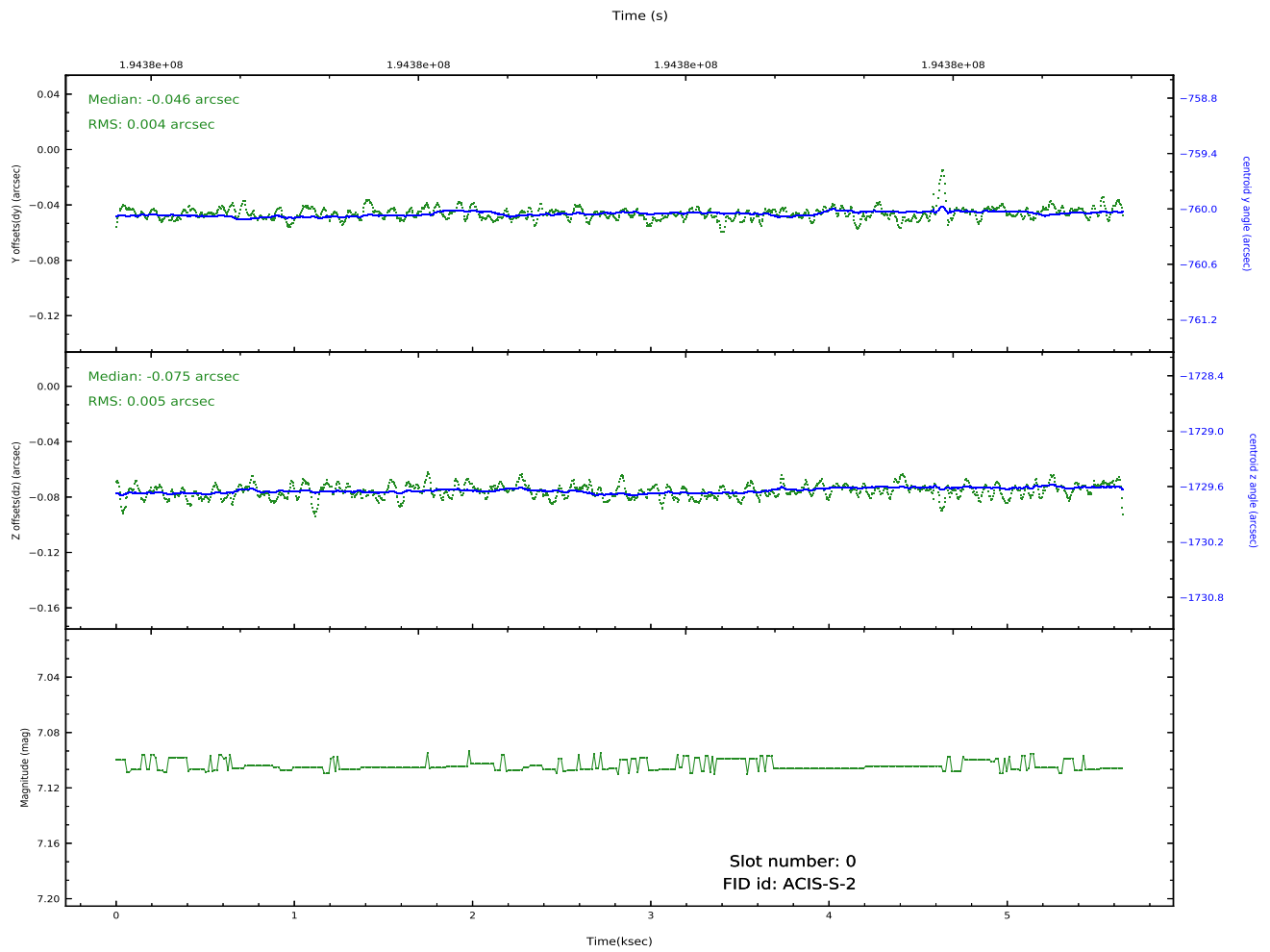
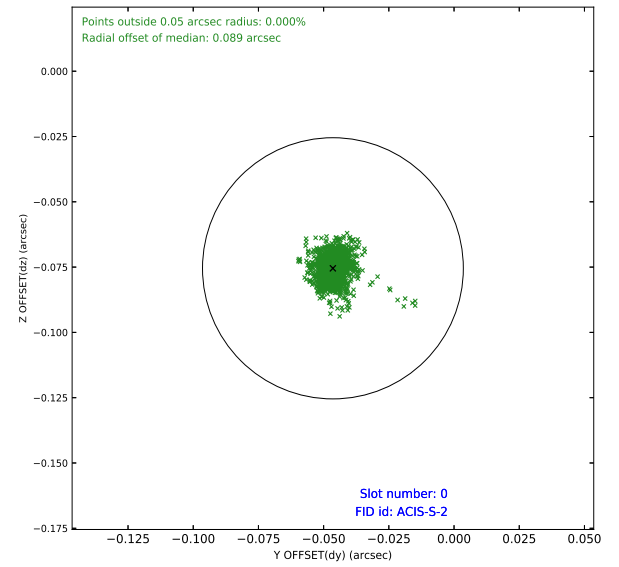
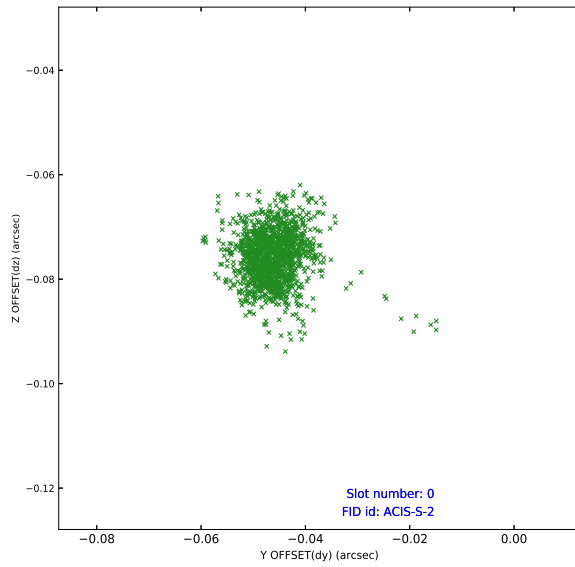


2.4.5 Slot 7

