

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4590 - L2 Version 4
Chandra X-Ray Center

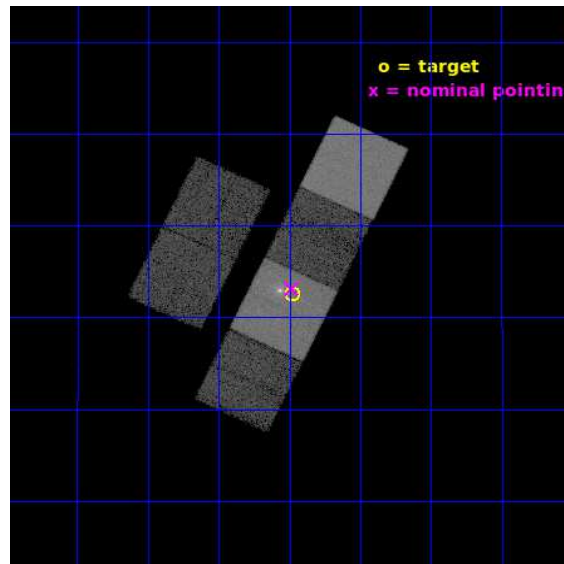
L2 Processing Date : Sep 25 2020

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1 Front

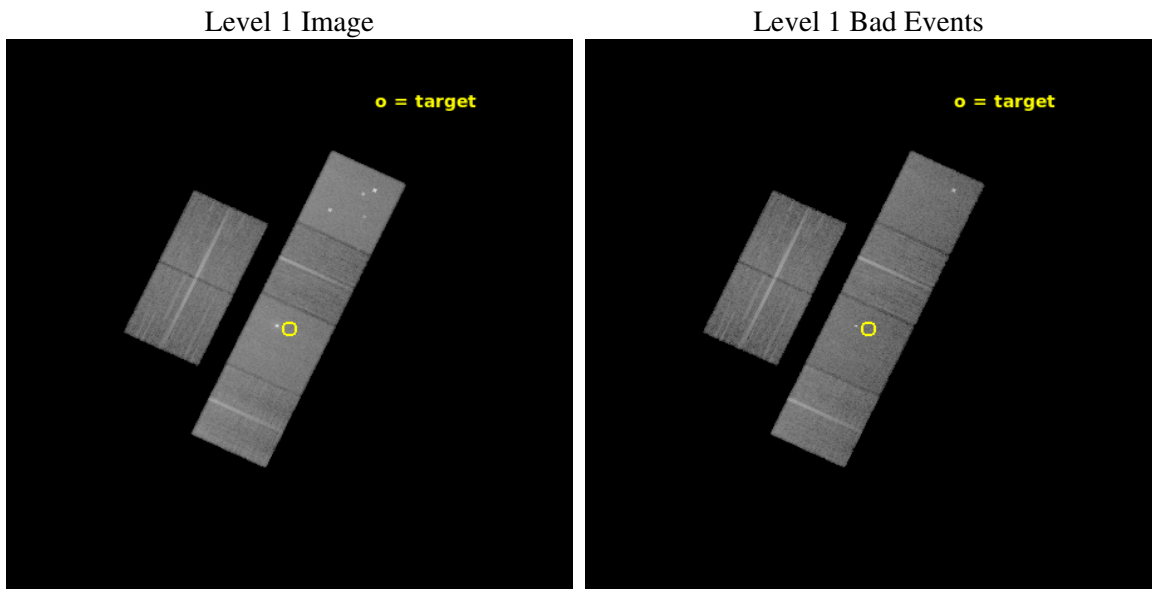
seq_num	400372	Sequence number
obs_id	4590	Observation id
title	The Low-luminosity X-ray binary EXO 1912+097	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	EXO 1912+097	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	288.495	Observer's specified target RA [deg]
dec_targ	9.876944	Observer's specified target Dec [deg]
ra_nom	288.49559918908	Nominal RA [deg]
dec_nom	9.8857707595396	Nominal Dec [deg]
roll_nom	115.43529569582	Nominal Roll [deg]
revision	4	Processing version of data
ontime	20358.399924159	Sum of GTIs [s]
livetime	20100.609605963	Livetime [s]
ontime2	20355.158943892	Sum of GTIs [s]
ontime3	20358.399924159	Sum of GTIs [s]
ontime5	20358.399924159	Sum of GTIs [s]
ontime6	20358.399924159	Sum of GTIs [s]
ontime7	20358.399924159	Sum of GTIs [s]
ontime8	20358.399924159	Sum of GTIs [s]
l2events	241887	Number of level 2 events



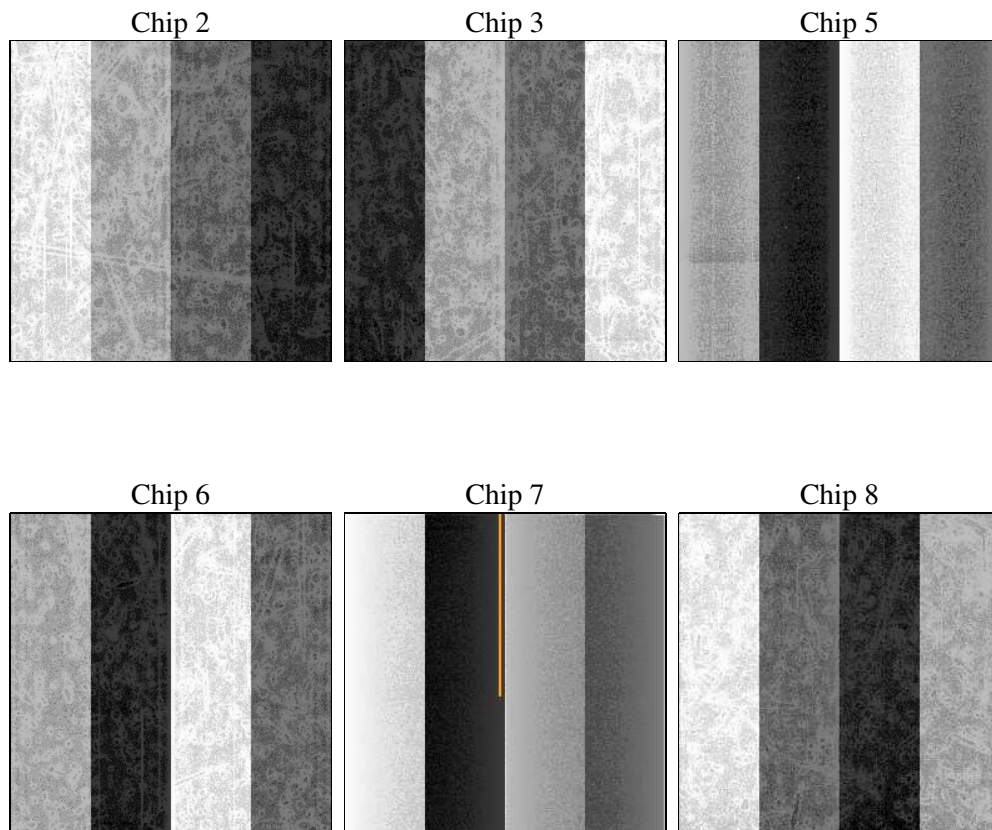
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20400.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	20358.399924159	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	20355.158943892	Sum of GTIs [s]
date	2020-09-25T19:38:33	Date and time of file creation	ontime3	20358.399924159	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	20358.399924159	Sum of GTIs [s]
			ontime6	20358.399924159	Sum of GTIs [s]
			ontime7	20358.399924159	Sum of GTIs [s]
			ontime8	20358.399924159	Sum of GTIs [s]
			l1events	1047372	Number of level 1 events

