

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20537 - L2 Version 2
Chandra X-Ray Center

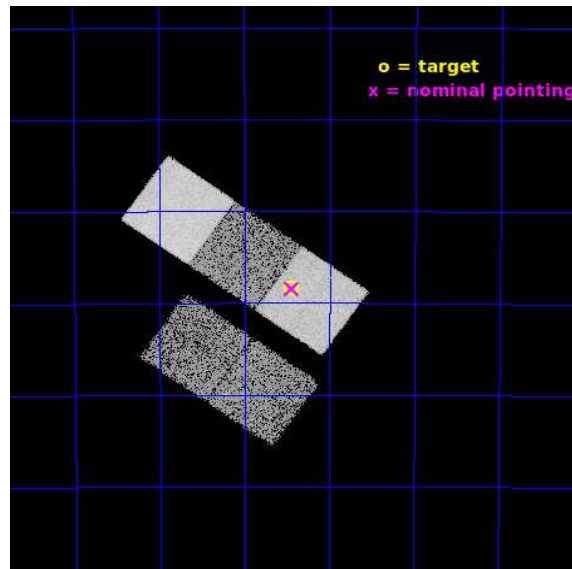
L2 Processing Date : Oct 27 2020

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

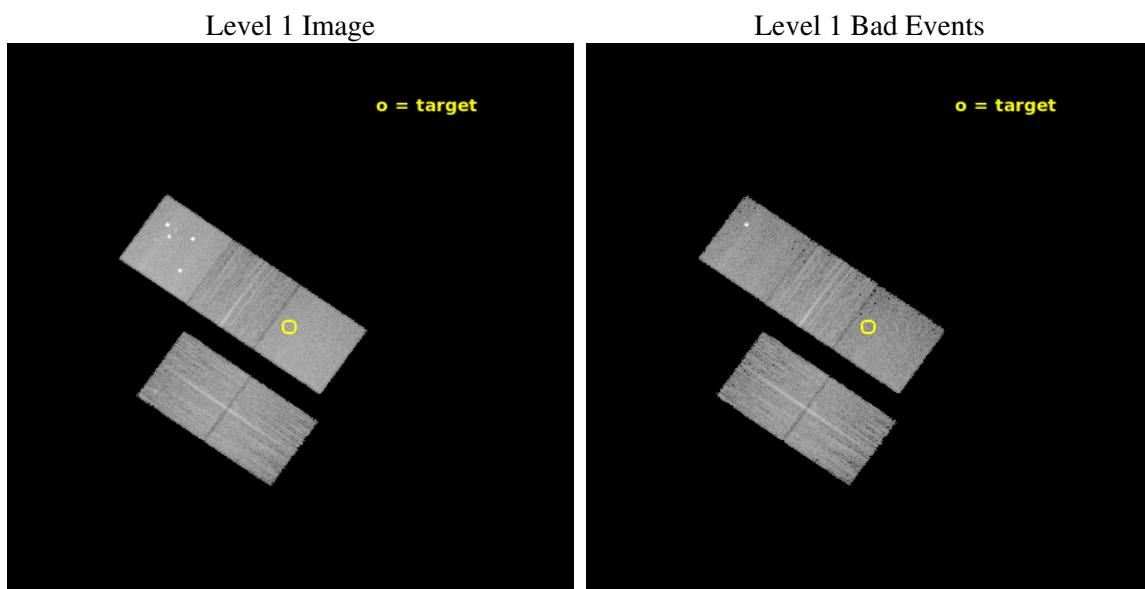
seq_num	801751	Sequence number
obs_id	20537	Observation id
title	Building a complete sample of $z > 1$ XXL galaxy clusters	Proposal tit
observer	Ben Maughan	Principal investigator
object	XXL-S0005	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	349.110833	Observer's specified target RA [deg]
dec_targ	-53.639	Observer's specified target Dec [deg]
ra_nom	349.11088949764	Nominal RA [deg]
dec_nom	-53.640485479808	Nominal Dec [deg]
roll_nom	35.156165977979	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10053.280392766	Sum of GTIs [s]
livetime	9921.9268833172	Livetime [s]
ontime2	10053.116232753	Sum of GTIs [s]
ontime3	10050.016222596	Sum of GTIs [s]
ontime5	10053.239352822	Sum of GTIs [s]
ontime6	10050.05726254	Sum of GTIs [s]
ontime7	10053.280392766	Sum of GTIs [s]
l2events	116698	Number of level 2 events



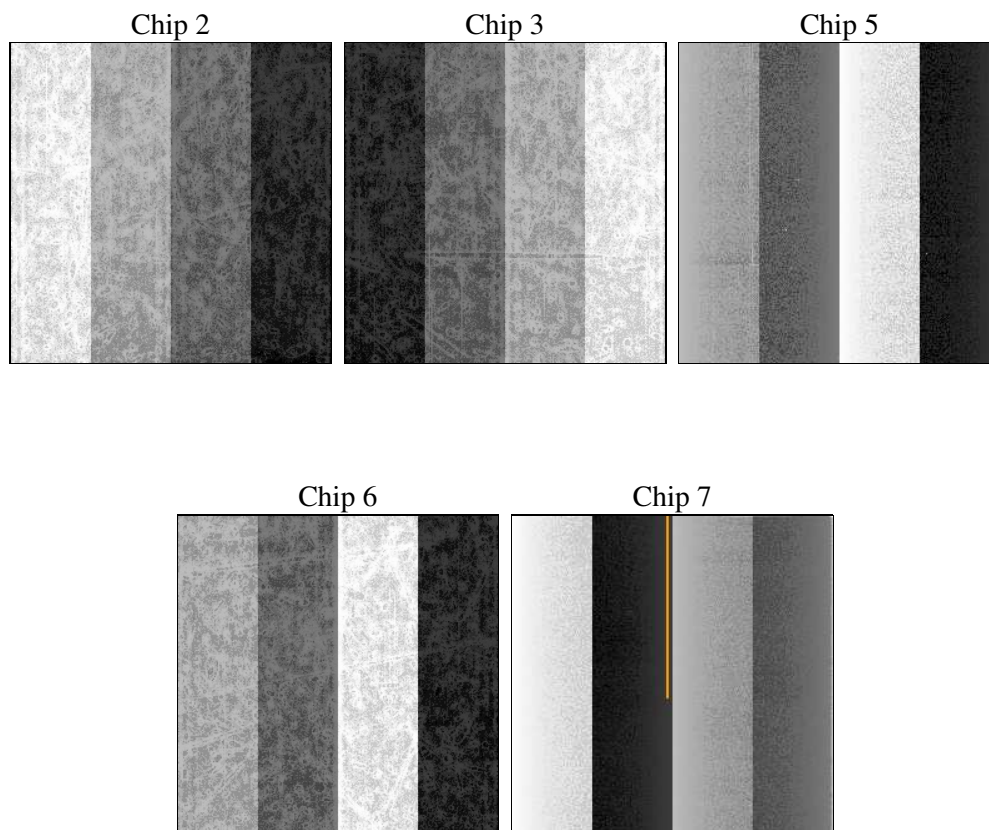
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	10053.280392766	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	10053.116232753	Sum of GTIs [s]
date	2020-10-27T06:23:38	Date and time of file creation	ontime3	10050.016222596	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	10053.239352822	Sum of GTIs [s]
			ontime6	10050.05726254	Sum of GTIs [s]
			ontime7	10053.280392766	Sum of GTIs [s]
			l1events	463236	Number of level 1 events

