

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5137 - L2 Version 4
Chandra X-Ray Center

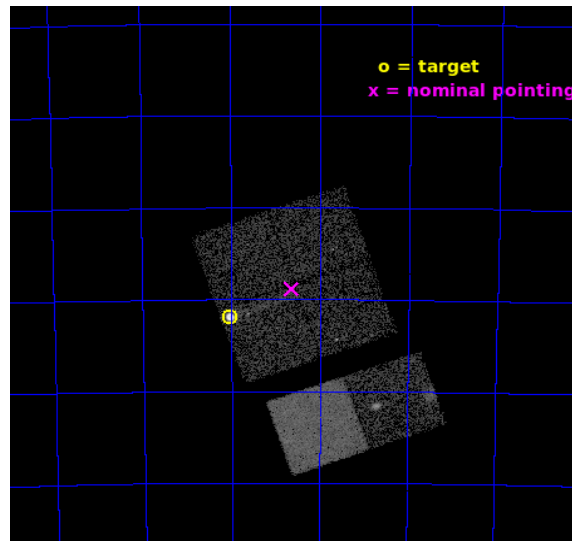
L2 Processing Date : Sep 25 2020

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1 Front

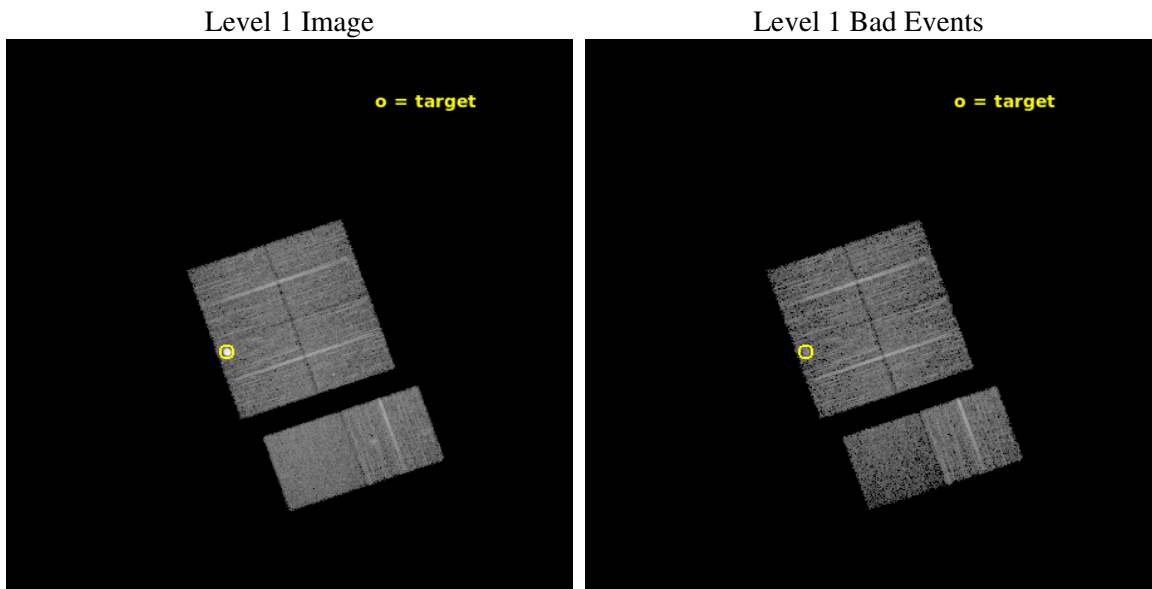
seq_num	590335	Sequence number
obs_id	5137	Observation id
title	AO5B ACIS-I Calibration Observations of E0102-72	Proposal title
observer	CXC Calibration	Principal investigator
object	E0102-72.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.657827721544	Nominal RA [deg]
dec_nom	-71.980717786266	Nominal Dec [deg]
roll_nom	160.84068551863	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8140.7999696732	Sum of GTIs [s]
livetime	8037.7162586559	Livetime [s]
ontime0	8140.7999696732	Sum of GTIs [s]
ontime1	8140.7999696732	Sum of GTIs [s]
ontime2	8140.7999696732	Sum of GTIs [s]
ontime3	8140.7999696732	Sum of GTIs [s]
ontime6	8140.7999696732	Sum of GTIs [s]
ontime7	8140.7999696732	Sum of GTIs [s]
l2events	61862	Number of level 2 events



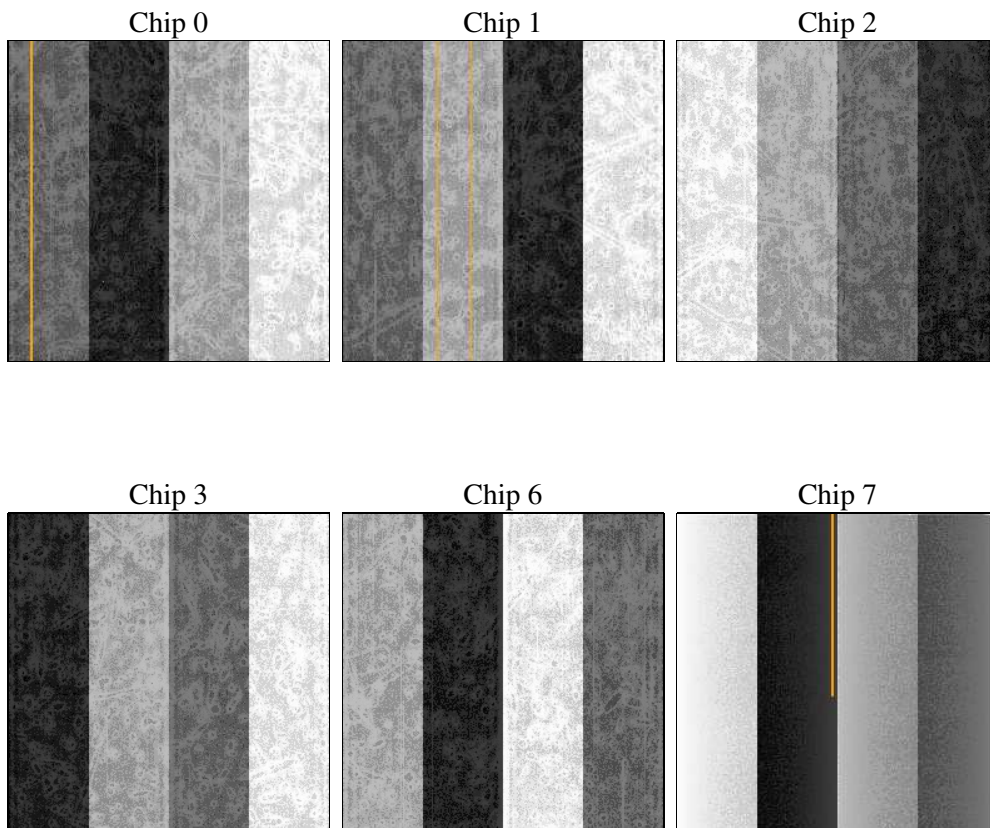
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	8140.7999696732	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	8140.7999696732	Sum of GTIs [s]
date	2020-09-25T09:07:27	Date and time of file creation	ontime1	8140.7999696732	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	8140.7999696732	Sum of GTIs [s]
			ontime3	8140.7999696732	Sum of GTIs [s]
			ontime6	8140.7999696732	Sum of GTIs [s]
			ontime7	8140.7999696732	Sum of GTIs [s]
			l1events	293613	Number of level 1 events