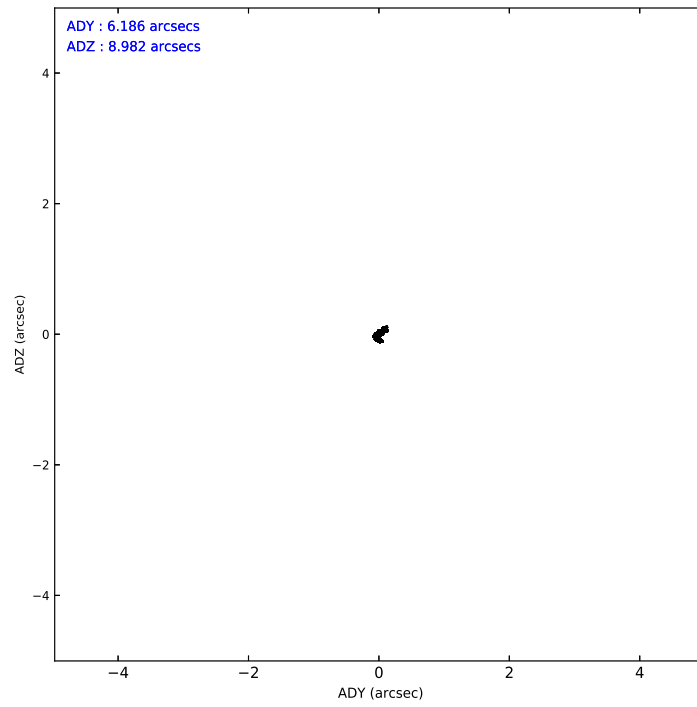
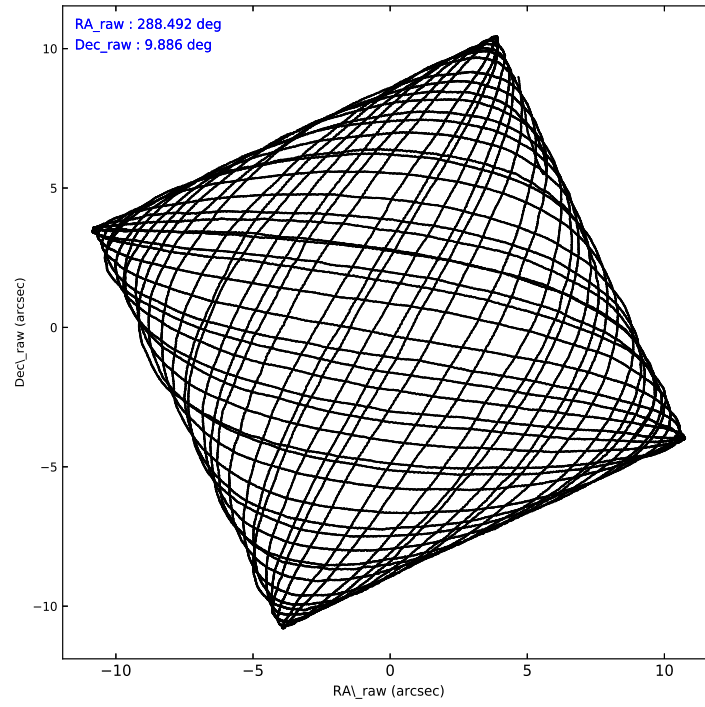
2.1.4 Events

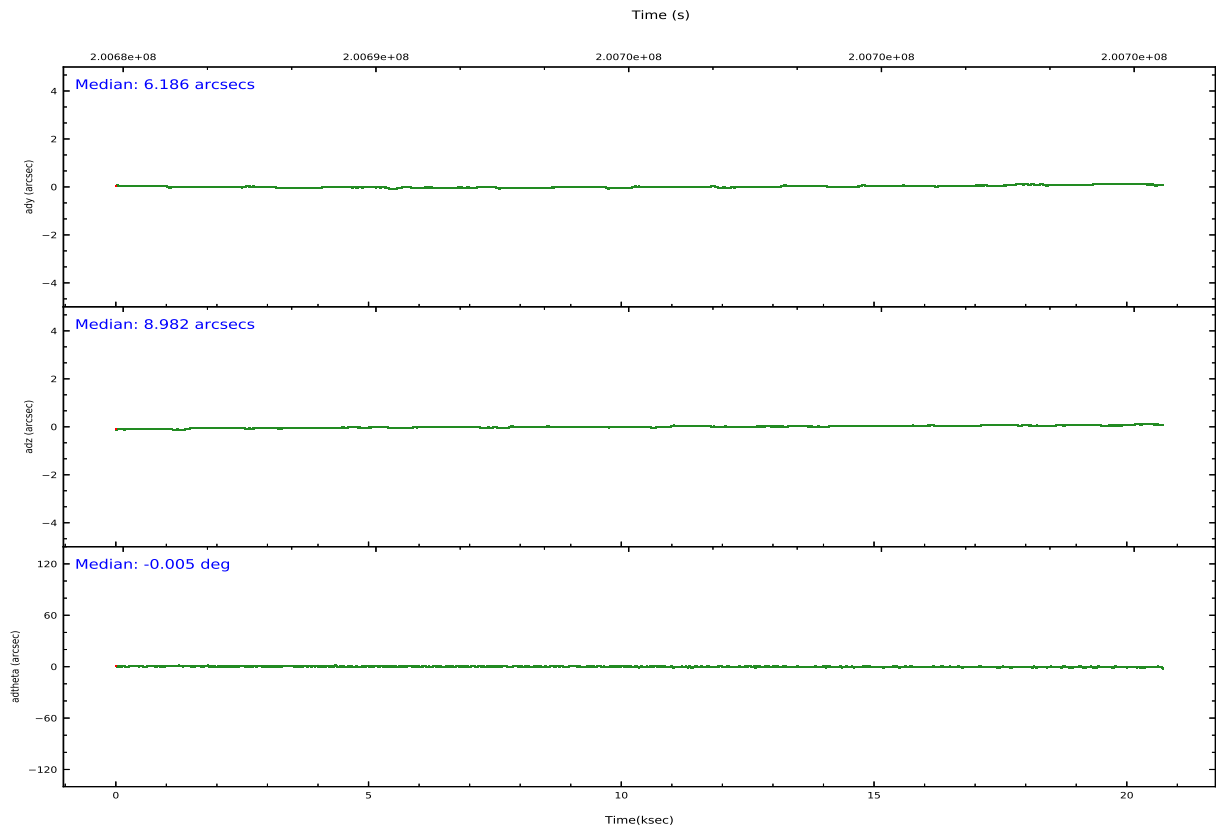
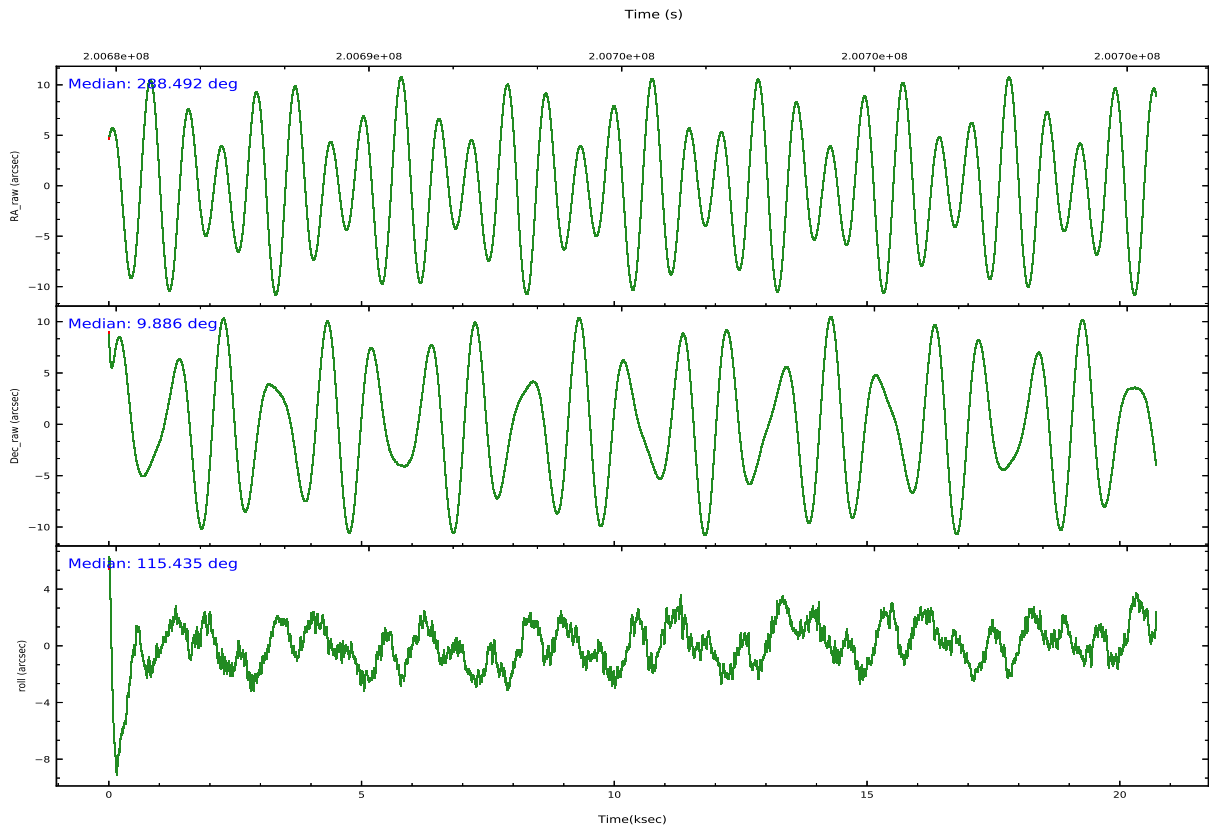
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	144238	139648	222333	146816	209304	185033	grade 0 events	7699	7160	12221	7319	9245	12230
rejected events	126989	123121	119103	128924	117475	146522		5%	5%	5%	4%	4%	6%
rejected %	88%	88%	53%	87%	56%	79%	grade 1 events	110	92	2142	66	338	118
								0%	0%	0%	0%	0%	0%
							grade 2 events	3446	3174	31514	3569	18409	8363
								2%	2%	14%	2%	8%	4%
							grade 3 events	1643	1655	3965	1734	8398	4085
								1%	1%	1%	1%	4%	2%
							grade 4 events	1654	1606	3712	1717	8224	3894
								1%	1%	1%	1%	3%	2%
							grade 5 events	5847	6307	16039	6782	19628	8699
								4%	4%	7%	4%	9%	4%
							grade 6 events	2811	2933	51840	3554	47568	9942
								1%	2%	23%	2%	22%	5%
							grade 7 events	121028	116721	100900	122075	97494	137702
								83%	83%	45%	83%	46%	74%

