

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5290 - L2 Version 4
Chandra X-Ray Center

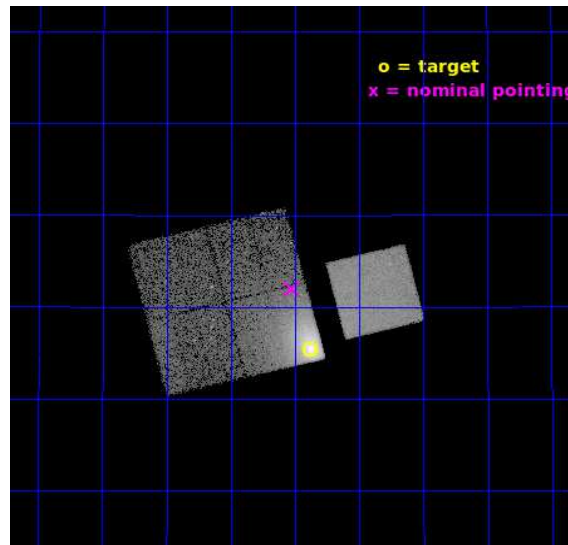
L2 Processing Date : Sep 23 2020

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

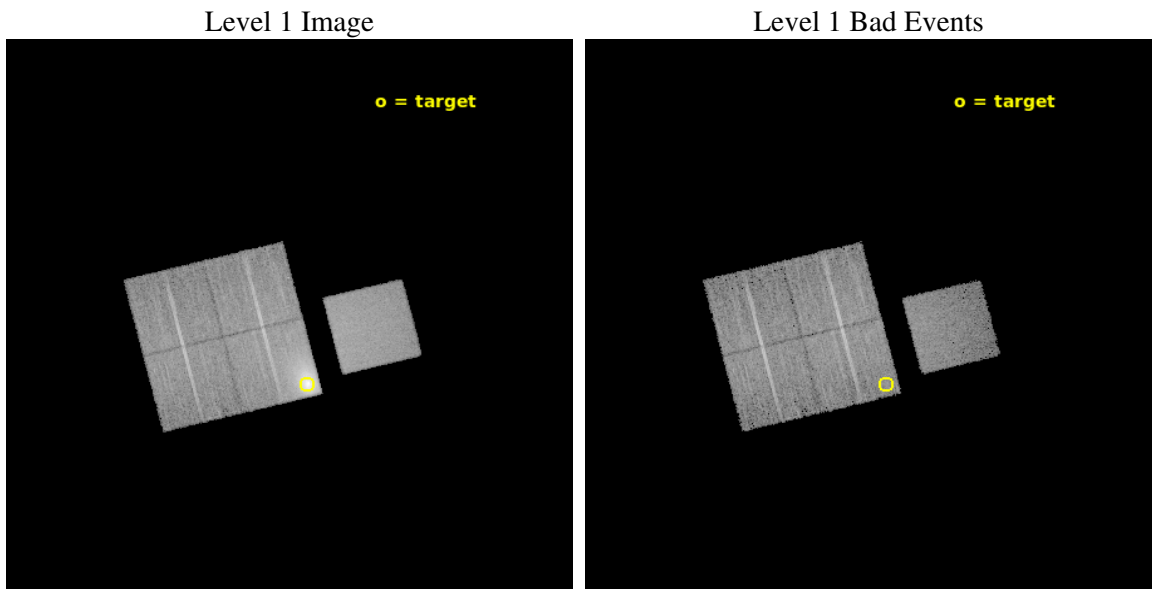
seq_num	890030	Sequence number
obs_id	5290	Observation id
title	Mapping the Depth of the Contaminant on the ACIS Filters with Abell 11795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.2561322681	Nominal RA [deg]
dec_nom	26.700166504402	Nominal Dec [deg]
roll_nom	75.919713735698	Nominal Roll [deg]
revision	4	Processing version of data
ontime	15143.499970853	Sum of GTIs [s]
livetime	14945.638995252	Livetime [s]
ontime0	15140.359000593	Sum of GTIs [s]
ontime1	15140.358970702	Sum of GTIs [s]
ontime2	15143.499970853	Sum of GTIs [s]
ontime3	15143.499970853	Sum of GTIs [s]
ontime7	15143.499970853	Sum of GTIs [s]
l2events	157580	Number of level 2 events



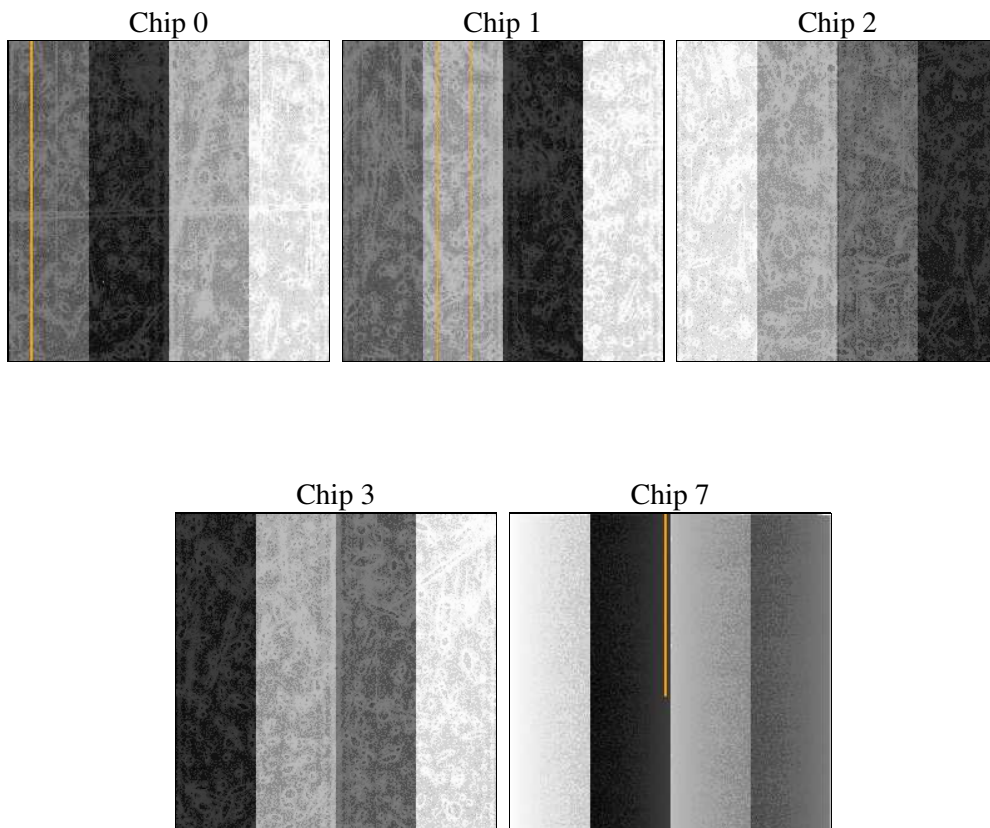
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	15143.499970853	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	15140.359000593	Sum of GTIs [s]
date	2020-09-23T15:16:03	Date and time of file creation	ontime1	15140.358970702	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	15143.499970853	Sum of GTIs [s]
			ontime3	15143.499970853	Sum of GTIs [s]
			ontime7	15143.499970853	Sum of GTIs [s]
			l1events	484575	Number of level 1 events