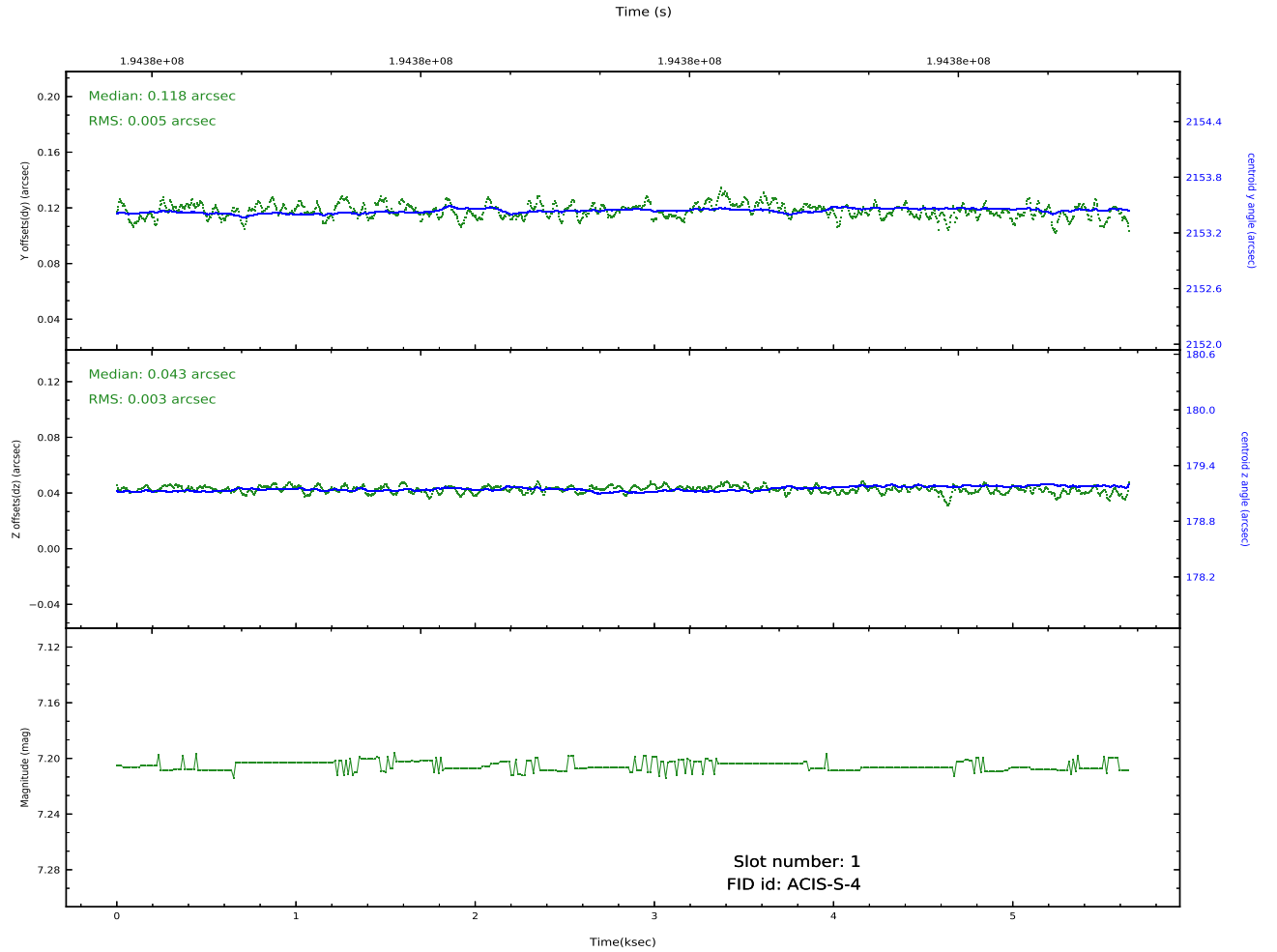
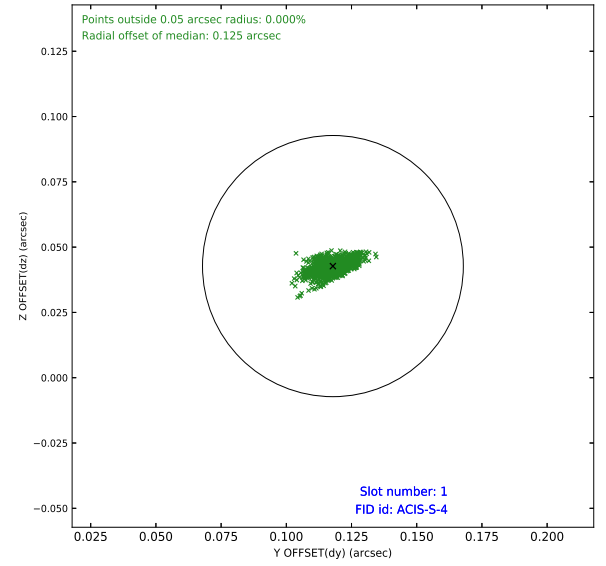
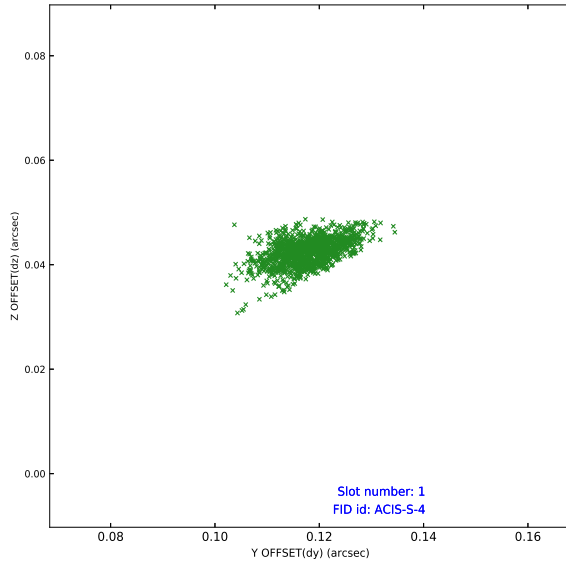


2.5 FID Slots