2.1.4 Events

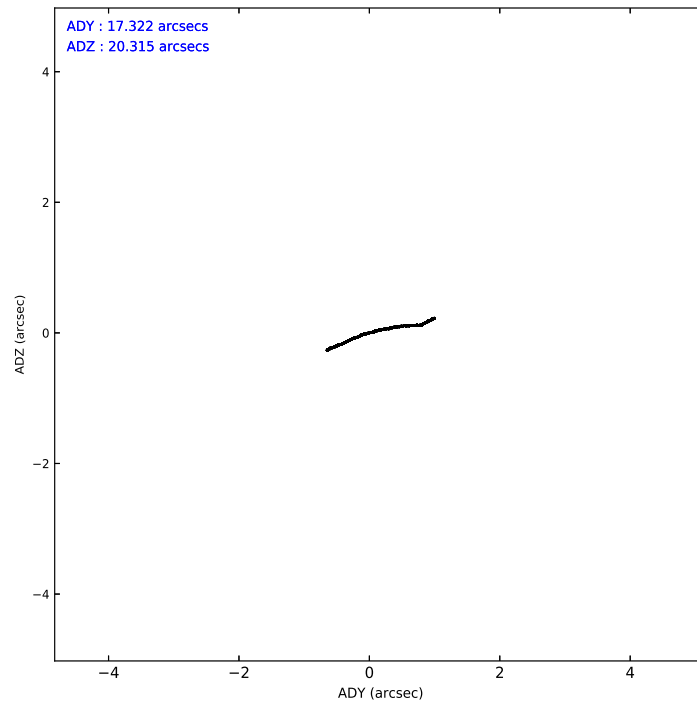
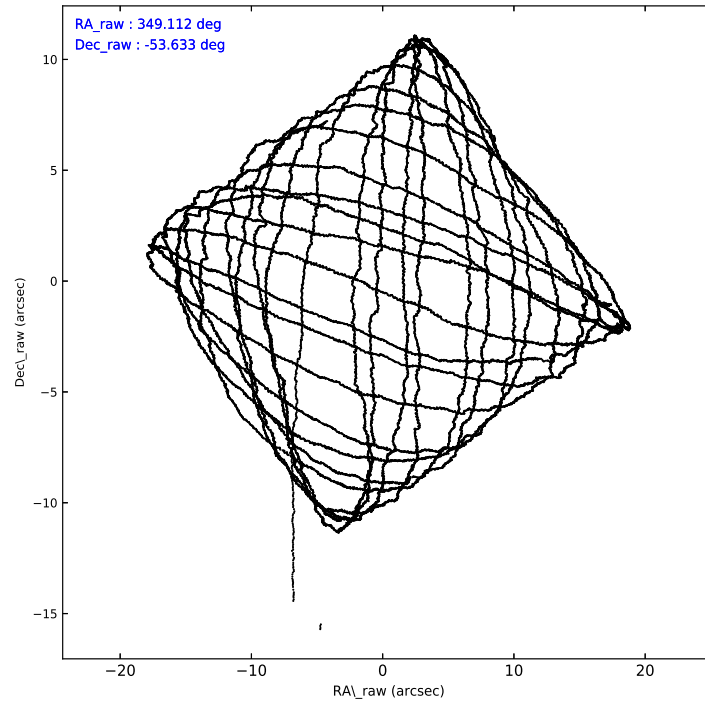
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	77499	74920	132311	79211	99295
rejected events	69608	67199	66313	70573	56591
rejected %	89%	89%	50%	89%	56%

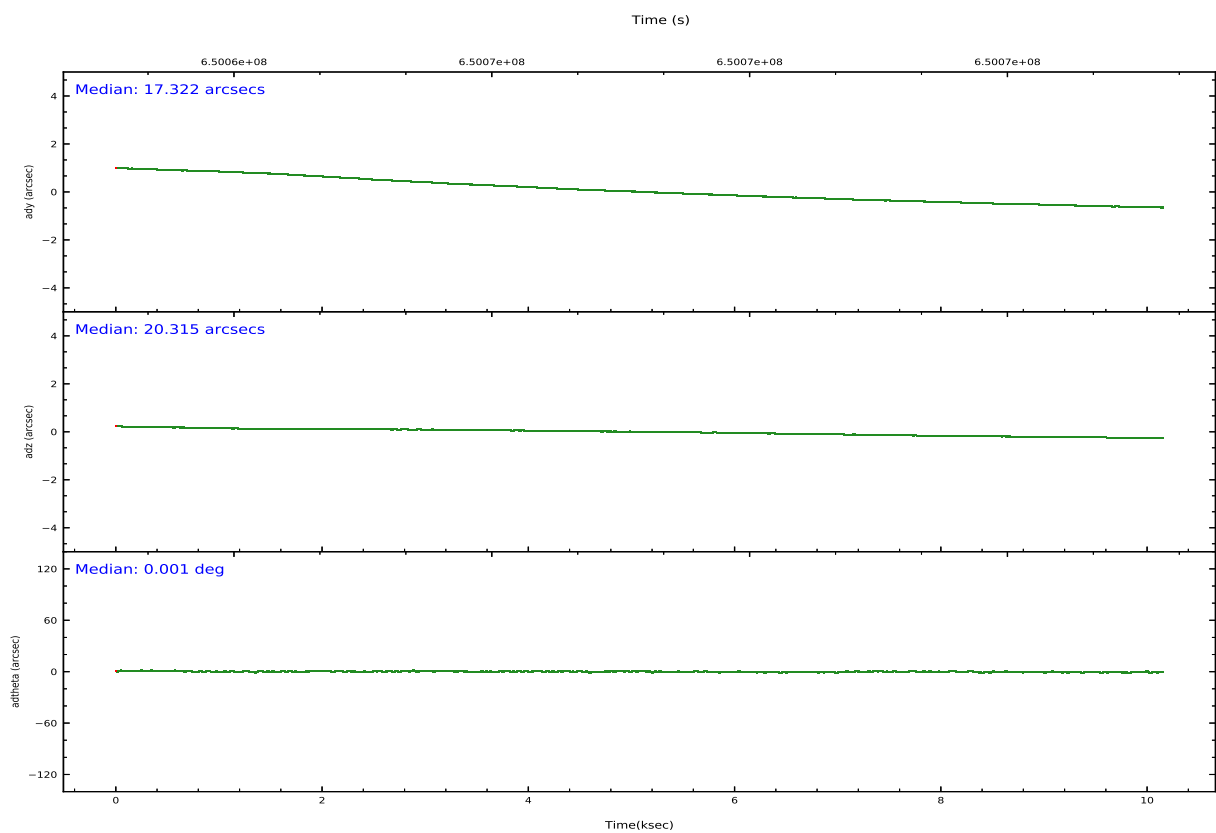
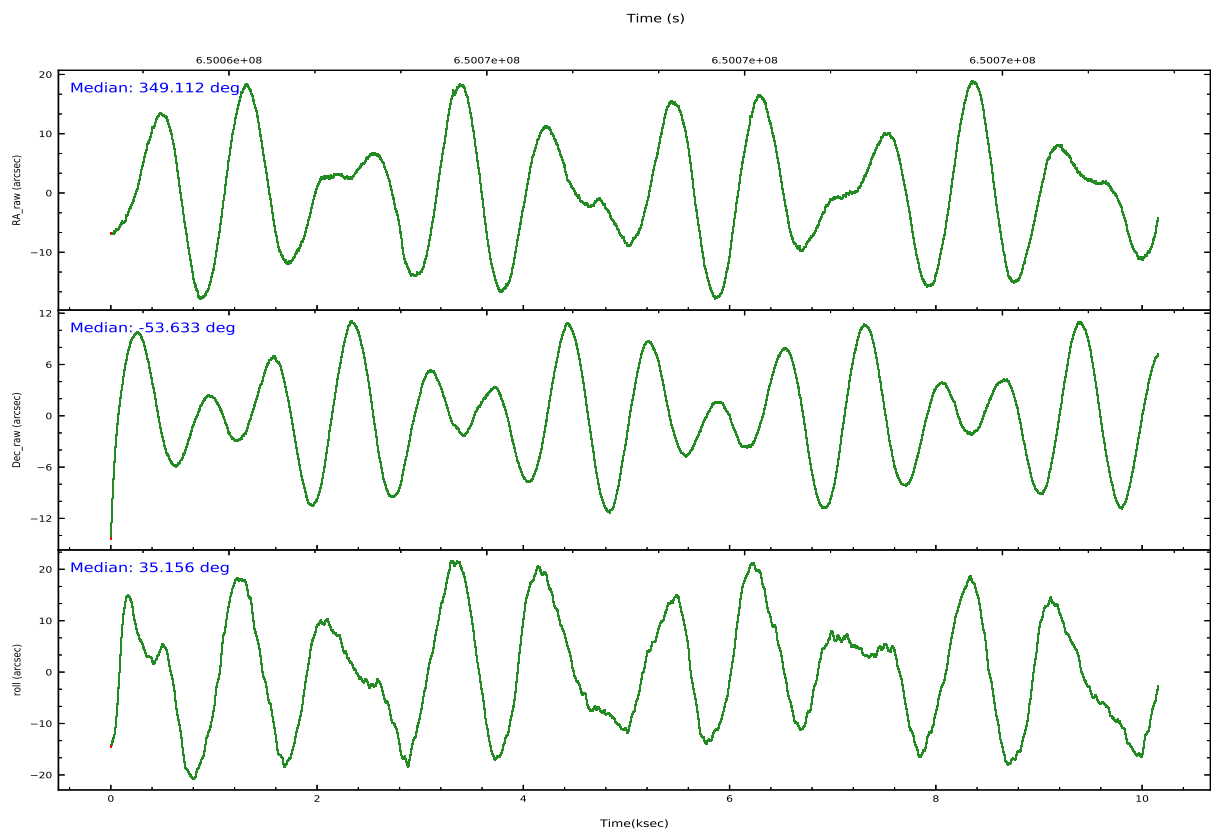
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	2863	2699	11654	2822	3487
	3%	3%	8%	3%	3%
grade 1 events	46	54	327	32	151
	0%	0%	0%	0%	0%
grade 2 events	1855	1743	18825	2119	8906
	2%	2%	14%	2%	8%
grade 3 events	789	845	1747	779	3322
	1%	1%	1%	0%	3%
grade 4 events	810	784	1544	783	3297
	1%	1%	1%	0%	3%
grade 5 events	2902	3452	8384	3327	9595
	3%	4%	6%	4%	9%
grade 6 events	1574	1655	32249	2136	23702
	2%	2%	24%	2%	23%
grade 7 events	66660	63688	57581	67213	46835
	86%	85%	43%	84%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23567	ACIS-23567	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	349.093307	349.11088949764	CCD I2 on	O1	Y
[deg] Pointing Dec	-53.657880	-53.640485479808	CCD I3 on	Y	Y
[deg] Pointing Roll	34.985880	35.156165977979	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	650064011.184000	650062298.2062	CCD S5 on	N	N
Observation start date	2018-08-07T21:19:02	2018-08-07T20:51:38	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	650074011.184000	650074590.51943	On-chip summing requested	N	N
Observation end date	2018-08-08T00:05:42	2018-08-08T00:16:30	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