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	288.515374	288.49559918908	Subarray requested	NONE	NONE
[deg] Pointing Dec	9.871124	9.8857707595396	Alternating exposures requested	N	N
[deg] Pointing Roll	115.275192	115.43529569582	[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)	200685173.184000	200684145.7219			
Observation start date	2004-05-11T17:51:49	2004-05-11T17:35:45			
[s] Observation end time (MET)	200705573.184000	200706228.32287			
Observation end date	2004-05-11T23:31:49	2004-05-11T23:43:48			
Read mode	TIMED	TIMED			

2.3 Aspect



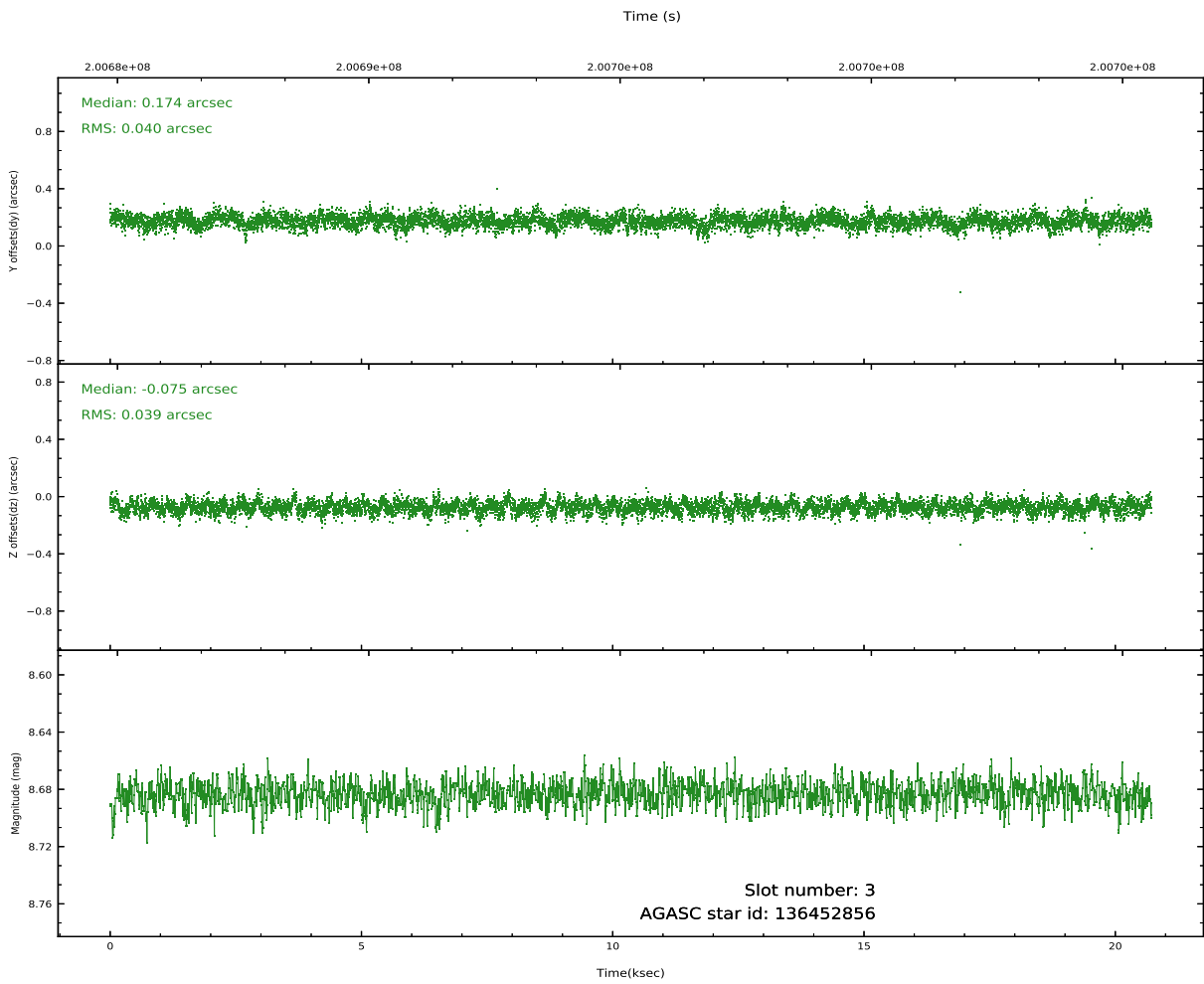
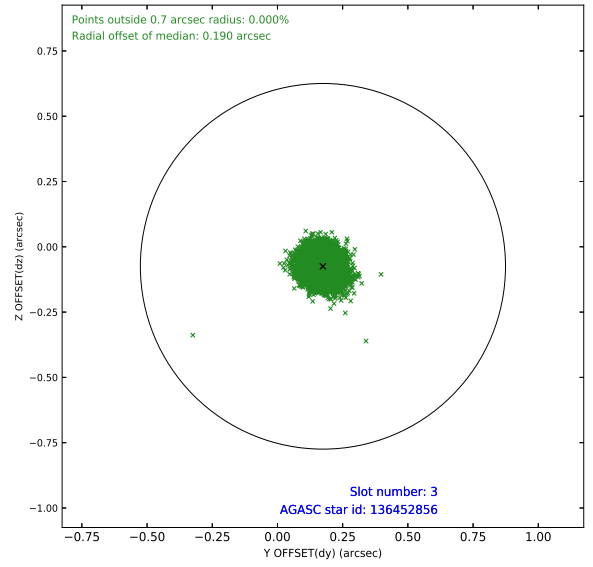
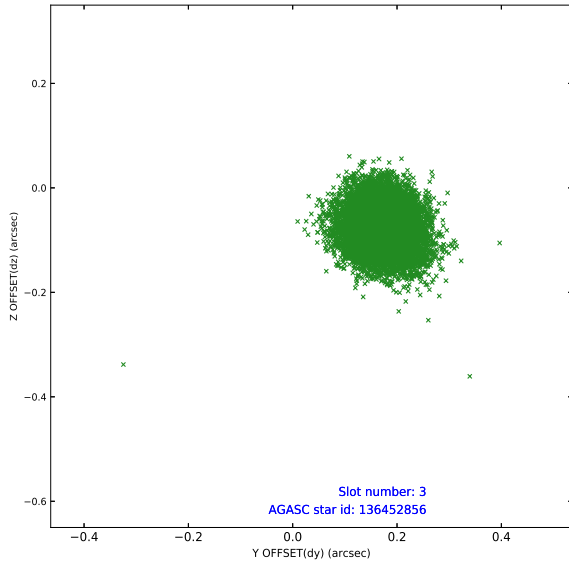