2.1.4 Events

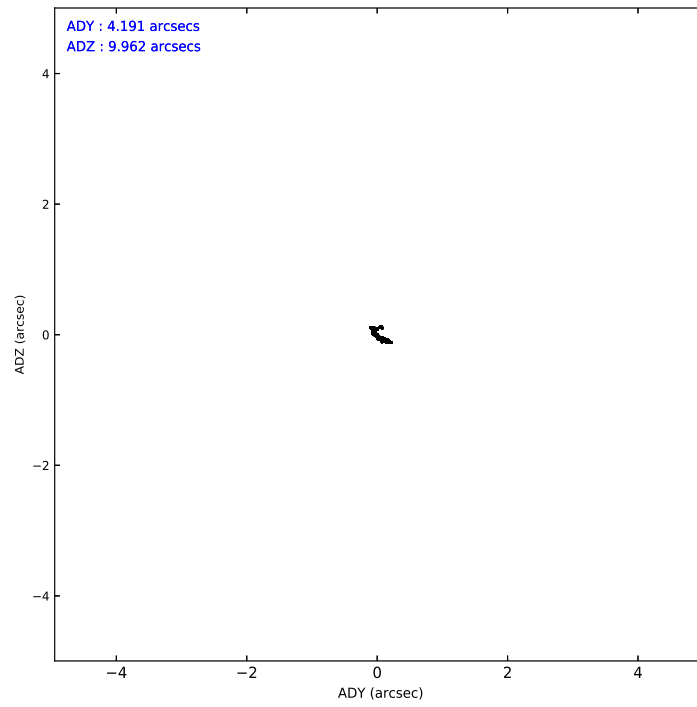
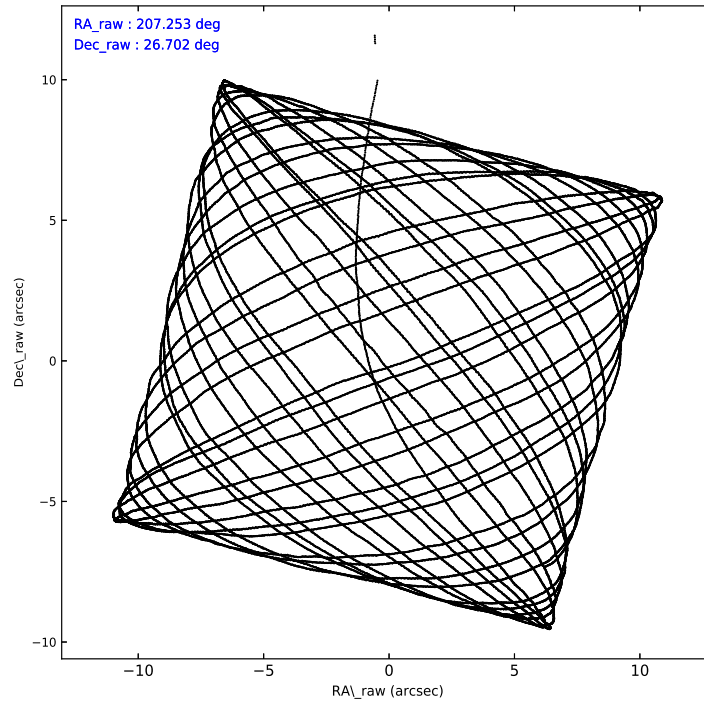
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	69679	73795	80509	162247	98345
rejected events	61183	63683	70330	74096	49102
rejected %	87%	86%	87%	45%	49%

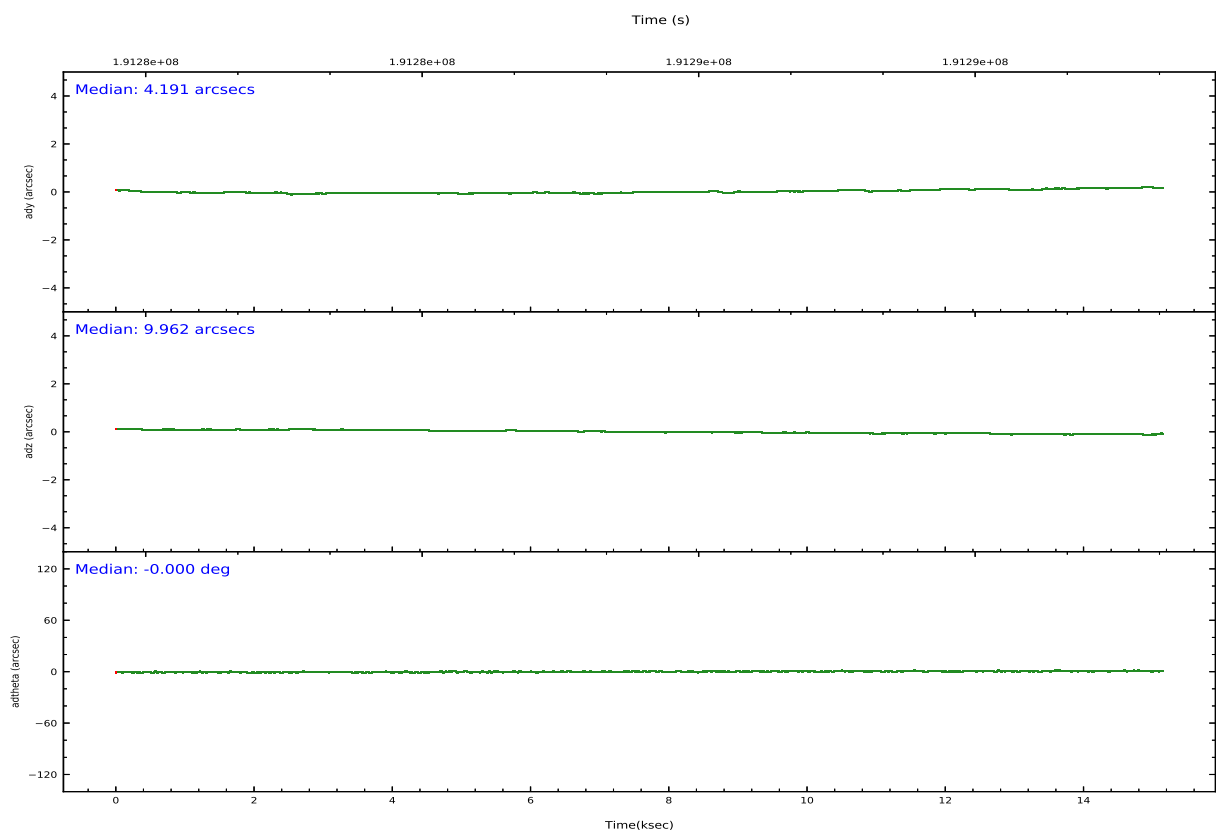
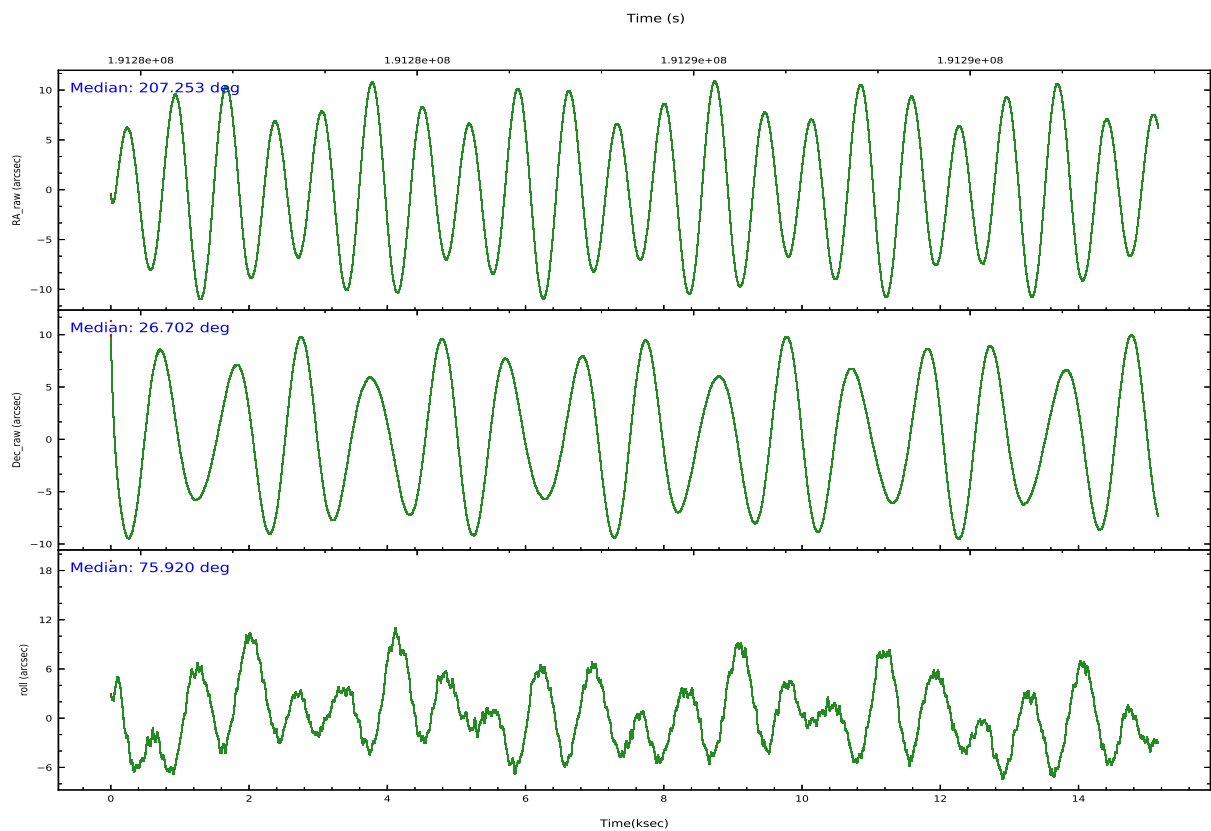
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	3840	4871	5363	69372	6373
	5%	6%	6%	42%	6%
grade 1 events	28	37	58	305	72
	0%	0%	0%	0%	0%
grade 2 events	2014	2183	2148	9786	10499
	2%	2%	2%	6%	10%
grade 3 events	990	1034	902	3452	4870
	1%	1%	1%	2%	4%
grade 4 events	887	1031	956	3425	4834
	1%	1%	1%	2%	4%
grade 5 events	2748	2986	2594	3290	9391
	3%	4%	3%	2%	9%
grade 6 events	1593	1870	1480	3595	24278
	2%	2%	1%	2%	24%
grade 7 events	57579	59783	67008	69022	38028
	82%	81%	83%	42%	38%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01237	ACIS-01237	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	207.261861	207.2561322681	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.675806	26.700166504402	Alternating exposures requested	N	N
[deg] Pointing Roll	75.712200	75.919713735698	[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	-214.092463	-214.0964622431356			
[mm] SIM translation stage offset	-19.5	-19.49599075979413			
[s] Observation start time (MET)	191279720.184000	191278476.75904			
Observation start date	2004-01-23T21:14:16	2004-01-23T20:54:36			
[s] Observation end time (MET)	191294720.184000	191295242.68477			
Observation end date	2004-01-24T01:24:16	2004-01-24T01:34:02			
Read mode	TIMED	TIMED			