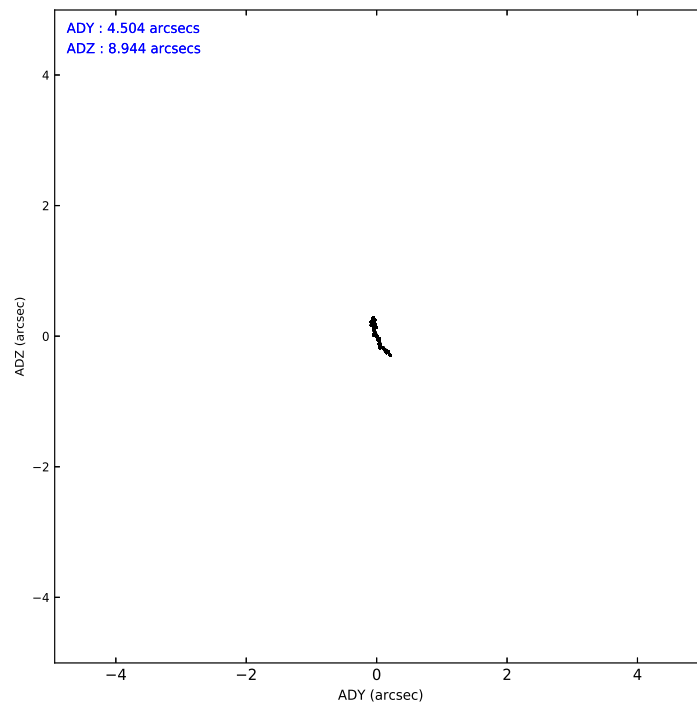
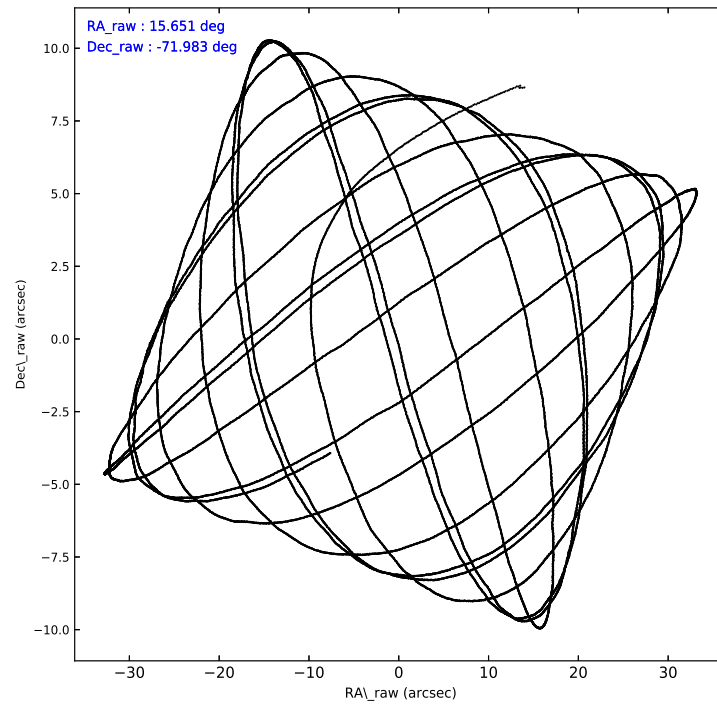
2.1.4 Events

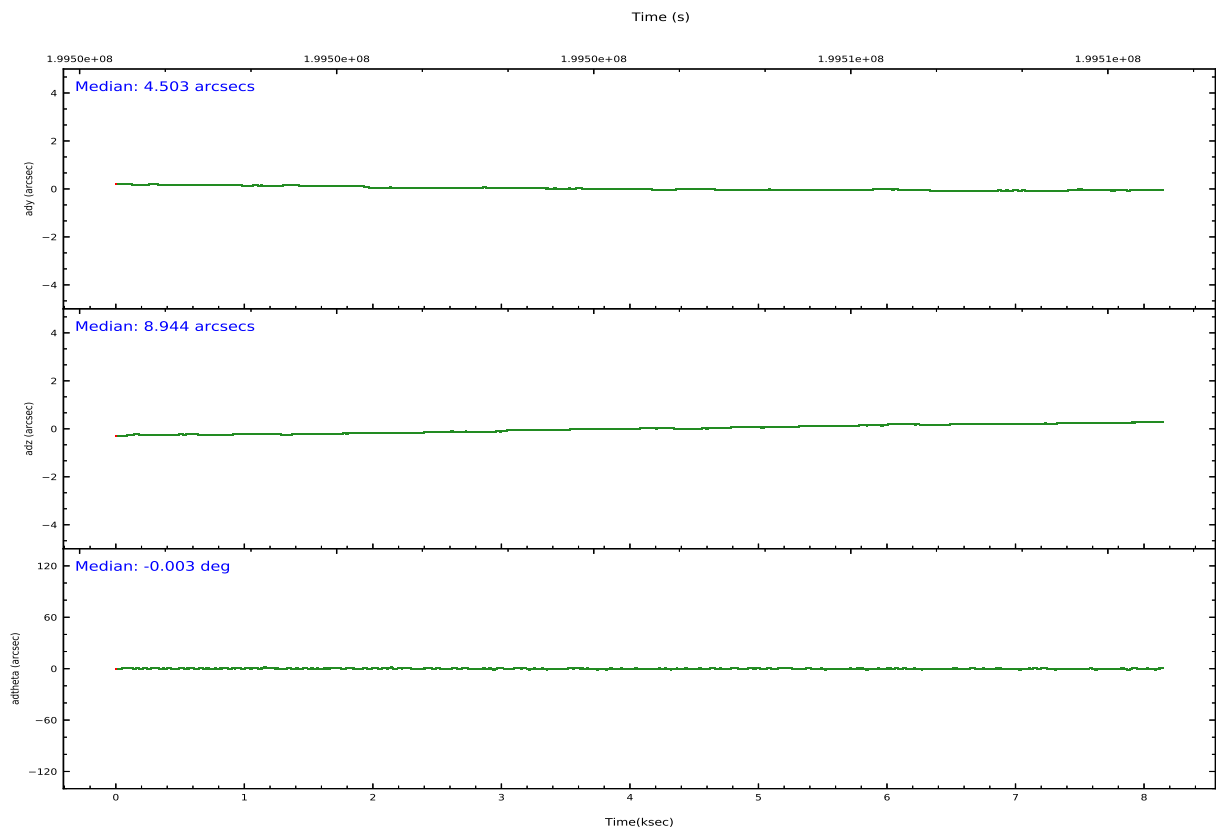
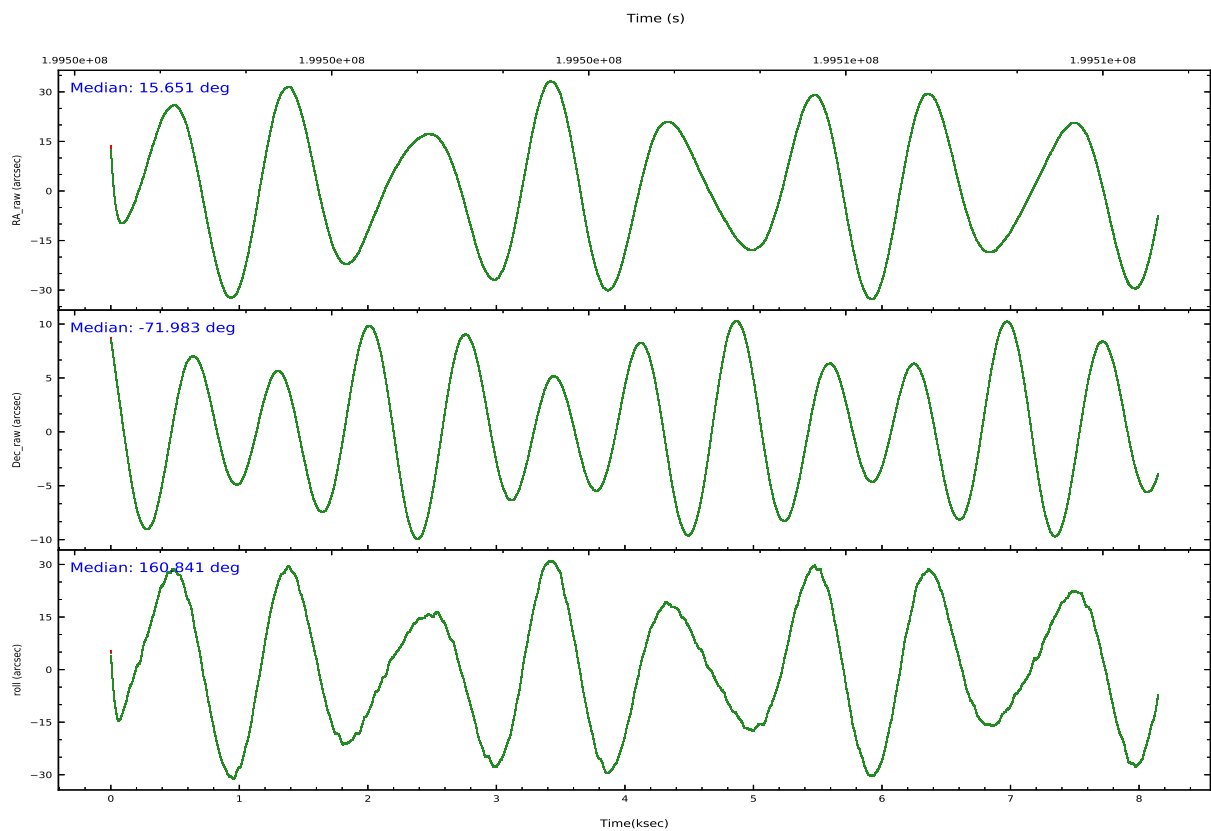
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	43129	42676	47060	68709	48837	43202	grade 0 events	1802	1896	1963	21720	2547	2123
rejected events	38490	37956	42347	42094	43454	22607		4%	4%	4%	31%	5%	4%
rejected %	89%	88%	89%	61%	88%	52%	grade 1 events	26	19	28	181	31	38
								0%	0%	0%	0%	0%	0%
							grade 2 events	1051	1004	1081	2544	1080	4472
								2%	2%	2%	3%	2%	10%
							grade 3 events	565	545	503	910	519	2177
								1%	1%	1%	1%	1%	5%
							grade 4 events	504	574	530	986	499	2102
								1%	1%	1%	1%	1%	4%
							grade 5 events	1443	1455	1339	1601	1584	4609
								3%	3%	2%	2%	3%	10%
							grade 6 events	851	918	789	986	903	10301
								1%	2%	1%	1%	1%	23%
							grade 7 events	36887	36265	40827	39781	41674	17380
								85%	84%	86%	57%	85%	40%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	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	15.737872	15.657827721544	Subarray requested	NONE	NONE
[deg] Pointing Dec	-71.977449	-71.980717786266	Alternating exposures requested	N	N
[deg] Pointing Roll	160.722632	160.84068551863	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	197164864.184000	197164864.184000			
[s] Window stop time (MET)	199670464.184000	199670464.184000			
[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)	199500430.184000	199499264.11965			
Observation start date	2004-04-28T00:46:06	2004-04-28T00:27:44			
[s] Observation end time (MET)	199508430.184000	199508563.94506			
Observation end date	2004-04-28T02:59:26	2004-04-28T03:02:43			
Read mode	TIMED	TIMED			