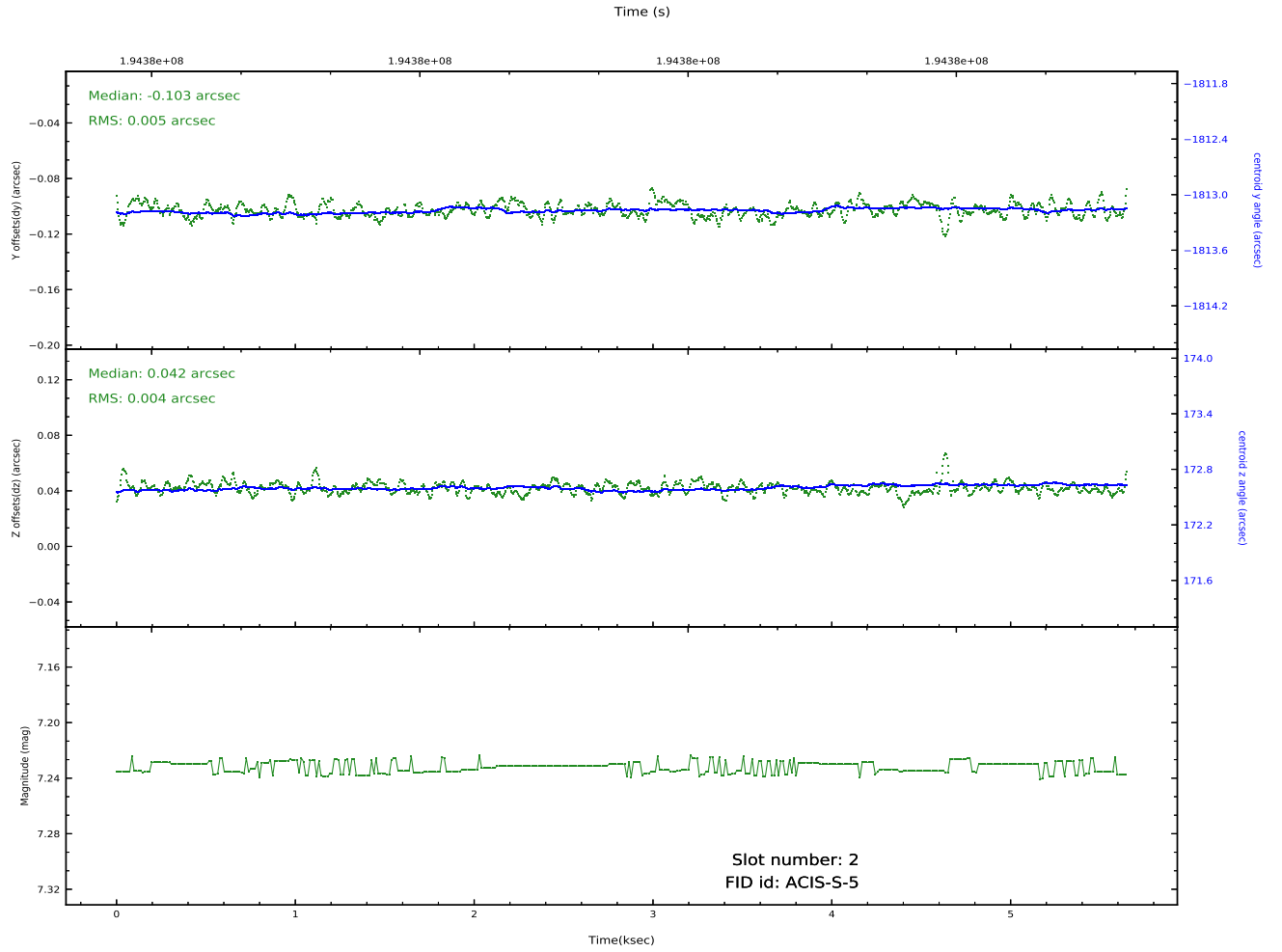
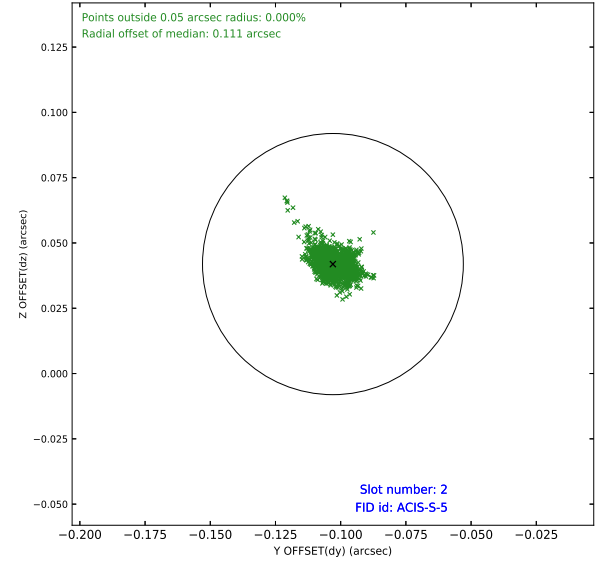
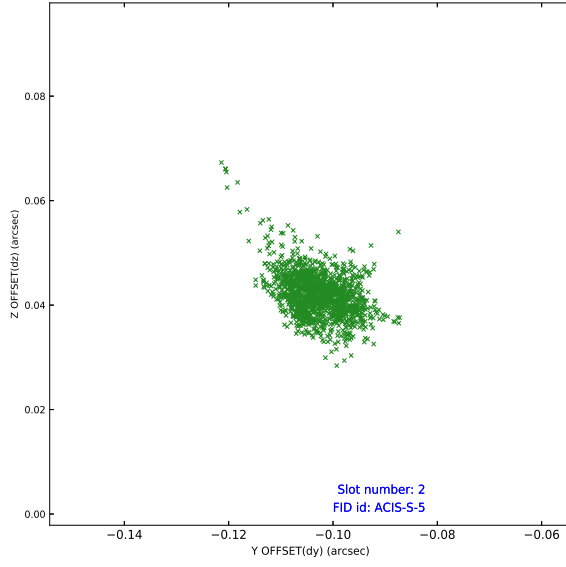
2.5.1 Slot 0



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)	2020.09.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.956

A.2 Comments