2.3 Aspect



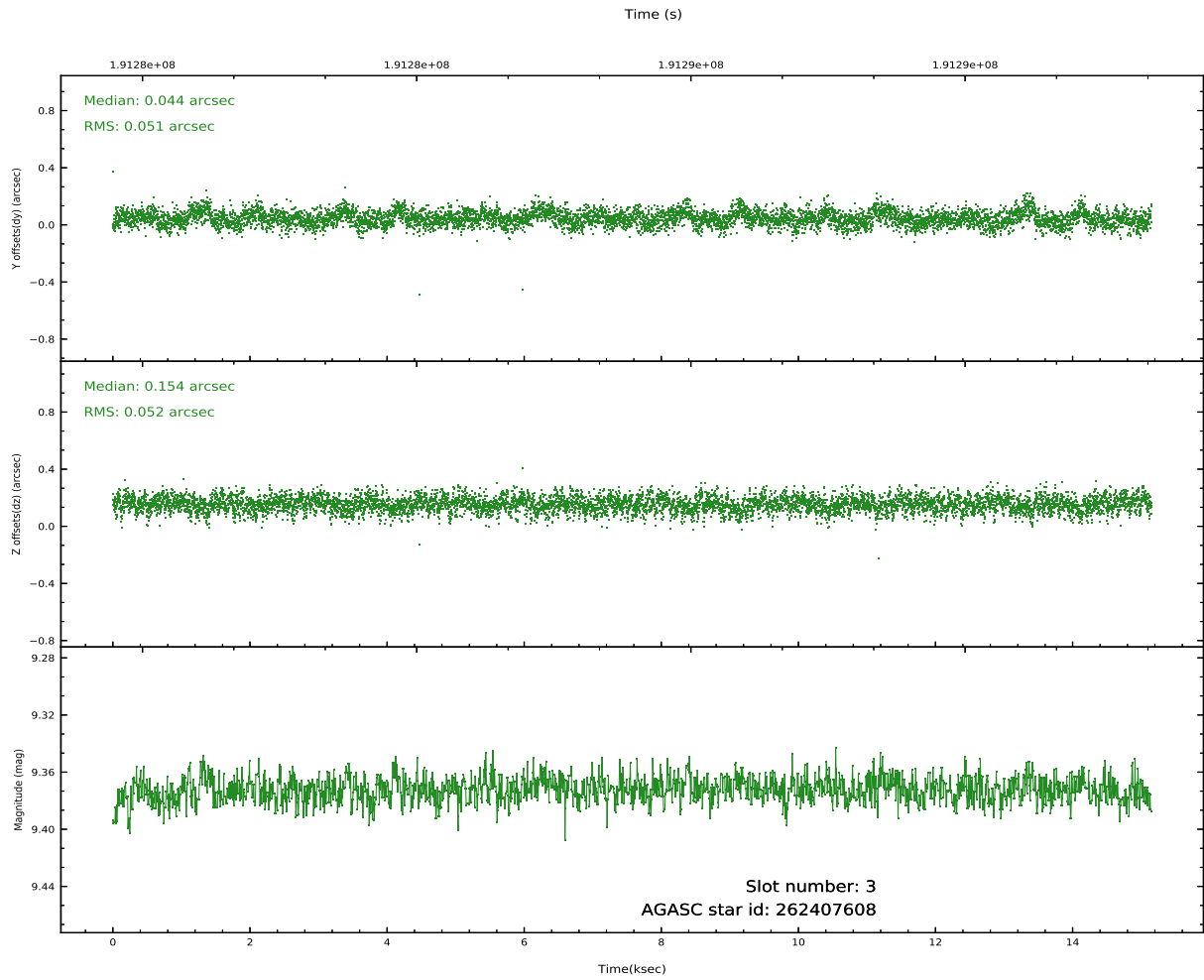
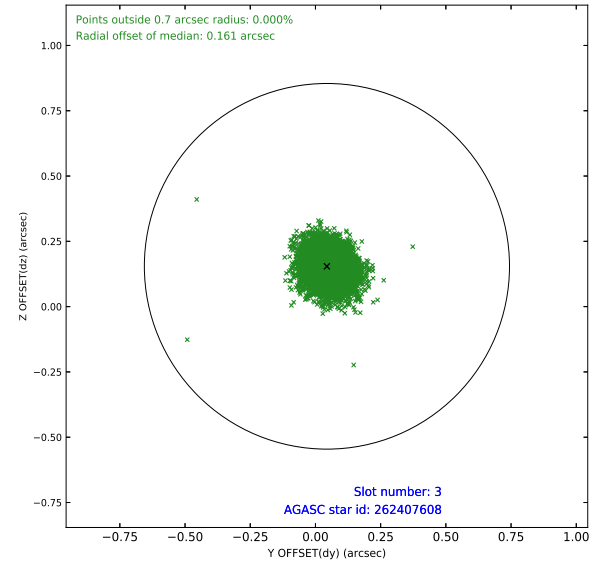
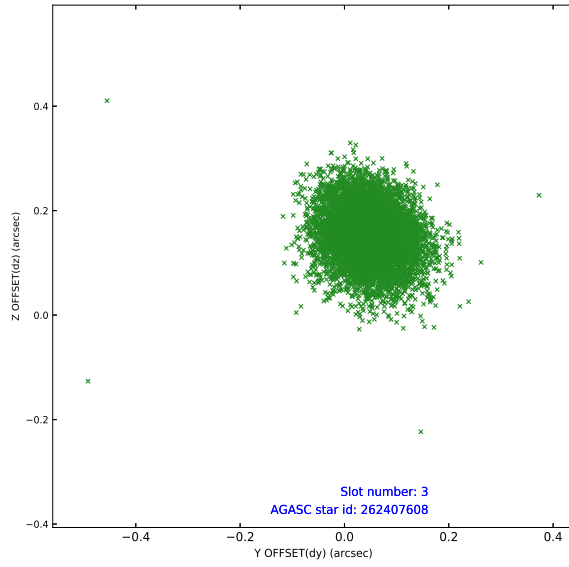