Slot Statistics

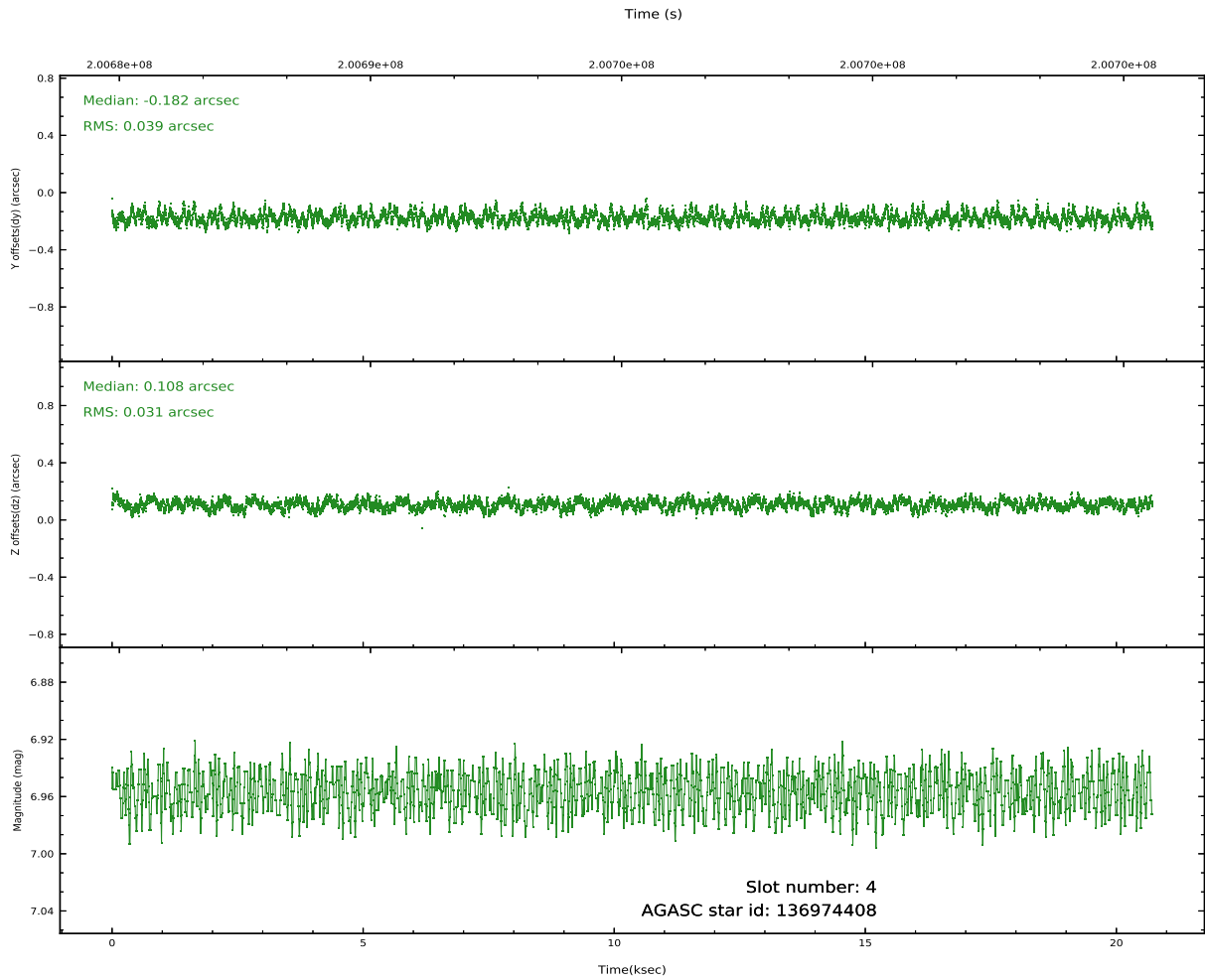
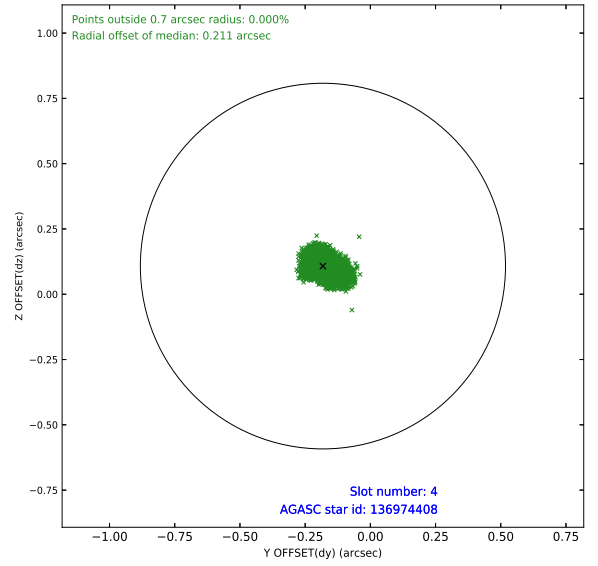
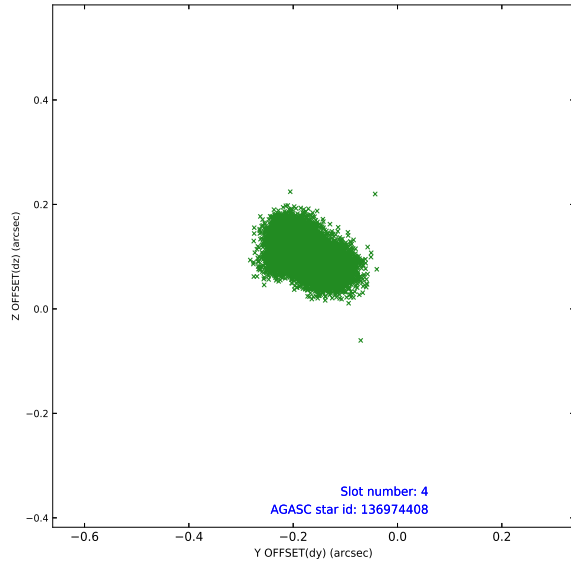
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	5054	1.000	-0.075	-0.079	0.007	0.011	0.000000	0.000000	-758.98	-1730
1	FID		ACIS-S-4	7.20	5054	1.000	0.141	0.057	0.006	0.010	0.000000	0.000000	2154.41	178
2	FID		ACIS-S-5	7.23	5054	1.000	-0.097	0.030	0.007	0.011	0.000000	0.000000	-1811.64	171
3	GUIDE	used	136452856	8.68	10102	1.000	0.174	-0.075	0.059	0.096	288.703253	9.318908	-2082.15	245
4	GUIDE	used	136974408	6.96	10103	1.000	-0.182	0.108	0.053	0.087	288.806802	10.212409	670.52	-1458
5	GUIDE	used	136977584	8.43	10098	1.000	-0.083	0.095	0.080	0.128	288.635599	10.555283	2045.91	-1436
6	GUIDE	used	136973480	8.44	10103	1.000	-0.120	-0.102	0.065	0.106	287.924725	9.951688	1158.24	1769
7	GUIDE	used	136975784	9.22	10101	1.000	0.210	-0.024	0.077	0.123	288.508619	9.520005	-1132.34	561