2.3 Aspect



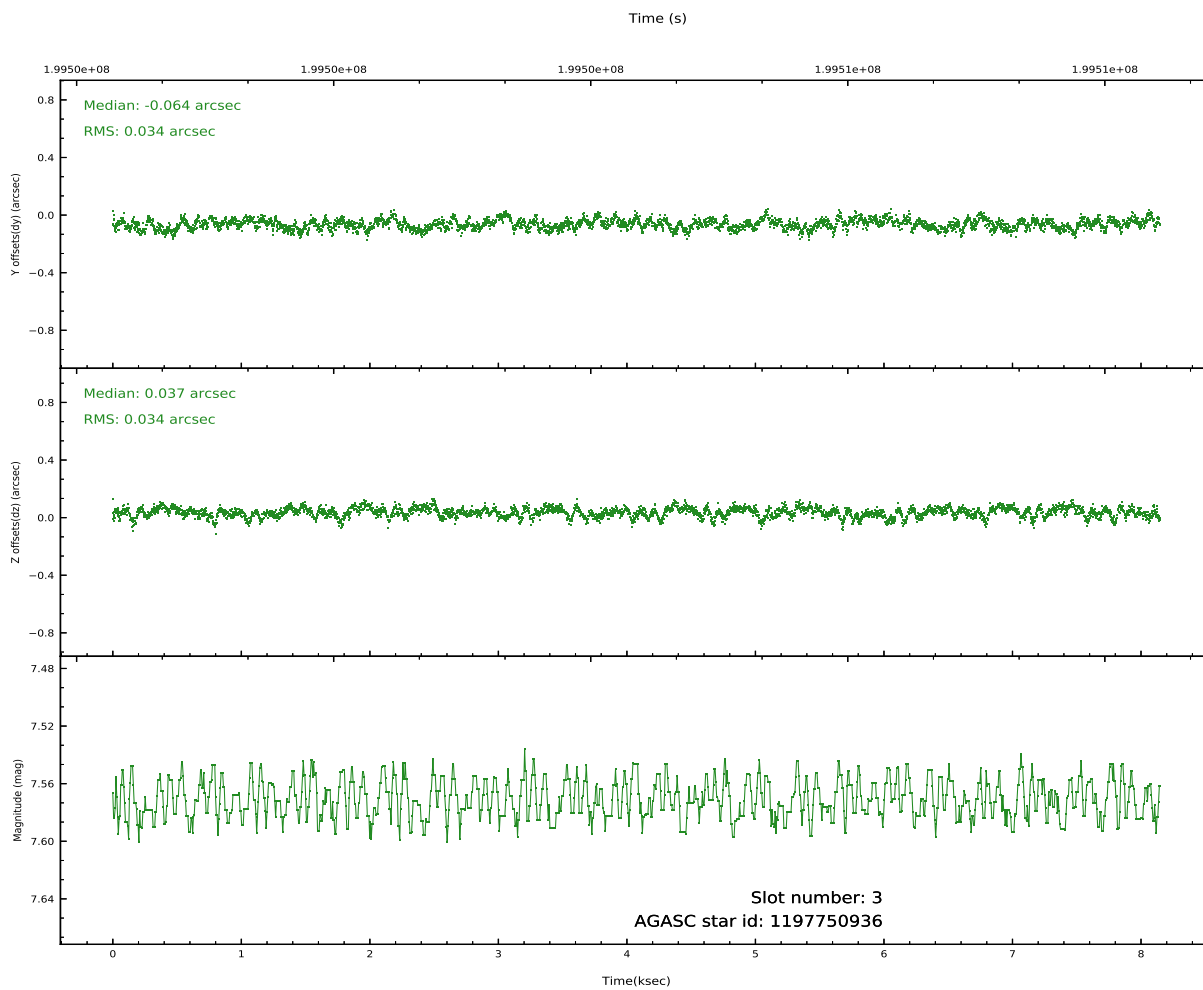
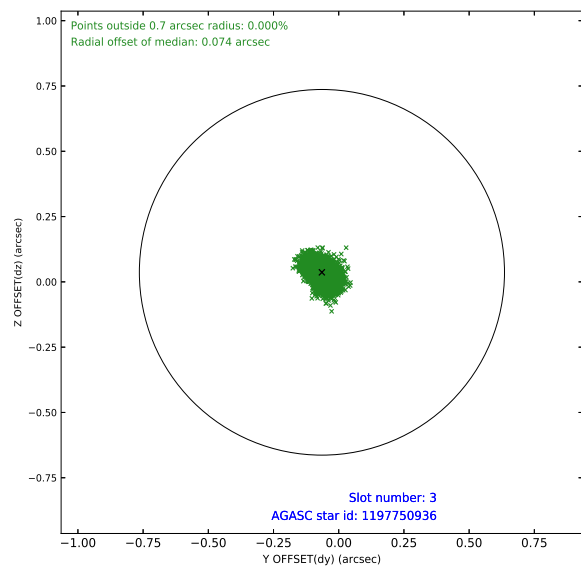
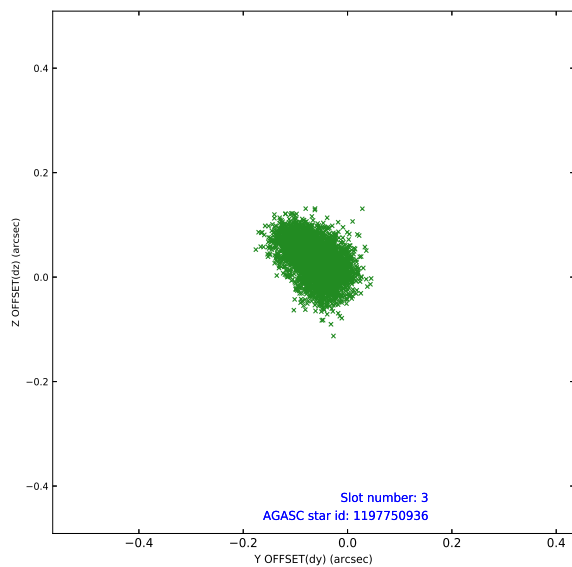