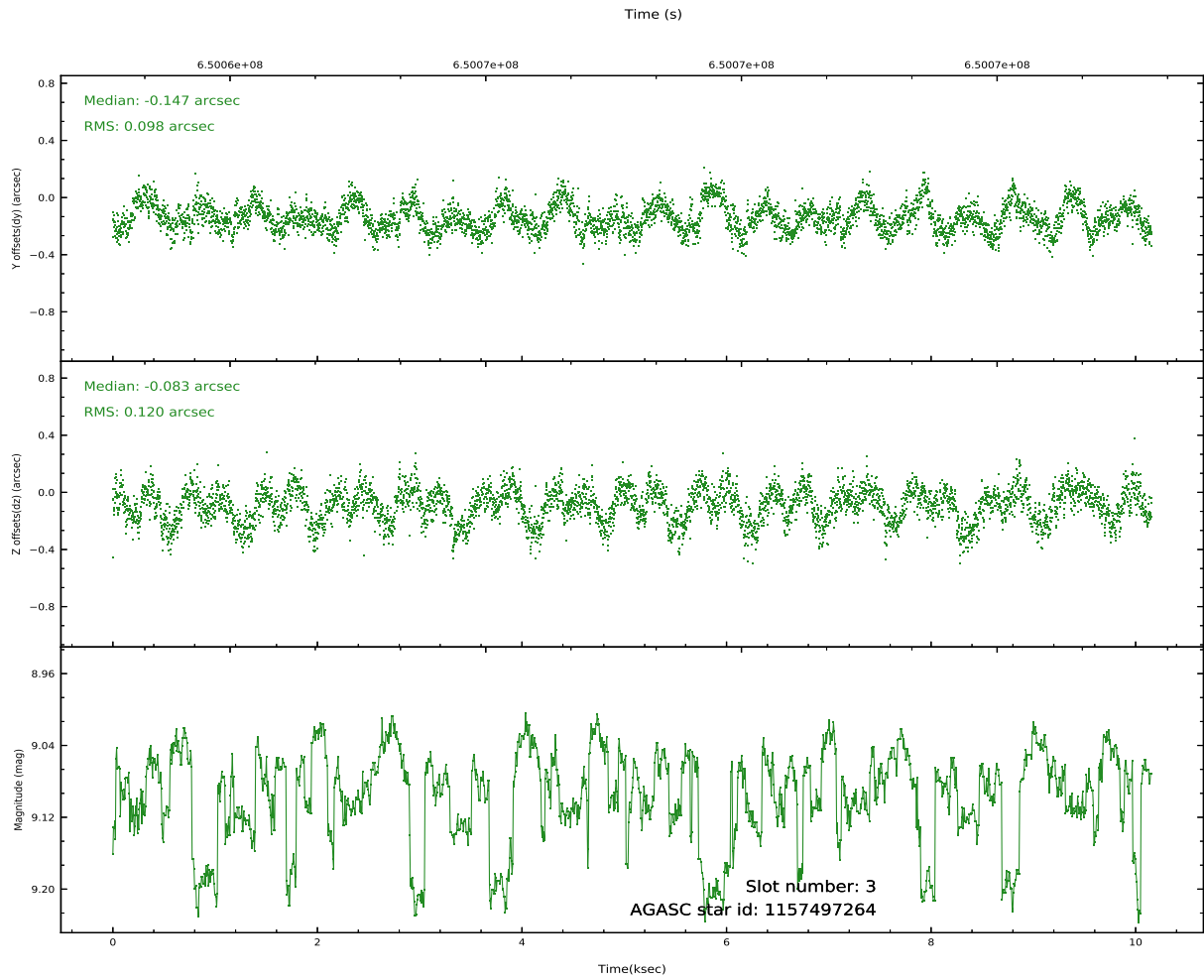
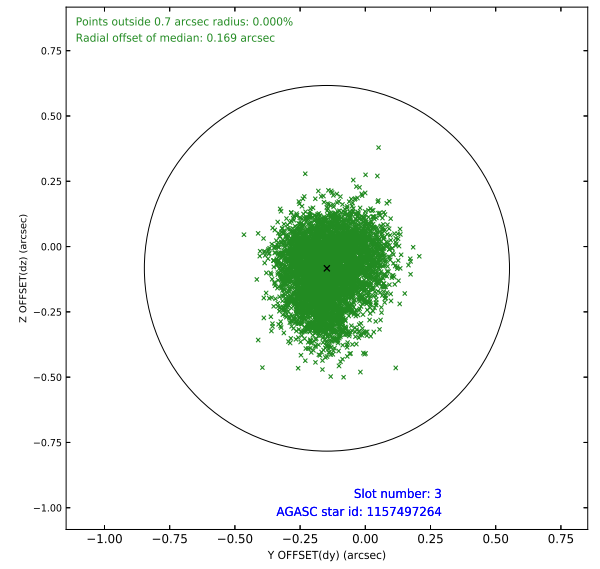
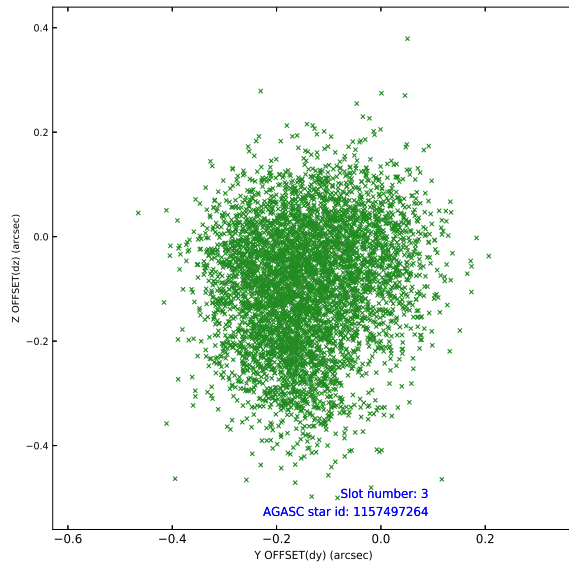


