

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4993 - L2 Version 4
Chandra X-Ray Center

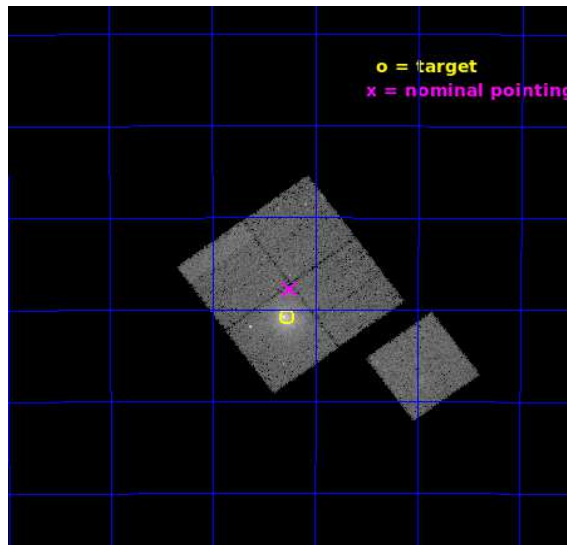
L2 Processing Date : Sep 26 2020

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1 Front

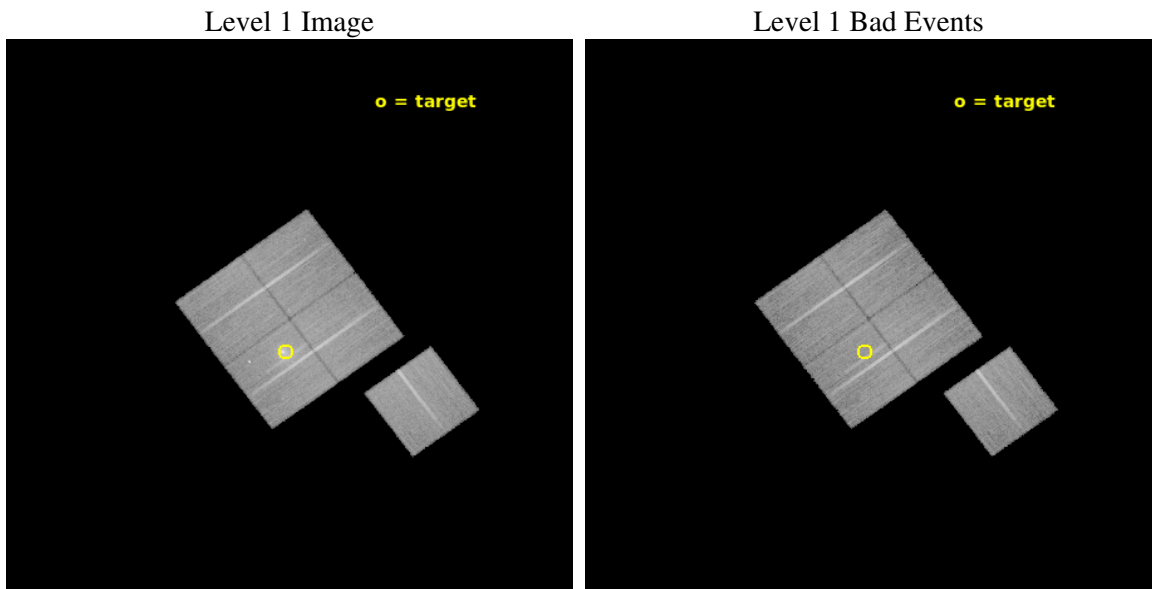
seq_num	800436	Sequence number
obs_id	4993	Observation id
title	Studying the effect of merging clusters in cosmological cluster samples	Proposal title
observer	Prof. Hans Boehringer	Principal investigator
object	RXCJ0232.2-4420	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	38.07	Observer's specified target RA [deg]
dec_targ	-44.3475	Observer's specified target Dec [deg]
ra_nom	38.0613986524	Nominal RA [deg]
dec_nom	-44.295801910354	Nominal Dec [deg]
roll_nom	143.73327323943	Nominal Roll [deg]
revision	4	Processing version of data
ontime	23710.934905678	Sum of GTIs [s]
livetime	23401.134085399	Livetime [s]
ontime0	23713.95273599	Sum of GTIs [s]
ontime1	23710.85279575	Sum of GTIs [s]
ontime2	23714.034835905	Sum of GTIs [s]
ontime3	23710.934905678	Sum of GTIs [s]
ontime6	23707.629805267	Sum of GTIs [s]
l2events	120226	Number of level 2 events



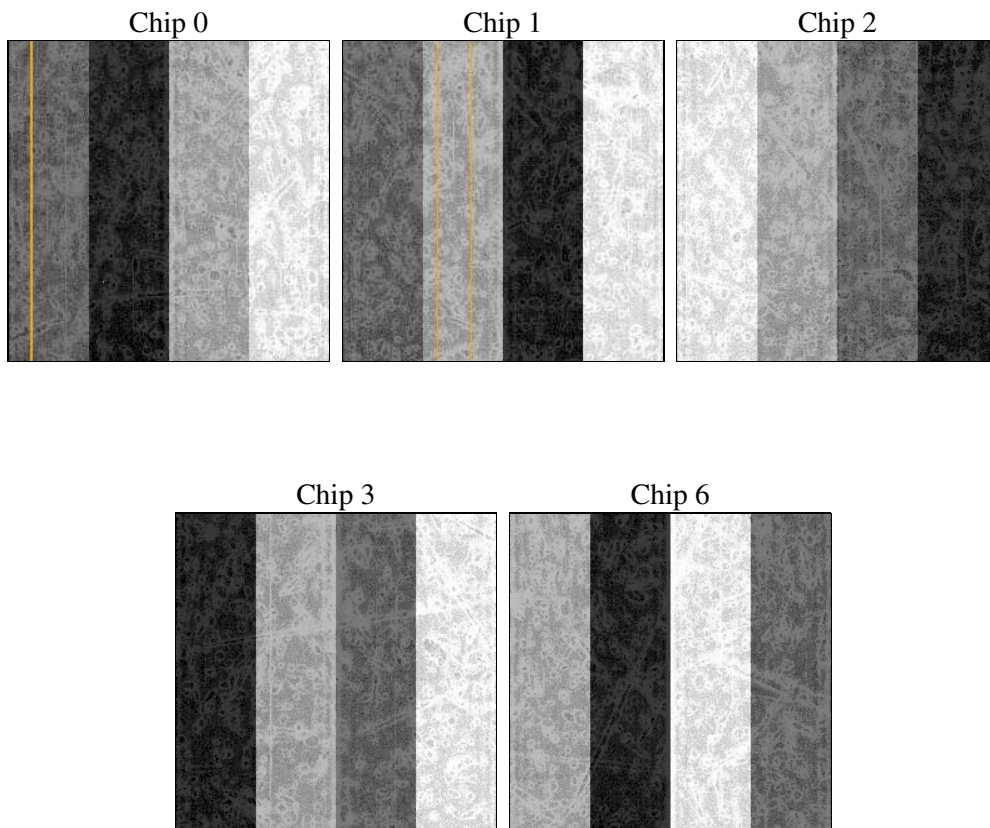
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23940.279000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	23710.934905678	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	23713.95273599	Sum of GTIs [s]
date	2020-09-26T11:42:39	Date and time of file creation	ontime1	23710.85279575	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	23714.034835905	Sum of GTIs [s]
			ontime3	23710.934905678	Sum of GTIs [s]
			ontime6	23707.629805267	Sum of GTIs [s]
			l1events	785296	Number of level 1 events