Slot Statistics

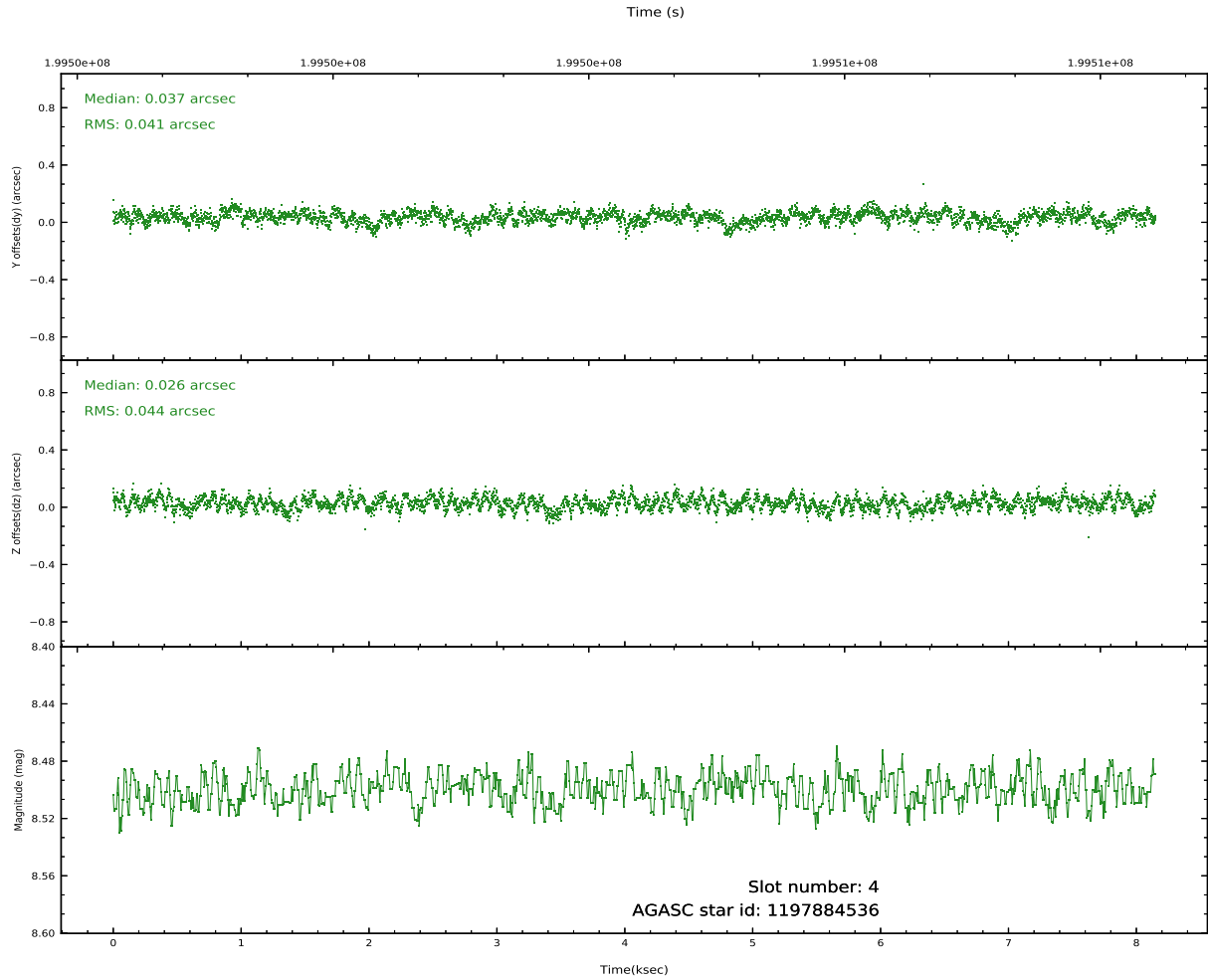
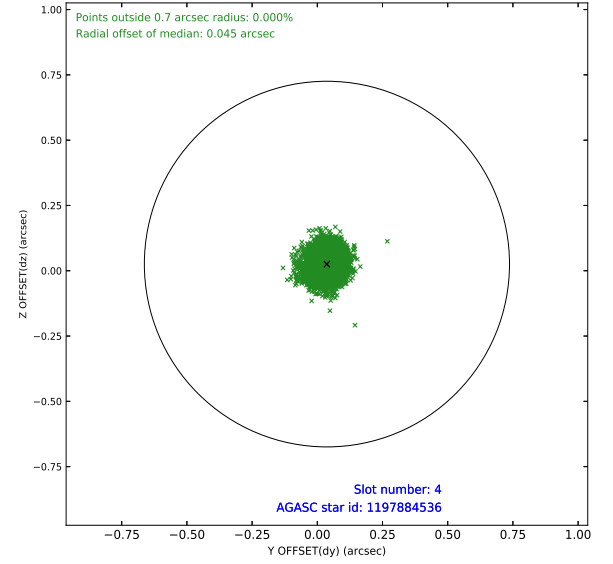
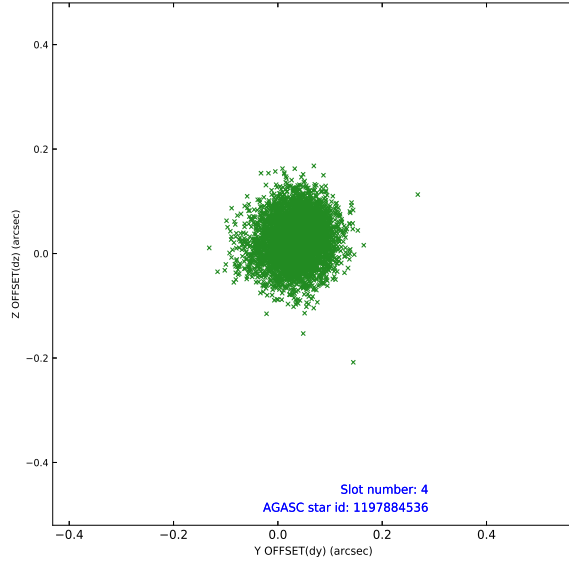
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.23	1988	1.000	0.029	0.019	0.006	0.011	0.000000	0.000000	935.26	-832
1	FID		ACIS-I-5	7.23	1988	1.000	-0.207	0.040	0.006	0.011	0.000000	0.000000	-1812.72	1064
2	FID		ACIS-I-6	7.25	1988	1.000	0.088	0.011	0.008	0.013	0.000000	0.000000	400.09	1710
3	GUIDE	used	1197750936	7.57	3976	1.000	-0.064	0.037	0.052	0.084	15.387940	-71.549550	884.83	-1320
4	GUIDE	used	1197884536	8.50	3976	1.000	0.037	0.026	0.065	0.102	17.160729	-71.835289	-1343.79	-992
5	GUIDE	used	1197884712	8.30	3975	1.000	0.057	-0.019	0.055	0.090	16.087398	-72.252690	-689.79	809
6	GUIDE	used	1197885328	7.23	3976	1.000	0.000	0.028	0.063	0.100	16.283090	-71.733943	-292.33	-1027
7	GUIDE	used	1198190968	10.01	3971	1.000	-0.028	-0.071	0.133	0.216	15.749622	-72.545972	-687.94	1927