2.4 Star Slots

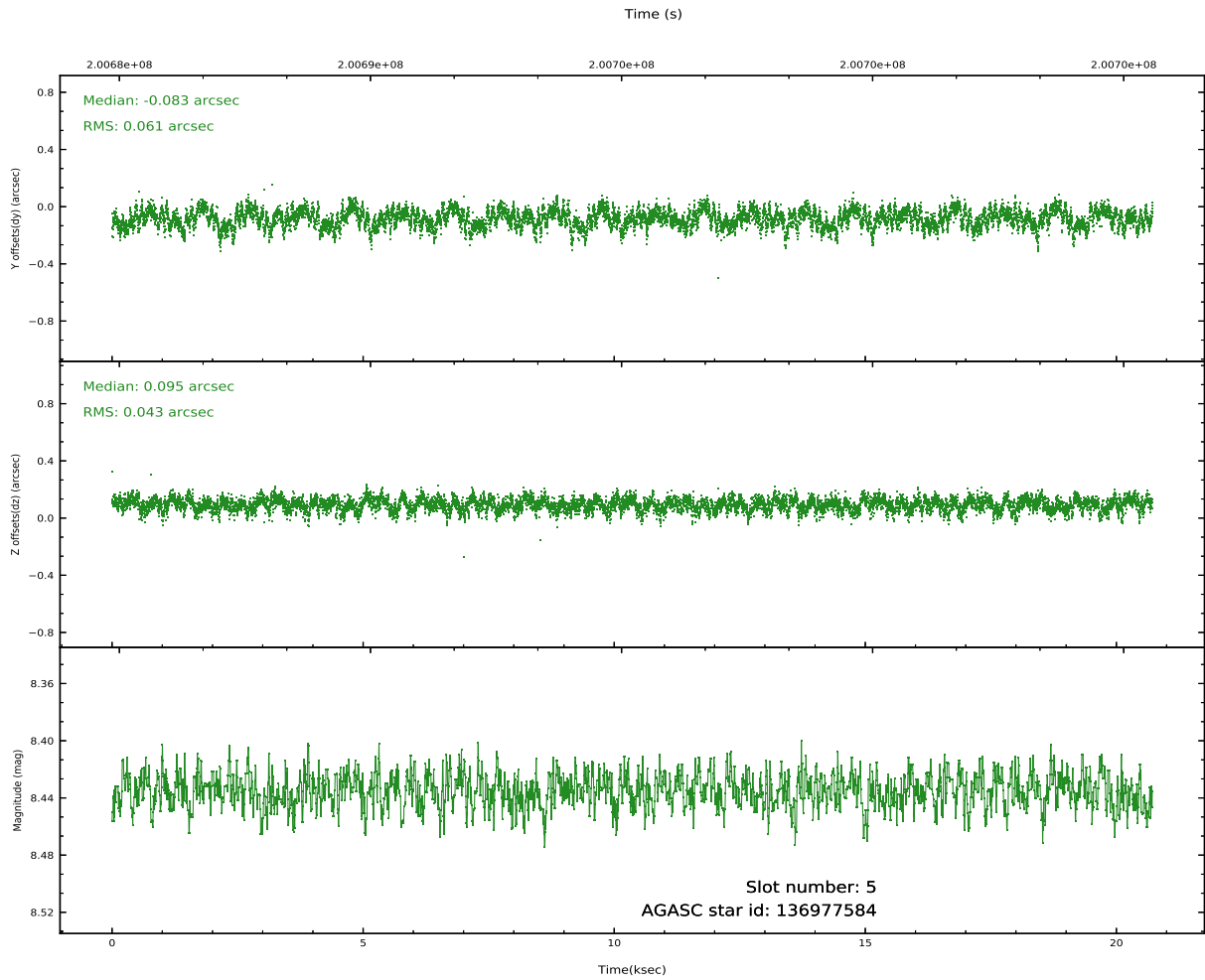
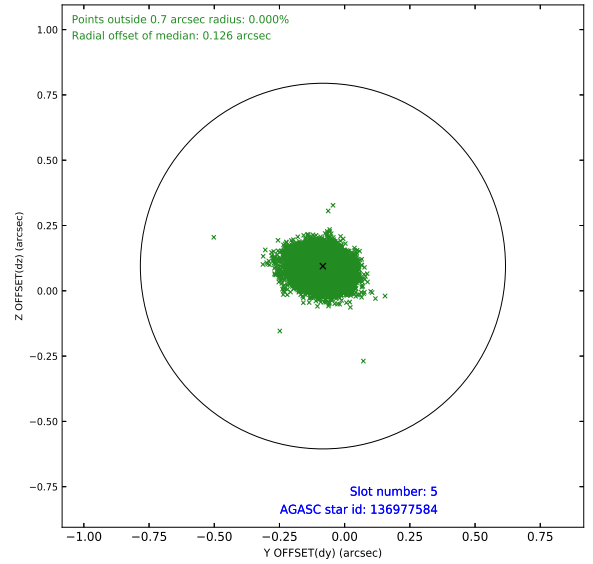
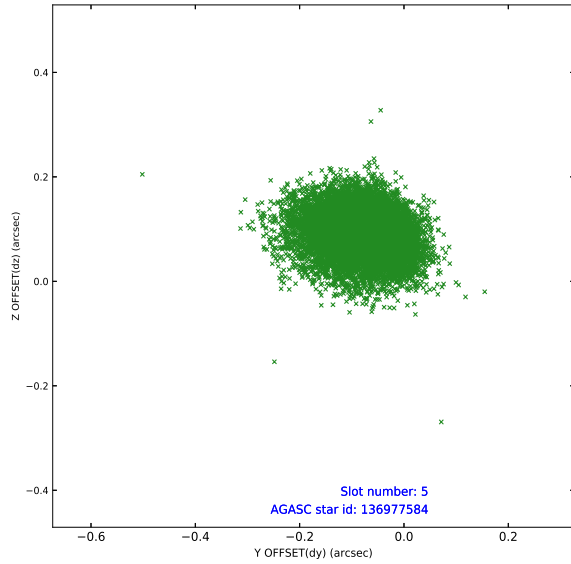
2.4.1 Slot 3



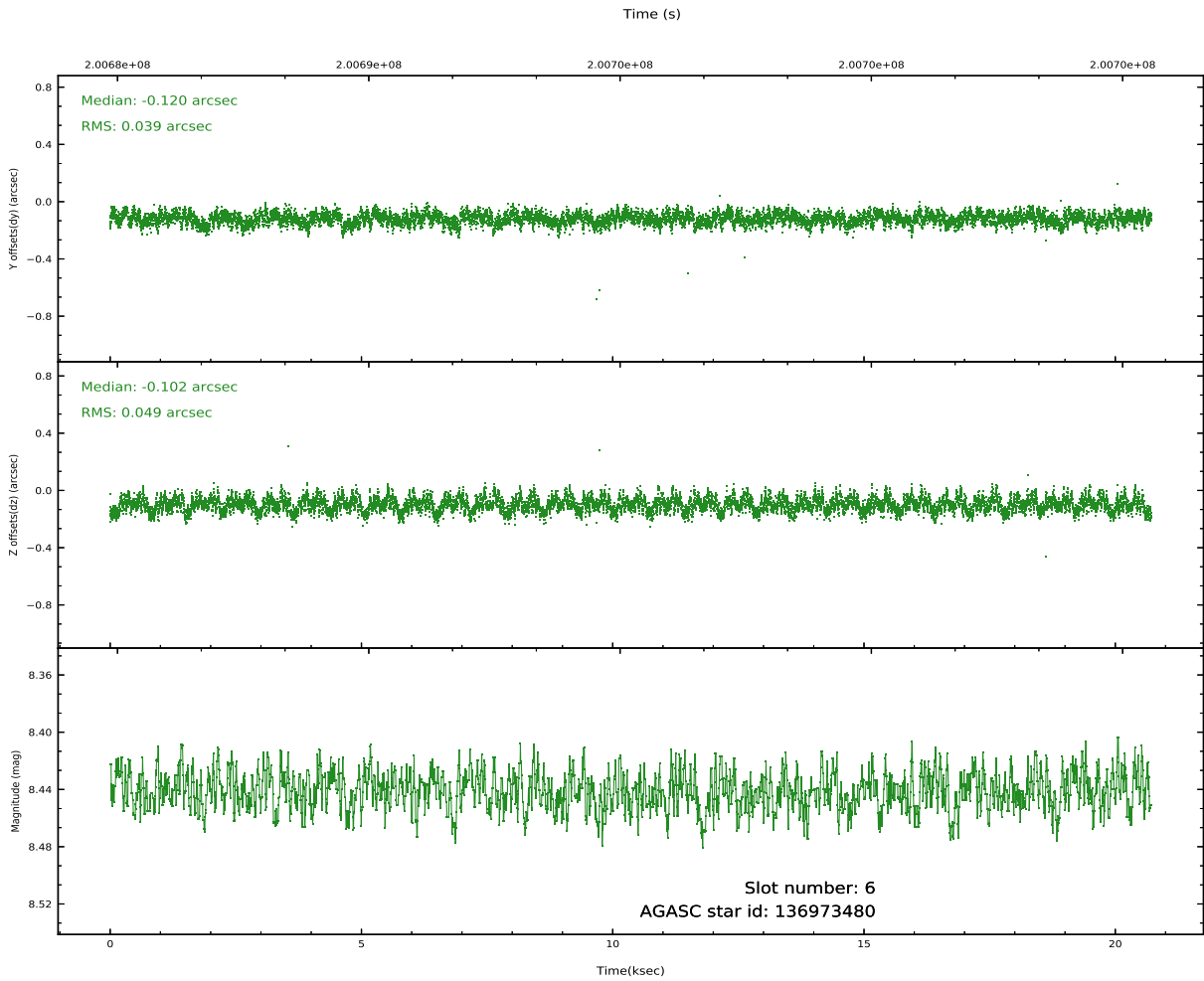
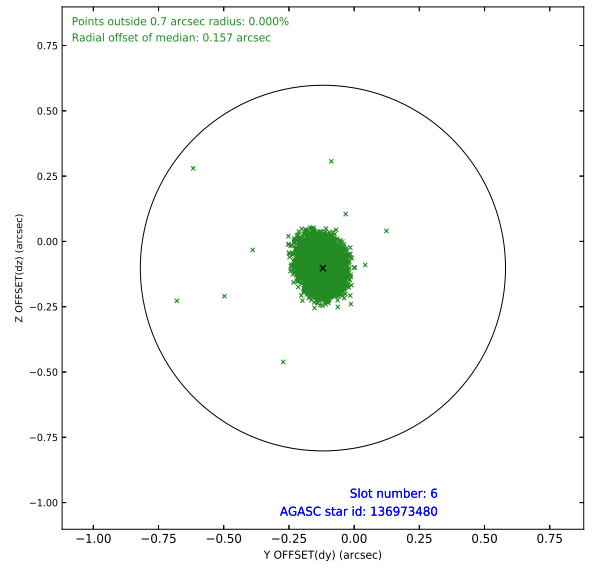
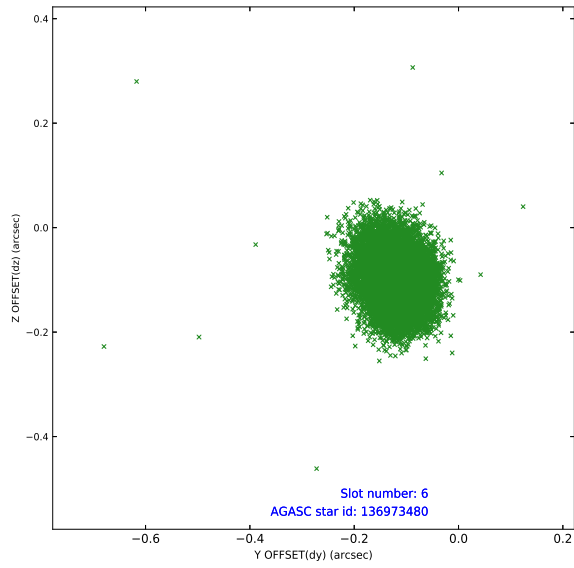
2.4.2 Slot 4