2.1.4 Events

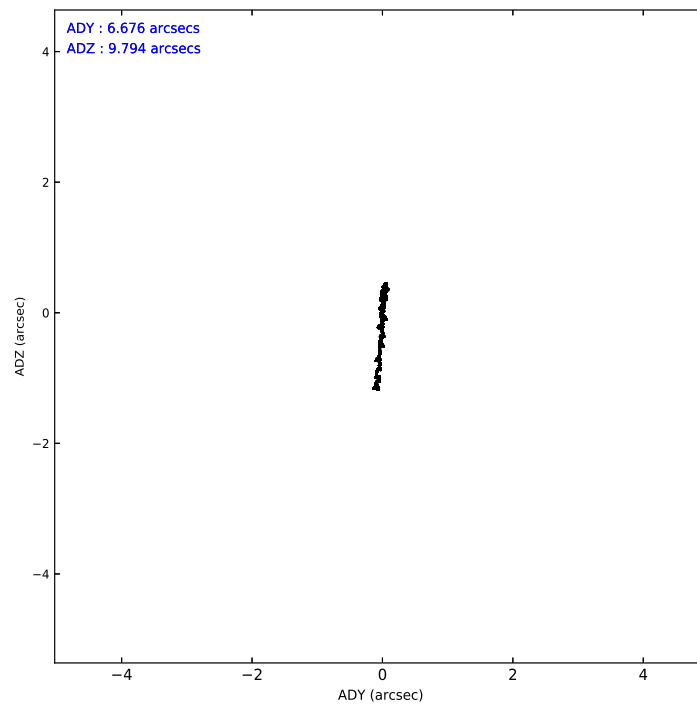
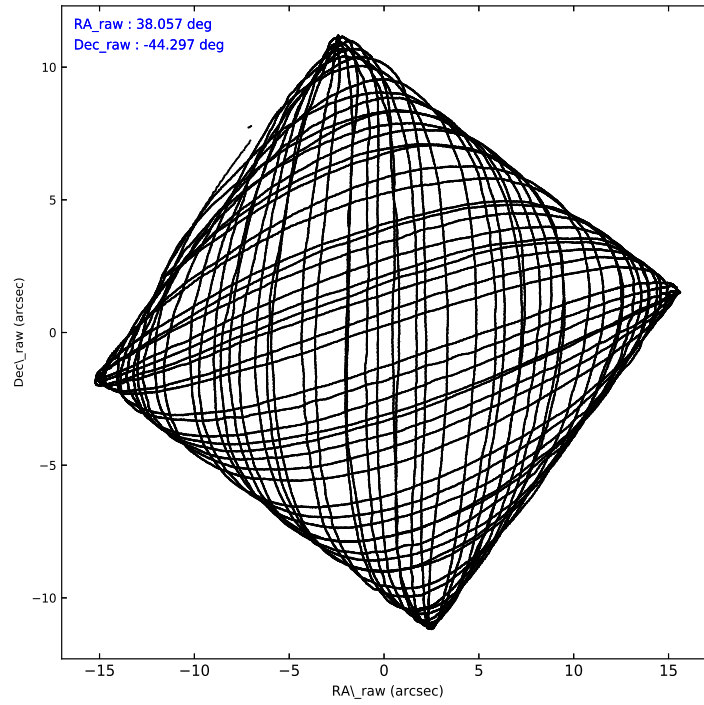
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	144420	148173	160569	176490	155644
rejected events	122201	122796	138350	134513	131369
rejected %	84%	82%	86%	76%	84%

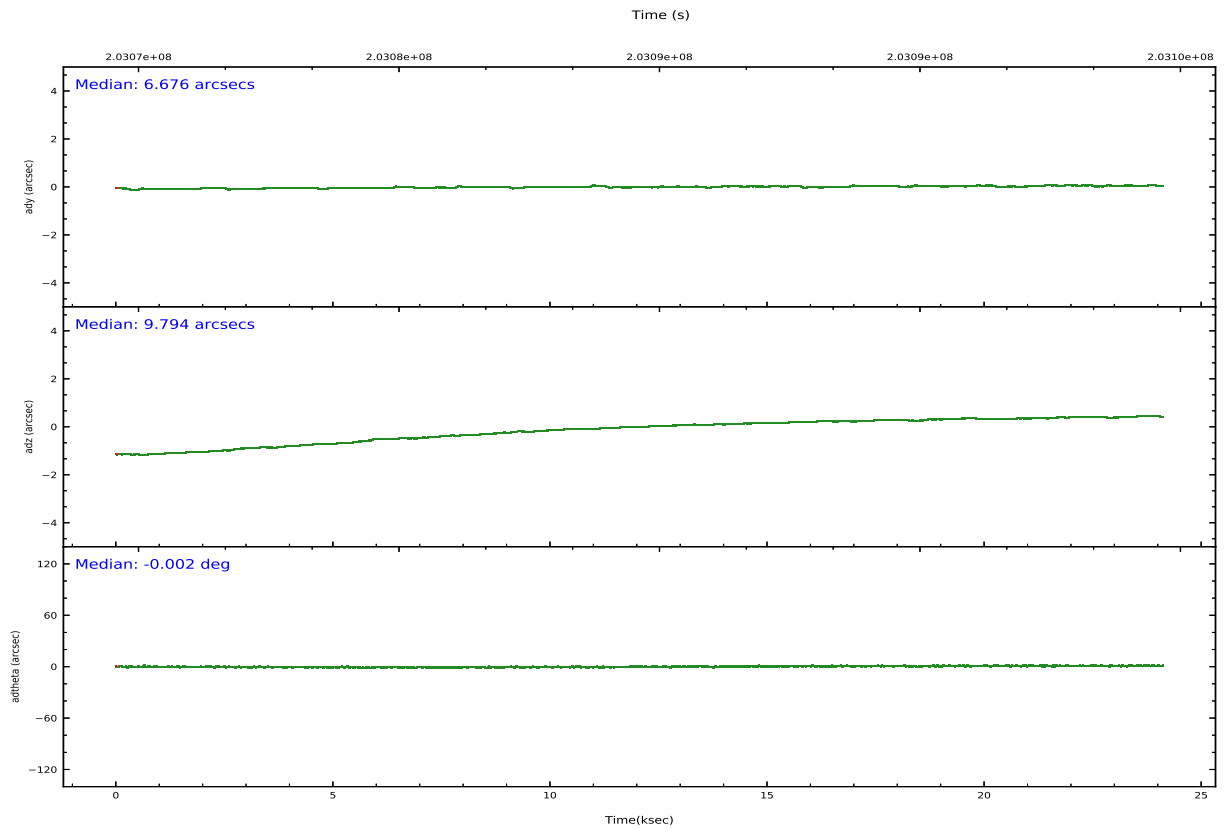
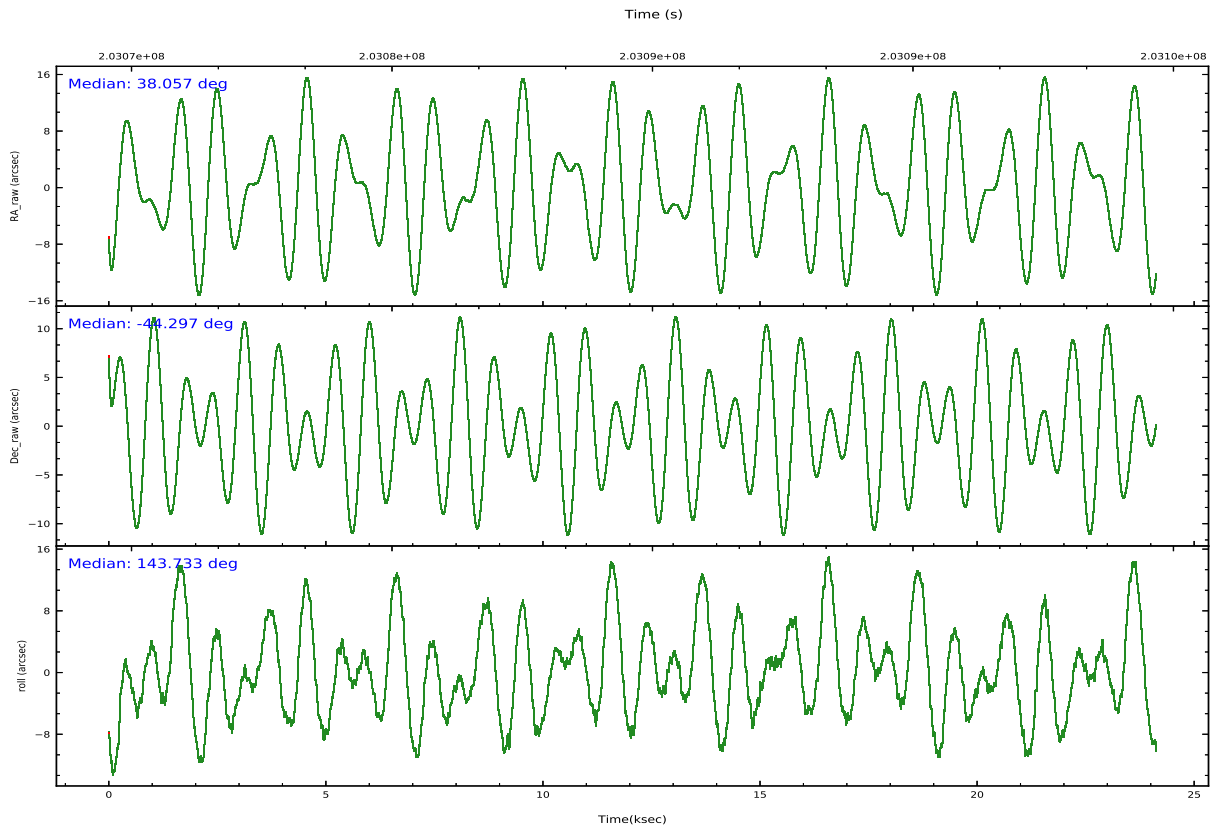
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9774	11891	10229	26764	11516
	6%	8%	6%	15%	7%
grade 1 events	103	91	109	197	97
	0%	0%	0%	0%	0%
grade 2 events	4503	4667	4400	6005	4329
	3%	3%	2%	3%	2%
grade 3 events	1987	2210	1931	2557	2108
	1%	1%	1%	1%	1%
grade 4 events	2032	2202	1987	2520	1973
	1%	1%	1%	1%	1%
grade 5 events	5172	5453	4835	5781	5626
	3%	3%	3%	3%	3%
grade 6 events	3927	4411	3678	4136	4354
	2%	2%	2%	2%	2%
grade 7 events	116922	117248	133400	128530	125641
	80%	79%	83%	72%	80%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	38.094955	38.0613986524	Subarray requested	NONE	NONE
[deg] Pointing Dec	-44.299775	-44.295801910354	Alternating exposures requested	N	N
[deg] Pointing Roll	143.554502	143.73327323943	[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	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	203073662.184000	203072700.2524			
Observation start date	2004-06-08T09:19:58	2004-06-08T09:05:00			
[s] Observation end time (MET)	203097602.184000	203097842.47852			
Observation end date	2004-06-08T15:58:58	2004-06-08T16:04:02			
Read mode	TIMED	TIMED			