2.4 Star Slots

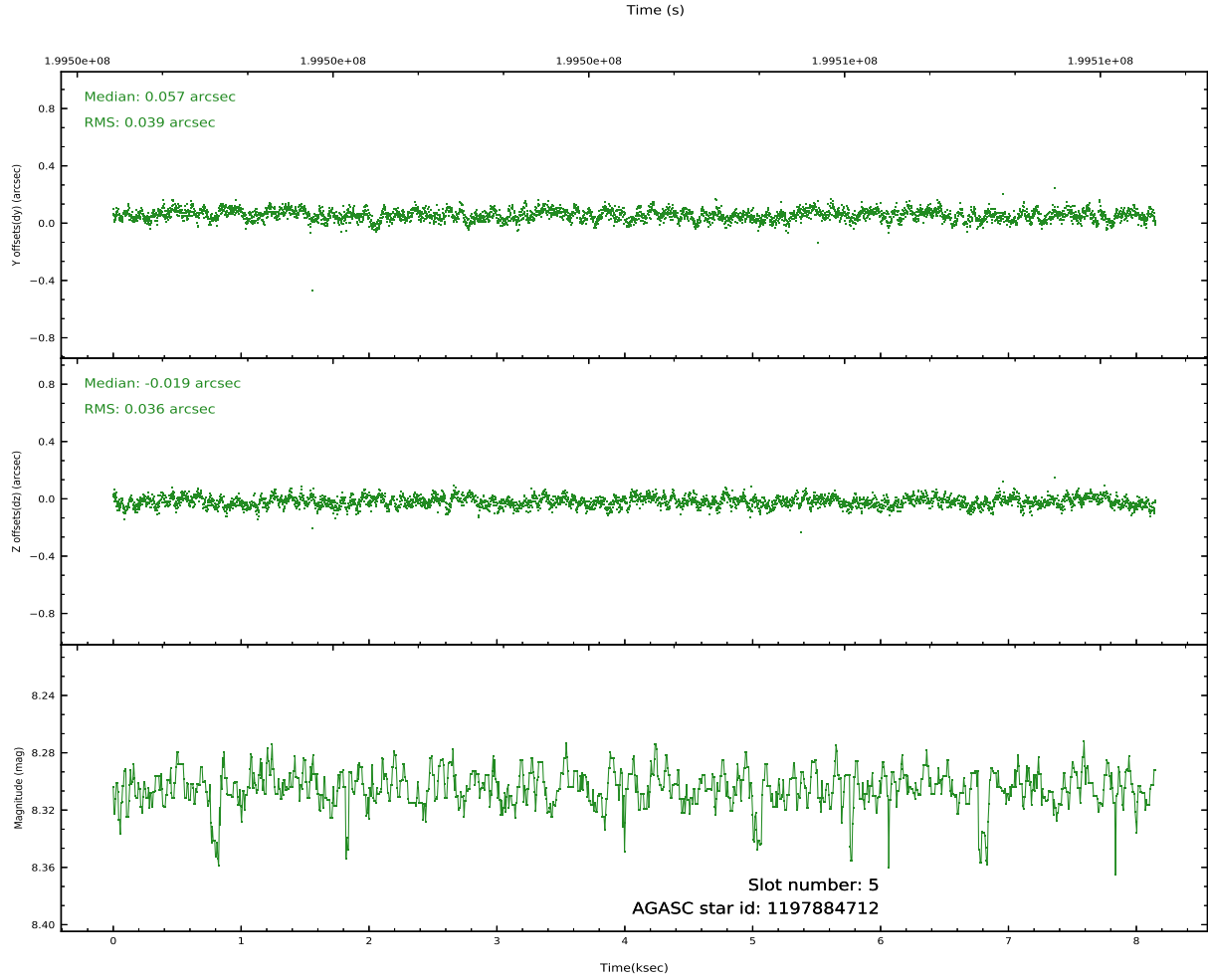
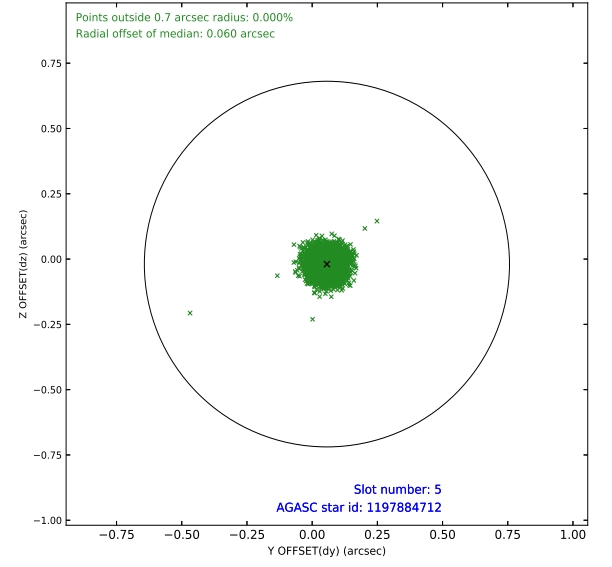
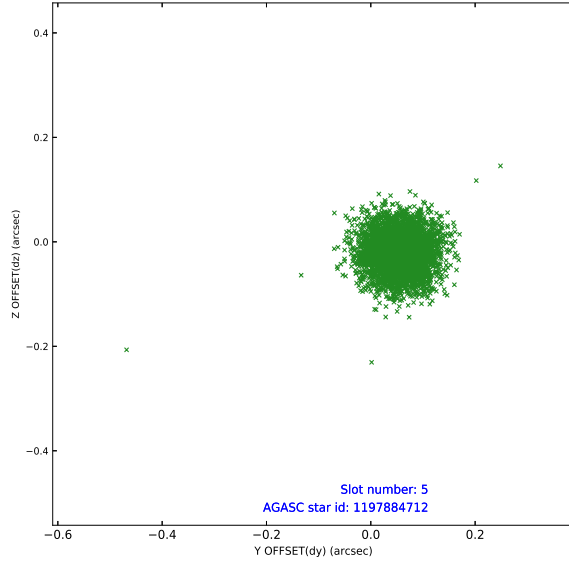
2.4.1 Slot 3



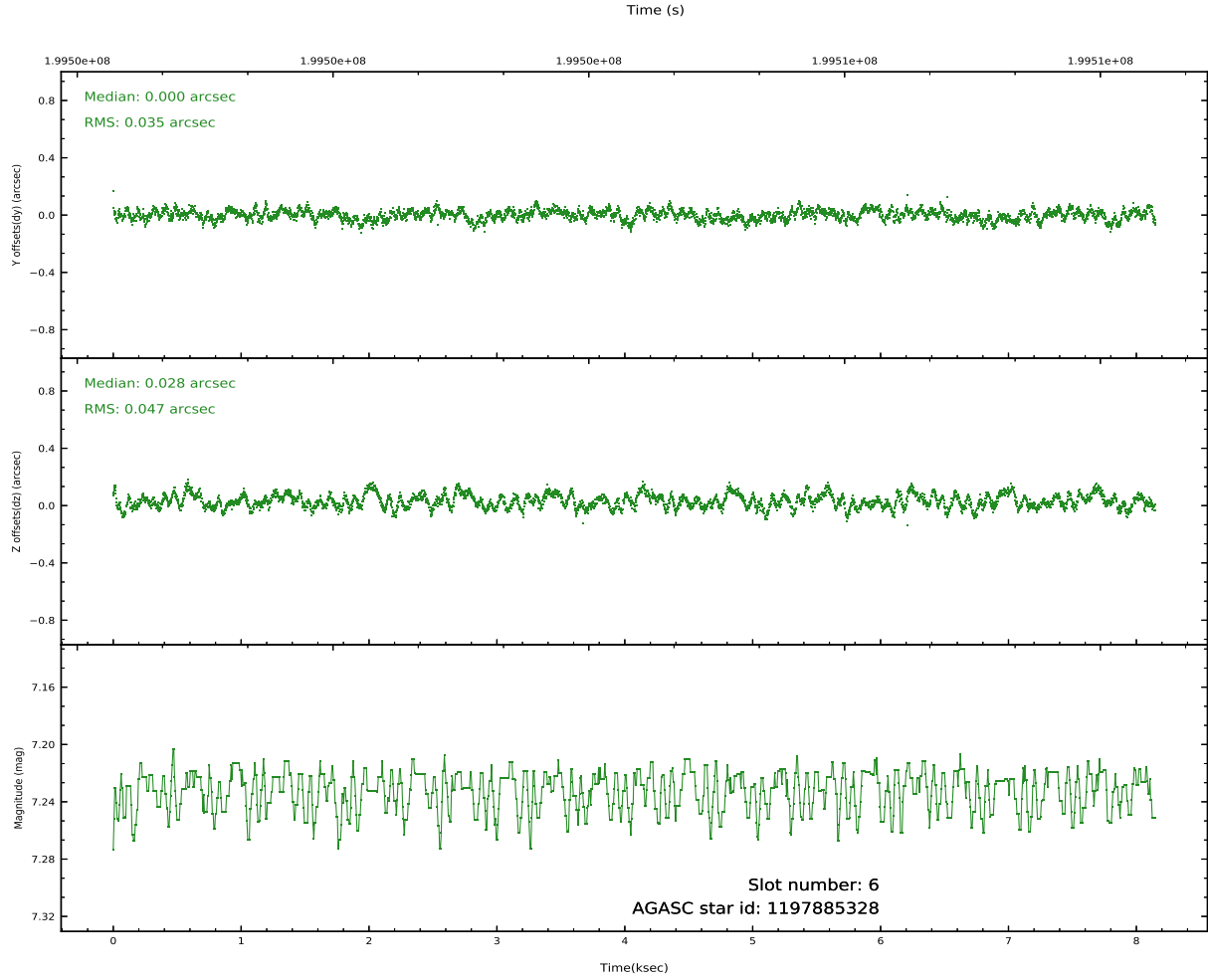
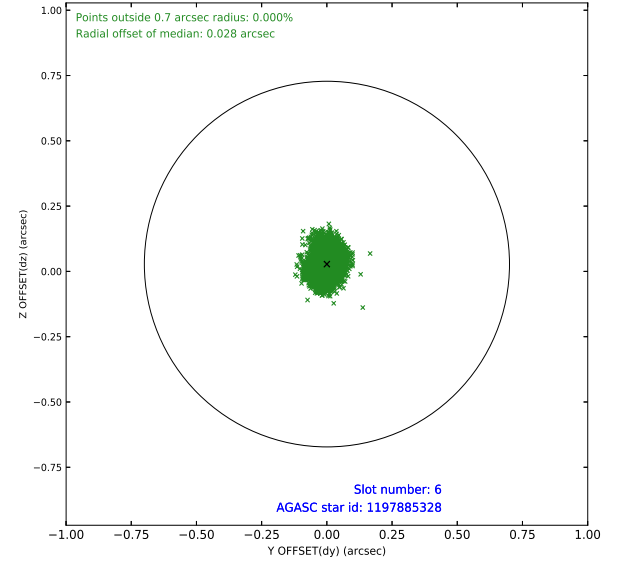
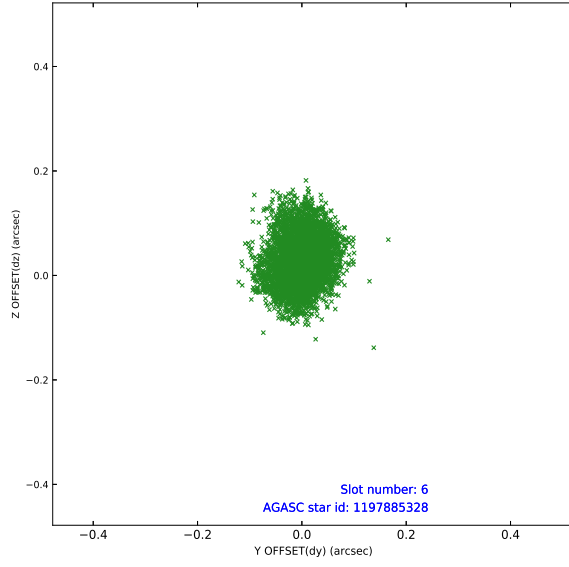
2.4.2 Slot 4