Slot Statistics

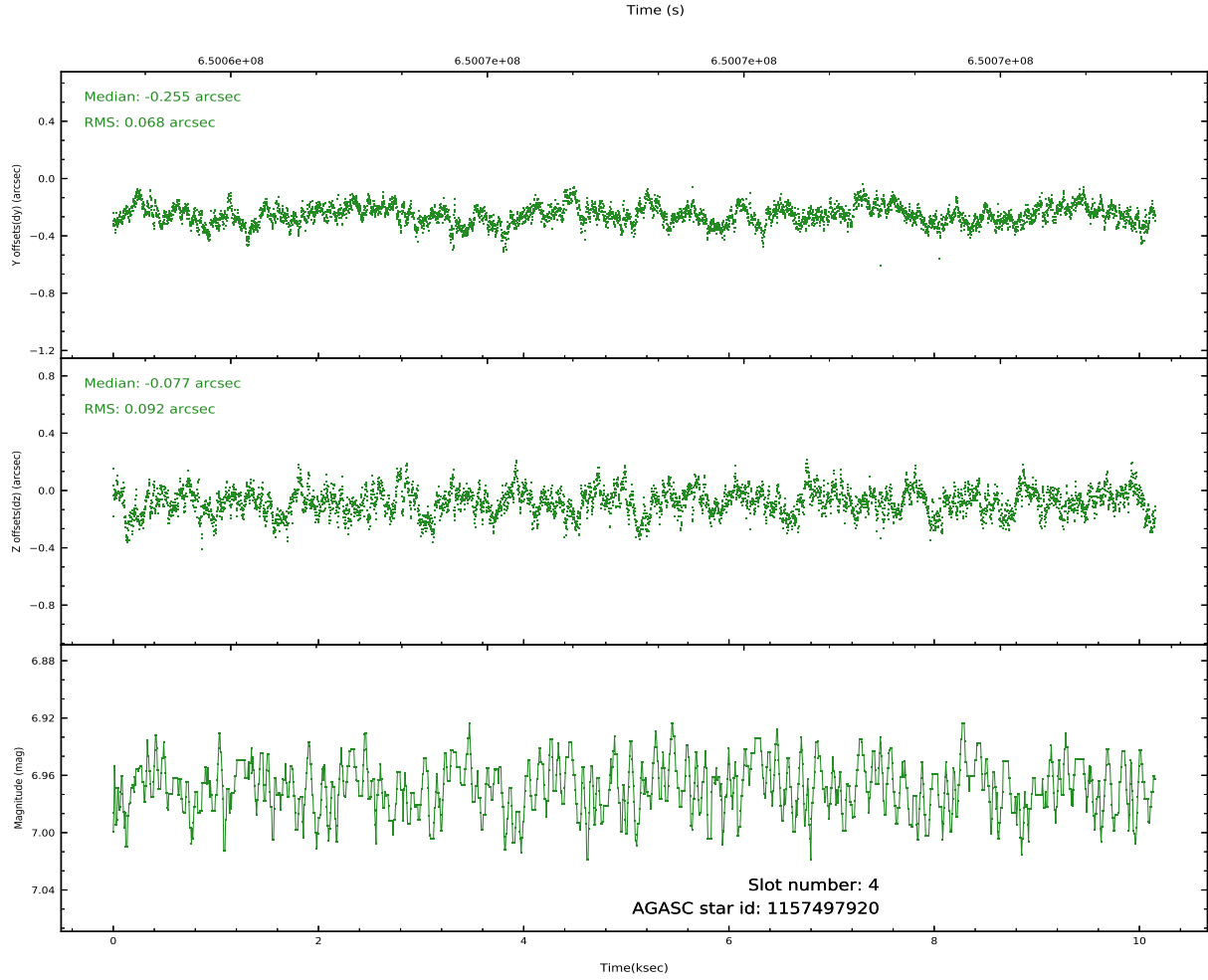
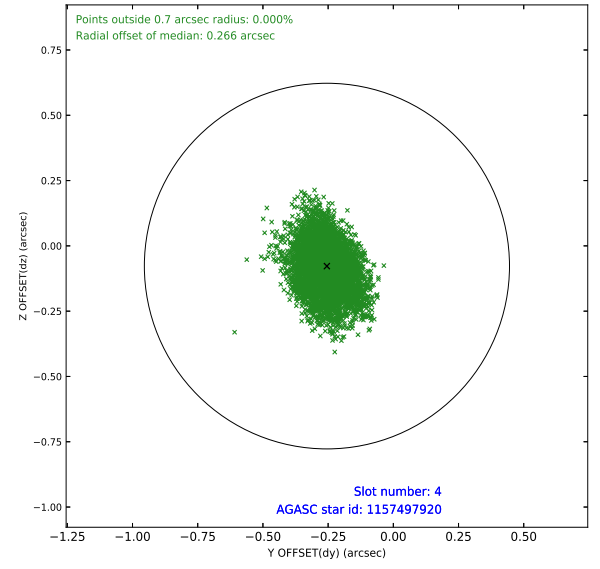
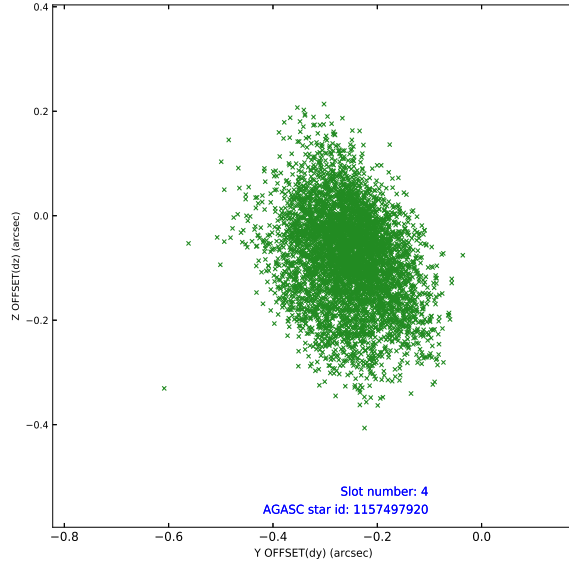
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.03	2478	1.000	0.009	0.010	0.010	0.018	0.000000	0.000000	-770.57	-1741
1	FID		ACIS-S-4	7.13	2478	1.000	0.088	-0.049	0.010	0.016	0.000000	0.000000	2142.70	165
2	FID		ACIS-S-6	7.28	2478	1.000	-0.124	0.047	0.008	0.014	0.000000	0.000000	392.15	804
3	GUIDE	used	1157497264	9.09	4947	1.000	-0.147	-0.083	0.167	0.259	349.433339	-52.837880	2298.19	1992
4	GUIDE	used	1157497920	6.97	4954	1.000	-0.255	-0.077	0.121	0.202	349.847303	-53.419845	1812.19	-231
5	GUIDE	used	1157502056	9.66	4950	1.000	0.222	-0.041	0.214	0.354	348.727196	-54.256147	-1865.51	-1324
6	GUIDE	used	1157505152	9.18	4947	1.000	-0.022	0.020	0.165	0.265	349.523146	-53.575600	921.39	-286
7	GUIDE	used	1157504768	10.01	4922	1.000	0.187	0.207	0.301	0.456	348.506124	-54.167166	-2067.08	-797