2.3 Aspect





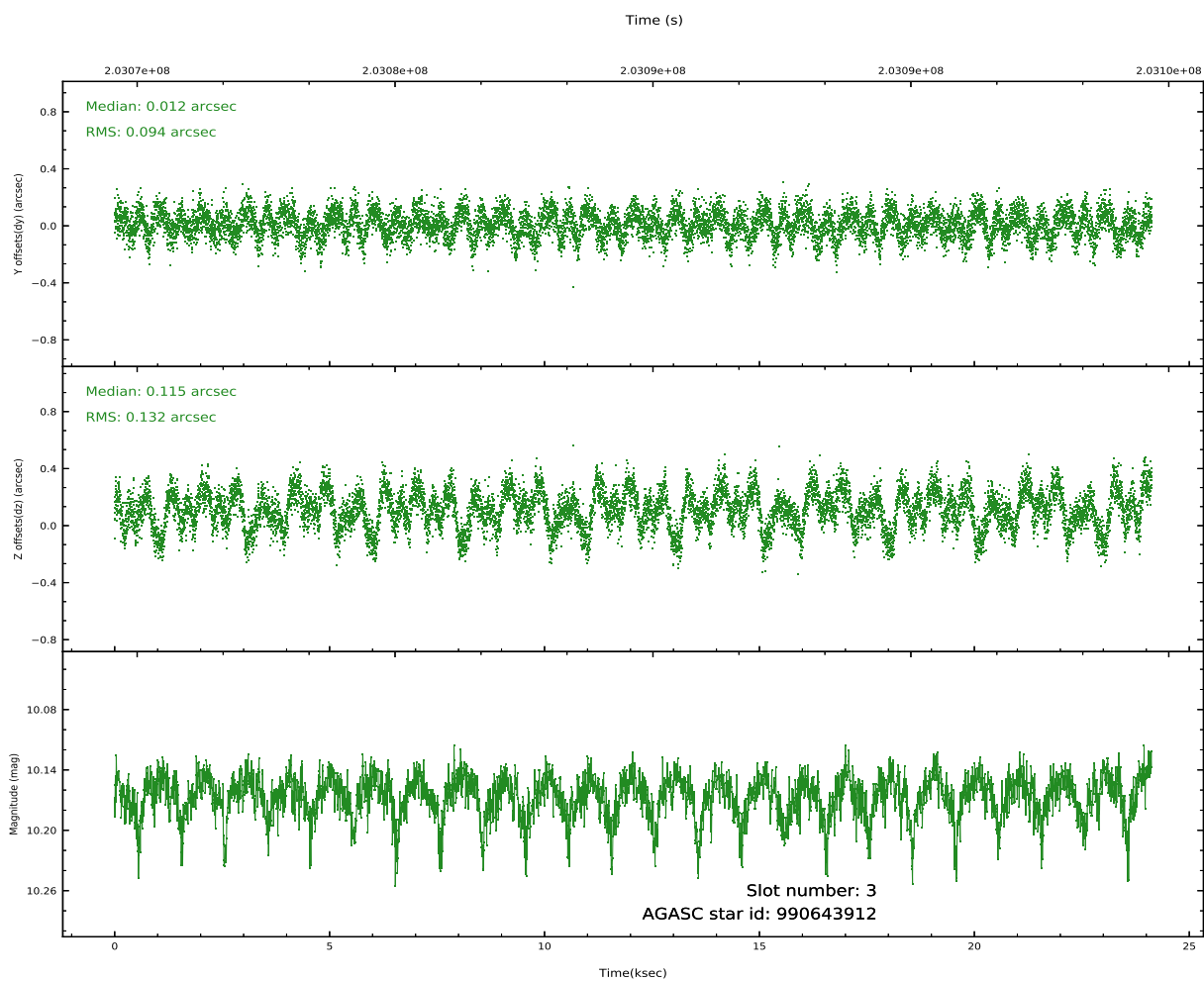
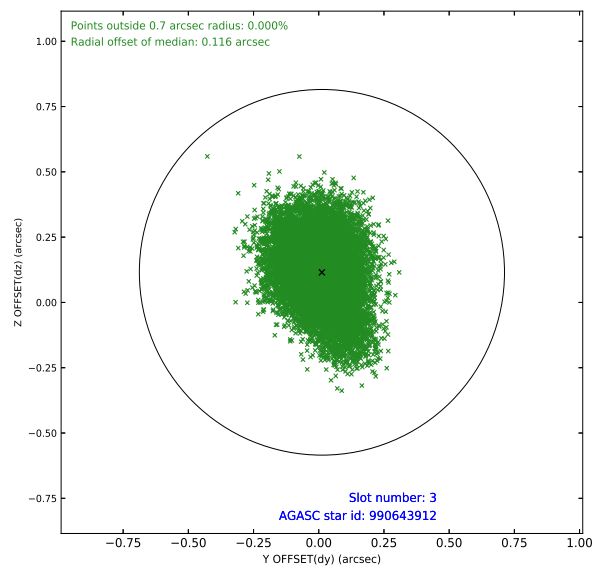
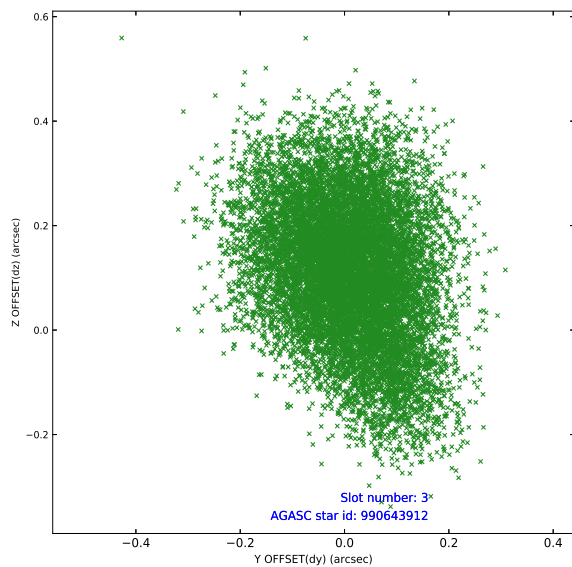
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.24	5885	1.000	0.009	0.008	0.019	0.027	0.000000	0.000000	933.04	-833
1	FID		ACIS-I-5	7.23	5884	1.000	-0.183	0.022	0.007	0.012	0.000000	0.000000	-1815.21	1064
2	FID		ACIS-I-6	7.25	5885	1.000	0.083	0.042	0.017	0.033	0.000000	0.000000	398.50	1709
3	GUIDE	used	990643912	10.16	11754	1.000	0.012	0.115	0.173	0.283	38.170524	-44.077387	318.56	-759
4	GUIDE	used	990643968	9.73	11765	1.000	0.050	0.022	0.102	0.165	37.151123	-44.228388	2102.63	1250
5	GUIDE	used	990645552	9.37	11765	1.000	-0.005	-0.072	0.098	0.153	37.724628	-44.444938	454.13	987
6	GUIDE	used	990645944	7.90	11764	1.000	-0.256	-0.002	0.058	0.096	37.210371	-44.115409	2225.96	834
7	GUIDE	used	990646344	9.90	11750	1.000	0.199	-0.059	0.116	0.189	38.142512	-44.810948	-1190.57	1408