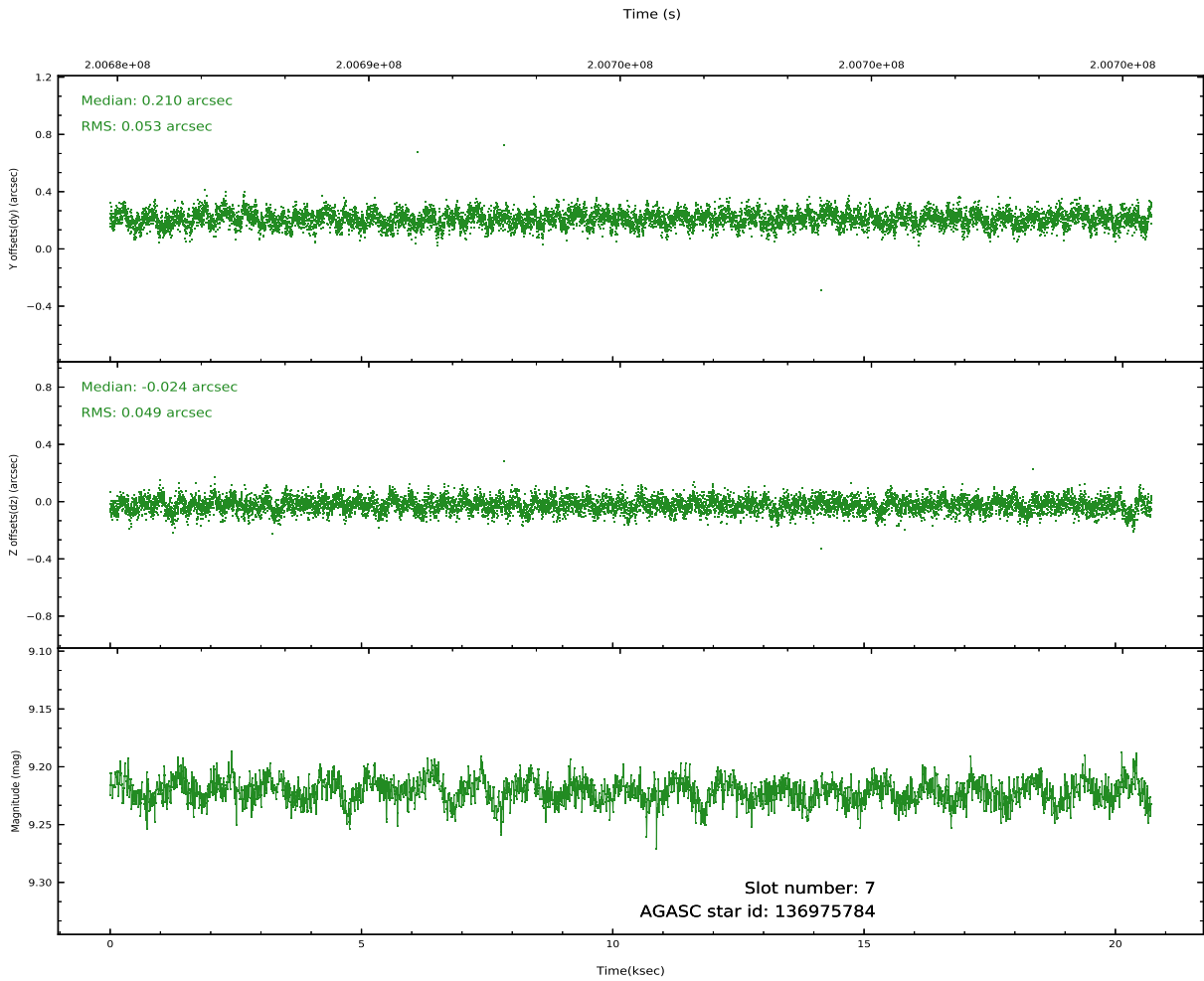
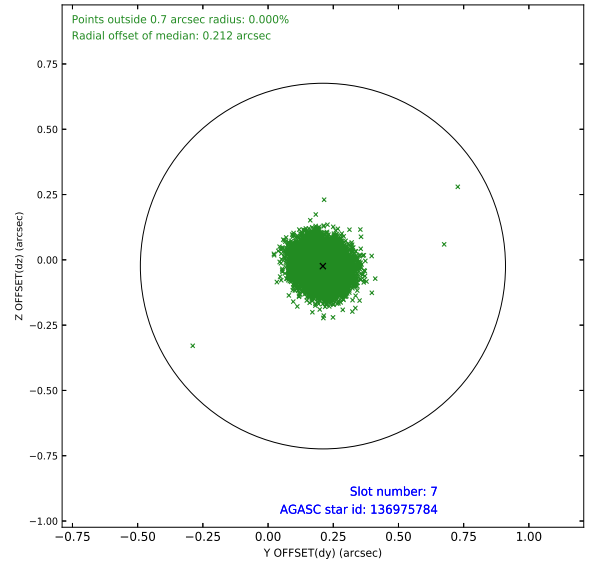
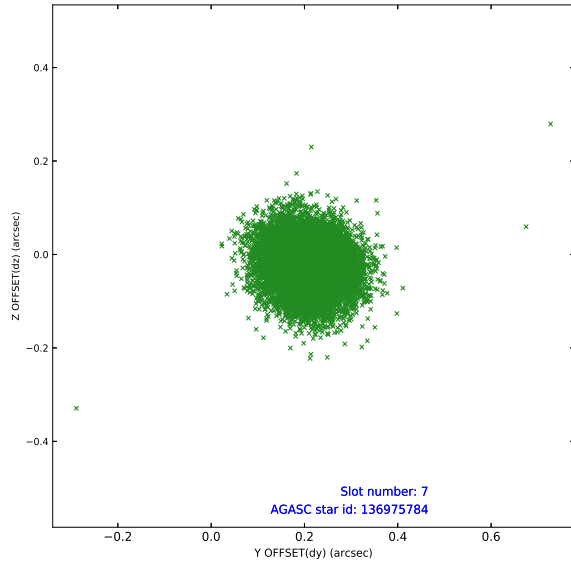
2.4.3 Slot 5