2.4 Star Slots

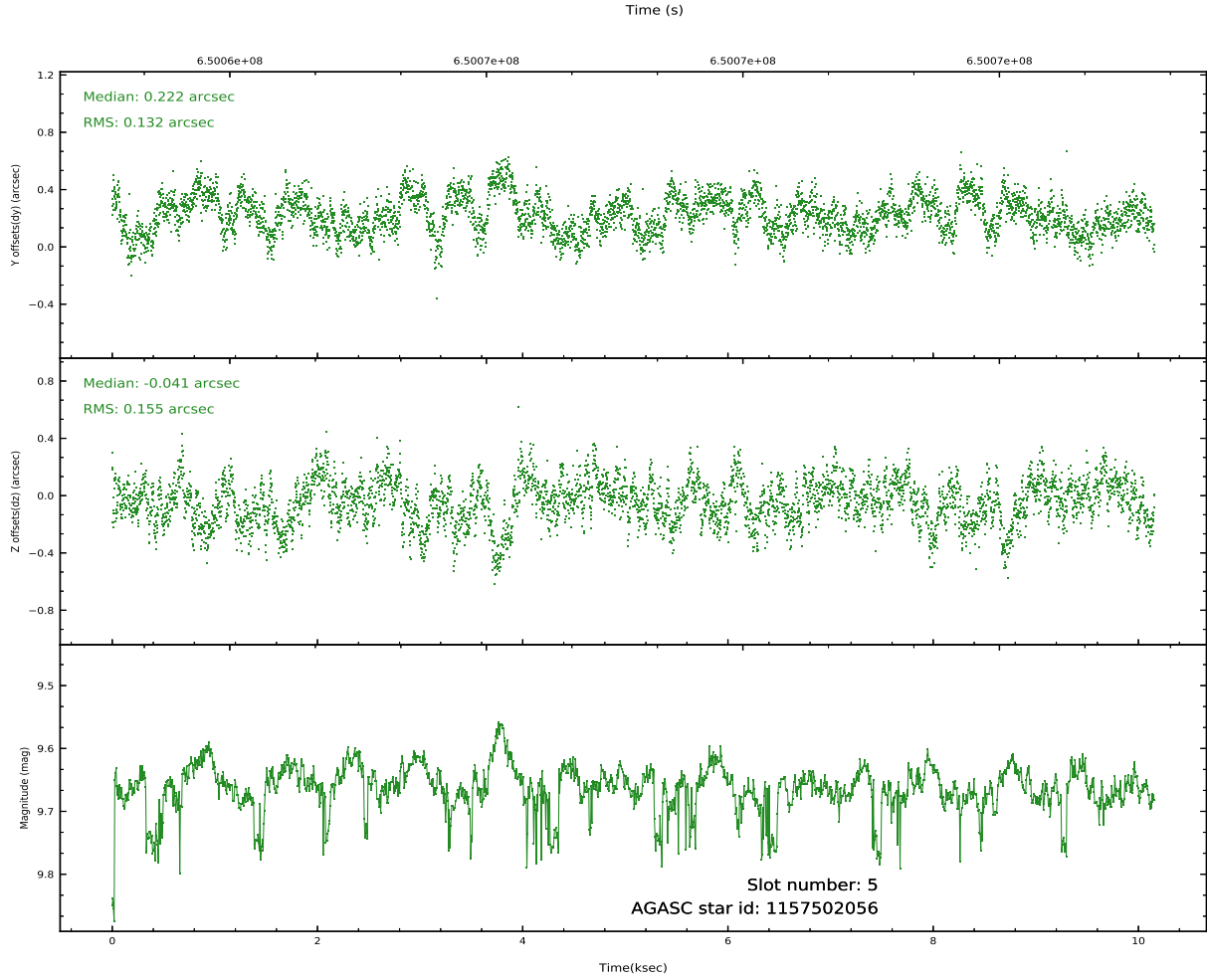
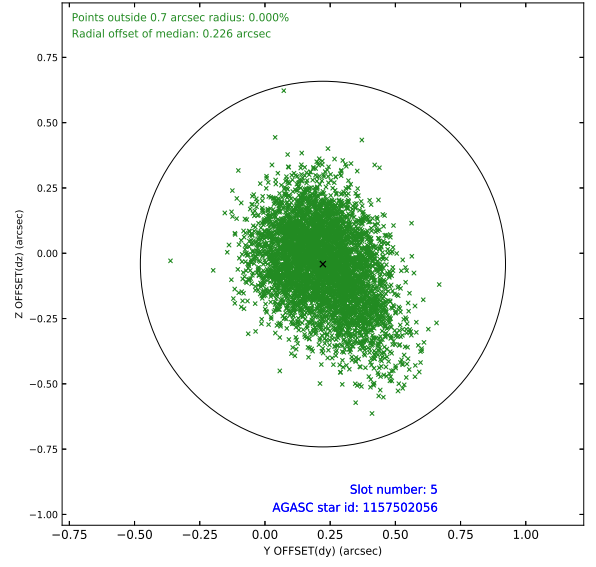
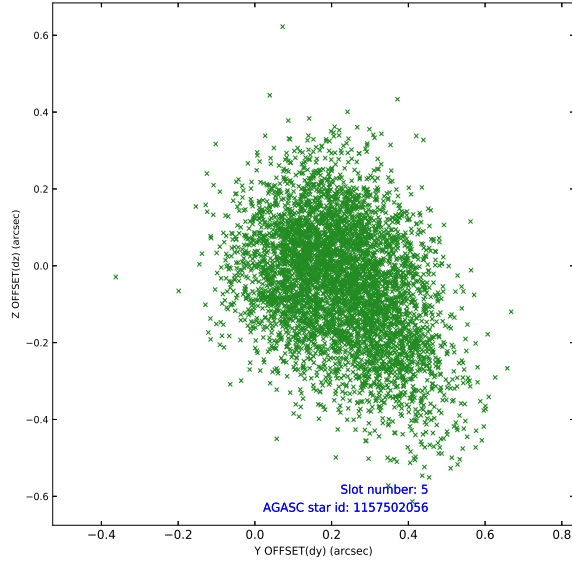
2.4.1 Slot 3



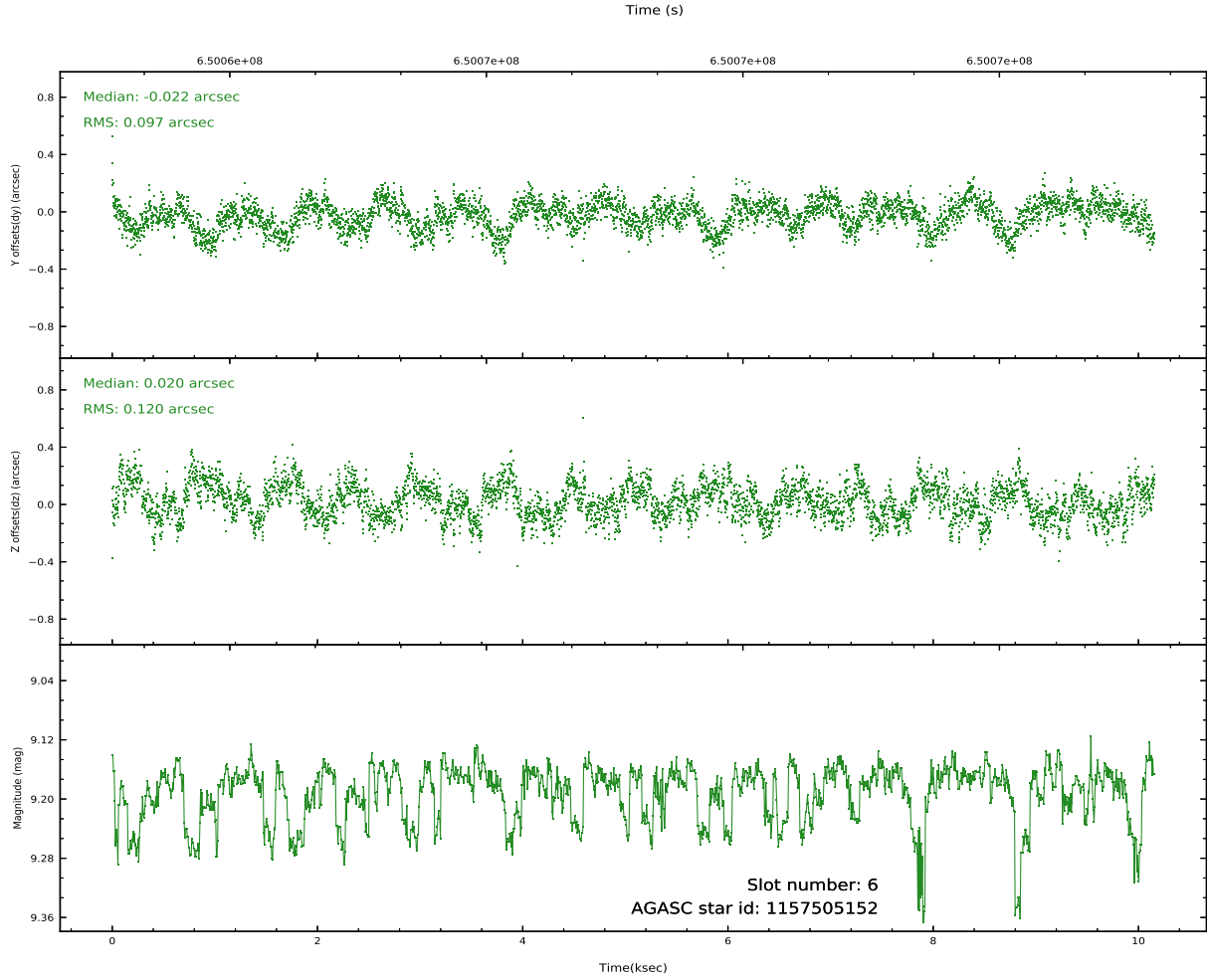
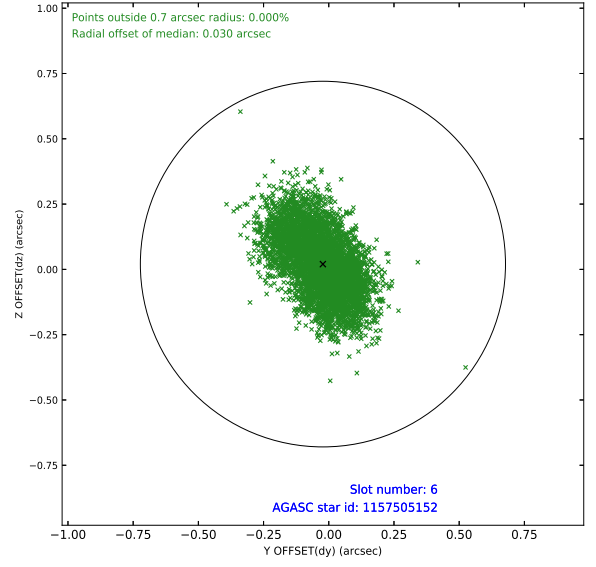
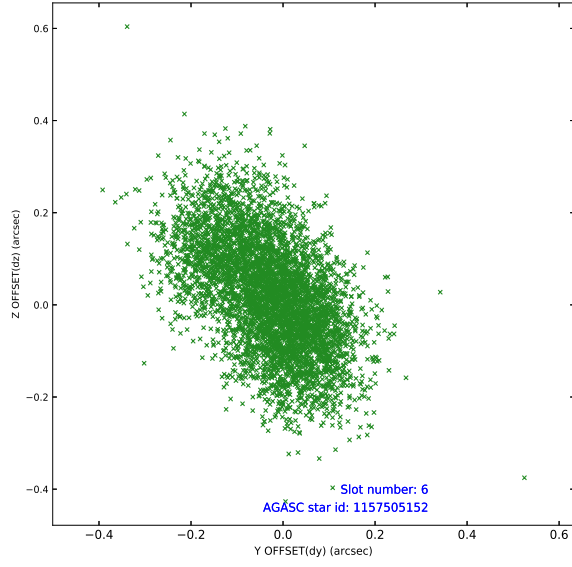
2.4.2 Slot 4