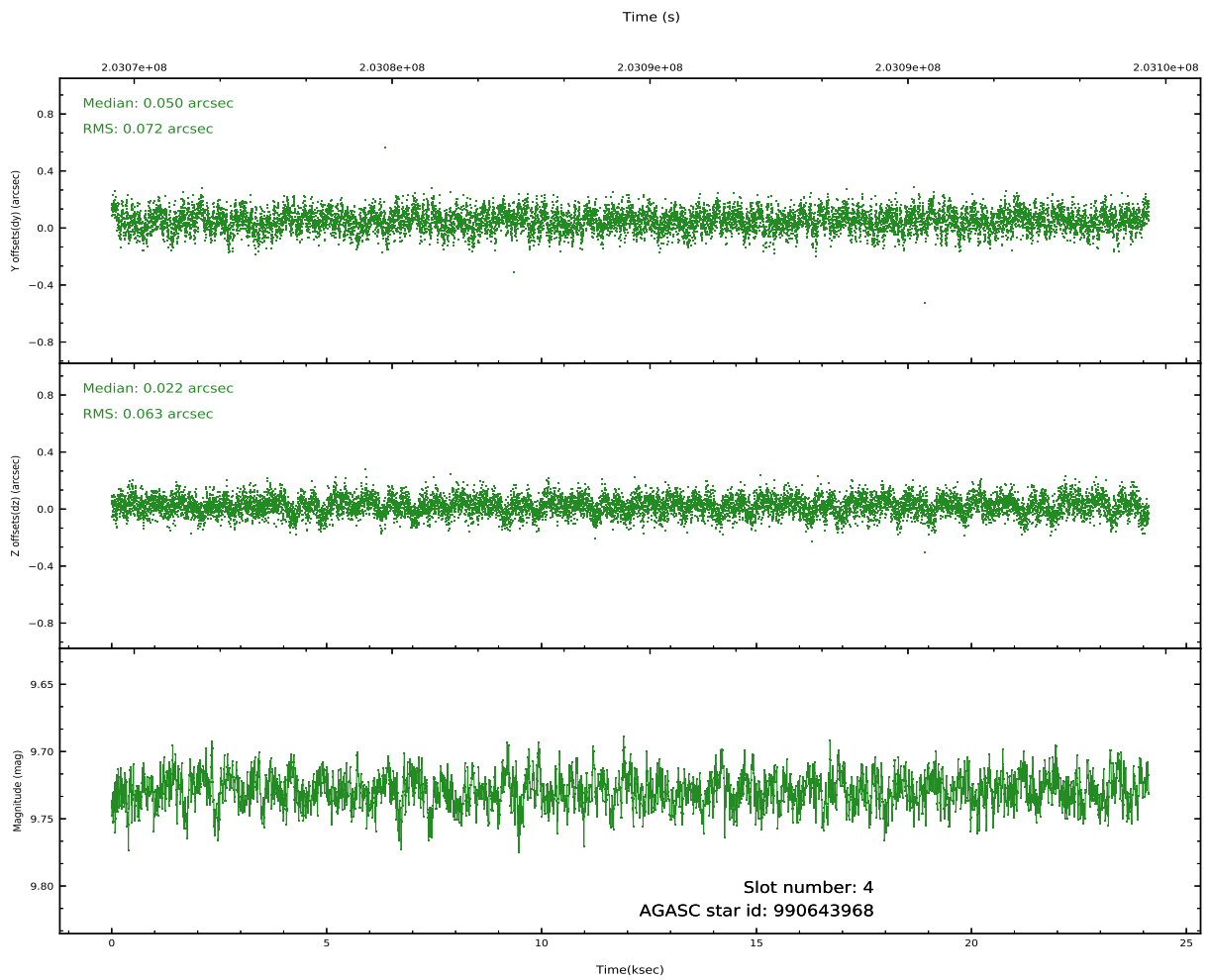
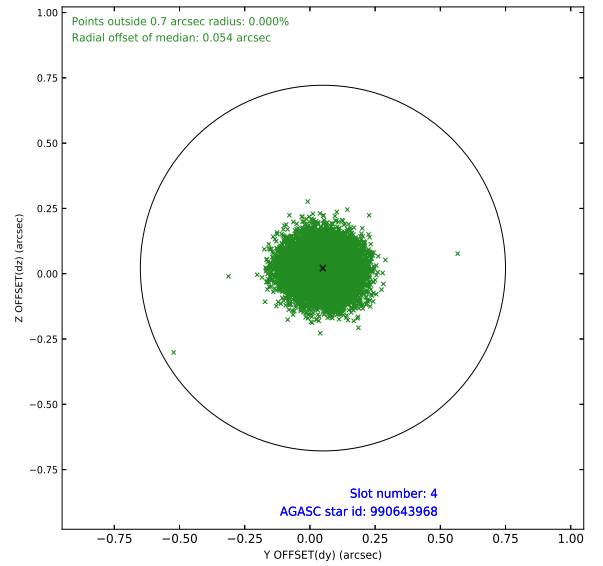
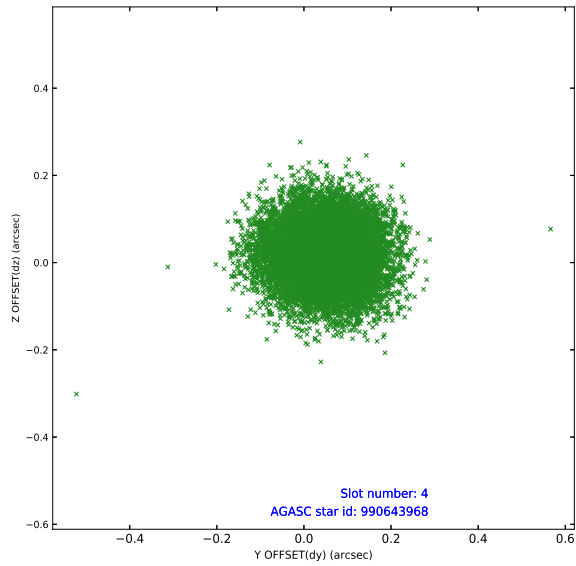
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2.4 Star Slots