2.4.4 Slot 6

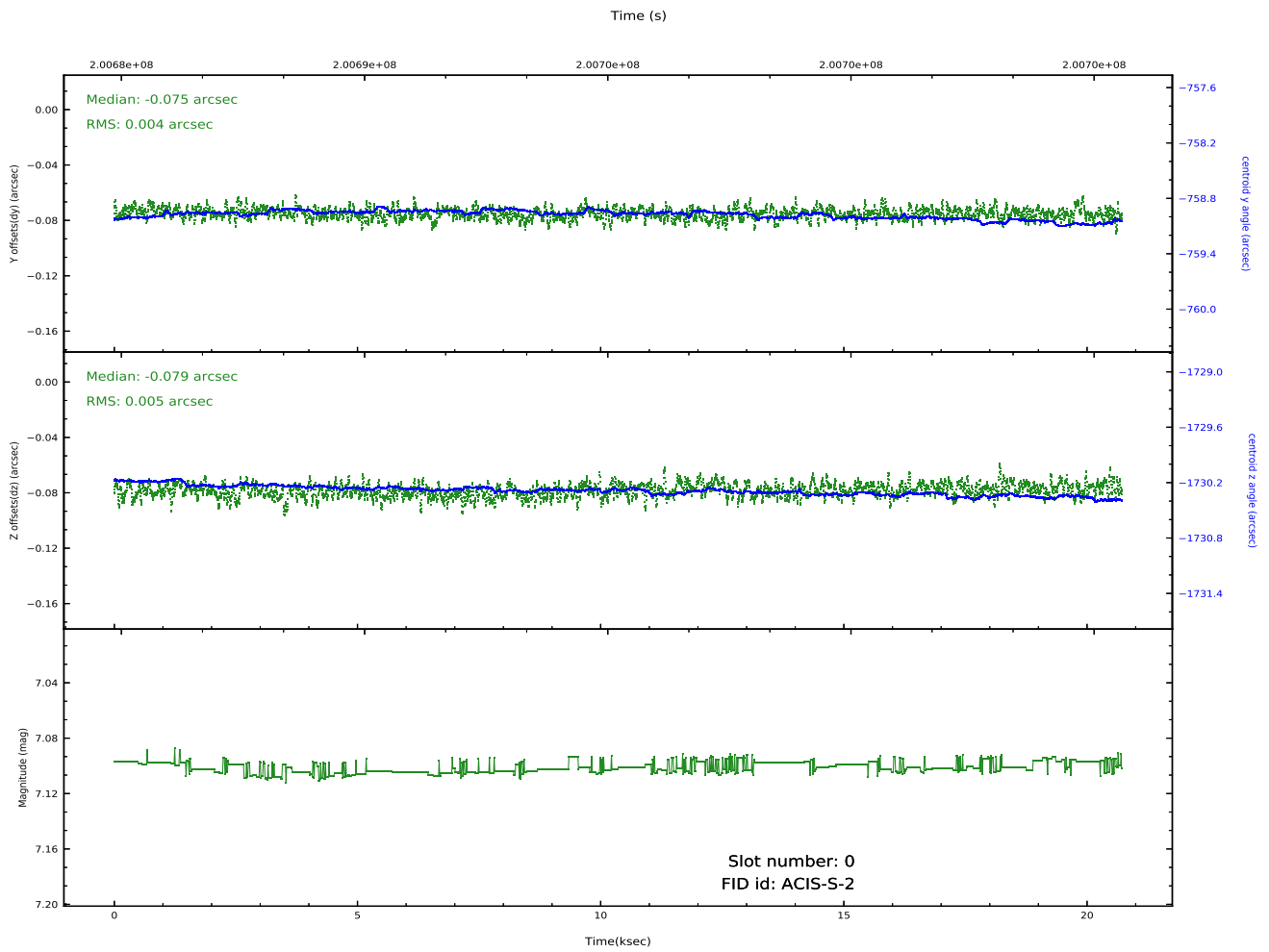
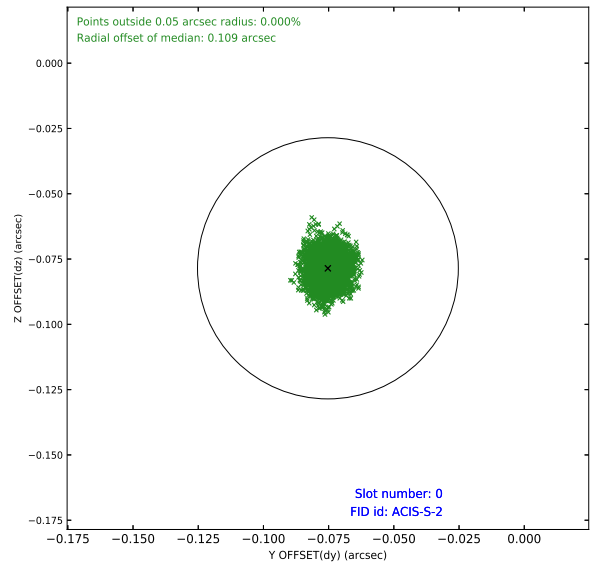
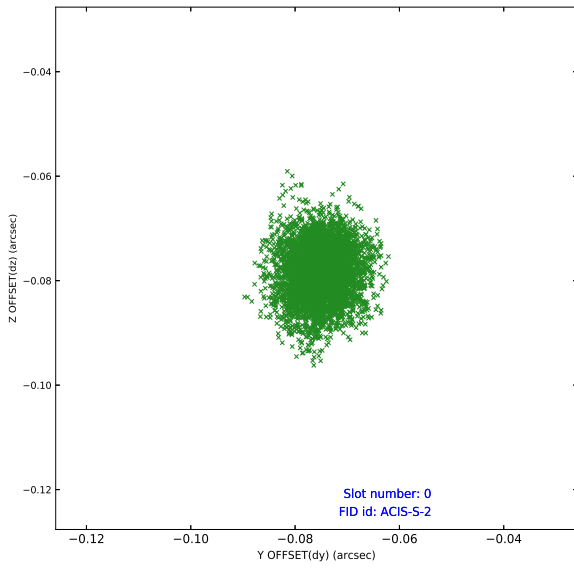


2.4.5 Slot 7

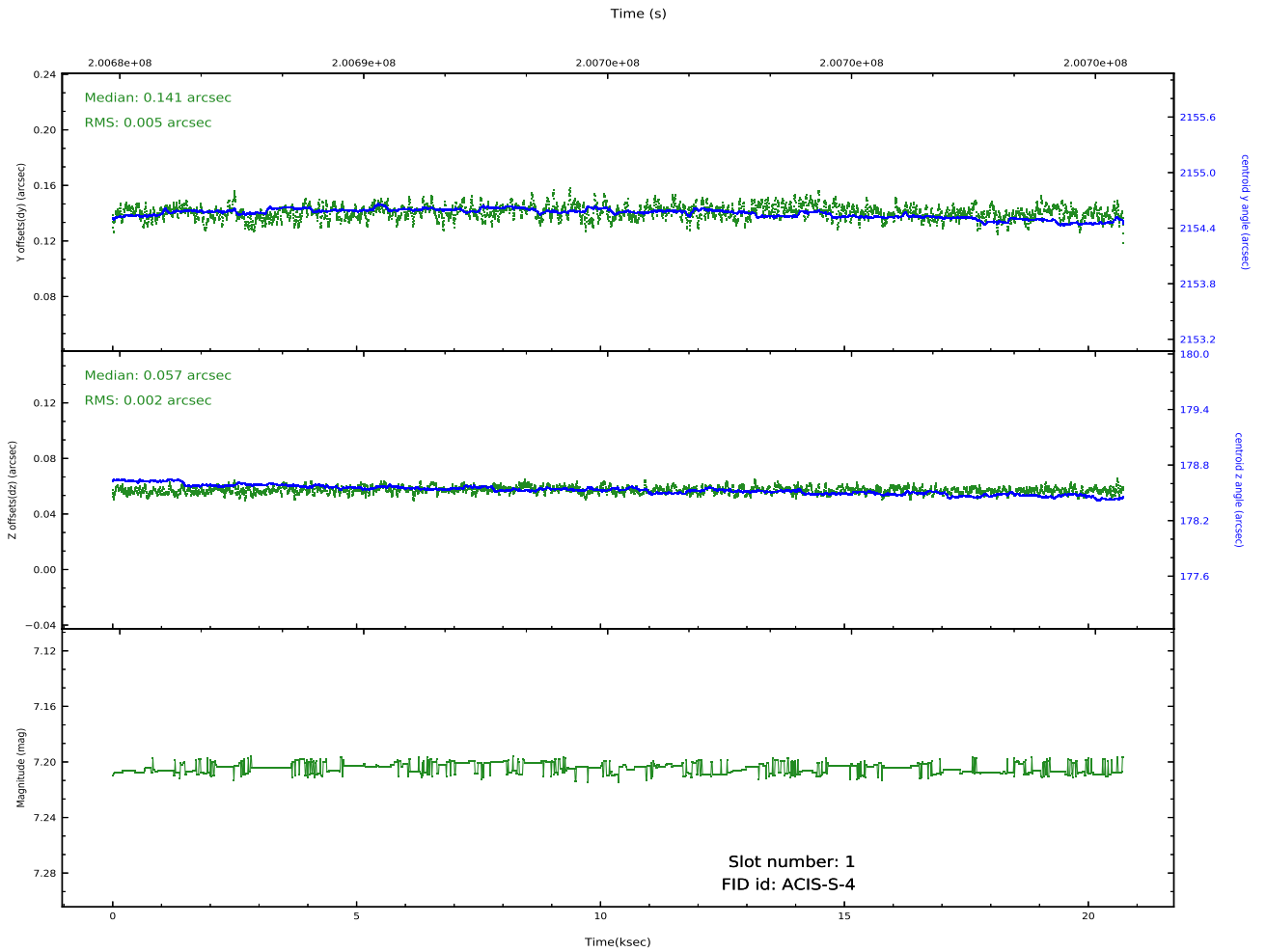
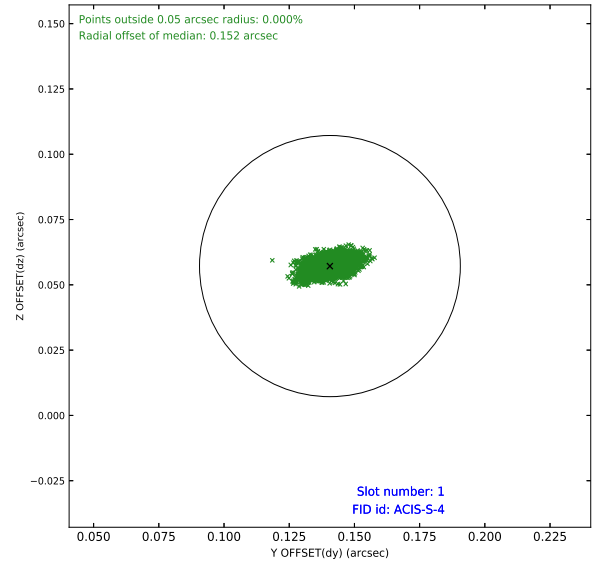
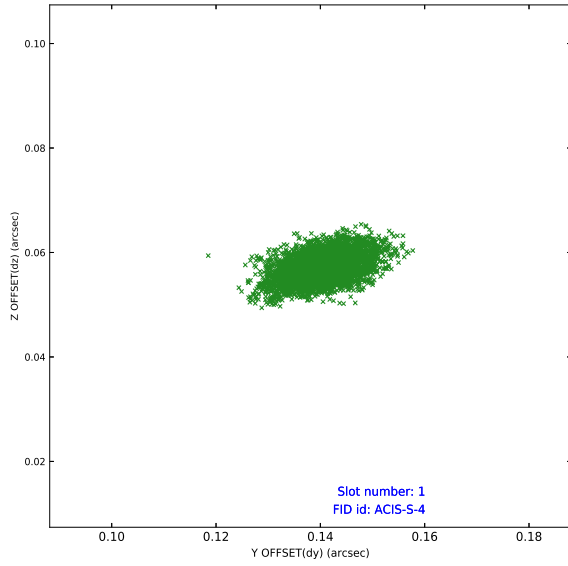