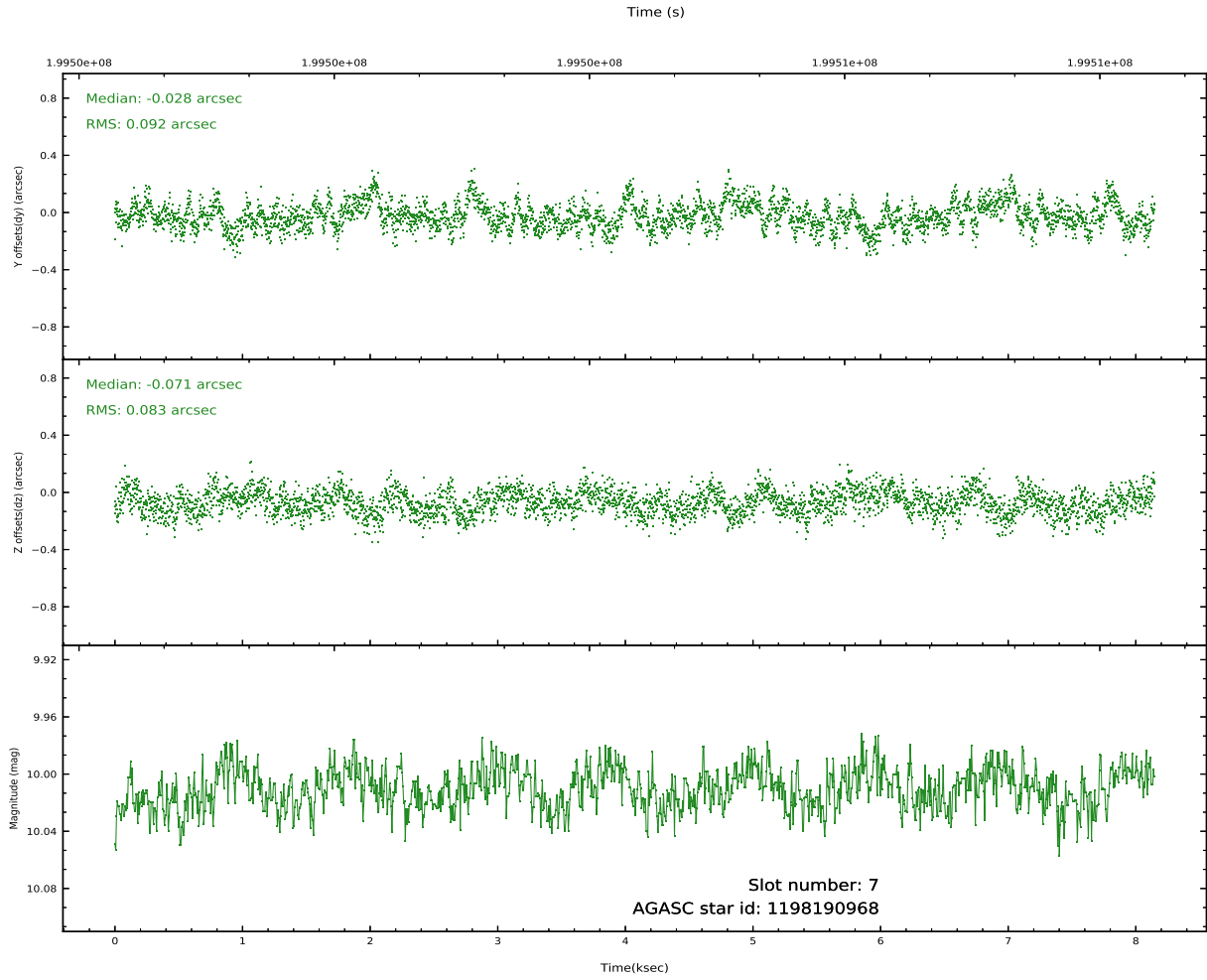
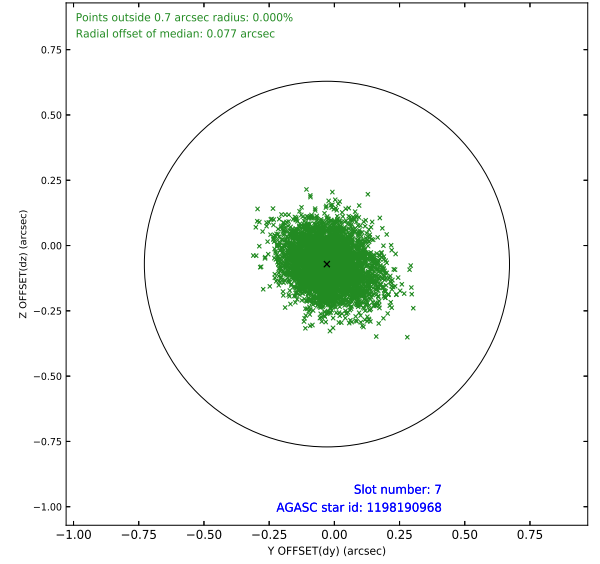
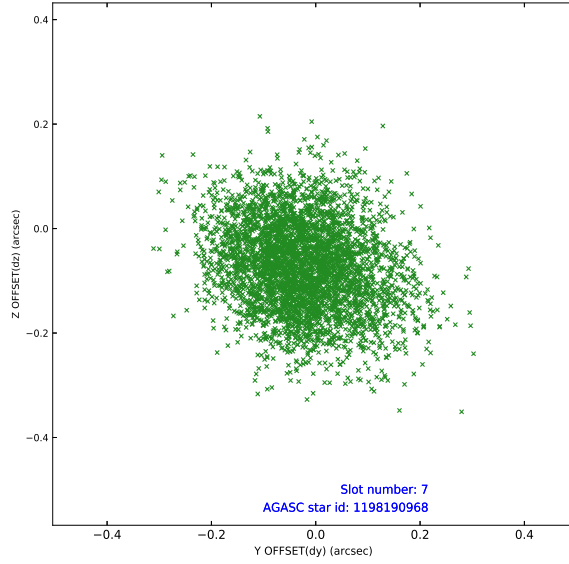
2.4.3 Slot 5