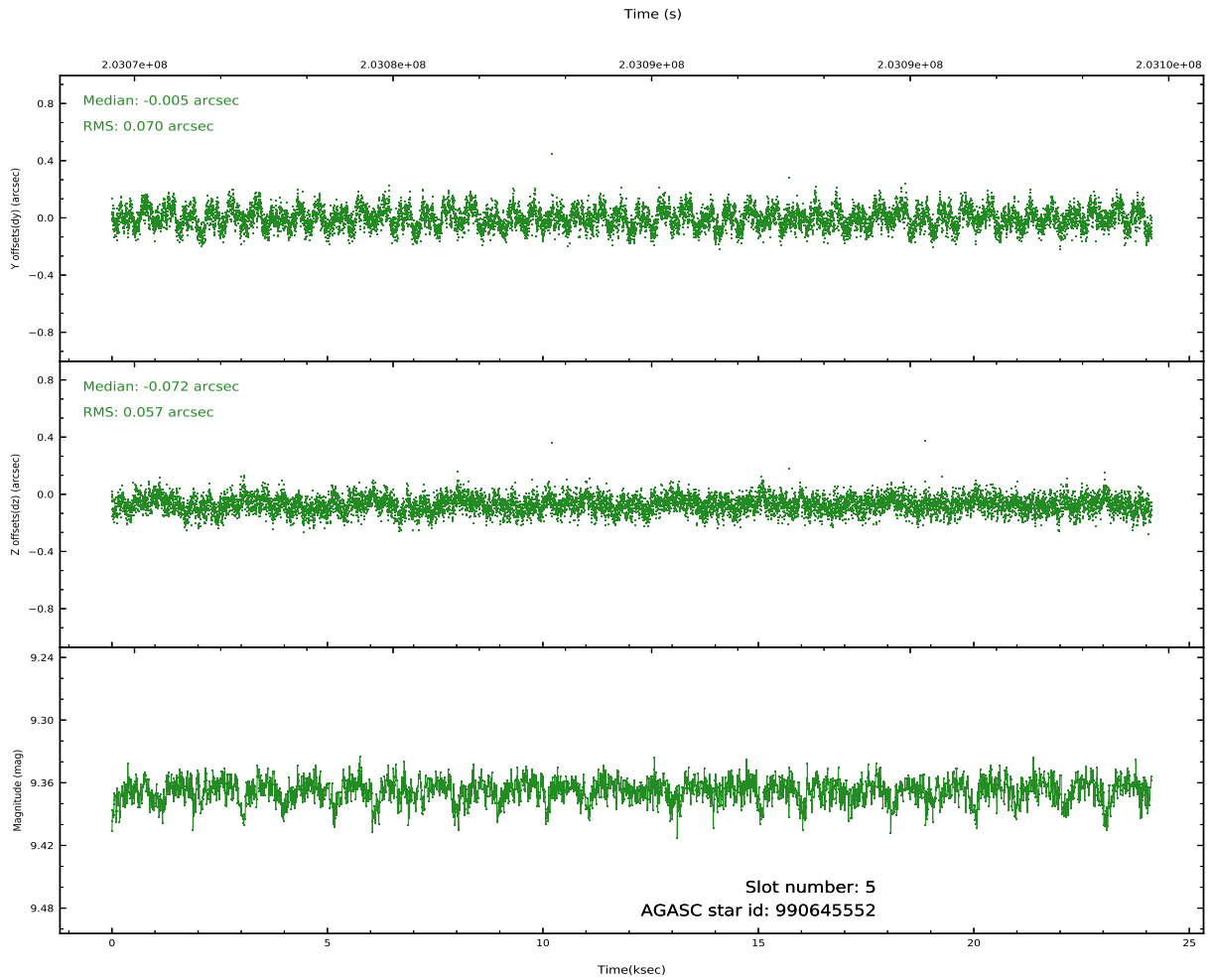
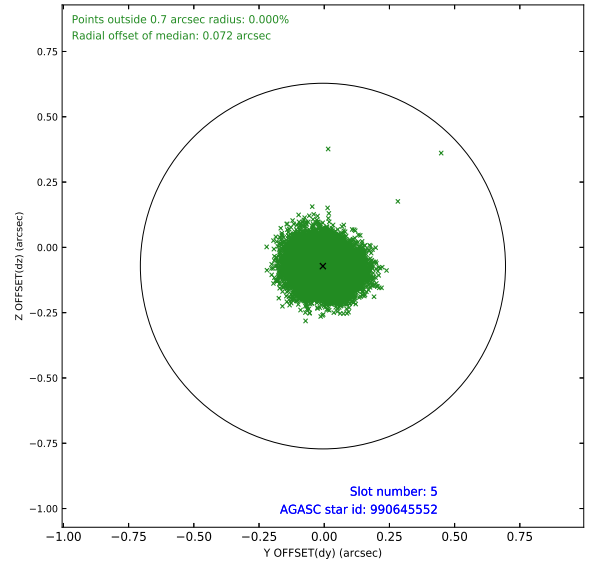
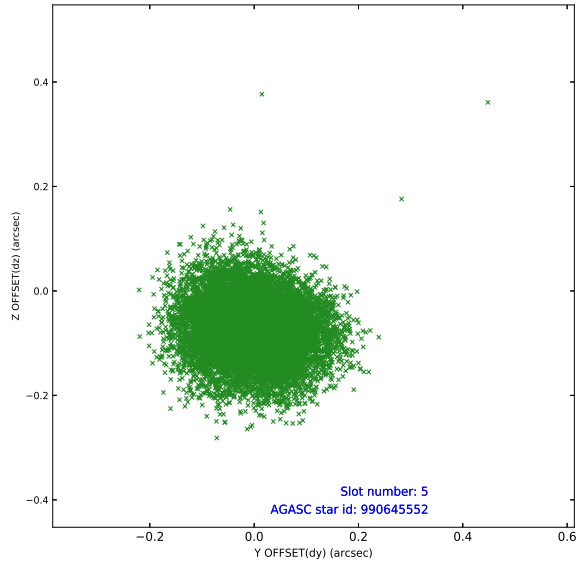
2.4.1 Slot 3



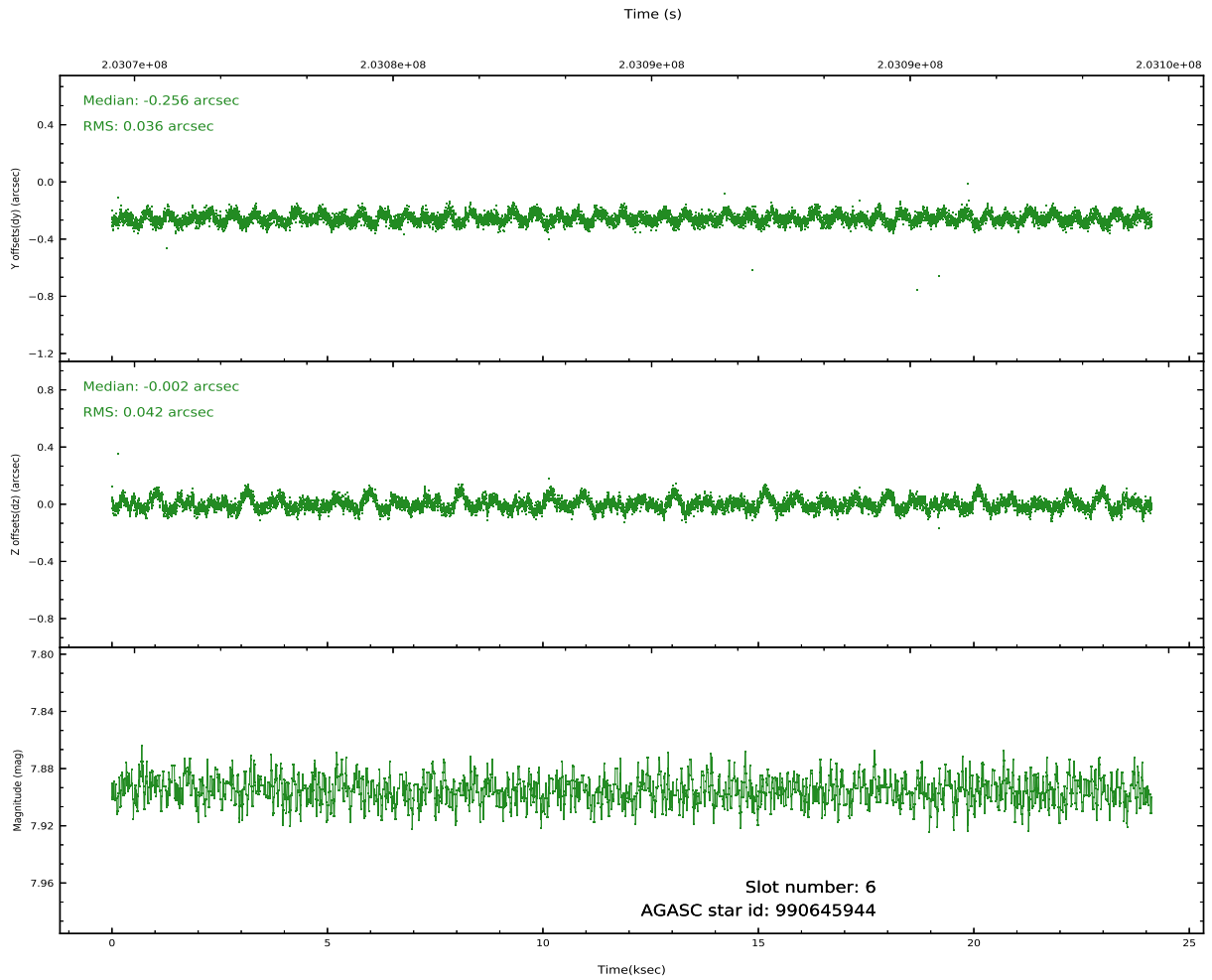
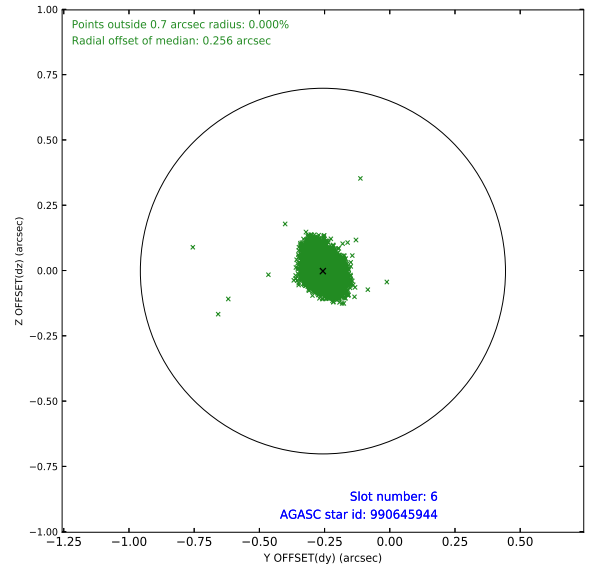
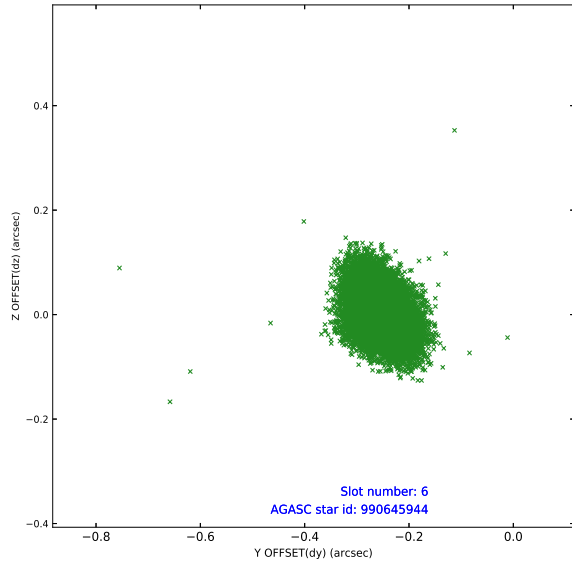
2.4.2 Slot 4