2.5 FID Slots

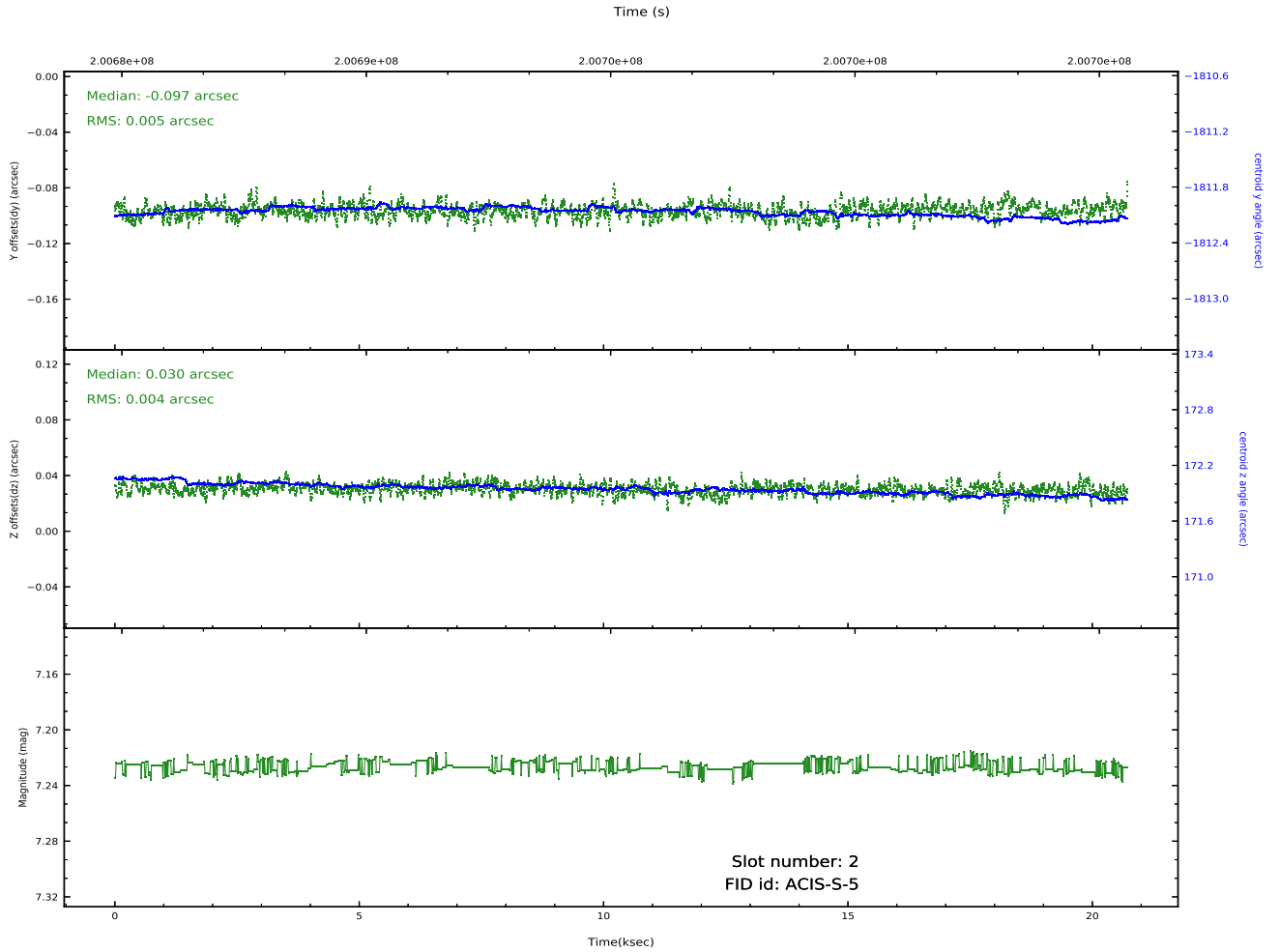
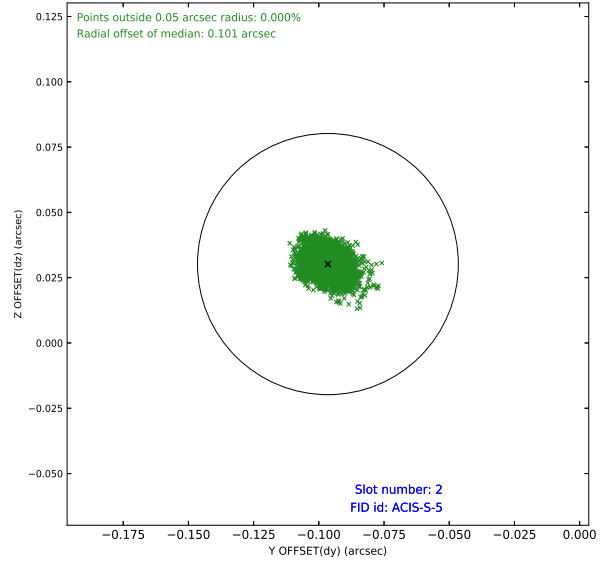
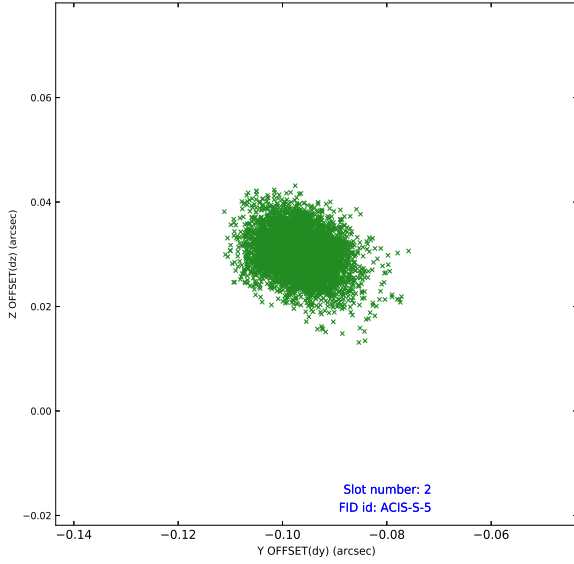
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.361

A.2 Comments

Window preference was not met.