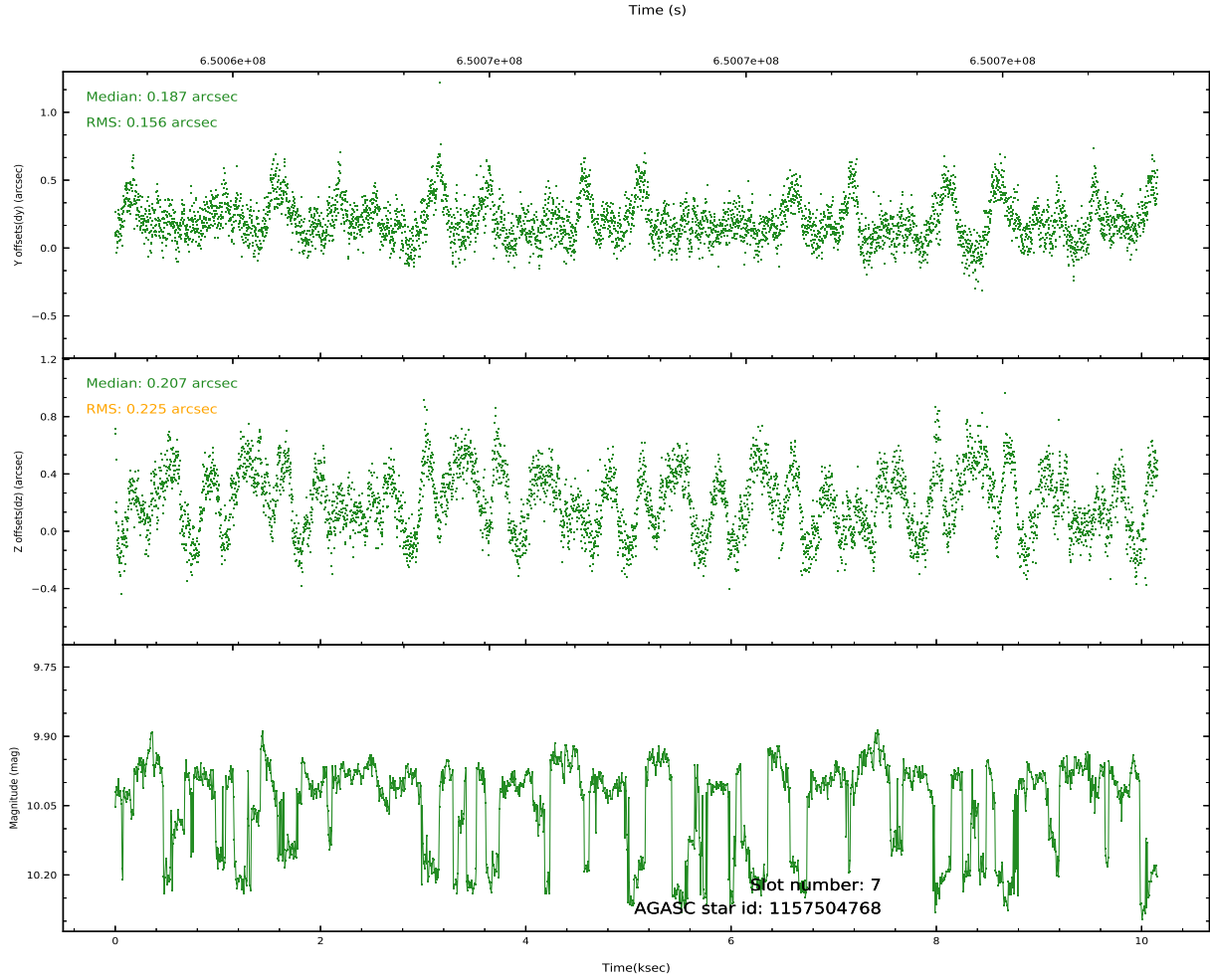
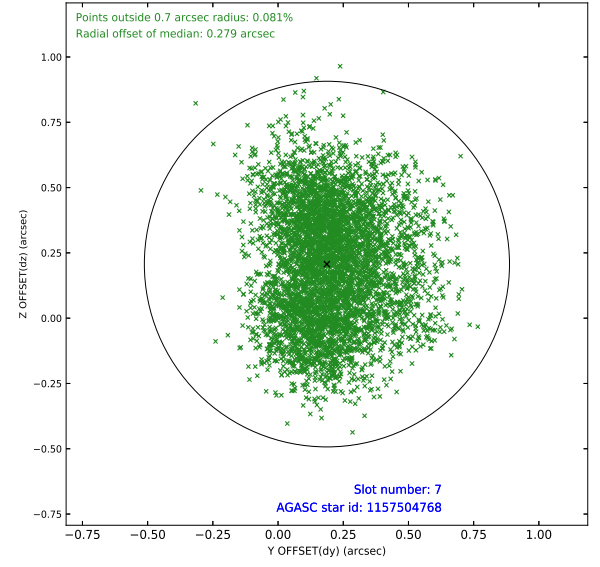
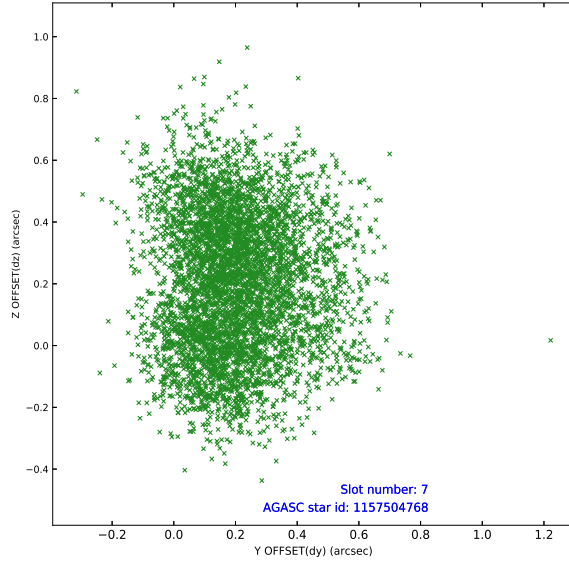
2.4.3 Slot 5