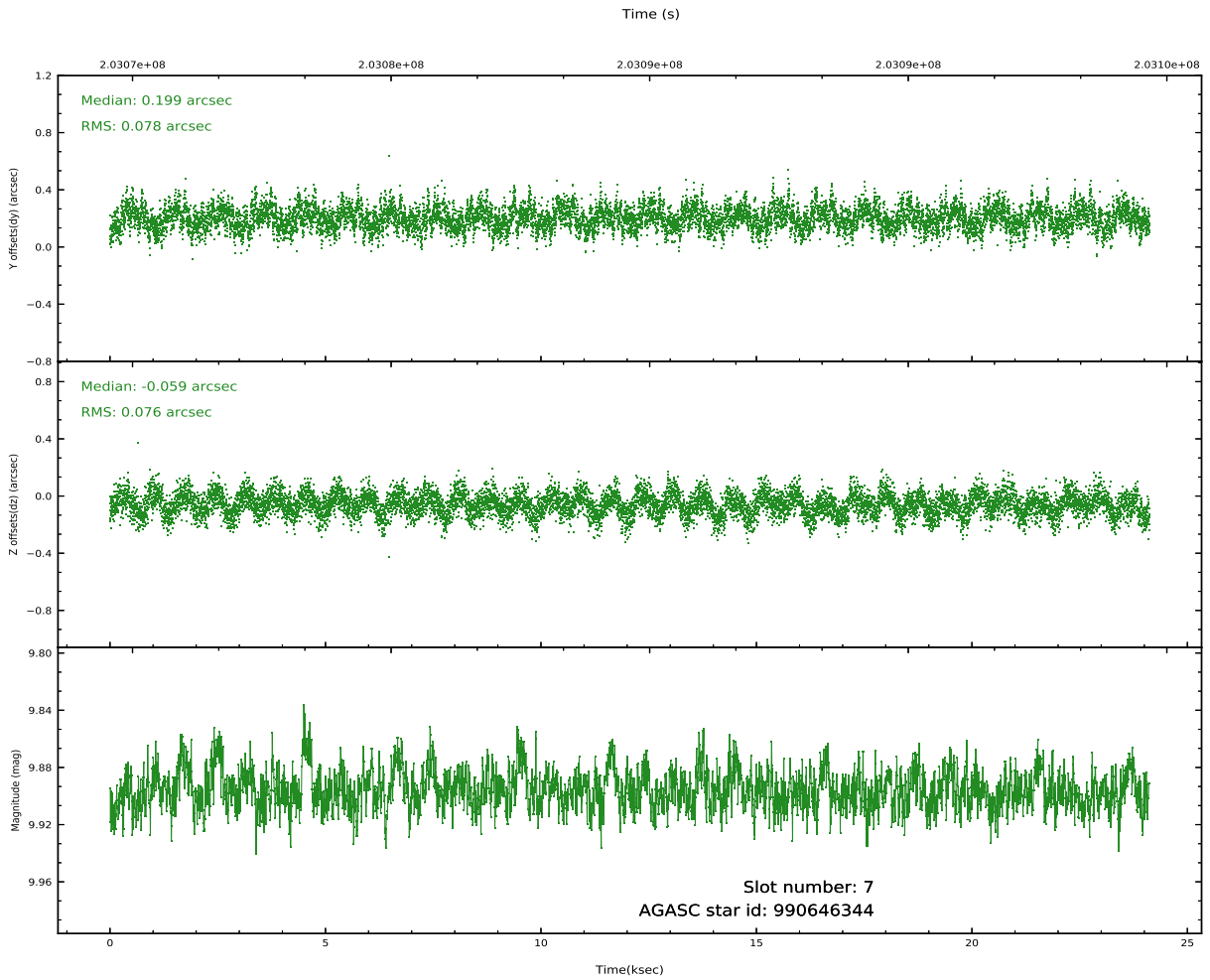
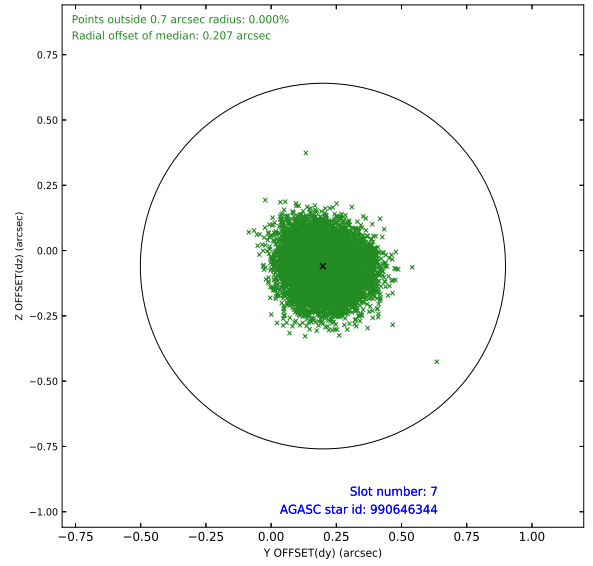
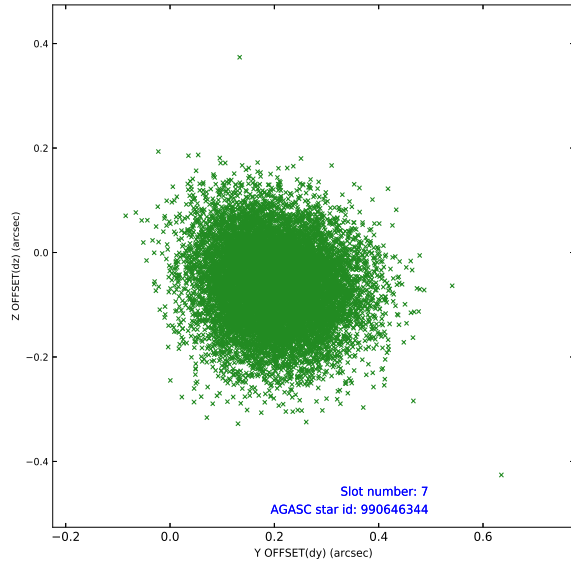
2.4.3 Slot 5