Slot Statistics

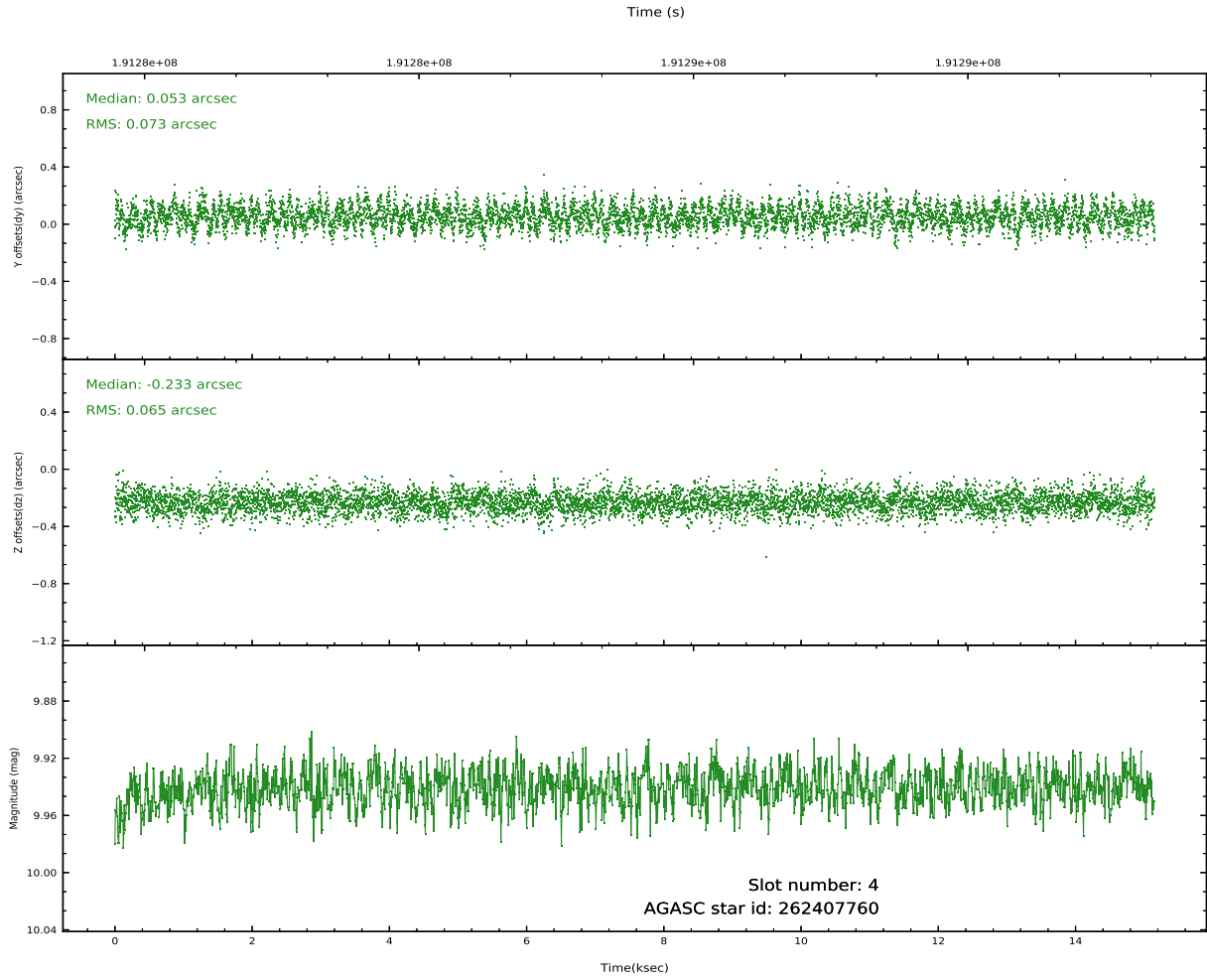
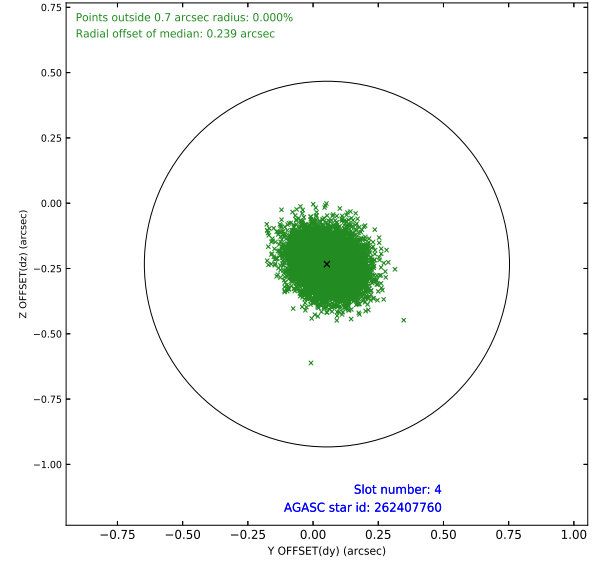
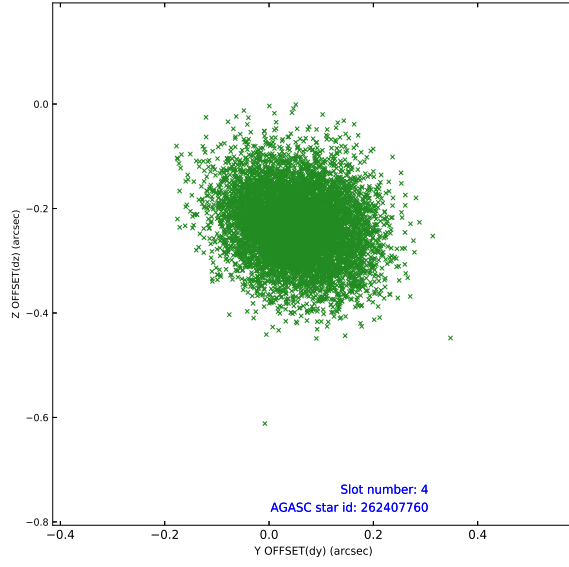
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.20	3696	1.000	0.269	-0.218	0.007	0.012	0.000000	0.000000	935.41	-1234
1	FID		ACIS-I-5	7.22	3696	1.000	-0.459	0.185	0.007	0.012	0.000000	0.000000	-1813.19	663
2	FID		ACIS-I-6	7.27	3695	1.000	0.099	0.104	0.006	0.011	0.000000	0.000000	400.55	1308
3	GUIDE	used	262407608	9.37	7389	1.000	0.044	0.154	0.076	0.124	207.378401	26.435507	-745.02	-577
4	GUIDE	used	262407760	9.94	7387	1.000	0.053	-0.233	0.105	0.168	206.566773	26.577263	-890.10	2082
5	GUIDE	used	262408096	9.34	7390	1.000	0.088	-0.036	0.095	0.163	207.011678	26.515421	-757.39	639
6	GUIDE	used	262408512	8.01	7389	1.000	-0.259	0.194	0.057	0.094	207.800210	27.128796	2009.69	-1267
7	GUIDE	used	262408936	9.64	7382	1.000	0.076	-0.081	0.096	0.159	207.154731	26.726554	92.79	378