2.4.4 Slot 6

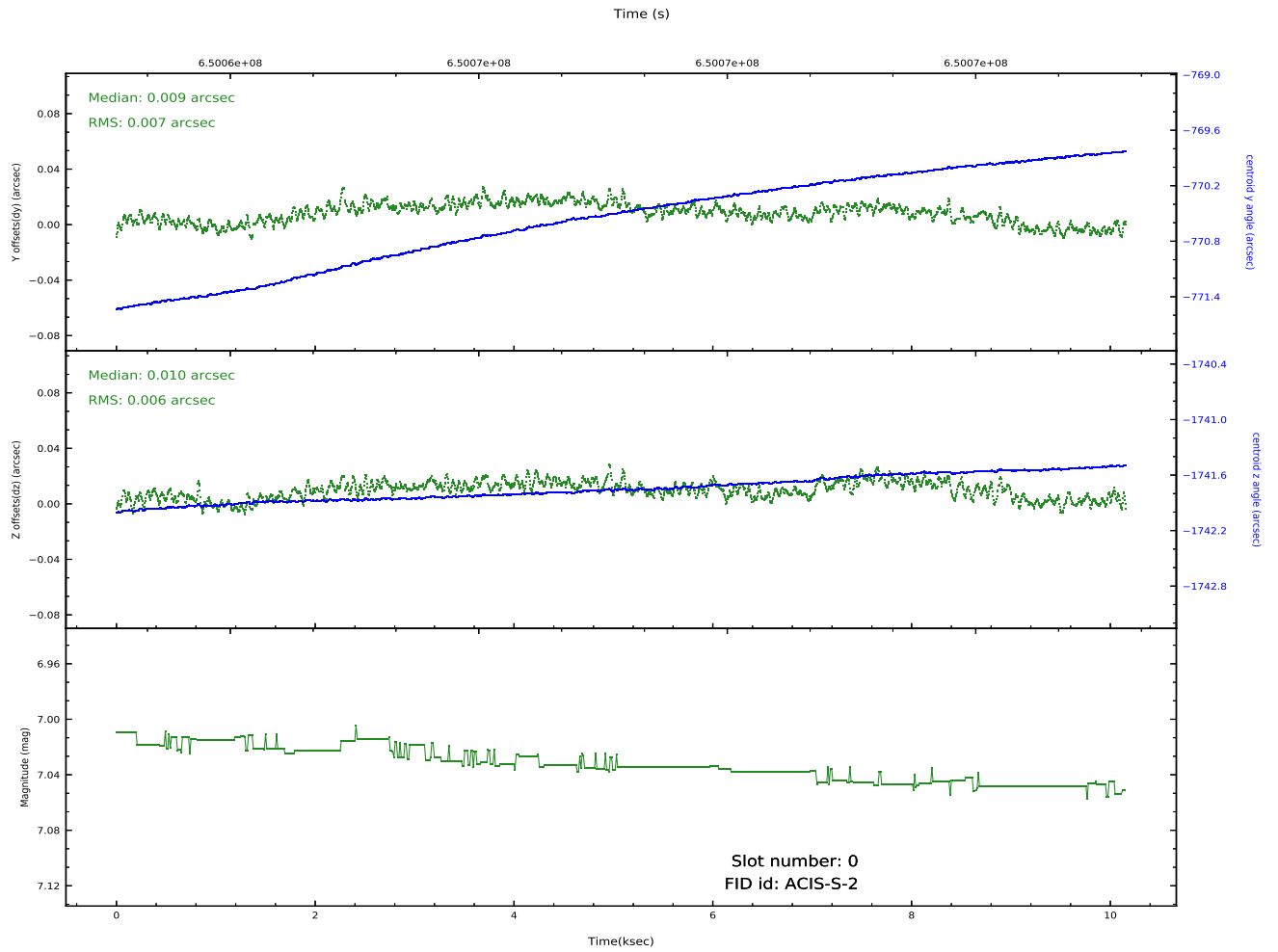
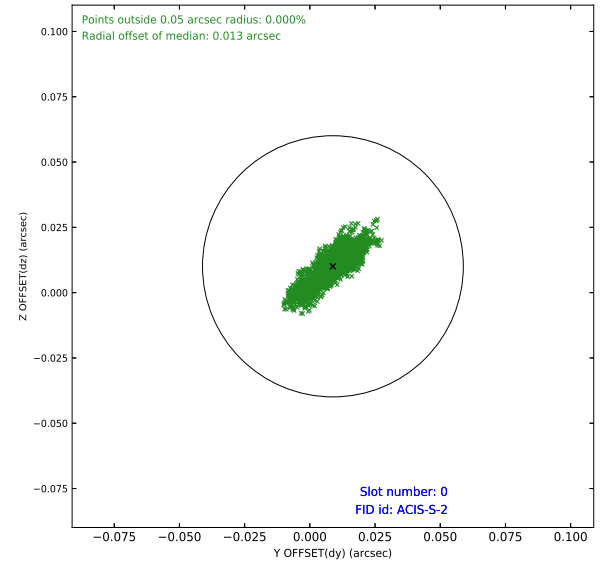
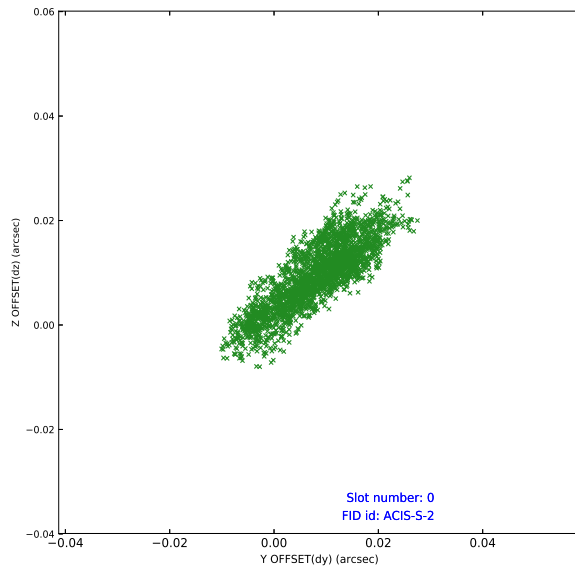


2.4.5 Slot 7

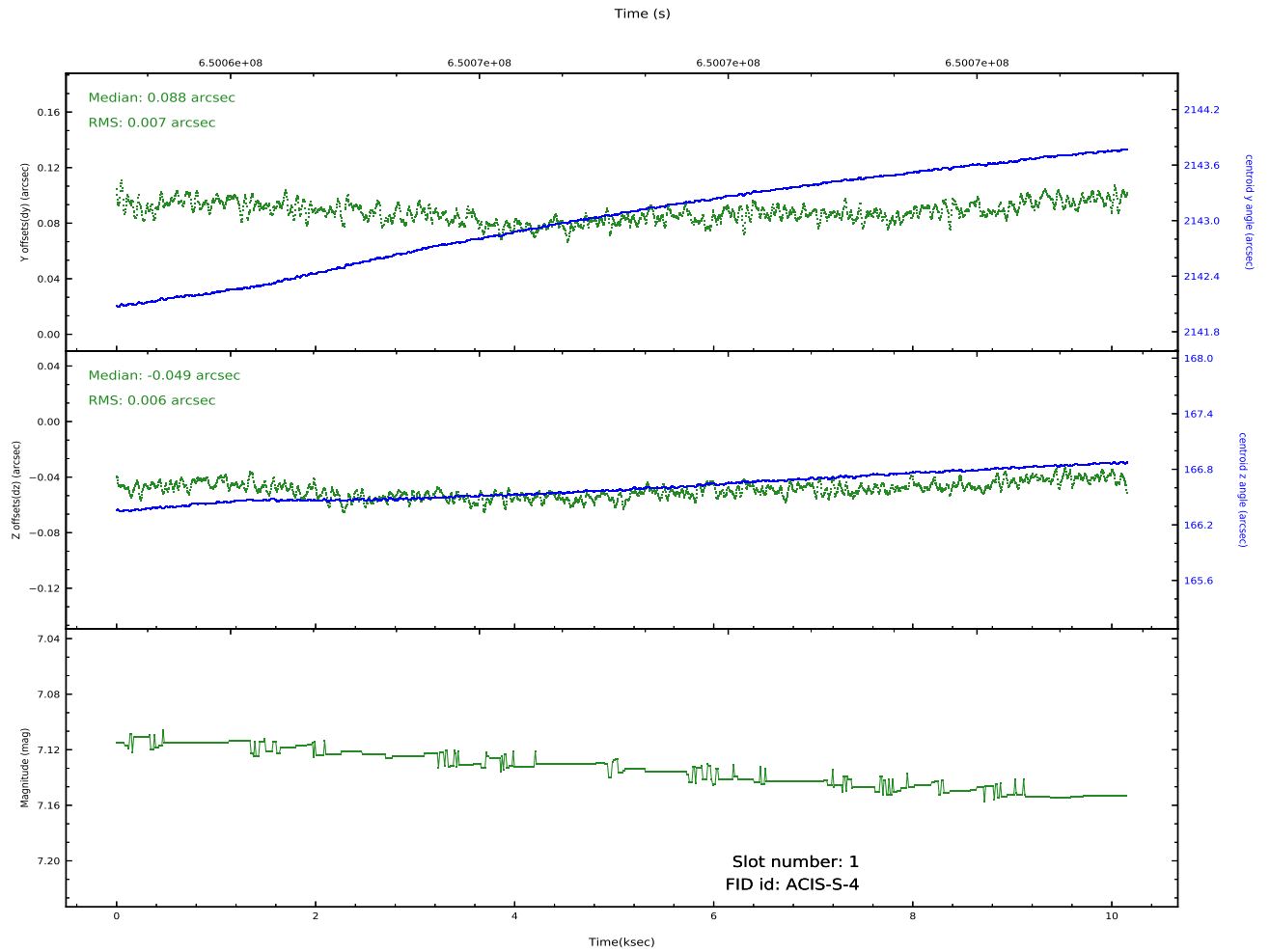
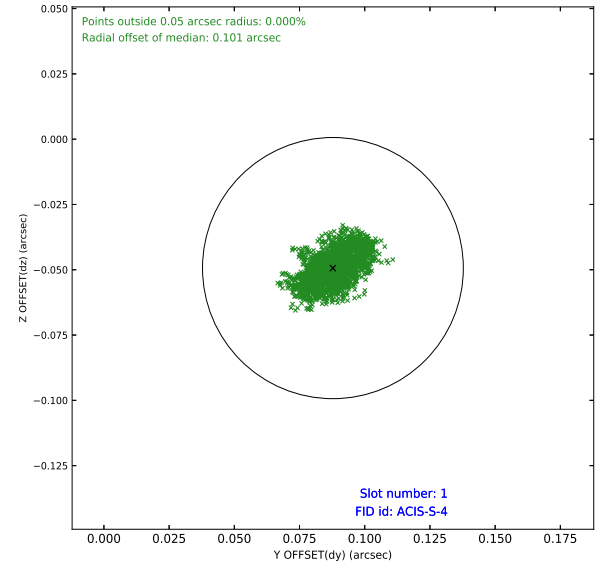
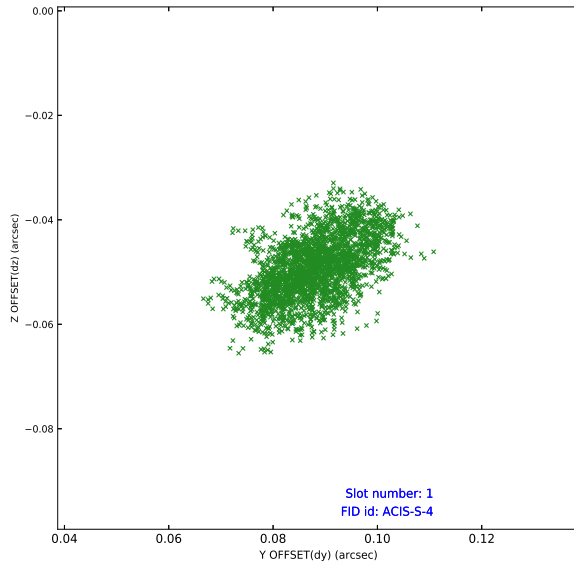