2.4.4 Slot 6

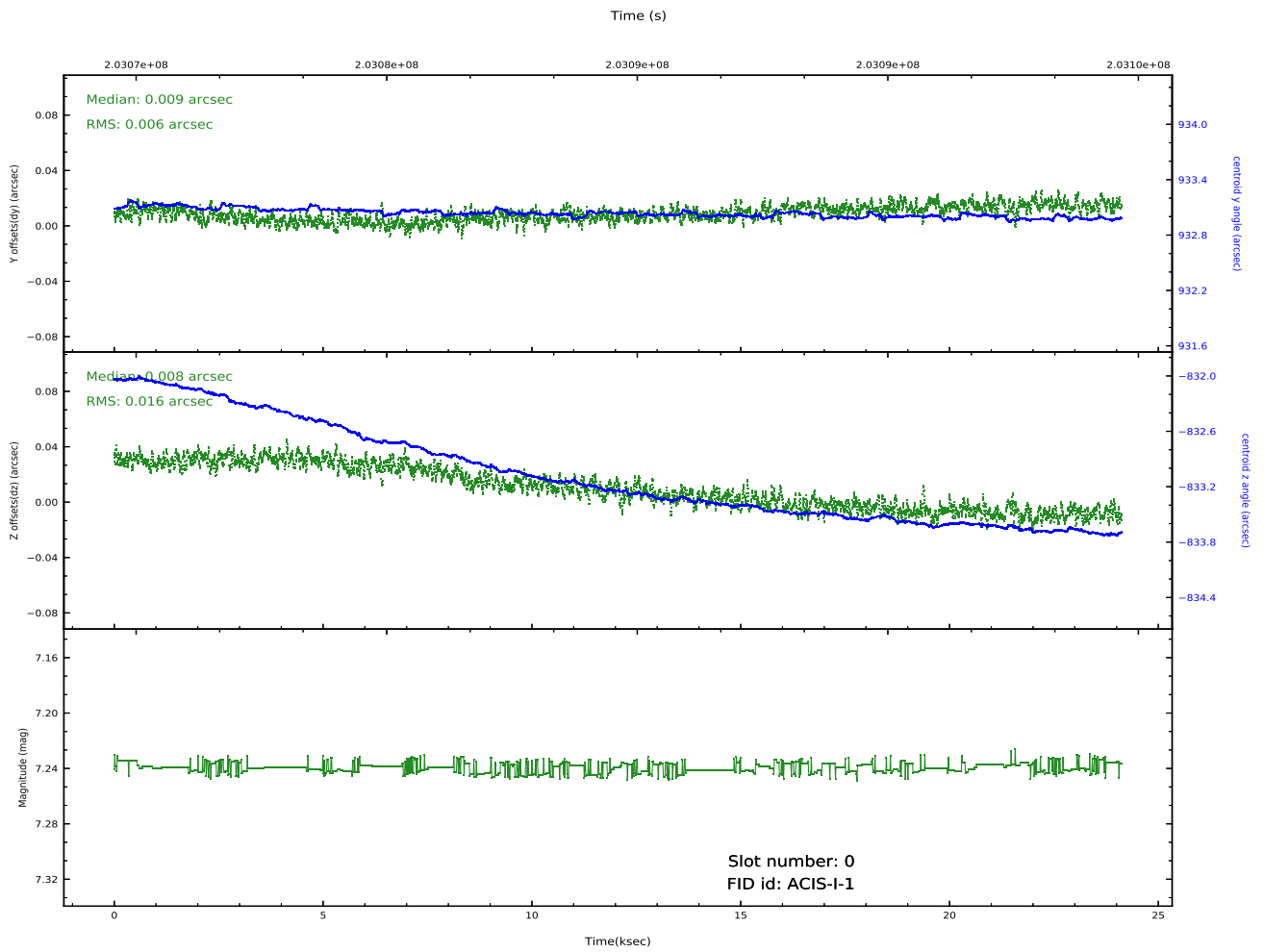
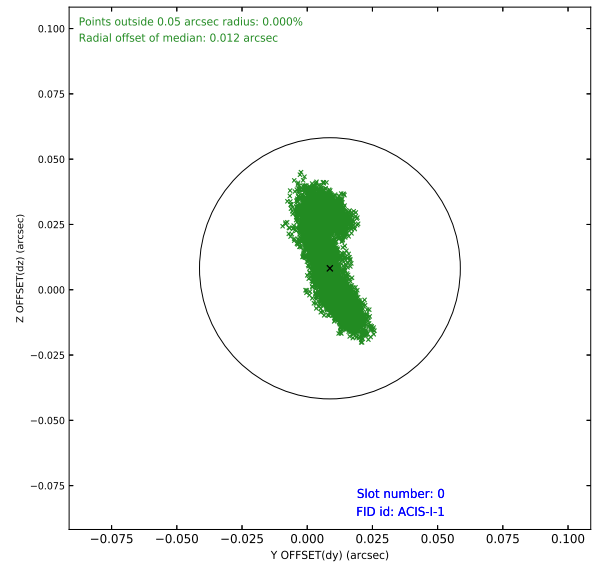
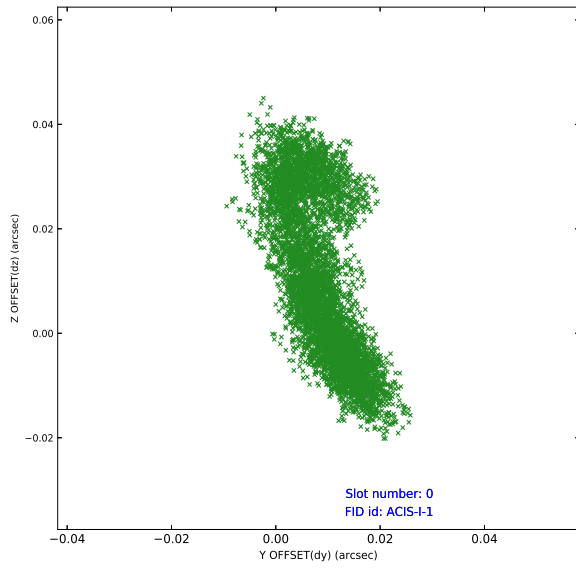


2.4.5 Slot 7

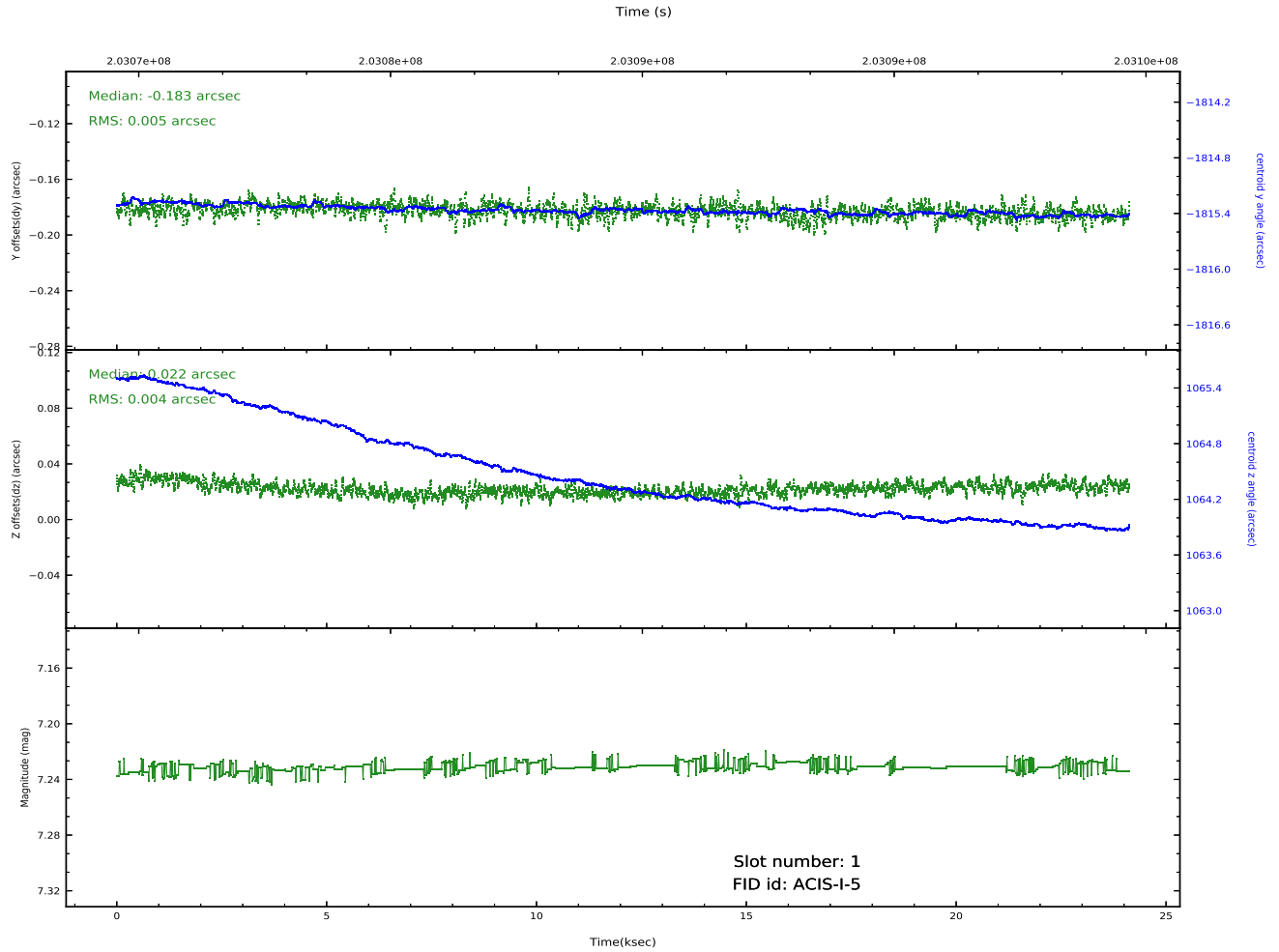
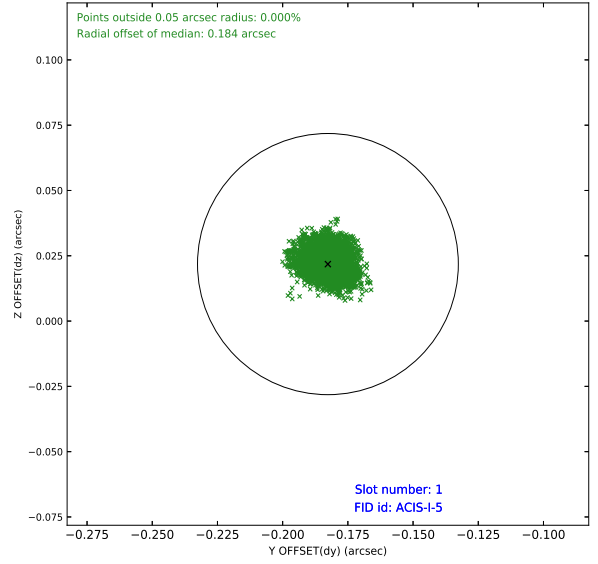
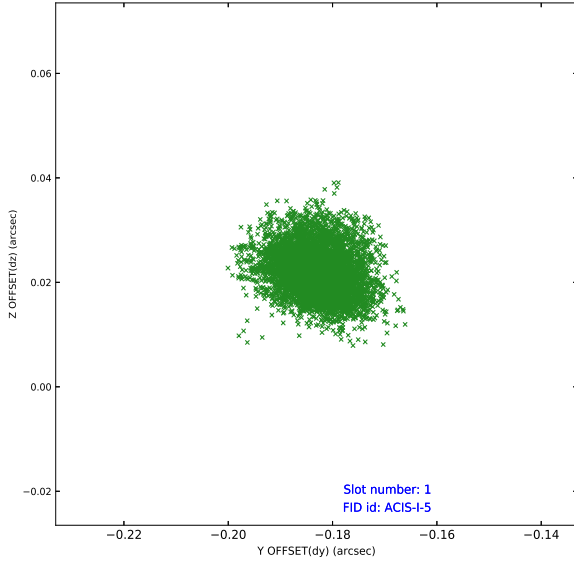