2.4 Star Slots

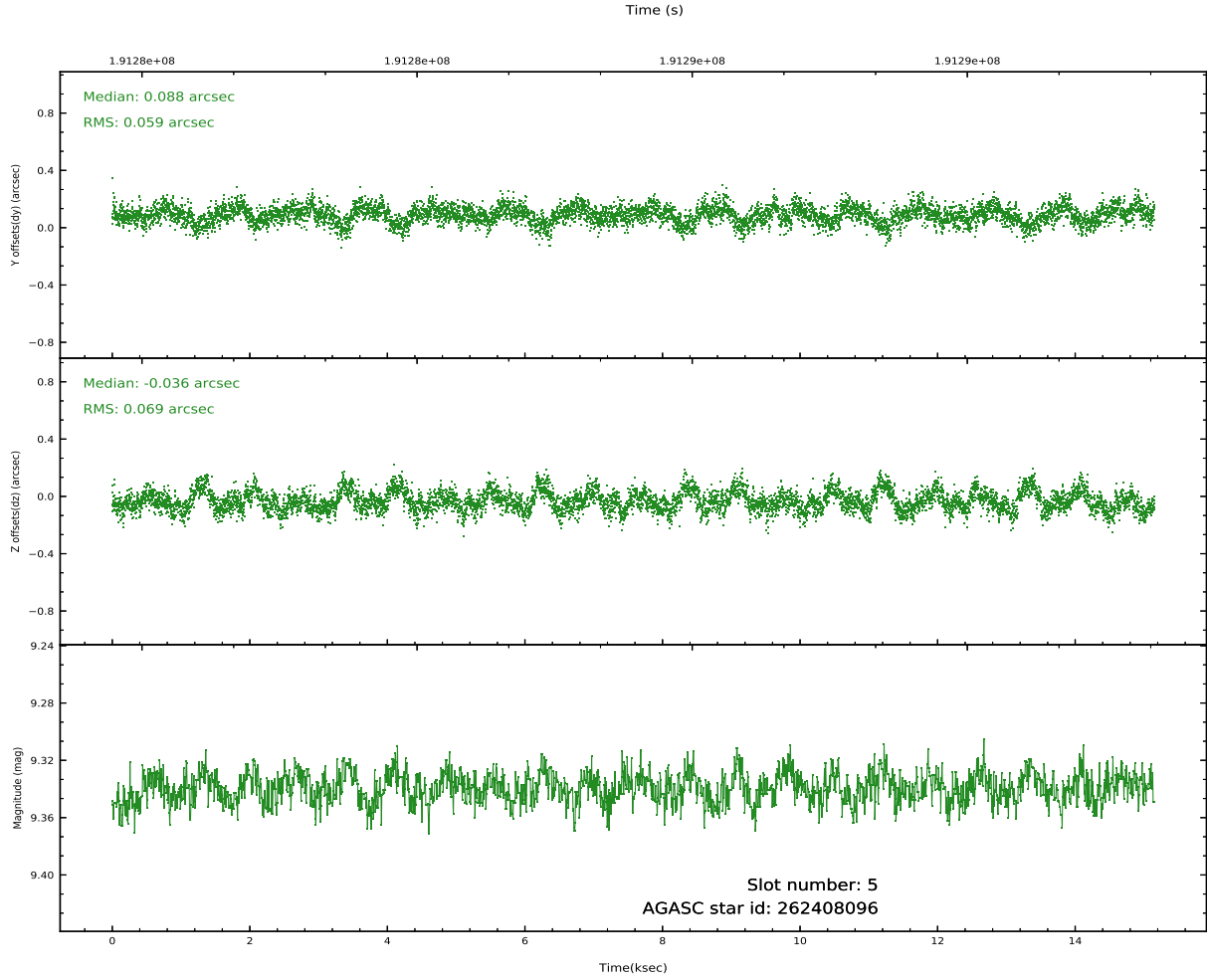
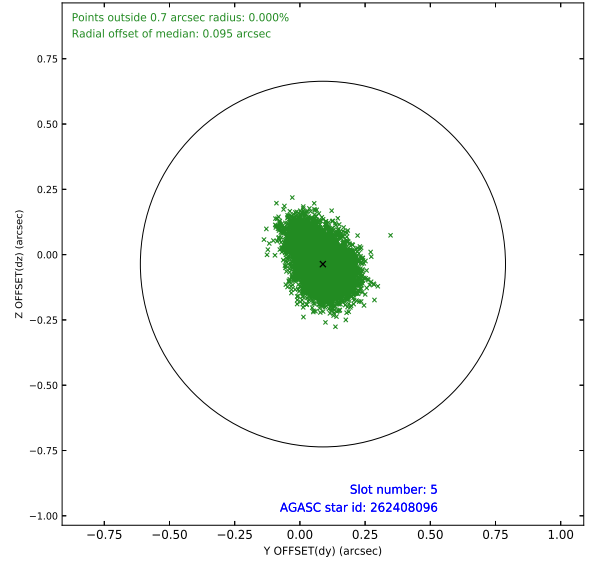
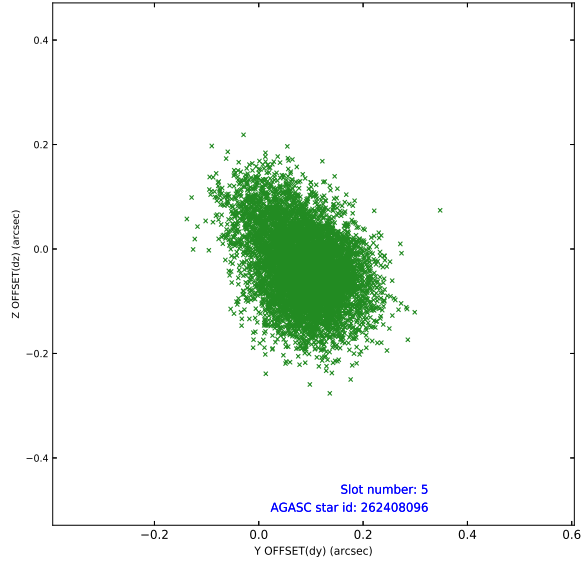
2.4.1 Slot 3



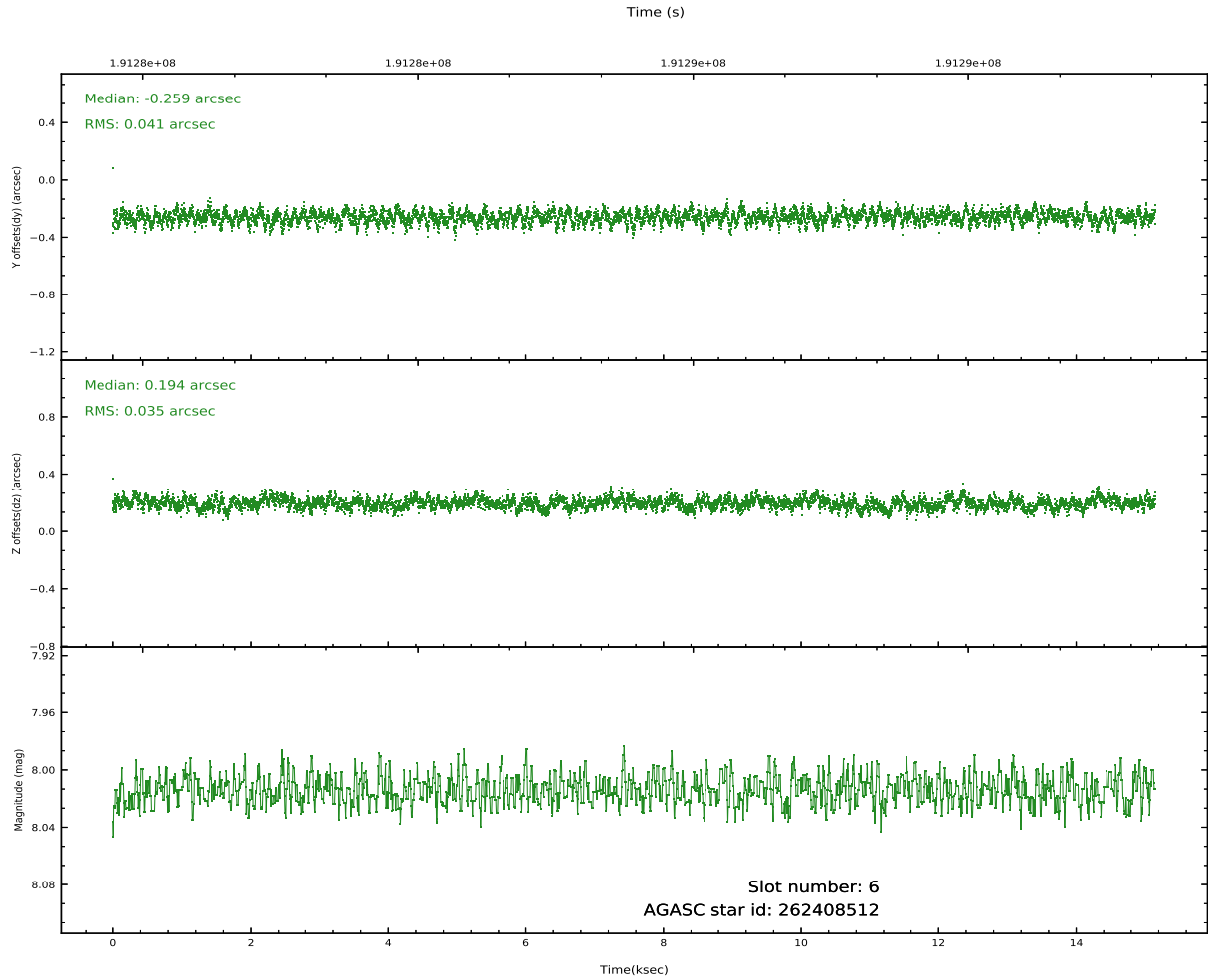
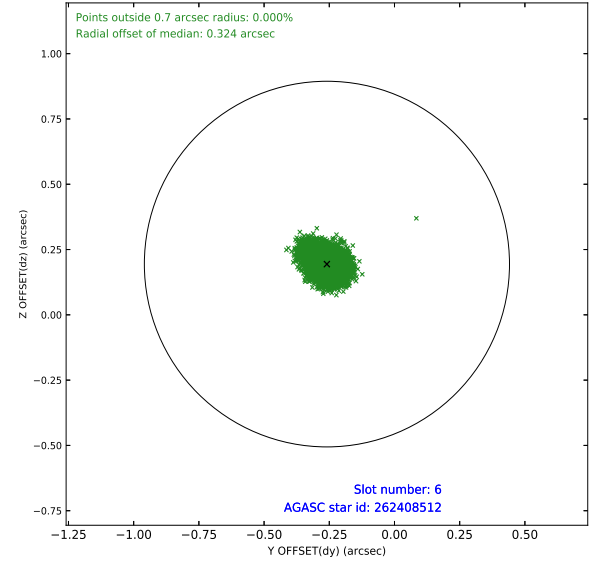
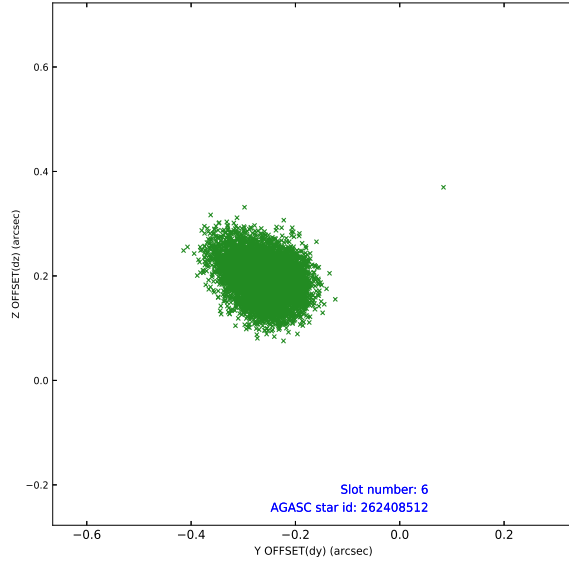
2.4.2 Slot 4