2.5 FID Slots

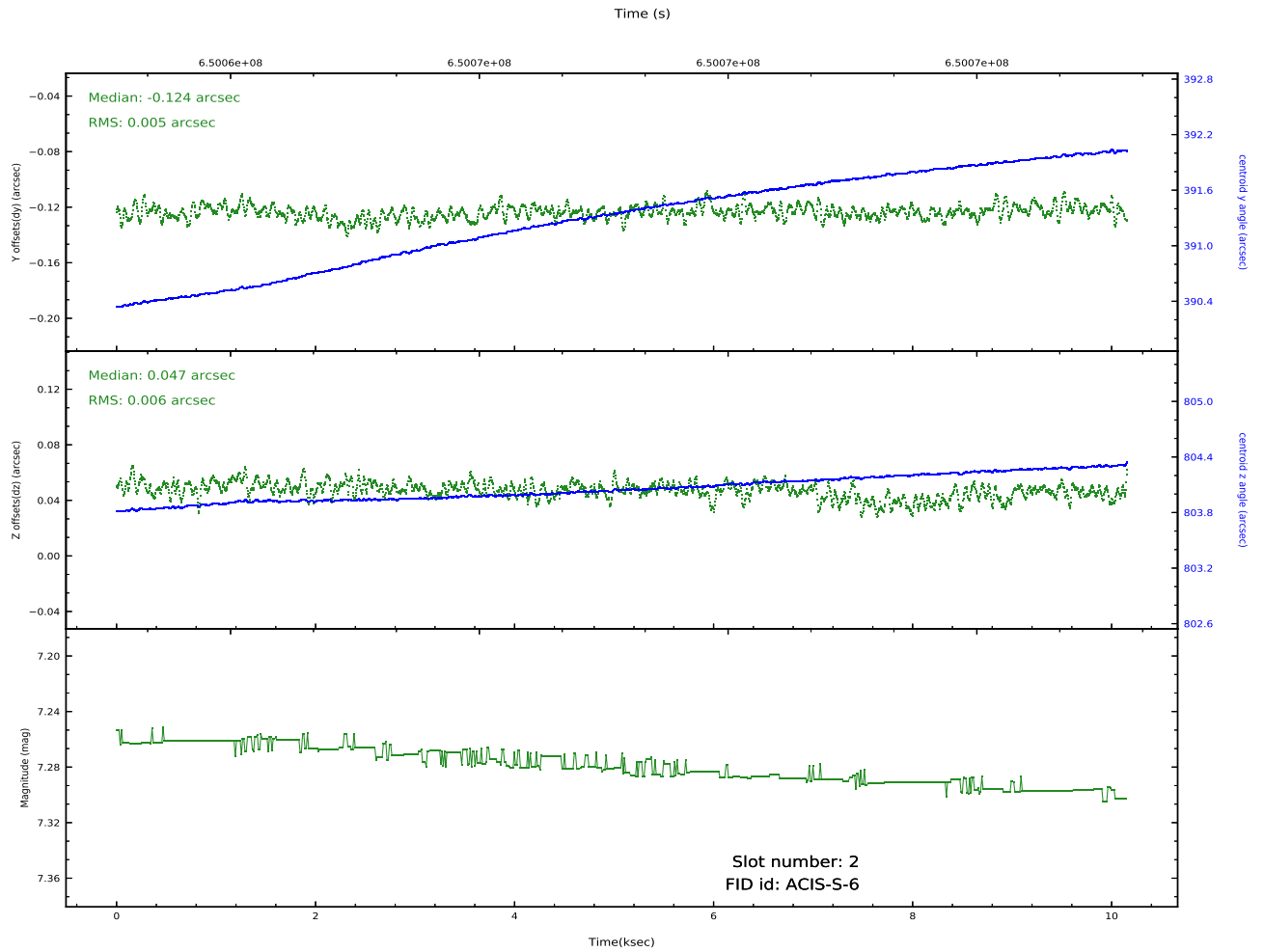
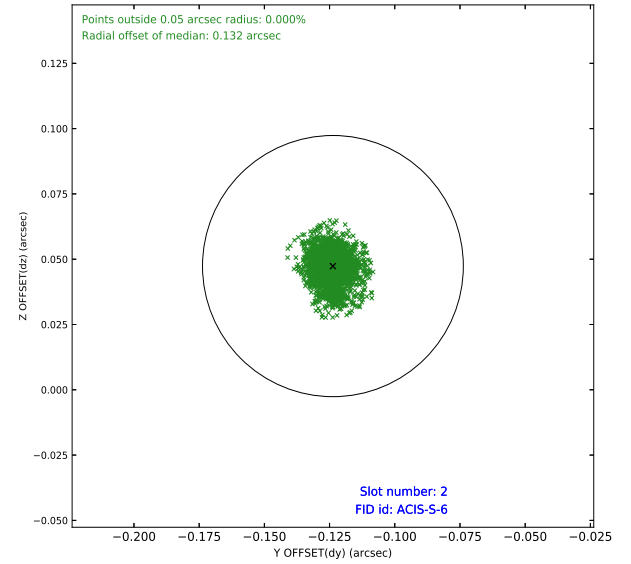
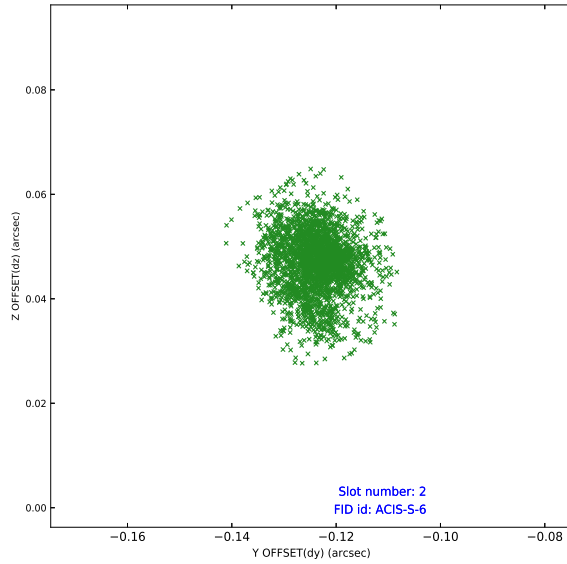
2.5.1 Slot 0



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)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.053280391932

A.2 Comments