2.5 FID Slots

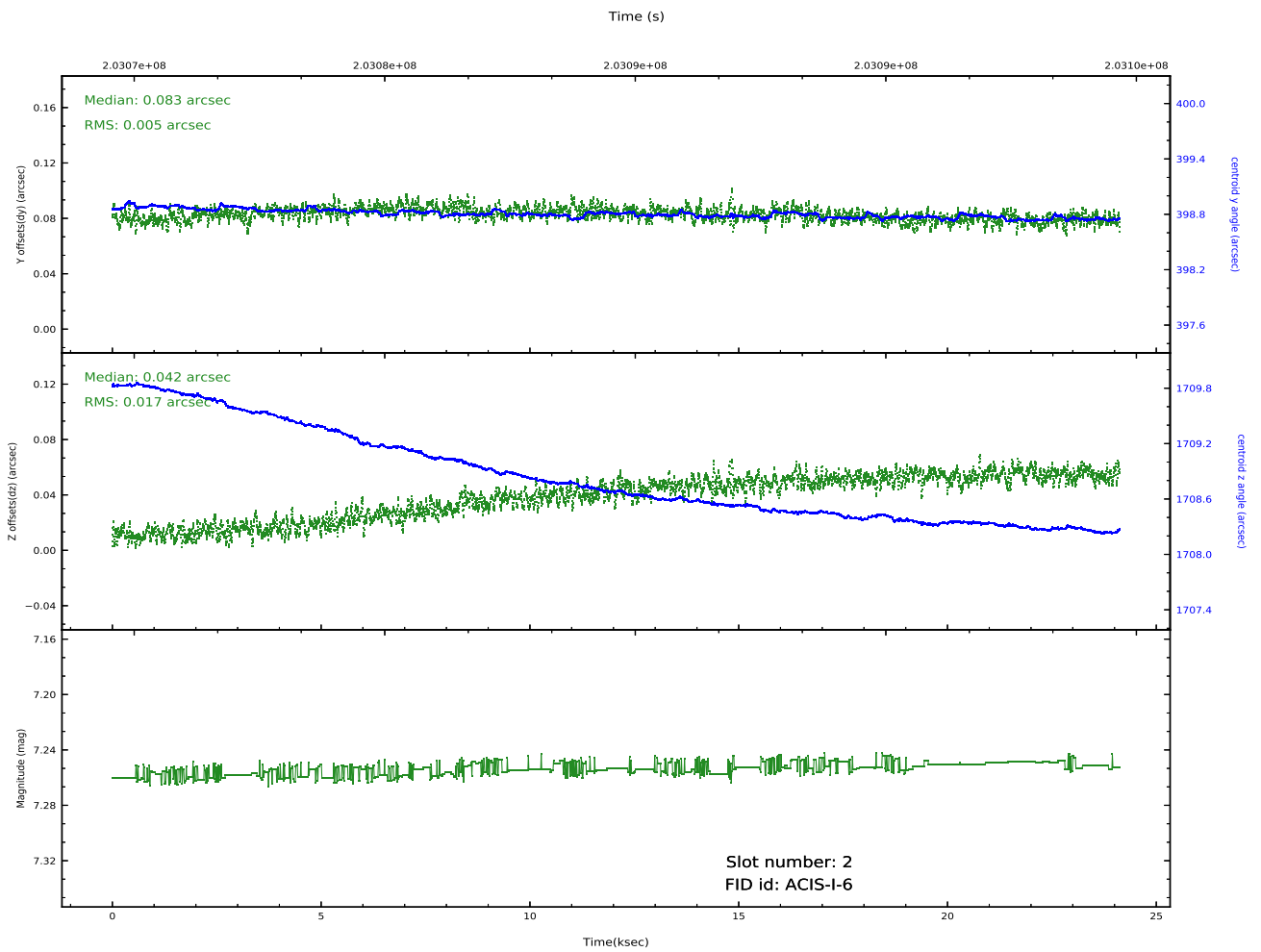
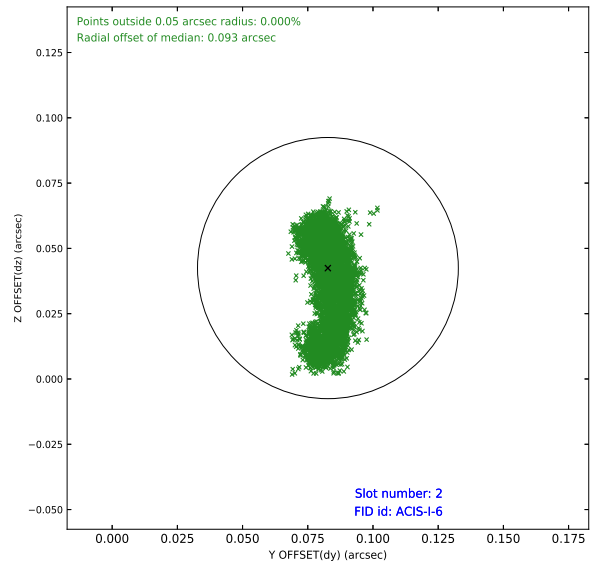
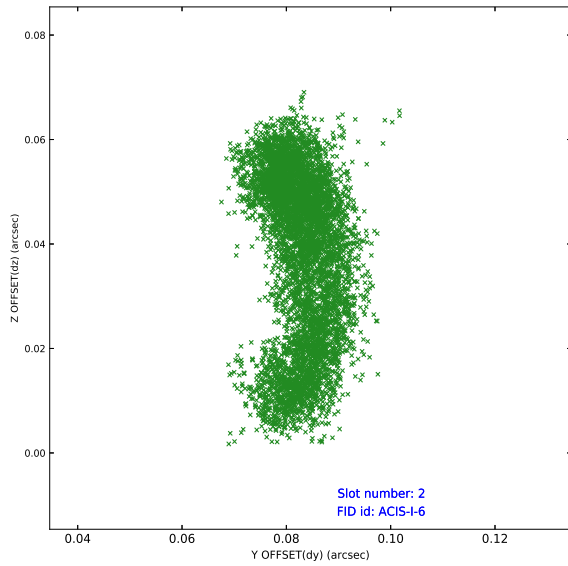
2.5.1 Slot 0



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)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.711

A.2 Comments