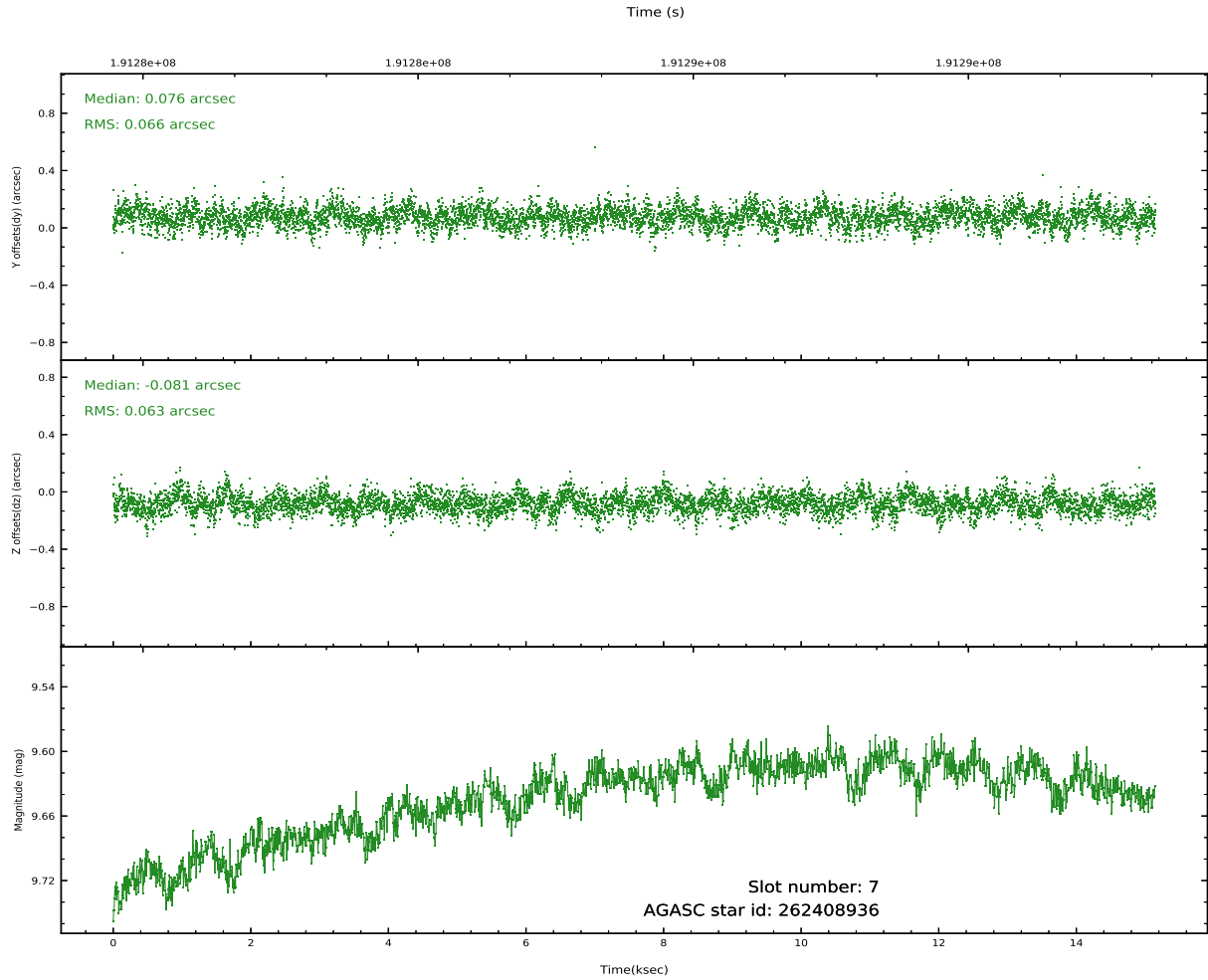
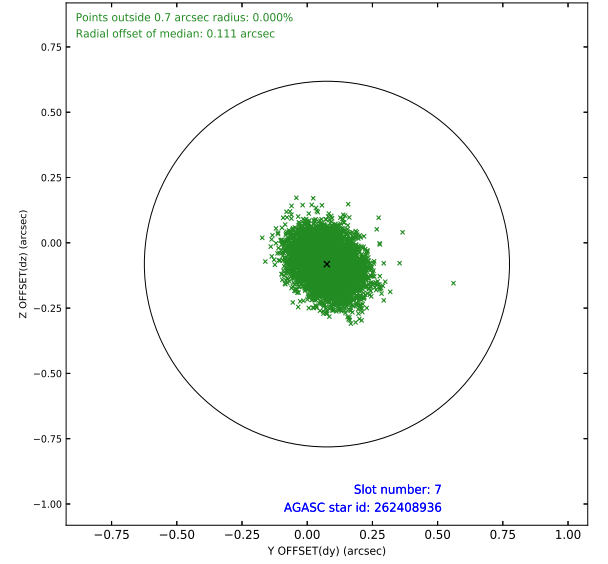
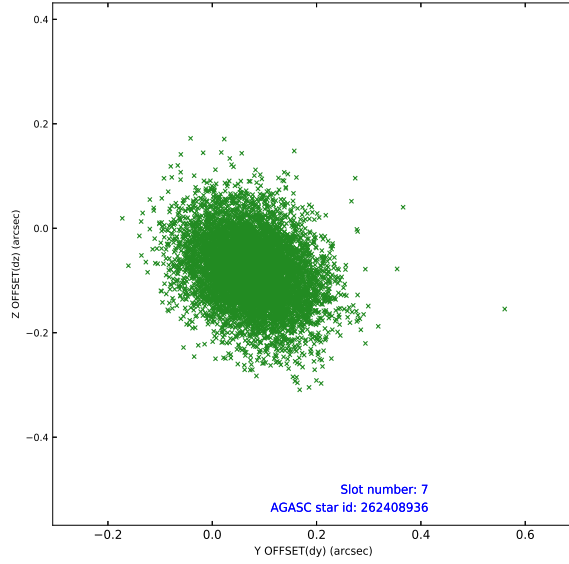
2.4.3 Slot 5