2.4.4 Slot 6

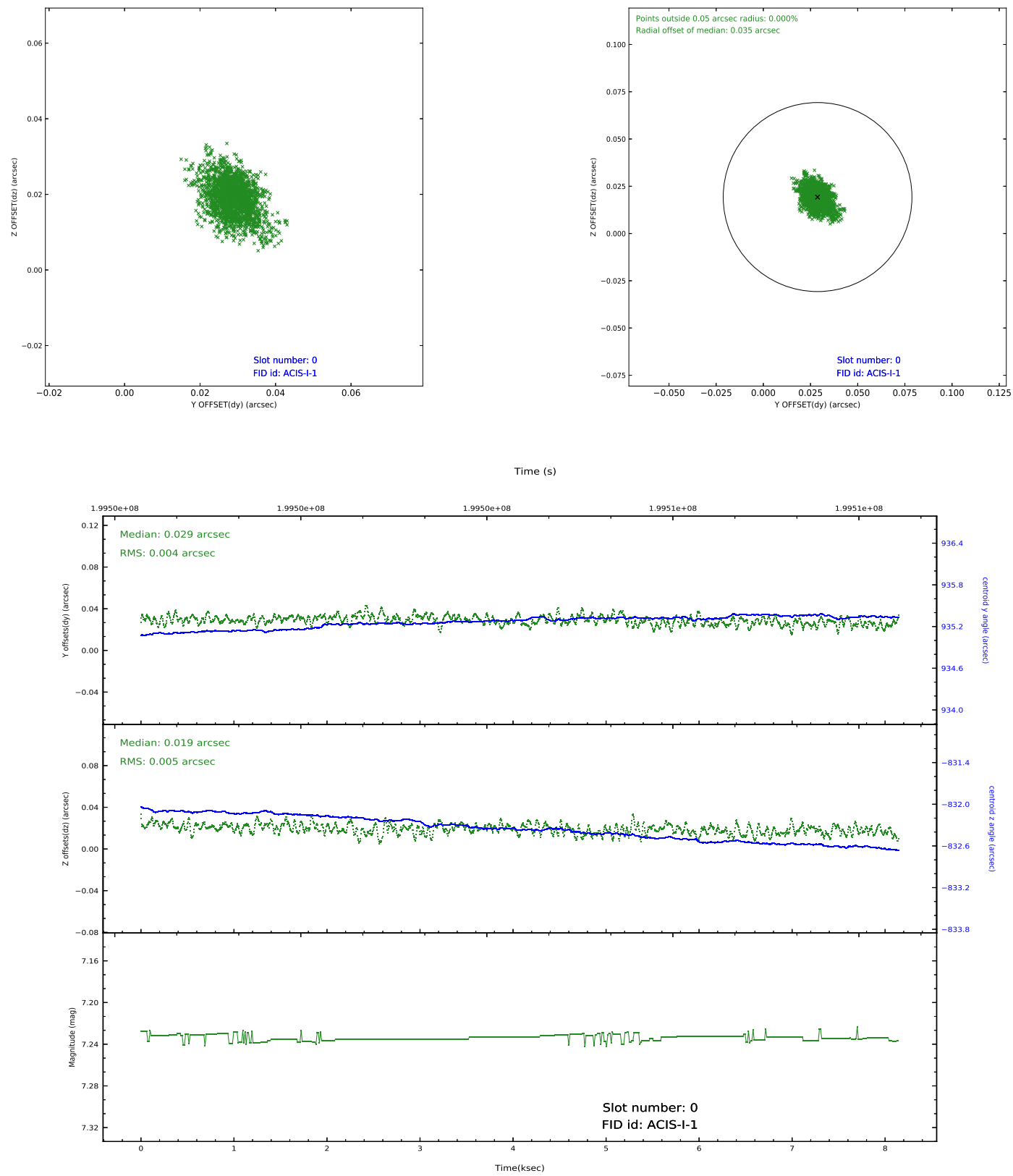


2.4.5 Slot 7

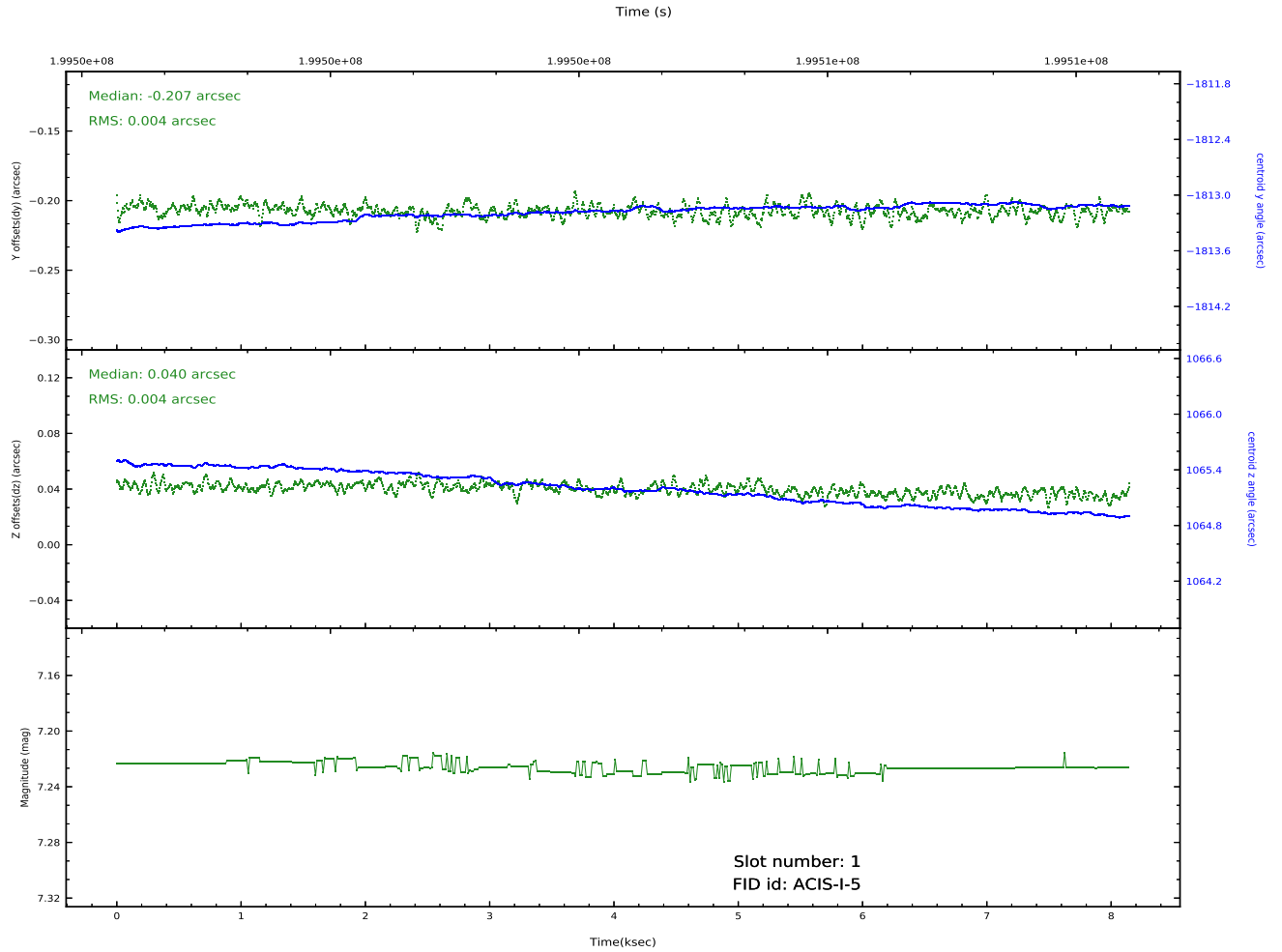
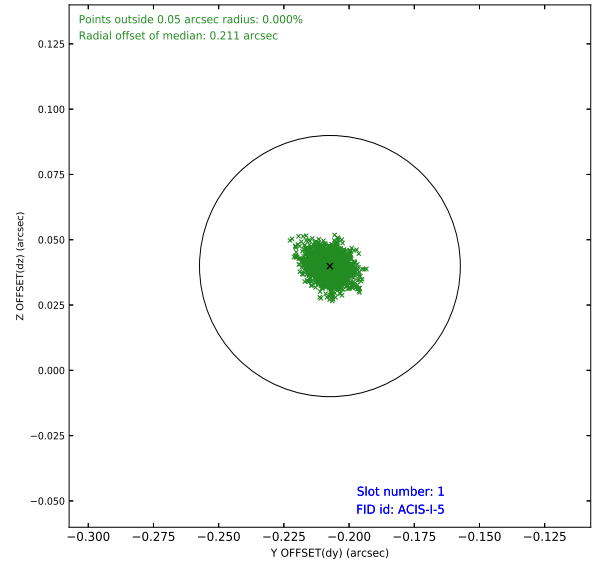
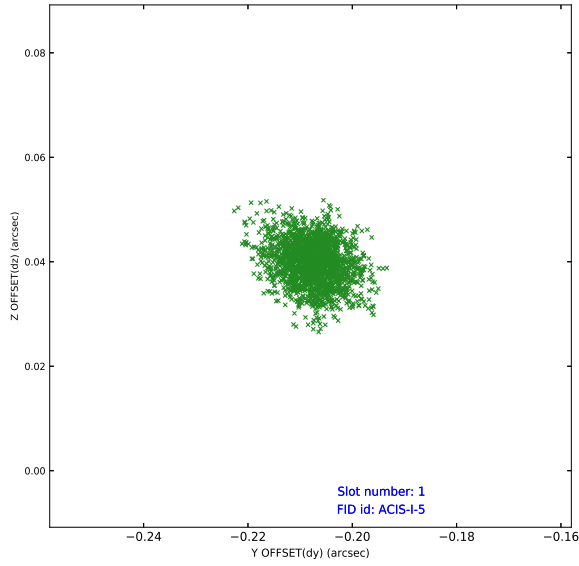