2.4.4 Slot 6

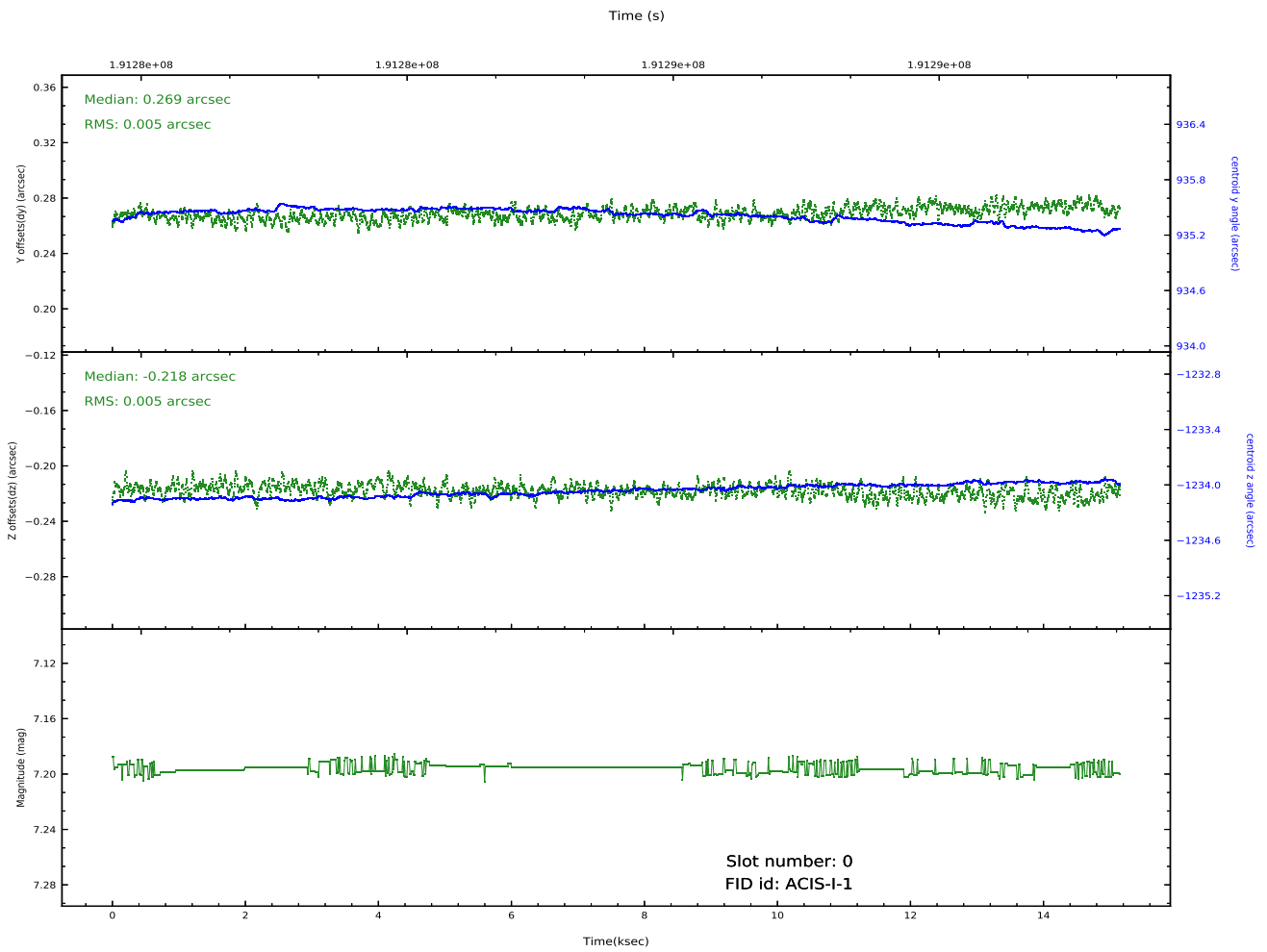
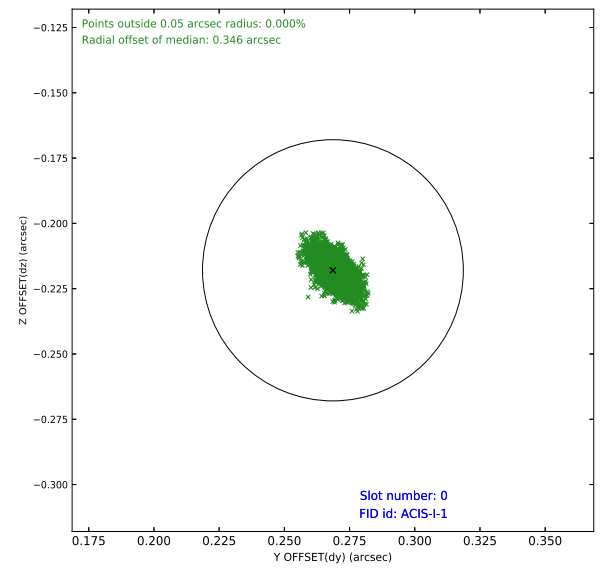
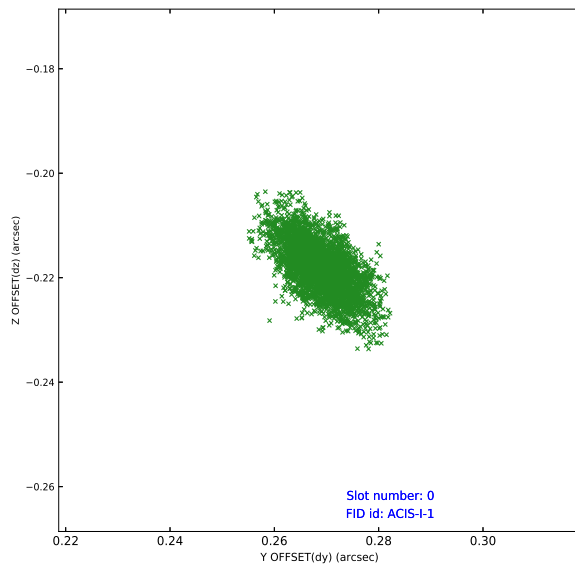


2.4.5 Slot 7

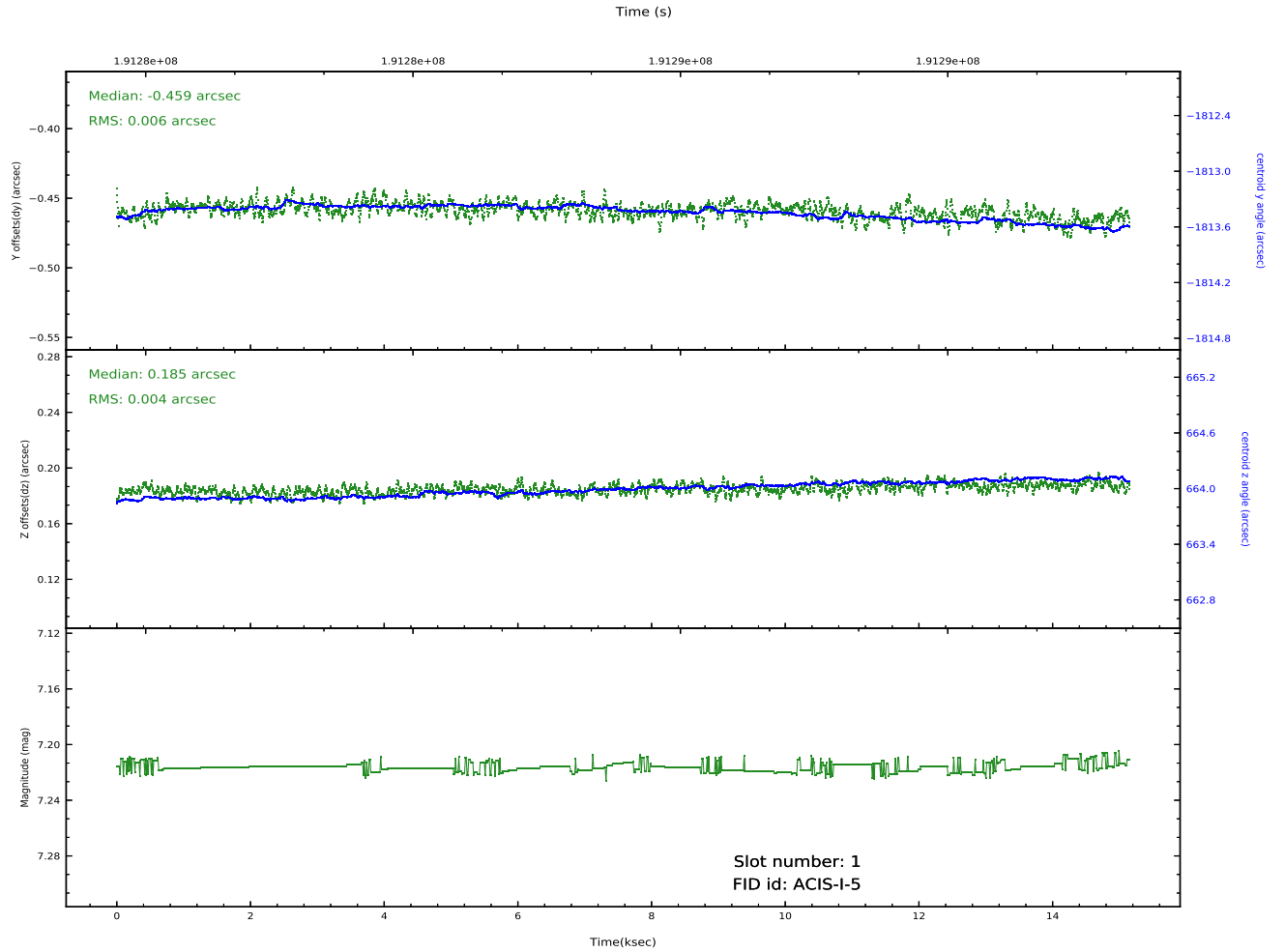
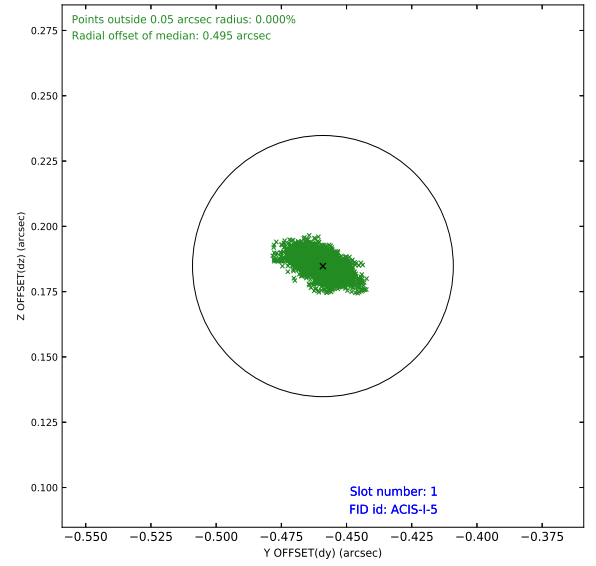
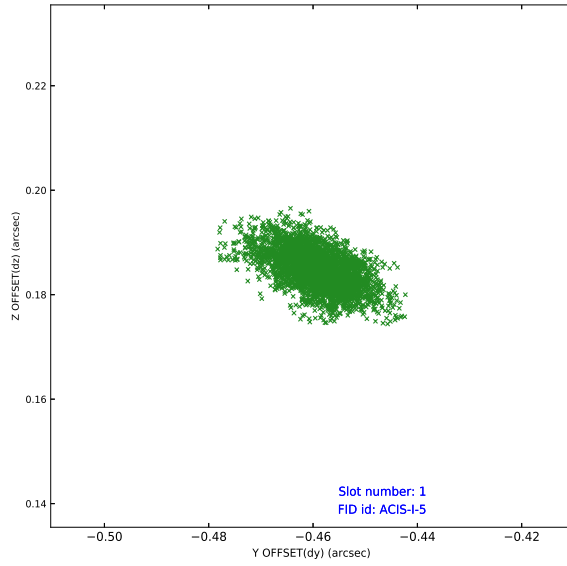


2.5 FID Slots

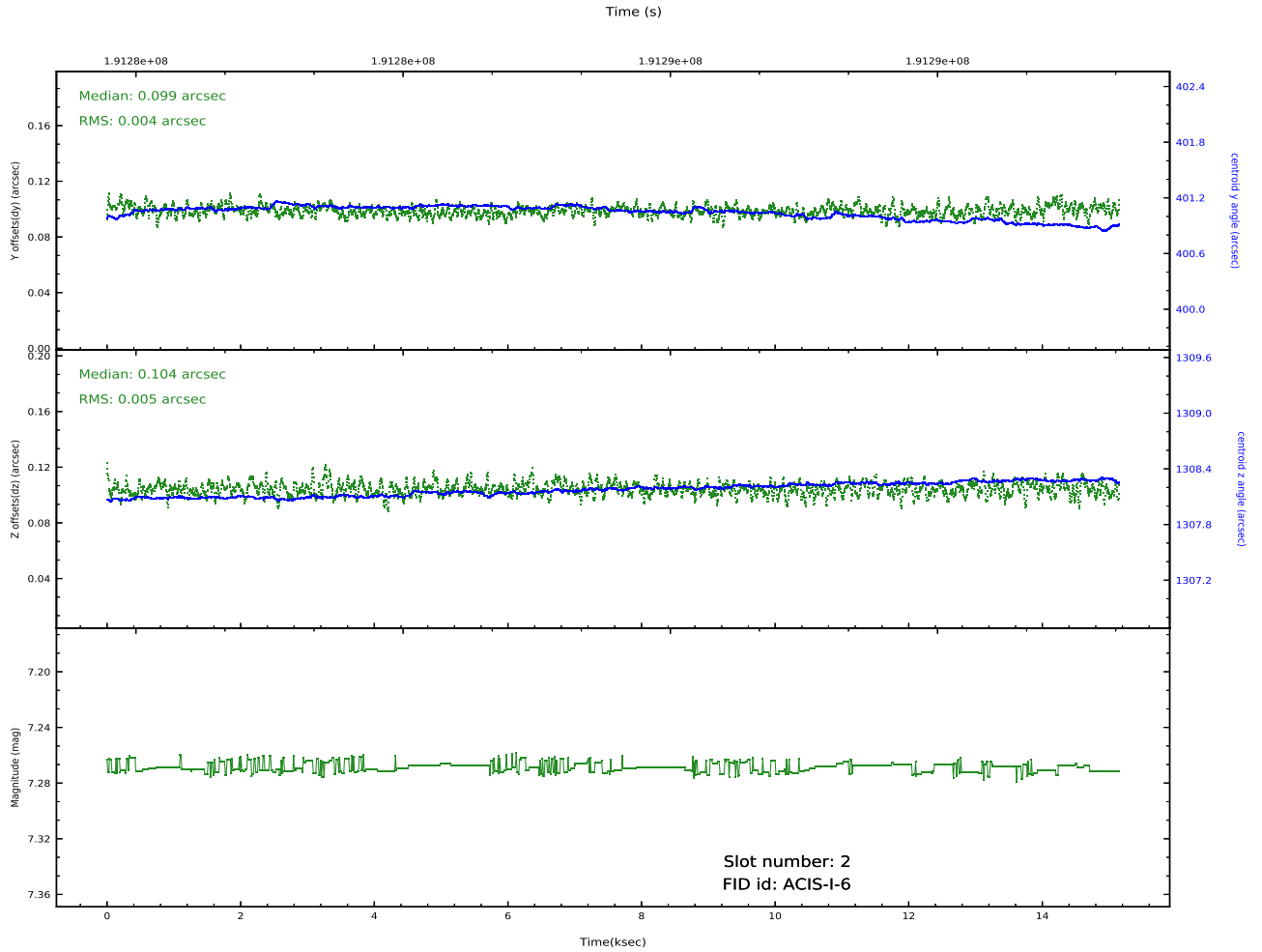
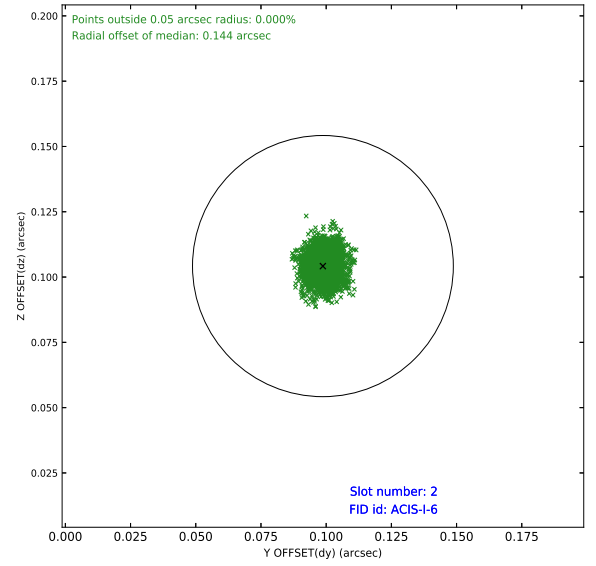
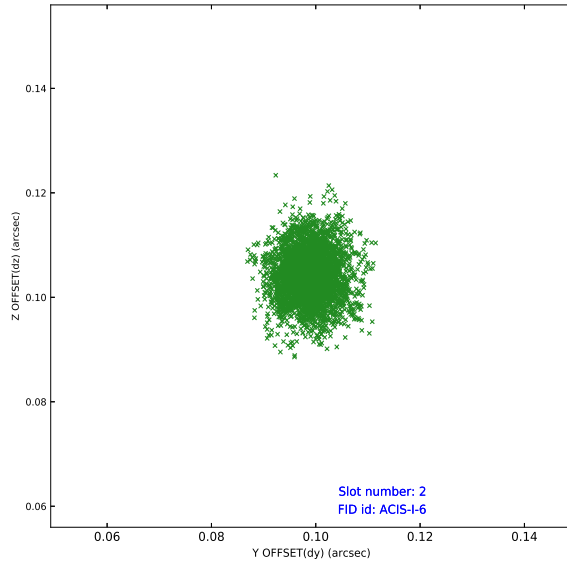
2.5.1 Slot 0



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)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.143

A.2 Comments