2.5 FID Slots

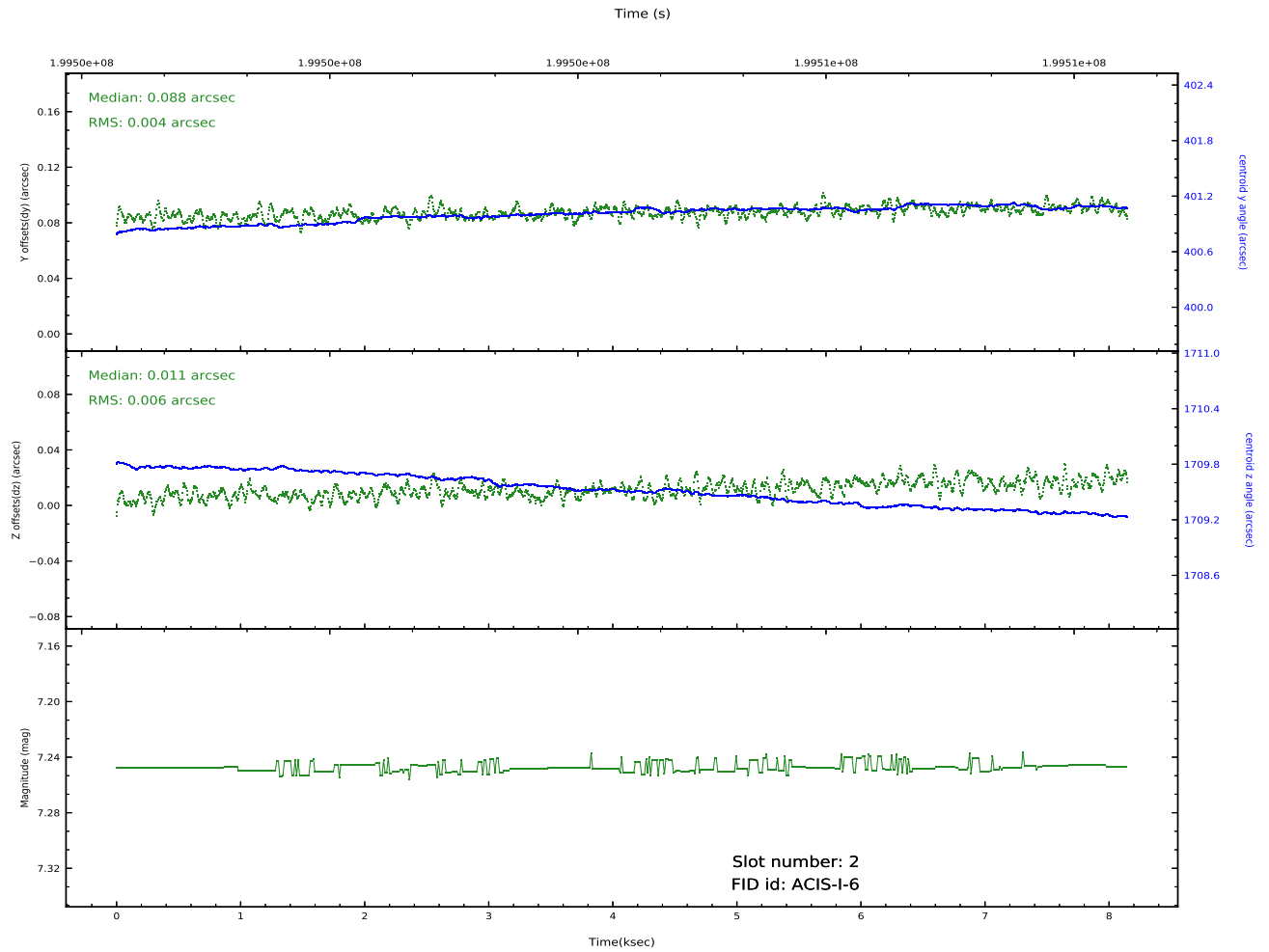
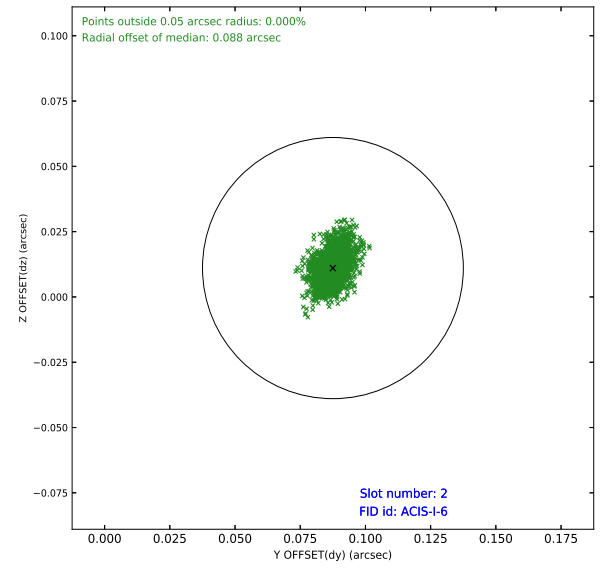
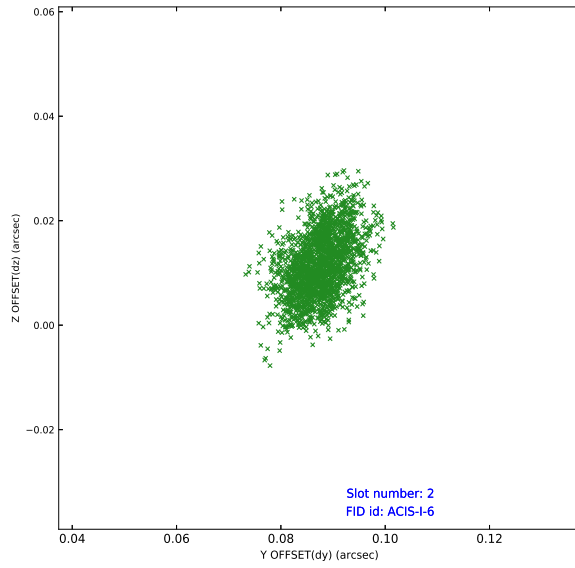
2.5.1 Slot 0



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)	2020.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.14

A.2 Comments

Window constraint met.